

Program at a Glance





TABLE OF CONTENTS

2014 CROI PROGRAM COMMITTEE	2
General Information	
Overview	4
Americans with Disabilities Act	4
CROI Foundation	4
IAS-USA	4
Continuing Medical Education (CME)	4
Objectives	4
Statement of Need	4
Accreditation Statement	4
Faculty Financial Disclosure	4
Drug and Product Disclaimer	5
Welcome Reception	5
Meals	5
Overflow Accommodations for Session Roo	oms5
Webcasts and Podcasts	5
WiFi Access at the Conference	5
Badges	6
Child Care	6
Conference Etiquette	6
Conference Services	6
Hotel Information	7
Commercial Support	8
Program and Agenda	
Oral Sessions	9
Poster Abstracts	37
Conference Schedule Overview	Inside Back Cover
Convention Center Meeting Room Layout	Outside Back Cover

2014 CROI PROGRAM COMMITTEE

Scientific Program Committee

Kevin M. De Cock, MD, Chair Centers for Disease Control and Prevention Nairobi. Kenva

Scott M. Hammer, MD, Vice Chair Columbia University College of Physicians and Surgeons New York, NY. United States

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Dana H. Gabuzda, MD Dana-Farber Cancer Institute and Harvard Medical School Boston, MA, United States

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Vaccine Research Center, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Rethesda MD. United States

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Douglas D. Richman, MD University of California San Diego VA San Diego Healthcare System La Jolla, CA, United States

Robert T. Schooley, MD University of California San Diego San Diego, CA, United States

Guido Silvestri, MD Emory University and Yerkes National Primate Research Center Atlanta, GA, United States

Papa Salif Sow, MD, MSc Bill & Melinda Gates Foundation University of Dakar Dakar, Senegal

Mario Stevenson, PhD University of Miami Miami, FL, United States

Amalio Telenti, MD, PhD Institute of Microbiology, University of Lausanne Lausanne, Switzerland

David L. Thomas, MD The Johns Hopkins University School of Medicine Baltimore, MD, United States

Alexandra Trkola, PhD Institute of Medical Virology, University of Zurich Zurich, Switzerland

Community Liaison Subcommitee

Michael Marco, MPH, MPhil Columbia University School of Public Health New York, NY, United States

Heidi M. Nass, JD AIDS Treatment Activists Coalition Madison, WI, United States

Jeff Taylor AIDS Treatment Activists Coalition Palm Springs, CA, United States

Steven F. Wakefield HIV Vaccine Trials Network Fred Hutchinson Cancer Research Center Seattle, WA, United States

Conference Secretariat

International Antiviral (formerly AIDS) Society–USA (IAS–USA) San Francisco, CA, United States Donna M. Jacobsen, Executive Director

GENERAL INFORMATION

Overview

The 2014 Conference on Retroviruses and Opportunistic Infections (CROI) will be held at the John B. Hvnes Veterans Memorial (Hynes) Convention Center from March 3 to 6, 2014, CROI was established in 1993 to provide a forum for basic scientists and clinical investigators to present, discuss, and critique their investigations into the epidemiology and biology of human retroviruses and associated diseases. The synergy of basic science and clinical investigation has been a major contributor to the success of the meeting. CROI is the preeminent HIV research meeting in the world and attracts more than 4000 HIV/AIDS research leaders internationally. The goal of the conference is to provide a forum for researchers to translate their laboratory and clinical findings into tangible progress against the HIV pandemic. CROI has facilitated the presentation of important discoveries in the field, thereby ultimately accelerating progress in HIV/AIDS research.

Americans with Disabilities Act

CROI 2014 endeavors to fully comply with the legal requirements of the Americans with Disabilities Act (ADA). If you require assistance onsite, please visit the Attendee Services booth on the Plaza level during the conference.

CROI Foundation

The CROI Foundation operates exclusively for the charitable and educational purpose of organizing, promoting, and presenting the Conference on Retroviruses and Opportunistic Infections (CROI).

IAS-USA

The International Antiviral (formerly



AIDS) Society–USA (IAS–USA) is a 501(c)(3) not-for-profit professional education organization. The IAS–USA serves as the CROI 2014 Conference Secretariat.

The mission of the IAS–USA is to improve the treatment, care, and quality of life for people with HIV, hepatitis C virus, or other viral infections through high-quality, relevant, balanced, and needs-oriented education and information for practitioners who are actively involved in medical care.

Continuing Medical Education (CME) Objectives

After participating in CROI 2014, learners will be able to:

 Describe current basic science research on the pathogenesis of HIV and on advances toward a cure

- Discuss the most recent findings from clinical trials in the HIV field and the implications of these data for stateof-the-art treatment strategies
- Review current epidemiologic data on the prevalence of HIV infection, transmission, treatment, and linkage to and retention in care in populations worldwide and discuss the implications of these data for public health program planning

Statement of Need

Since HIV was identified, the scientific response to the global pandemic has been a coordinated effort among basic researchers, clinical investigators, health care providers, epidemiologists, and community leaders to move information and potential treatment options from research to clinical trials and out to affected communities as quickly as possible. CROI was founded in 1993 by research investigators working in HIV/AIDS and its complications as a science-focused forum for exchanging current research findings among their international peers. CROI continues to focus on scientific exchange, providing an environment in which basic science researchers, translational researchers, clinical investigators, epidemiologists, and public health experts meet to present and discuss the latest research on different facets of HIV and its complications.

Accreditation Statement

The International Antiviral Society—USA (IAS—USA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The IAS–USA designates this live activity for a maximum of **27.50** *AMA PRA Category 1 Credits* TM . Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Since 2006, the IAS–USA has had Accreditation with Commendation, being a member of an elite group of organizations in the United States that have been awarded this prestigious status, which is, in the words of the ACCME, "reserved for programs that are truly exceptional."

Faculty Financial Disclosure

It is the policy of the IAS—USA to ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty members (speakers, presenters, moderators, conveners, etc) participating in IAS—USA-sponsored activities are required to disclose to the program audience any financial interests within the past 12 months that could be perceived to influence, or give the appearance of potentially influencing, the written or oral

presentation. (The ACCME defines a financial interest as an interest in any amount.) The information is intended to make our audience aware of author/contributor interests and commitments with commercial companies or other entities so that they may form their own judgments about such associations.

Each author or contributor is required to complete this financial disclosure declaration. In accordance with IAS—USA policy, the IAS—USA will identify and resolve ahead of time any possible conflicts of interest that may influence CME activities with regard to exposition or conclusion. Disclosure information will be printed in the electronic Program and Abstracts eBook.

Drug and Product Disclaimer

This activity may contain information about the investigational uses of drugs or products that are not approved by the US Food and Drug Administration. Please consult full prescribing information before using any medication or product mentioned in this activity.

Welcome Reception

Please join us after the opening session, Monday, March 3rd, for an attendee welcome reception at the Hynes Convention Center. Light hors d'ouevres and refreshments will be served. The reception will be held in Hall C.

Meals

Morning coffee breaks and afternoon snack breaks will be available to conference registrants in the Poster Hall. The Convention Center will open the permanent concession stands in Halls A, B, and D, as well as 2 Outtakes Express concession stands on Level 3, from 11 AM to 2 PM every day. The Outtakes Express stands will have cold items for purchase such items as wraps, sandwiches, salads, snacks, and chips as well as beverages. The permanent concession stands will offer these cold items as well as some hot items. Attendees are on their own for lunch during the hours of approximately 12 noon to 1:30 PM each day. Below is a list of food service options located in the Convention Center or within a short walking distance.

At the Convention Center

Towne Stove and Spirits The Capital Grill

At the Prudential Center

(next to the South Lobby main entrance of the Convention Center)

5 Napkin Burger Au Bon Pain
Ben & Jerry's Boston Chowda Co
California Pizza Cheeseboy Dunkin' Donuts
Flamers Godiva
Gourmet India Haru

Legal Sea Foods Panda Express

Paradise Bakery PF Chang's
Pizzeria Regina Poulet
Qdoba Sarku Japan
Teavana Tossed
Top of the Hub Wagamama

At the Sheraton Boston

(next to the South Lobby main entrance of the Convention Center)

SideBar & Grille Starbucks

Café Apropos

At the Marriott Copley, Copley Place Mall, and Westin Copley Place

(within 1 block of the Convention Center)

Bar 10 Champion's Sports Bar The Huntington Legal Sea Foods The Palm Turner Fisheries

Starbucks Osushi

Overflow Accommodations for Session Rooms

Most session rooms will have designated overflow areas. Should any session draw substantially higher attendance than can be accommodated, a nearby space will be available to provide a live audio and video feed.

USB Flash Drive

Each participant was supplied a blank 4Gbyte USB flash drive upon badge pick-up. The 2014 Program at a Glance and Agenda and Abstracts Book are available online to be loaded on to the USB flash drive. Downloads can be completed at the Cyber Cafe or directly from the conference website.

Website

For additional information about the conference please visit the website at: www.CROI2014.org

Webcasts and Podcasts

Plenaries, symposia, scientific overviews, oral abstract sessions, and themed discussions will be webcast and podcast. Webcasts are also available as streaming video for the Apple iPad and iPhone.

Visit www.CR0l2014.org or www.CR0lwebcasts.org to access the CR0l 2014 webcasts and podcasts. Webcasts will be available within 24 hours of the end of the session.

WiFi Access at the Conference

Complimentary WiFi access is provided at the Hynes Convention Center. There are 2 network options:

- · Hynes Wireless
- Hynes Wireless Fast (only for recent models of smart phones and tablets)

There is no login information required.

Badges

Badge pickup will be available at the registration lobby; please bring photo identification that clearly shows your name. You must wear your name badge to gain entry to all official meeting activities, including the poster sessions. DO NOT LOSE YOUR BADGE. Payment of an additional registration fee (\$730) will be required to replace a lost badge.

Child Care

Children are not permitted entry into any meeting room, including the poster area. If you should require child care, please contact the concierge of your hotel.

Conference Etiquette

Please ensure all cell phones and pagers are off or are placed in SILENT mode.

No flash photography is permitted in session rooms.

Conference Services at the Hynes Convention Center

Services Location Hours		Notes		
Boston Information	Main Lobby Plaza Level	Sunday 3 pm-5 pm Monday 11 am-7 pm Tuesday to Thursday 10 am-6 pm	Local information and reservations assistance	
Bag and Coat Check	Plaza Level	Monday 8 ам—9:30 рм Tuesday/Wednesday 7:30 ам—6:30 рм Thursday 7:30 ам—6:30 рм	\$3.00 per item	
CyberCafe	Hall C 2nd Level	Sunday 3 pm—5 pm Monday to Wednesday 7 am—7 pm Thursday 7 am—6 pm	Computers with Internet access available for webcasts, abstract searches, and messages	
Media Center	Room 208 2nd Level	Monday 9 AM-7 PM Tuesday to Thursday 8 AM-6:30 PM	There is no onsite press registration. Registered press can pick up press kits and obtain location for press conferences.	
Message Center	Main Lobby Plaza Level	Sunday 3 pm-5 pm Monday 7 Am-7 pm Tuesday 7 Am-6 pm Wednesday/Thursday 8 Am-6 pm	Access to voice and text messages in addition to the CyberCafe	
Badge Pickup Attendee Services Housing Information Scholarship Badge Pickup Media Badge Pickup	Main Lobby Plaza Level	Sunday 3 pm-6 pm Monday 7 AM-7 pm Tuesday 7 AM-6 pm Wednesday 8 AM-6 pm Thursday 8 AM-12 pm	Location to pick up badges and conference materials	
Speaker Ready Room and Poster Drop-off	Room 200 2nd Level	Sunday 3 pm–6 pm Monday to Thursday 7:30 Am–6 pm	Oral abstract, invited, and themed discussion session speakers should drop off presentations at least 24 hours before their presentation. Poster presenters should submit an electronic version of their poster for placement on the CROI website before their assigned session.	

Hotel Information

CROI 2014 hotels are listed below. For more detailed housing information, please visit: www.CR0I2014.org/housing.

Omni Parker House

60 School Street Boston, MA 02108 PH: +1 617 227 8600

The Boston Park Plaza Hotel & Towers

50 Park Plaza at Arlington Street Boston, MA 02116

PH: +1 617 426 2000

Hyatt Regency Boston

One Avenue de Lafayette Boston, MA 02111 PH: +1 617 912 1234

Taj Boston

15 Arlington Street Boston, MA 02116 PH: +1 617 536 5700

Sheraton Boston Hotel

39 Dalton Street Boston, MA 02199 PH: +1 617 236 2000

Marriott Boston Copley Place

110 Huntington Avenue Boston, MA 02116 PH: + 1 617 236 5800

The Westin Copley Place Boston

10 Huntington Avenue Boston, MA 02116 PH: +1 617 262 9600

Hilton Boston Back Bay

40 Dalton Street Boston, MA 02115 PH: +1 617 236 1100

The Colonnade Hotel

120 Huntington Avenue Boston, MA 02116 PH: +1 617 424 7000

Mandarin Oriental Boston

776 Boylston Street Boston, MA 02199 PH: +1 617 535 8888

The Midtown Hotel

220 Huntington Avenue Boston, MA 02115 PH: +1 617 262 1000

Hampton Inn & Suites

- Crosstown Center 811 Massachusetts Avenue Boston, MA 02118 PH: + 1 617 445 6400

COMMERCIAL SUPPORT

In the interest of objective, balanced, and scientifically rigorous activities, the IAS–USA seeks grant support from multiple commercial companies, particularly from companies with competing products. These companies

have no input in or control over the selection of faculty or content of the presentations.

CROI 2014 has received grant support commitments from the following commercial companies:

Platinum





Gold





Silver



Additional support has been provided by Mylan, Inc

ORAL SESSIONS

MONDAY MARCH 3, 2014

Session W1 Workshop

9:00 AM - 1:15 PM Ballroom B/C

Program Committee Workshop for New Investigators and Trainees

Target audience: This workshop is directed toward new trainees (eg, undergraduate students, graduate students, postdoctoral fellows, and physician fellows) and new investigators (both international and domestic).

Level of knowledge: It is assumed that learners have been conducting active research in the field for less than 3 years.

Objectives: At the completion of the workshop, learners will be able to:

- Recognize the major areas of HIV investigation being presented at the conference
- Identify the top 3 to 5 research questions in the field of retroviruses and opportunistic infections today
- Describe some of the proposed solutions for addressing the challenges presented globally by a variety of retroviruses and opportunistic infections

Conveners

Judith S. Currier, University of California Los Angeles, Los Angeles, CA, United States

John W. Mellors, University of Pittsburgh School of Medicine, Pittsburgh, PA. United States

1 HIV Pathogenesis: Current Understanding and Future Research

Dana H. Gabuzda, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, United States

2 HIV Cure Research

John W. Mellors, University of Pittsburgh, Pittsburgh, PA, United States

3 HIV Vaccine Immunology: Recent Progress and Continuing Challenges

Richard A. Koup, Vaccine Research Center, National Institute of Allergy and Infectious Disease, National Institutes of Health, Bethesda, MD, United States

- 4 HIV Prevention Research: Progress and Challenges Sharon L. Hillier, University of Pittsburgh School of Medicine, Magee-Womens Hospital, Pittsburgh, PA, United States
- 5 Pathogenesis and Control of HCV Infection David L. Thomas, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

Session MD Panel

1:30 PM - 2:30 PM Ballroom B/C

6 Martin Delaney Panel: Hepatitis C Virus: From Trials and Tribulations To Triumph

The Martin Delaney Panel is held annually during the workshops for Young Investigators, International Scholars, and Community Educators in honor of pioneering HIV/ AIDS activist Martin Delaney (1945-2009). It recognizes the important contributions of community advocacy and engagement to research.

Panel Leaders

Jeff Taylor, AIDS Treatment Activists Coalition, Palm Springs, CA, United States

Tracy Swan, Treatment Action Group, New York, NY, United States

Panelists

Isabelle Andrieux-Meyer, Médecins sans Frontières, Geneva, Switzerland Jules Levin, National AIDS Treatment Advocacy Project (NATAP), New York. NY. United States

Lynn E. Taylor, Brown University, Providence, RI, United States

Session W2 Workshop

2:30 PM - 4:30 PM Ballroom B/C
Clinical Trial Design and Analysis

Target audience: This session is directed to clinicians and scientists who are interested in designing or interpreting clinical trial results.

Level of knowledge: It is assumed that learners are familiar with the basic design of randomized and observational clinical studies.

Objectives: At the completion of the session, learners will be able to:

- Discuss one or more possible solutions to adherence challenges
- Define factorial designs and discuss their advantages and disadvantages
- Define meta-analyses and discuss their advantages and disadvantages

Conveners

Susan Buchbinder, San Francisco Department of Public Health, San Francisco, CA, United States

Richard Chaisson, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

- 7 Adherence: The Achilles Heel for Trial Interventions David R. Bangsberg, Massachusetts General Hospital Center for Global Health, Boston, MA, United States
- 8 Studying Multiple Interventions: Factorial Designs and Other Approaches Richard J. Hayes, London School of Hygiene and Tropical Medicine, London, United Kingdom

9 So Many Trials, So Little Time: Meta-Analysis Dos and Don'ts

Dean A. Follmann, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Session W3 Workshop

2:30 PM – 4:30 PM Ballroom A Frontiers in Laboratory Science Workshop

The purpose of this workshop is to present the main technological and conceptual developments in life sciences that are influencing HIV research or hold a significant potential for research. The presentation should educate and engage investigators and clinicians, and spark interest in emerging technologies. The workshop format is designed to provide in-depth views on technologies that define B and T cell development and characterization, progress in the study of host-pathogen interactions at molecular and cellular levels, and new approaches to genetic editing. Applications in HIV research will be discussed.

Conveners

Galit Alter, Ragon Institute of Massachusetts General Hospital, Massachusetts Institute of Technology, and Harvard, Cambridge, MA, United States

Amalio Telenti, Institute of Microbiology, University of Lausanne, Lausanne, Switzerland

- Systems Immunology Approaches for Vaccine Profiling and Antibody Discovery Sai Reddy, Swiss Federal Institute of Technology Zurich, Basel, Switzerland
- 11 3-D Structural Analysis of HIV Using Correlative CryoEM and Live Cell Imaging Peijun Zhang, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States
- 12 Virus-Host Interactions Revealed Through Proteomics/Phosphoproteomics Beatrix Ueberheide, New York University Langone Medical Center, New York, NY, United States
- 13 CRISPRs and Other Genome Editing Systems Paul F. Bates, University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA, United States

Session W4 Workshop

2:30 PM - 4:30 PM Room 304

Workshop for Clinicians Who Are New To Hepatitis C Management: A Case-Based Interactive Session

Target audience: This session is directed to persons newly engaged in the care of HCV-infected patients

Level of knowledge: It is assumed that learners are familiar with fundamental principles of medicine and antimicrobial therapy

Objectives: At the completion of the session, learners will be able to:

- List the practices routinely required for HCV-infected persons with cirrhosis
- Describe patients for whom HCV treatment is not currently advisable
- List the recommended therapies for persons with genotypes 1-4 HCV infection

Conveners

David L. Thomas, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

Robert T. Schooley, University of California San Diego, San Diego, CA, United States

14 Liver Management
Kenneth E. Sherman, University of Cincinnati College of
Medicine, Cincinnati, OH, United States

15 Interactive Case Presentations David L. Wyles, University of California San Diego, San Diego, CA, United States

Susanna Naggie, Duke Clinical Research Institute, Durham, NC, United States

Opening Session

5:00 PM - 7:00 PM Auditorium

Welcome

Session NL1 Lecture Bernard Fields Lecture

The Bernard Fields Lecture, named in tribute to the exemplary work of the esteemed microbiologist and virologist Bernard Fields, is given during the opening session, to recognize the speaker for their important and relevant contributions to the fields of virology and viral pathogenesis.

17 Making and Breaking Barriers To Cross-Species HIV-1 Transmission

Paul D. Bieniasz, Aaron Diamond AIDS Research Center, The Rockefeller University, New York, NY, United States

Session NL2 Lecture N'Galy-Mann Lecture

The N'Galy-Mann Lecture, named in honor of Drs Bosenge N'Galy and Jonathan Mann for their pioneering work in HIV science in Africa, is given during the opening session and recognizes an HIV/AIDS researcher for his or her important and relevant work in the fields of epidemiology or clinical research.

Application of Scientific Knowledge and Evidence To Limit the Progression of HIV/AIDS and Fight Other Endemic Diseases in West Africa

Souleymane Mboup, Centre Hospitalier Universitaire Aristide le Dantec, Dakar, Senegal

Welcome Reception

7:00 PM - 9:00 PM Hall C

TUESDAY MARCH 4, 2014

Session PL1 Plenary

8:30 AM - 9:00 AM Auditorium

19 HPV Vaccines: Progress To Date and Future Worldwide Directions

Douglas R. Lowy, National Cancer Institute, Bethesda, MD, United States

Session PL2 Plenary

9:00 AM - 9:30 AM Auditorium

20 HIV in People Who Use Drugs

Adeeba Kamarulzaman, University of Malaya, Kuala Lumpur, Malaysia

Session 0-1 Oral Abstracts

10:00 AM - 12:15 PM Ballroom B/C Hepatitis

Moderators

Jürgen Rockstroh, University Hospital Bonn, Bonn, Germany Kristen M. Marks, Weill Cornell Medical College, New York, NY, United States

21 Longitudinal Phenotypic Profiling of Early HCV-Specific CD4 T Cells in HIV- and HIV+ Individuals

Diana Y. Chen¹, Lyndon K. Matsubara¹, Joelle Brown¹, Stephanie S. Kulaga², Jasneet Aneja², Lia Lewis-Ximenez³, Eddie James⁴, William W. Kwok⁴, Arthur Y. Kim², Georg M. Lauer¹

'Gastrointestinal Unit, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, *Infectious Disease Division, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, *Laboratorio de Hepatites Virais, Instituto Oswaldo Cruz, Fundacao Oswaldo Cruz, Rio de Janeiro, Brazil, *Benaroya Research Institute at Virginia Mason, Seattle, WA, United States

22 Rapid Peripheral In Vivo Cellular Changes During Interferon-Free Treatment of Hepatitis C

Eric G. Meissner¹, Brian Santich¹, Yu-Jin Lee¹, Olga Prokunina¹, Anuoluwapo Osinusi¹², Anita Kohli¹², Henry Masur³, Susan Moir¹, Shyamasundaran Kottilil¹

¹Laboratory of Immunoregulation, NIAID/NIH, Bethesda, MD, United States, ²SAIC-Frederick, Inc, Frederick, MD, United States, ³CCMD/NIH, Bethesda, MD, United States

23 Faldaprevir Plus Pegylated Interferon Alfa-2a/ Ribavirin in HIV/HCV Coinfection: STARTVerso4

Douglas Dieterich¹, Cristina Tural², Mark Nelson³, Keikawus Arastéh¹, Vicente Soriano⁵, Josep Guardiola˚, Sanjay Bhagani², Jürgen K. Rockstroh³, Jerry O. Stern³, Anne-Marie Quinson³ ¹Mount Sinai Medical Center, New York, NY, United States,²Hospital Universitari Germans Tiras i Pujol, Barcelona, Spain,³Chelsea and Westminster Hospital, London, United Kingdom,⁴EPIMED/Vivantes Auguste-Viktoria-Klinikum, Berlin, Germany,³Hospital Carlos III, Madrid, Spain,⁵Hospital de la Santa Creu i Sant Pau, Barcelona, Spain,⁵The Royal Free Hospital, London, United Kingdom,°Department of Medicine I, University

of Bonn, Bonn, Germany, Boehringer Ingelheim Pharmaceuticals Inc.. Ridgefield. CT. United States

24 Simeprevir (TMC435) Plus PegIFN/Ribavirin in HCV Genotype-1/HIV-1 Coinfection (Study C212)

Douglas Dieterich¹, Jürgen K. Rockstroh², Chloe Orkin³, Félix Gutierrez¹, Marina B. Klein⁵, Jacques Reynes⁵, Lotke Tambuyzer³, Monika Peeters², Alan Jenkins⁵, Wolfgang Jessner³¹lcahn School of Medicine at Mount Sinai, New York, NY, United States, ³Medizinische. Universitätsklinik I, Bonn, Germany ³Royal London Hospital, London, United Kingdom,⁴Hospital General de Elche and Universidad Miguel Hemåndez, Alicante, Spain,⁵McGill University Health Centre, Montreal, QC, Canada,°Gui De Chauliac University Hospital, Montpellier, France,¹Janssen Infectious Diseases BVBA, Beerse, Belgium,³Janssen Research & Development, Raritan, NJ, United States

25 All-Oral Combination of Daclatasvir, Asunaprevir, and BMS-791325 for HCV Genotype 1 Infection

Gregory T. Everson¹, Paul J. Thuluvath², Eric Lawitz³, Tarek Hassanein⁴, Maribel Rodriguez-Torres⁵, **Trevor Hawkins**¢, Vinod Rustgi², Federico Hinestrosa®, James Levin®, Karen Sims¹º

'University of Colorado Denver, Aurora, CO, United States, 'Mercy Medical Center, Baltimore, MD, United States, 'The Texas Liver Institute, University of Texas Health Science Center, San Antonio, TX, United States, 'Southern California Liver Centers, Coronado, CA, United States, 'Fundación de Investigación, San Juan, Puerto Rico,' Southwest CARE Center, Santa Fe, NM, United States, 'Metropolitan Research, Arlington, VA, United States, 'Orlando Immunology Center, Orlando, FL, United States,' Dean Foundation for Health, Research and Education, Inc., Madison, WI, United States, ''Bristol-Myers Squibb, Hopewell, NJ. United States

26 Sofosbuvir Plus Ribavirin for HCV Genotype 1-3 Infection in HIV Coinfected Patients (PHOTON-1)

Susanna Naggie¹, Mark Sulkowski², Jacob Lalezari³, W.
Jeffrey Fessel⁴, Karam Mounzer⁵, Margaret Shuhart⁵, Anne
Luetkemeyer⁵, David Asmuth³, Douglas Dieterich³, Maribel
Rodriguez-Torres¹⁰, and The Gilead PHOTON-1 Study Team
¹Duke Clinical Research Institute, Durham, NC, United
States,²The Johns Hopkins University, Baltimore, MD,
United States,²Quest Clinical Research, San Francisco,
CA, United States,²Kaiser Permanente, San Francisco, CA,
United States,²Philadelphia FIGHT, Philadelphia, PA, United
States,²Parborview Medical Center, Seattle, WA, United
States,²San Francisco General Hospital, San Francisco, CA,
United States,²University of California Davis Medical Center,
Sacramento, CA, United States,²Fundacion De Investigacion, San
Juan, PR, United States

27LB Combination Oral, Hepatitis C Antiviral Therapy for 6 or 12 Weeks: Final Results of the SYNERGY Trial

Anita Kohli¹.², Zayani Sims¹, Amy Nelson³, Anu Osinusi³.⁴, Geb Tefari⁵, Phil Pang⁶, William Symonds⁶, John McHutchison⁶, Henry Masur¹, Shyam Kottilili³

"Ichitical Care Medicine Department, National Institutes of Health, Bethesda, MD, United States, "Clinical Research Directorate/ Clinical Monitoring Research Program, Leidos Biomedical Research, Inc. (formerly SAIC—Frederick, Inc.), Frederick National Laboratory for Cancer Research, Frederick, MD, United States, "Laboratory of Immunoregulation, National Institutes of Health, Bethesda, MD, United States, "University of Maryland, Baltimore, MD, United States, Unity Health Care, Washington, DC, United States, Gilead Sciences, Foster City, CA, United States

28LB Daclatasvir in Combination With Simeprevir ± Ribavirin for Hepatitis C Virus Genotype 1 Infection

Stefan Zeuzem¹, Christophe Hezode², Jean-Pierre P. Bronowicki³, Veronique Loustad-Ratti⁴, Francisco Gea⁵, Maria Buti⁶, Maria Beumont-Mauviel², Navdeep Boparai⁶, Gaston Picchio⁶, Stephanie Noviello⁶, on behalf of the LEAGUE-1 Study Team

'JW Goethe University Hospital, Frankfurt a.m., Germany, 2Hôpital Henri Mondor, Paris, France, 2Centre Hospital Universitaire de Nancy, Vandoeuvre Les Nancy, France, 4Université Limoges, Limoges, France, 5University Hospital La Paz, Madrid, Spain, 6Hospital Vall Hebron, Barcelona, Spain, 7Janssen Infectious Disease BVBA, Beerse, Belgium, 8tristol-Myers Squibb, Princeton, NJ, United States, 9Janssen Research and Development. Titusville. NJ. United States

29LB PEARL III: SVR ≥99% After 12 Wks of ABT-450/r/267 + ABT-333 ± RBV in Treatment Naïve HCV GT1b Infection

Peter Ferenci¹, Anders Nyberg², David Bernstein³, Yaacov Baruch⁴, Vladimir Chulanov⁵, Wangang Xie⁶, Daniel Cohen⁶, Thomas Podsadecki⁶, **K Rajender Reddy**⁷, on behalf of the PEARL-III Study Group

'Universitaetsklinik fuer Innere Medizin III, Vienna, Austria, Raiser Permanente, San Diego, CA, United States, North Shore University Hospital, Manhasset, NY, United States, Ramham Health Care Campus, Haifa, Israel, Federal Budget Institute of Science, Moscow, Russian Federation, AbbVie Inc., North Chicago, IL, United States, University of Pennsylvania, Philadelphia, PA, United States

Session 0-2 Oral Abstracts

10:00 AM – 12:00 PM Room 304 NeuroHIV: Developments in Treatment and Pathogenesis

Moderators

Edwina J. Wright, The Alfred Hospital, Monash University, Melbourne, Australia

Victor G. Valcour, University of California San Francisco, San Francisco, CA, United States

30 Early Antiretroviral Therapy Appears To Normalize Intrathecal Markers of Immune Activation

Julia Peterson¹, Evelyn Lee¹, Dietmar Fuchs², Richard W. Price¹, Serena Spudich³

¹Neurology, University of California San Francisco, San Francisco, CA, United States, ²Innsbruck Medical University, Innsbruck, Austria, ³Neurology, Yale University, New Haven, CT, United States

31 Immediate Antiretroviral Therapy Mitigates the Development of Neuronal Injury in Acute HIV Michael J. Peluso¹, Victor Valcour², Jintanat Ananworanich³.4,

Michael J. Peluso¹, Victor Valcour², Jintanat Ananworanich³⁴, Pasiri Sithinamswan⁵, Thep Chalermchai⁴, Nitiya Chomchey⁴, Bonnie Slike⁶, Magnus Gisslen⁻, Henrik Zetterberg⁻, Serena Spudich⁶, on behalf of the RV254/SEARCH 010 and 011 Study Teams 'Department of Medicine, Brigham and Women's Hospital, Boston, MA, United States, Memory and Aging Center, University of California San Francisco, San Francisco, CA, United States, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, SEARCH, The Thai Red Cross AIDS Research Center, Bangkok, Thailand, Phramongkutklao Hospital, Bangkok, Thailand, SUS Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, University of Gothenburg, Gothenburg, Sweden, Vale University School of Medicine, New Haven, CT, United States

32 Replication of HIV-1 in the Central Nervous System of Adults Early After Infection

Christa Buckheit Sturdevant¹, Gretja Schnell¹, Richard W. Price², Serena Spudich³, Ronald Swanstrom¹ ¹UNC Chapel Hill, Chapel Hill, NC, United States,²University of California San Francisco, San Francisco, CA, United States,³Yale University, New Haven, CT, United States

33 Persistent CSF, But Not Plasma HIV RNA Is Associated With Increased Risk of New-Onset Depression

Edward R. Hammond¹, Rosa M. Crum¹, Glenn J. Treisman¹, Shruti H. Mehta¹, Ronald J. Ellis², Igor Grant², Scott L. Letendre², Christina M. Marra³, Susan Morgello⁴, Justin C. McArthur¹¹The Johns Hopkins University, Baltimore, MD, United States,²University of California San Diego, San Diego, CA, United States,³University of Washington, Seattle, WA, United States,¹Ucahn School of Medicine at Mount Sinai, New York, NY, United States

34 CSF Metabolomics Reveals Altered Waste Clearance and Accelerated Aging in HIV Patients With HAND

Edana Cassol¹, Vikas Misra¹, Anupriya Dutta¹, Susan Morgello², Dana Gabuzda¹

¹Cancer Immunology and AIDS, Dana-Farber Cancer Institute, Boston, MA, United States, ²The Mount Sinai Medical Center, New York, NY. United States

35 Cerebral Small Vessel Disease and HAND in ARV-Treated Subjects

Virawudh Soontornniyomkij, Anya Umlauf, Benchawanna Soontornniyomkij, Ben Gouaux, Will Toperoff, David J. Moore, Eliezer Masliah, Igor Grant, **Cristian L. Achim** *UC San Diego, San Diego, CA, United States*

Session 0-3 Oral Abstracts

10:00 AM – 12:15 PM Ballroom A
Prevention and Epidemiology: Evolving Trends

Moderators

Rochelle P. Walensky, Harvard Medical School, Massachusetts General Hospital, Boston, MA, United States

lan M. McGowan, University of Pittsburgh, Pittsburgh, PA, United States

36 Temporal Trends in Prognostic Markers of HIV-1 Virulence and Transmissibility

Nikos Pantazis¹, Kholoud Porter², Dominique Costagliola³, Andrea De Luca⁴, Jade Ghosn⁵, Marguerite Guiguet², Anthony D. Kelleherª, Charles Morrison², Rodolphe Thiebautª, Giota Touloumi¹, on behalf of the CASCADE Collaboration in EuroCoord 'Hygiene, Epidemiology & Medical Statistics, Athens University Medical School, Athens, Greece, MRC Clinical Trials Unit at University College London, London, United Kingdom, 'INSERM U943, Université Pierre et Marie Curie - Paris 6, UMR S 943, Paris, France, 'Institute of Clinical Infectious Diseases, Università Cattolica del Sacro Cuore, Roma, Italy, 'Internal Medicine and Infectious Diseases, Bicetre University Hospital, Kremlin Bicetre, Paris, France, 'Kirby Institute, University of New South Wales, Sidney, Australia, 'FHI 360, Durham, NC, United States, 'INSERM U897 Centre of Epidemiology and Biostatistics, ISPED Bordeaux School of Public Health, University Bordeaux Segalen, Bordeaux, France

37 Transmission Clusters, Recent Infection and STIs Among New HIV Cases: Implications for Prevention

Hong-Ha M. Truong^{1,2}, Sharon Pipkin³, Kara O'Keefe³, Brian Louie³, Teri Liegler¹, Willi McFarland^{1,3}, Robert M. Grant^{1,2}, Mark Pandori³, Kyle Bernstein³, Susan Scheer³

¹University of California San Francisco, San Francisco, CA, United States, ²Gladstone Institute of Virology and Immunology, San Francisco, CA, United States, ³Department of Public Health, San Francisco, CA, United States

38 Race and Age Disparities in HIV Incidence and Prevalence Among MSM in Atlanta, GA

Eli S. Rosenberg¹, Patrick S. Sullivan¹, Colleen F. Kelley², Travis H. Sanchez¹, Nicole Luisi¹, Carlos del Rio³, Laura F. Salazar⁴, Paula F. Frew⁵, John L. Peterson⁶

¹Epidemiology, Emory University Rollins School of Public Health, Atlanta, GA, United States, Infectious Diseases, Emory University School of Medicine, Atlanta, GA, United States, ³Hubert Department of Global Health, Emory University Rollins School of Public Health, Atlanta, GA, United States, ⁴Institute of Public Health, Georgia State University, Atlanta, GA, United States, ⁵Medicine, Emory University School of Medicine, Atlanta, GA, United States, ⁶Psychology, Georgia State University, Atlanta, GA, United States

39 Correlating GSK1265744 Plasma Levels To Prevention of Rectal SHIV Transmission in Macaques

Chasity D. Andrews¹, William Spreen², Yun Lan Yueh², Agegnehu Gettie¹, Kasī Russell-Lodrigue³, Hiroshi Mohri¹, Cecilia Cheng-Mayer¹, Zhi Hong², Martin Markowitz¹, David D. Ho¹ ¹Aaron Diamond AIDS Research Center, The Rockefeller University, New York, NY, United States,²GlaxoSmithKline, Research Triangle Park, NC, United States,³Tulane National Primate Research Center, Covington, LA, United States

40LB Monthly GSK744 Long-Acting Injections Protect Macaques Against Repeated Vaginal SHIV Exposures

Jessica Radzio¹, William Spreen², Yun Lan Yueh², James Mitchell¹, Leecresia Jenkins¹, **J. Gerardo Garcia-Lerma¹**, Walid Heneine¹

¹Division of HIV/AIDS Prevention, CDC, Atlanta, GA, United States, ²GlaxoSmithKline, Research Triangle Park, NC, United States

41 Safety and Pharmacokinetics/ Pharmacodynamics of Dapivirine and Maraviroc Vaginal Rings

Beatrice A. Chen¹, Lori Panthre², Craig Hoesley³, Craig Hendrix¹, Ariane van der Straten³, Marla Husnik³, Lydia E. Soto-Torres², Annalene Nel³, Sherri Johnson°, Charlene S. Dezzutti¹º¹University of Pittsburgh, Pittsburgh, PA, United States,²The Fenway Institute, Boston, MA, United States,²University of Alabama at Birmingham, Birmingham, AL, United States,⁴The Johns Hopkins University, Baltimore, MD, United States,⁴The International, San Francisco, CA, United States, GStatistical Center for HIV/AIDS Research & Prevention, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, 'NIAID' DAIDS, Bethesda, MD, United States, 'International Partnership for Microbicides, Silver Spring, MD, United States, 'PHI 360, Research Triangle Park, NC, United States, 'Magee-Women's Research Institute, Pittsburgh, PA, United States

42LB FAME-02: A Phase I Trial To Assess Safety, PK, and PD of Gel and Film Formulations of Dapivirine

Katherine E. Bunge¹, Charlene S. Dezzutti², Ingrid Macio¹, Craig W. Hendrix², Lisa C. Rohan², Mark A. Marzinke³, Brid Devlin¹, Leslie A. Meyn², Hans M. L. Spiegel⁵, Sharon L. Hillier² ¹Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh, Pittsburgh, PA, United States,⁴Magee-Womens Research Institute, Pittsburgh, PA, United States, ¹Department of Medicine, The Johns Hopkins University, Baltimore, MD, United States,⁴International Partnership for Microbicides, Silver Spring, MD, United States,⁵Division of AIDS, National Institutes of Health, Bethesda, MD, United States

43 Single-Agent TDF Versus Combination FTC/TDF PrEP Among Heterosexual Men and Women Jared Baeten¹, Deborah Donnell¹², Patrick Ndase¹, Nelly Mugo¹³, Connie Celum¹, Partners PrEP Study Team ¹University of Washington, Seattle, WA, United States,²Fred Hutchinson Cancer Research Center, Seattle, WA, United States,³Kenya Medical Research Institute, Nairobi, Kenya

44 Divergent Adherence Estimates With Pharmacokinetic and Behavioral Measures in VOICE (MTN003)

Ariane van der Straten^{1,2}, Elizabeth R. Brown³, Jeanne M. Marrazzo⁴, Zvavahera M. Chirenje⁵, Kailazarid Gomez⁶, Jeanna M. Piper⁷, Craig W. Hendrix⁸

"Women's Global Health Imperative, RTI International, San Francisco, CA, United States," Department of Medicine, Center for AIDS Prevention Studies (CAPS), University of California San Francisco, San Francisco, CA, United States, "Statistical Center for HIV/AIDS Research & Prevention (SCHARP), Fred Hutchinson Cancer Research Center, Seattle, WA, United States, "Department of Medicine, Division of Infectious Diseases, University of Washington, Seattle, WA, United States," Department of Obstetrics and Gynecology, University of Zimbabwe, Harare, Zimbabwe, "FHI 360, Research Triangle Park, NC, United States," Division of AIDS, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States," Department of Medicine, The Johns Hopkins University, Baltimore, MD, United States

153LB HIV Transmission Risk Through Condomless Sex If HIV+ Partner On Suppressive ART: PARTNER Study

Alison Rodger¹, Tina Bruun², Valentina Cambiano¹, Pietro Vernazza³, Vicente Estrada⁴, Jan Van Lunzen⁵, Simon Collins⁶, Anna Maria Geretti⁷, Andrew Phillips¹, Jens Lundgren⁸, for the PARTNER Study Group

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Health, University College London, London, United
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Copenhagen, Copenhagen, Denmark, Infectious Diseases,
Cantonal Hospital, St. Gallen, Switzerland, Department of
Infectious Diseases, Hospital Clinico San Carlos, Madrid,
Spain, Department of Infectious Diseases, University Medical
Center, Hamburg, Germany, HIV i-Base, London, United
Kingdom, Institute of Infection & Global Health, University of
Liverpool, Liverpool, United Kingdom, Centre for Viral Diseases
and the Copenhagen HIV Programme, University of Copenhagen,
Copenhagen, Denmark

Session 0-4 Oral Abstracts

10:00 AM - 12:00 PM Room 312
Host Factors and HIV/SIV Replication

Moderators

Renate R. Köenig, Paul-Ehrlich-Institut, Langen, Germany Alan N. Engelman, Dana-Farber Cancer Institute, Boston, MA, United States

45 Inhibition of Cul4A Neddylation Causes a Reversible Block To SAMHD1-Mediated Restriction of HIV-1

Henning Hofmann, Thomas D. Norton, Eric C. Logue, Megan L. Schultz, Sylvie B. Polsky, Nicole Sunseri, Nathaniel R. Landau NYU School of Medicine, New York, NY, United States

46 MX2, an Interferon-Induced Inhibitor of HIV-1 Infection

Melissa Kane¹, Shalini S. Yadav^{1,2}, Julia Bitzegeio¹, Sebla B. Kutluay¹, Trinity Zang^{1,2}, Sam J. Wilson^{1,2}, Daniel Blanco-Melo¹, Masahiro Yamashita³, Theodora Hatziioannou², Paul D. Bleniasy^{1,2}

¹The Rockefeller University, New York, NY, United States, ²Howard Hughes Medical Institute, New York, NY, United States, ³Aaron Diamond AIDS Research Center, New York, NY, United States

47 BCA2/Rabring7 Targets HIV-1 Gag for Lysosomal Degradation in a Tetherin-Independent Manner

Ruth Serra-Moreno

Harvard Medical School, Southborough, MA, United States

48 Crystal Structure of APOBEC3F Elucidates HIV-1 Vif Interaction and Dynamic Oligomerization Markus-Frederik Bohn, Shivender M. D. Shandilya, Mohan

Somasundaran, Celia A. Schiffer Biochemistry, UMass Medical School, Worcester, MA, United

49LB Crystal Structure of a TRIM Coiled-Coil: Implications for HIV-1 Capsid Recognition by TRIM5α

Jacint G. Sanchez¹, Katarzyna Okreglicka¹, Viswanathan Chandrasekaran², Jordan M. Welker¹, Wesley I. Sundquist², **Owen Pornillos¹**

¹Molecular Physiology and Biological Physics, University of Virginia, Charlottesville, VA, United States, ²Biochemistry, University of Utah. Salt Lake City. UT. United States

50 Global Identification of the RNA Targets of HIV-1 Gag During Particle Genesis

Sebia B. Kutluay¹, Daniel Blanco-Melo¹, Trinity Zang¹, Paul D. Bieniasz^{1,2}

¹Aaron Diamond AIDS Research Center, New York, NY, United States, ²Rockefeller University & Howard Hughes Medical Institute. New York, NY, United States

51 Gorillas Transmitted SIV To Humans: Identification of HIV-1 Group P and O Ancestors

Mirela D'arc¹, Ahidjo Ayouba², Amandine Esteban², Avelin Aghokeng²a, Sabrina Locatelli², Lucie Etienne², Beatrice Hahn⁴, Eric Delaporte², Eitel Mpoudi Ngole³, Martine Peeters²¹Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil,²UMI 233, IRD and University of Montpellier 1, Montpellier, France,²Projet PRESICA and IMPM/CREMER, Yaoundé, Cameroon,⁴University of Pennsylvania, Philadelphia, PA, United States,³Projet PRESICA and IMPM/CREME, Yaoundé, Cameroon

52LB A Gorilla Reservoir for Human T-lymphotropic Virus Type 4 (HTLV-4)

Matthew LeBreton^{1,2}, William M. Switzer³, Cyrille F. Djoko², Amethyst Gillis¹, Hongwei Jia³, Anupama Shankar³, HaoQiang Zheng³, Bradley S. Schneider¹, Nathan D. Wolfe^{1,4} "Metabiota, San Francisco, CA, United States, Global Viral Cameroon, Yaounde, Cameroon, CDC, Atlanta, GA, United States, Global Viral, San Francisco, CA, United States

Session TD1 Themed Discussion

1:30 PM - 2:30 PM Room 309
Acute HCV Infection

Discussion Leader

Georg M. Lauer, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States

676 Seminal HCV RNA Level May Mirror Dynamics of Plasma HCV RNA in HIV-Positive Men With Acute HCV

Daniel Bradshaw¹, Francois Lamoury¹, Beth Catlett², Tanya L. Applegate¹, John Mcallister², Gregory J. Dore¹, Gail Matthews¹, Mark Danta³

¹Kirby Institute, University of New South Wales, Sydney, Australia, ²St Vincent's Hospital, Sydney, Australia, ³Faculty of Medicine, University of New South Wales, Sydney, Australia

675 Higher Risk of Sexually Acquired HCV Coinfection in MSM With Wide HIV Transmission Bottleneck

Roger D. Kouyos¹, Andri Rauch², Dominique Braun¹, Sabine Yerly³, Jürg Böni⁴, Thomas Klimkaiť, Vincent Aubert®, Bruno Ledergerber¹, Hulrdrych Günthard¹, The Swiss HIV Cohort Study (SHCS)

¹University Hospital Zurich, University of Zurich, Zurich, Switzerland, ²Inselspital Bern, Bern, Switzerland, ³University of Geneva, Geneva, Switzerland, ⁴University of Zurich, Zurich, Switzerland, ⁵University of Basel, Basel, Switzerland, ⁶University of Lausanne, Lausanne, Switzerland

674 Assessing HCV Acquisition Routes in HIV-Infected MSM Using Single Genome Sequencing—A Pilot Study

Daniel S. Fierer¹, Andrew H. Talal², Kristen M. Marks³, Wouter O. van Seggelen¹, Andrea D. Branch⁴, Shirish Huprikar¹, Shuyi Wang⁵, George M. Shaw⁵, Hui Li⁵

'Infectious Diseases, Mount Sinai School of Medicine, New York, NY, United States, 'Gastroenterology, University of Buffalo School of Medicine, Buffalo, NY, United States, 'Infectious Diseases, Weill Cornell Medical College, New York, NY, United States, 'Liver Diseases, Mount Sinai School of Medicine, New York, NY, United States, 'Microbiology, University of Pennsylvania, Philadelphia, PA, United States

681 CD3+CD56+ Natural Killer-Like T Cells in HIV(+) Patients With Acute Hepatitis C

Pavlos Kokordelis¹², Benjamin Krämer¹², Christoph Boesecke¹², Esther Voigt³, Patrick Ingiliz⁴, Andreas Glässner¹², Ulrich Spengler¹², Jürgen K. Bockstroħ¹², Jacob Nattermann¹ ¹Internal Medicine I, University of Bonn, Bonn, Germany,²German Center for Infection Research (DZIF), Bonn, Germany,¹Internal Medicine I, Praxis am Ebertplatz, Cologne, Germany,⁴Medical Center for Infectious Diseases (MID), Berlin, Germany,

Session TD2 Themed Discussion

1:30 PM - 2:30 PM Ballroom A
Restriction Factors

Discussion Leader

Paul W. Spearman, Emory University, Atlanta, GA, United States

188 Degradation of SAMHD1 Specifically Decreases the Efficacy of Thymidine HIV RT Analog Inhibitors

Ester Ballana, Gerard Terradas, Eva Riveira-Muñoz, Bonaventura Clotet, Eduardo Pauls, José A. Esté IrsiCaixa AIDS Research Institute, Badalona, Spain

182 Characterizing Novel N-Terminal Domains of APOBEC3G

Meiling R. May¹, Ann M. Sheehy²

¹College of the Holy Cross, Worcester, MA, United

States, Biology, College of the Holy Cross, Worcester, MA, United States

188A Natural Resistance To HIV-1 by Select APOBEC3H Haplotypes

Eric W. Refsland¹, Judd F. Hultquist¹, Elizabeth M. Luengas¹, Rachel Prosser², Keith Henry², Michael Emerman³, Reuben

¹Biochemistry, Molecular Biology, and Biophysics, University of Minnesota, Minneapolis, MN, United States, ¹Hennepin County Medical Center, Minneapolis, MN, United States, ³Fred Hutchinson Cancer Research Center, Seattle, WA, United States

186 Nuclear Import of APOBEC3F-Labeled HIV-1 Preintegration Complexes

Ryan C. Burdick, Wei-Shau Hu, **Vinay K. Pathak** *HIV Drug Resistance Program, National Cancer Institute, Frederick, MD, United States*

Session TD3 Themed Discussion

1:30 PM - 2:30 PM Room 304
Heart Failure, Cardiac Steatosis, and HIV

Discussion Leader

Wendy S. Post, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

725 ST2 and GDF-15 Are Associated With Structural Heart Disease and Mortality in HIV

Eric Secemsky, Rebecca Scherzer, Elaine Nitta, Alan Wu, David Lange, Steven Deeks, Jeffrey Martin, James Snider, Peter Ganz, Priscilla Hsue

University of California San Francisco, San Francisco, CA, United States

723 Elevated NT-proBNP Levels Predict Mortality in HIV-Infected Women

Matthew R. Gingo¹, Kidane Ghebrehawariat¹, Jong-Hyeon Jeong¹, Yanxia Chu¹, Quanwei Yang¹, Lorrie Lucht¹, David Hanna², Jason Lazaar³, Mark Gladwin¹, Yingze Zhang⁴, Alison Morris¹

¹University of Pittsburgh, Pittsburgh, PA, United States, ²Albert Einstein College of Medicine and Montefiore Medical Center, Bronx, NY, United States, ³SUNY Downstate Medical Center, Brooklyn, NY, United States, ⁴University of Pittsburgh, Pittsburgh, PA, United States

726 Depression and HIV Are Risk Factors for Incident Heart Failure Among Veterans

Jessica R. White¹, Chung-Chou H. Chang¹², Adeel A. Butt²³, Hilary A. Tindle², Maria C. Rodriguez Barradas⁴⁵, David Rimand⁵¹, David Leaf®³, Matthew Budoff¹0.¹¹, Amy C. Justice¹².¹³, Matthew S. Freiberg².³

¹University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States, 2University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, 3 Veteran Affairs Pittsburgh Healthcare System, Pittsburgh, PA, United States, Baylor College of Medicine, Houston, TX, United States, 5 Michael E. DeBakey Veteran Affairs Medical Center, Houston, TX, United States, Emory University School of Medicine, Atlanta, GA, United States, Atlanta Veteran Affairs Medical Center, Atlanta, GA, United States, 8 David Geffen School of Medicine, Los Angeles, CA, United States, 9Veteran Affairs Greater Los Angeles Health Care System, Los Angeles, CA, United States, 10 Harbor-UCLA Medical Center, Los Angeles, CA, United States, 11 Los Angeles Biomedical Research Institute, Los Angeles, CA, United States, 12 Veteran Affairs Connecticut Health Care System, West Haven, CT, United States, 13 Yale University School of Medicine, New Haven, CT, United States

724 Cardiac Steatosis Increased in HIV: Related To Gender, Visceral Fat and ARV Exposure

Julia B. Purdy¹, Chia-Ying Liu², Sabrina Mangat³, Horacio Duarte⁴, Diana Thiara⁵, Nancyanne Schmidt⁴, Jamie Hur², Christopher T. Sibley², David A. Bluemke², Colleen Hadigan³¹Critical Care Medicine, National Institutes of Health, Bethesda, MD, United States,²Diagnostic Radiology Department, National Institutes of Health, Bethesda, MD, United States,³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States,⁵Vanional Institutes of Health, Bethesda, MD, United States,⁵Vanderbitt University School of Medicine, Seattle, WA, United States,⁵Vanderbitt University School of Medicine, Nashville, TN, United States,⁵Stony Brook University School of Medicine, Stony Brook, NY, United States; 'Drevel University College of Medicine, Philadelphia, PA, United States

Session TD4 Themed Discussion

1:30 PM - 2:30 PM Room 312

Response To Early ART Initiation in Infants

Discussion Leader

United Kingdom

Mark F. Cotton, Stellenbosch University, Cape Town, South Africa

922 Routine Antibody Tests Have No Place in Determining HIV Status After Early ART: Evidence From CHER

Helen Payne^{1,2}, Nonhlanhla Mkhize³, Lynn Morris³, Kennedy Otwombe⁴, Ravindre Panchia⁴, Avy Violari⁴, Nigel Klein¹, Abdel G. Babiker⁵, Mark F. Cotton⁵, Diana M. Gibb⁵ Infectious Diseases and Microbiology, Institute of Child Health, London, United Kingdom, Children's Infectious Diseases Clinical Research Unit, Faculty of Medicine and Health Sciences, University of Stellenbosch, Cape Town, South Africa, Centre for HIV and STIs, National Institute for Communicable Diseases, Johannesburg, South Africa, Perinatal HIV Research Unit, University of the Witwatersrand, Johannesburg, South Africa, Clinical Trials Unit. Medical Research Council, London,

923 Different Profiles of HIV in Early Treated HIV-Infected Children Seronegative by ELISA in Cameroon

Mathurin C. Tejiokem¹, Anfumbom Kfutwah², Francis Ateba Ndongo³, Suzie Tetang Ndiang⁴, Ida Calixte Penda⁵⁵, William Mbanzouen², Félicité Owona¹, Josiane Warszawski⁻³, Christine Rouzioux⁴.¹0, Albert Faye¹¹.¹²

¹Service d'Épidémiologie et de Santé Publique, Centre Pasteur du Cameroun, Membre du Réseau International des Instituts Pasteur, Yaoundé, Cameroon, 2 Service de Virologie, Centre Pasteur du Cameroun, Membre du Réseau International des Instituts Pasteur, Yaoundé, Cameroon, 3Unité de Jour, Centre Mère et Enfant, Fondation Chantal Biya, Yaoundé, Cameroon, 4 Service de Pédiatrie, Centre Hospitalier d'Essos, Yaoundé, Cameroon,⁵Hôpital de Jour, Hôpital Laquintinie de Douala, Douala, Cameroon, 6Université de Douala, Faculté de Médecine et des Sciences Pharmaceutiques, Douala, Cameroon, EPF, Equipe 4 (VIH et IST), INSERM U1018 (CESP), Le Kremlin Bicêtre, France, Université de Paris Sud 11, Paris, France, ⁹Laboratoire de Virologie, Assistance Publique des Hôpitaux de Paris, Hôpital Necker, Paris, France, 10 Université Paris Descartes, EA 3620, Paris, France, 11 Pédiatrie Générale, Assistance Publique des Hôpitaux de Paris, Hôpital Robert Debré, Paris, France, 12 Université Paris 7 Denis Diderot, Paris Sorbonne Cité, Paris, France

924 Greater Virologic Control in Infants Initiated On ART Before 6 Months of Age

Stephanie Shiau¹, Ashraf Coovadia², Karl-Gunter Technau², Renate Strehlau², Leigh Martens², Francoise Pinillos², Elaine J. Abrams¹, Louise Kuhn¹

¹Columbia University, New York, NY, United States, ²University of the Witwatersrand, Johannesburg, South Africa

925 Early Viral Suppression Improves Neurocognitive Outcomes in HIV-Infected Children

Claudia S. Crowell¹, Yanling Huo², Katherine Tassiopoulos², Kathleen M. Malee², Ram Yogev², Rohan Hazra⁴, Richard M. Rutstein³, Sharon L. Nichols⁵, Renee A. Smith², William J. Muller³, for the IMPAACT 219C Study Team and the PediatricHIV/AIDS Cohort Study 'Pediatrics, University of Washington, Seattle, WA, United States, 'Epidemiology, Harvard School of Public Health, Boston, MA, United States, 'Northwestern University Feinberg School of Medicine, Chicago, IL, United States, 'National Institute of Child Health and Human Development, Bethesda, MD, United States, 'Children's Hospital of Philadelphia, Philadelphia, PA, United States, 'University of California San Diego, La Jolla, CA, United States, 'University of Illinois at Chicago, Chicago, IL, Inited States

926 Early Cytomegalovirus Viraemia and Clinical Outcomes of HIV-Infected Children in the Early ART Fra

Nei-yuan Hsiao¹, Kennedy Otwombe², Landon Myer³, Avy Violari², Diana Gibb⁴, Ravindre Panchiar², Abdel Babiker⁴, Patrick Jean-Phillipe⁵, Mark Fredric Cotton® ¹Clinical Laboratory Sciences, University of Cape Town, Cape Town, South Africa, ³Perinatal HIV Research Unit, Johannesburg, South Africa, ³Public Health and Family Medicine, University of Cape Town, Cape Town, South Africa, *Medical Research Council UK, London, United Kingdom, *National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, *Paediatrics and Child Health, Stellenbosch University, Cape Town, South Africa

Session TD5 Themed Discussion

1:30 PM - 2:30 PM Room 311

Treatment Cascade and Loss To Follow-Up

Discussion Leader

David R. Bangsberg, Massachusetts General Hospital Center for Global Health. Boston. MA. United States

1060 Comparative Effectiveness of HIV Care and Treatment Programs in East Africa

Elvin Geng¹, Thomas Odeny², Rita Lyamuya³, Alice Nakiwogga-Muwanga⁴, Mwebesa Bwana⁵, Paula Braitstein⁵, Andrew Kambugu⁴, Elizabeth Bukusi⁻, Geoffrey Somi³, Lameck Diero³, Jeffrey Martini¹o

Medicine, University of California San Francisco, San Francisco, CA, United States, *KEMRI, Nairobi, Kenya, *Medicine, NACP, Dar es Salaam, Tanzania, United Republic of,*IDI, Kampala, Uganda, *Medicine, MUST, Mbarara, Uganda, *AMPATH, Eldort, Kenya, *Medicine, KEMRI, Nairobi, Kenya, *NACP, Dar es Salaam, Tanzania, United Republic of, *AMPATH, Eldoret, Kenya, **University of California San Francisco, San Francisco, CA, United States

1063 HIV Care Cascade Among Hard To Reach Populations in India: Need To Expand HIV Counseling and Testing

Shruti H. Menta¹, Gregory M. Lucas², Suniti Solomon³, Aylur K. Srikrishnan³, Allison McFall¹, P. Nandagopal³, Pachamuthu Balakrishnan³, Muniratnam S. Kumar³, David D. Celentano¹, Sunil S. Solomon².3

¹Epidemiology, The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²The Johns Hopkins University School of Medicine, Baltimore, MD, United States, ³YR Galtonde Centre for AIDS Research and Education, Chennai, India

1061 Loss To Follow-up: Determining Outcomes for Adults Enrolled in HIV Services in Kenya

William Reidy¹, Mansi Agarwal¹, Matthew Lamb¹, Mark Hawken¹, Duncan Chege¹, Batya Elul¹, Elaine J. Abrams¹, Elvin Geng²

¹Mailman School of Public Health, ICAP-Columbia University, New York, NY, United States, ²School of Medicine, University of California at San Francisco, San Francisco, CA, United States

1064 Unplanned Interruptions in HIV Care in Nigeria: Rates and Implications

Aima A. Ahonkhai¹, Bolanle Banigbe², Juliet Adeola², Ifeyinwa Onwuatuelo², Ingrid V. Bassett³, Elena Losina⁴, Kenneth A. Freedberg¹, Propser Okonkwo², Susan Regan¹¹Massachusetts General Hospital, Boston, MA, United States,²AlDS Prevention Initiative Nigeria, Abuja, Nigeria,³Infectious Disease, Massachusetts General Hospital, Boston, MA, United States,¹Brigham and Women's Hospital, Boston. MA, United States

1065 Using the Side Door: Non-Linear Patterns Within the HIV Treatment Cascade in Zambia

Charles B. Holmes^{1,2}, Angela Bengtson^{1,2}, Izukanji Sikazwe^{1,2}, Carolyn Bolton-Moore^{1,2}, Lloyd B. Mulenga¹, Patrick Musonda^{1,3}, Benjamin H. Chi^{1,2}

'Centre for Infectious Disease Research in Zambia, Lusaka, Zambia, *University of North Carolina School of Medicine, Chapel Hill, NC, United States, *University of East Anglia, East Anglia, United Kingdom

POSTER SESSIONS

2:30 PM - 4:00 PM

(Use the Poster Abstract section of the Program at a Glance, page 37 to 106, for specific posters in each session)

Session P-A1 SAMHD1

Session P-A2 Integration/Nuclear Import

Session P-B1 Transmission Networks

Session P-C1 The Gut and Lymph Nodes in HIV Pathogenesis

Session P-C2 Immune Activation and Pathogenesis

Session P-C3 NK Cells in HIV Pathogenesis Session P-C4 CD8 T-Cell Pathogenesis

Session P-C5 Exhaustion Markers

Session P-D1 It's All About the Gut

Session P-E1 Modulating Immune Activation

Session P-E2 Therapeutic Vaccines and Immunotherapies

Session P-F1 Mechanisms of HIV Latency

Session P-F2 Dynamics of Persistent and Rebound HIV
Session P-F3 Effect of ART Early in HIV Infection

Session P-G1 CNS Viral Escape and

Neuroinflammation on ART Session P-G2 HAND in Aging Populations

Session P-H1 Clinical Pharmacology of TB and HCV Co-infection

Session P-H2 Pharmacogenetics: Drug Disposition To Therapeutics

Session P-I1 Preclinical Studies of Novel ART

Approaches: Entry
Session P-I2 Preclinical Studies of Novel ART
Approaches: Post-Entry

Session P-K1 Viral Set Point and Elite Controllers

Session P-L1 Primary Drug Resistance

Session P-L2 Acquired HIV Drug Resistance

Session P-M1 HIV Early Detection: Application of New Assays

Session P-N1 HCV Testing and Epidemiology

Session P-N2 HCV Pre-Clinical Studies and Pharmacology

Session P-01 Lymphoma/Liver/Gammopathy

Session P-02 Cancer: Natural History and Epidemiology

Session P-P1 Heart Failure, Cardiac Steatosis, and HIV

Session P-P2 Immune Activation, Immunodeficiency, and CVD

Session P-Q1 Biomarkers and Non-AIDS Events

Session P-Q2 Frailty: Physical Function and Telomeres

Session P-Q3 Diabetes and Insulin Resistance

Session P-S1 Reproductive Hormones in Women: Impact on Risk and Barrier Dysfunction

Session P-T1 Clinical Outcomes of HIV-Exposed Uninfected Infants

Session P-T2 Neonatal Sequelae of In Utero ART Exposure

Session P-U1 ART in Children and Adolescents

Session P-U2 HIV Drug Resistance and Tropism in Children and Youth

Session P-U3 ARV Pharmacokinetics, Pharmacogenetics, and Safety in Children and Adolescents

Session P-W1 Cascade of Care and Testing

Session P-W2 Cascade of Care, Linkage, and Retention

Session P-W3 Cascade of Care, Community Viral Load, and Viral Suppression

Session P-W4 Cascade of Care

Session P-X1 HIV Testing in Low-Income Settings

Session P-X2 HIV Treatment and Care

Session S1 Symposium

4:00 PM - 6:00 PM Ballroom B/C

Toward a Cure: A Challenging Game of Hide and Seek

Target audience: This session is directed to clinicians, basic researchers, and affected persons interested in the latest developments in HIV cure research.

Level of knowledge: It is assumed that learners are familiar with basic aspects of HIV replication and latency as well as standard therapeutic options.

Objectives: At the completion of the session, learners will be able to:

- Understand the effects of early treatment on the establishment of the latent reservoir
- Understand the roles of different T-cell subsets in maintaining the latent reservoir

 Describe how different animal models can be used to investigate cure strategies prior to clinical trials

Conveners

Christine Rouzioux, Université Paris Descartes, Paris, France Hiroyu Hatano, University of California San Francisco, San Francisco, CA, United States

53 Impact of Early ART On HIV Eradication in Children

Katherine F. Luzuriaga

University of Massachusetts Medical School, Worcester, MA, United States

54 T Memory Stem Cells: The Stem Cell Reservoir for HIV?

Mathias Lichterfeld

Massachusetts General Hospital, Boston, MA, United States

55 Inflammation as an Obstacle for Remission: Lessons Learned From Non-Human Primate Models

Michaela Müller-Trutwin

Institut Pasteur, Paris, France

56 **Humanized Mouse Models for Studies On HIV** Latency, Reservoirs, and Eradication Strategies J. Victor Garcia-Martinez

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Session S2 Symposium

4:00 PM - 6:00 PM Ballroom A **HCV** and Beyond

Target audience: This session is directed to clinicians and researchers interested in viral hepatitis, including the latest information on the epidemiology of HEV, the biology of HCV, and efforts to cure HCV and HBV infections.

Level of knowledge: It is assumed that learners are familiar with basic principles of virology, epidemiology, and immunology.

Objectives: At the completion of the session, learners will be able to:

- · Recognize the nonhuman reservoirs for HEV infection
- Compare the innate immune responses to HCV and HIV infections
- Compare efforts to cure HIV and HBV infections
- Identify the major strategies for interferon alfa—sparing treatment of HCV

Conveners

Arthur Y. Kim, Harvard Medical School, Boston, MA, United States Camila S. Graham, Beth Israel Deaconess Medical Center, Boston, MA, United States

57 HEV: State of the Art

Kenneth E. Sherman

University of Cincinnati College of Medicine, Cinncinnati, OH, United States

HBV Eradication: Similarities To and Differences 58 From HIV

Shyam Kottilil

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

59 Humoral Immunity and the Innate Response To HCV

Andrea L. Cox

The Johns Hopkins University School of Medicine, Baltimore, MD, United States

Interferon Alfa-Free Treatment of HCV 60 Jean-Michel Pawlotsky

Henri Mondor Hospital, University of Paris-Est, Créteil, France

Session S3 Symposium

4:00 PM - 6:00 PM Room 304

PrEP: Use It or Lose It

Target audience: This session is directed to clinicians and scientists who are interested in understanding the differences in pre-exposure prophylaxis (PrEP) trial results and how PrEP can best be implemented for populations at high risk of HIV acquisition.

Level of knowledge: It is assumed that learners are familiar with the current status of PrEP for HIV prevention, the results from major clinical trials, and the challenges associated with the success of PrEP.

Objectives: At the completion of the session, learners will be able to:

- Discuss potential reasons for differences in trial results
- · Identify benefits and challenges in PrEP implementation in different settings
- Identify which populations may gain the greatest benefit from PrEP

Conveners

Lisa K. Fitzpatrick, United Medical Center, Washington, DC, United States

Suwat Chariyalertsak, Chiang Mai University, Chiang Mai, Thailand

61 HIV Pre-Exposure Prophylaxis: Clinical Pharmacology Insights

Craig W. Hendrix

The Johns Hopkins University School of Medicine, Baltimore, MD, United States

62 Notes From the Field: Implementing PrEP in **Resource Constrained Settings**

Nelly R. Mugo

Kenya Medical Research Institute, Nairobi, Kenya Christopher Balthazar and London Dorris

A Community Perspective On PrEP 63

Stroger Hospital of Cook County, Chicago, IL, United States

64 Choosing Populations for Maximal Impact David V. Glidden

University of California San Francisco, San Francisco, CA, United States

WEDNESDAY MARCH 5, 2014

Session PL3 Plenary

8:30 AM - 9:00 AM Auditorium

65 B-Cell Responses To HIV Infection: Challenges and Opportunities

Susan L. Moir, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Session PL4 Plenary

9:00 AM - 9:30 AM Auditorium

66 NeuroHIV in 2014: Beyond Dementia

Serena S. Spudich, Yale University, New Haven, CT, United States

Session 0-5 Oral Abstracts

10:00 AM - 12:15 PM Room 304

Critical Issues in MTCT: Maternal Health and HIV Treatment in Children

Moderators

Amita Gupta, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

A. Sarah Walker, Medical Research Council Clinical Trials Unit, London, United Kingdom

67 A 15-Year Review of Maternal Deaths in a Background of Changing HIV Management Guidelines

Coceka N. Mnyani^{1,2}, Eckhart Buchmann², Karlyn Frank², Helen Struthers¹, James McIntyre¹

¹Anova Health Institute, Johannesburg, South Africa, ²University of the Witwatersrand, Johannesburg, South Africa

68 Incidence and Cofactors of Acute HIV During Pregnancy and Postpartum

John Kinuthia¹, Alison Drake², Daniel Matemo¹, Barbra Richardson³, R. Scott McClelland⁴, Grace John-Stewart⁵ ¹Obstetrics and Gynaecology, University of Nairobi, Nairobi, Kenya¸²Global Health, University of Washington, Seattle, WA, United States¸³Biostatistics, University of Washington, Seattle, WA, United States¸¹Medicine, Global Health, Epidemiology, University of Washington, Seattle, WA, United States¸²Global Health, Epidemiology, Medicine, Pediatrics, University of Washington, Seattle, WA, United States

69 Efficacy and Safety of LPV/r Versus EFV in HIV+ Pregnant and Breast-Feeding Ugandan Women Deborah Cohan¹. Paul Natureeba². Albert Plenty³. Flavia

Deboran Conan', Paul Natureeba², Albert Plenty³, Flavia Luwedde Julia Mwesigwa², Veronica Ades⁴, Edwin Charlebois³, Tamara Clark Bridget Nzarubara², Moses Kamya⁵, Pius Okong⁶, Diane Havilir³

¹OBGYN, University of California San Francisco, San Francisco, CA, United States, ¹infectious Diseases Research Collaboration, Kampala, Uganda, ¹Medicine, University of California San Francisco, San Francisco, CA, United States, ¹OBGYN, New York University, New York, NY, United States, ¹Medicine, Makerere University, Kampala, Uganda, °OBGYN, Makerere University, Kampala, Uganda

70 Infant Lopinavir/r Versus 3TC To Prevent Postnatal HIV-1 Transmission: The ANRS 12174 Trial

Chipepo Kankasa¹, Nicolas Nagot²³, Nicolas Meda⁴⁵, James K. Tumwine⁵, Amwe Aku², Debra Jackson², Roselyne Vallo²³, Thorkild Tylleskar³, Philippe Van de Perre²³, ANRS 12174 Trial Groun

"Department of Paediatrics and Child Health, University Teaching Hospital, Lusaka, Zambia, INSERM U1058, Montpellier, France, Centre de Recherche Internationale pour la Santé (CRIS), Université de Ouagadougou, Ouagadougou, Burkina Faso, Centre Muraz, Bobo-Dioulasso, Burkina Faso, Department of Paediatrics and Child Health, Makerere University, Kampala, Uganda, School of Public Health, University of Western Cape, Cape Town, South Africa, Université de Montpellier I, Montpellier, France, Centre for International Health, University of Bergen, Bergen, Norway

71 Lower Newborn Bone Mineral Content Associated With Maternal Use of Tenofovir Disoproxil Fumarate

George K. Siberry¹, Denise L. Jacobson², Heidi Kalkwarf³. Julia W. Wu⁴, Linda A. DiMeglio⁵, Ram Yogev^{6,7}, Katherine M. Knapp⁸, Justin Wheeler⁹, Rohan Hazra¹, Kenneth C. Rich¹⁰ ¹NICHD, Maternal and Pediatric Infectious Disease Branch, NIH, Bethesda, MD, United States,2 Center for Biostatistics in AIDS Research, Harvard School of Public Health, Boston, MA, United States, 3 Division of General and Community Pediatrics, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, Department of Epidemiology, Harvard School of Public Health, Boston, MA, United States, 5 Pediatric Endocrinology/Diabetology, Riley Hospital for Children at Indiana University Health, Indianapolis, IN, United States, 6Ann & Robert Lurie Children's Hospital of Chicago, Chicago, IL, United States, Department of Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, IL, United States, 8 Department of Infectious Diseases, St. Jude Children's Research Hospital, Memphis, TN, United States, Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA, United States, 10 Department of Pediatrics, University of Illinois at Chicago, Chicago, IL, United States

72 Virologic Control by 1 Year of Age Significantly Reduces HIV-1 Reservoirs in Perinatal Infection

Deborah Persaud¹, Kunjal Patel², Brad Karalius², Carrie Ziemniak¹, Kaitlin Rainwater-Lovett¹, Ya Chen¹, Douglas D. Richman³, George K. Siberry⁴, Russell VanDyke⁵, Katherine Luzuriaga⁵, Pediatric HIV/AIDS Cohort Study (PHACS) and IMPAACT Network

Pediatrics, The Johns Hopkins University School of Medicine, Baltimore, MD, United States, "Epidemiology, Harvard School of Public Health, Boston, MA, United States," Pathology and Medicine, University of California San Diego, San Diego, CA, United States, "Eunice Kennedy Shriver National Institutes of Child Health and Human Development, Bethesda, MD, United States," Pediatrics, Tulane University Health Sciences Center, New Orleans, LA, United States, "Pediatrics, University of Massachusetts Medical School, Boston, MA, United States

73 Virologic Efficacy of Efavirenz Maintenance Therapy in Nevirapine Prophylaxis-Exposed Children

Ashraf Coovadia¹, Elaine Abrams², Renate Strehlau¹, Stephanie Shiau², Francoise Pinillos¹, Leigh Martens¹, Gillian Hunt³, Wei-Yann Tsal², Lynn Morris³, Louise Kuhn², NEVEREST 3 Study Team ¹University of the Witwatersrand, Johannesburg, South Africa, ²Columbia University, New York, NY, United States, ³National Institute of Communicable Diseases, Johannesburg, South Africa

74LB Final Results of Koncert: A Randomized Noninferiority Trial of QD Vs BD LPV/r Dosing in Children

Hermione Lyall, KONCERT Trial Team Imperial College London, London, United Kingdom

75LB Very Early Combination Antiretroviral Therapy in Perinatal HIV Infection: Two Case Studies

Deborah Persaud¹, Audra Deveikis², Hannah Gay³, Jagmohan Batra², Tempe Chen², David E. Michalik², Kaitlin Rainwater-Lovett¹, Carrie Ziemniak¹, Katherine Luzuriaga⁴, Yvonne Bryson⁵ Pediatrics, The Johns Hopkins University School of Medicine, Baltimore, MD, United States, ¹Pediatrics, Miller Children¹s Hospital, Long Beach, CA, United States, ³Pediatrics, University of Mississippi Medical Center, Jackson, MS, United States, ⁴Pediatrics, University of Massachusetts Medical School, Worcester, MA, United States, ³Pediatrics, UCLA School of Medicine, Los Angeles, CA, United States

Session 0-6 Oral Abstracts 10:00 AM - 12:00 PM Room 312 HIV/SIV Pathogenesis

Moderators

Marcus Altfeld, Ragon Institute of Massachusetts General Hospital, Massachusetts Institute of Technology, and Harvard, Cambridge, MA, United States

R. Keith Reeves, Harvard Medical School, Boston, MA, United States

76 Pyroptosis Drives Both CD4 T Cell Death and Chronic Inflammation in HIV-Infected Lymphoid Tissues

Gilad Doitsh¹, Nicole Galloway¹, Xin Geng¹, Kathryn Monroe¹, Zhiyuan Yang¹, Orlando Zepeda², Peter Hunt², Hiroyu Hatano², Stefanie Sowinski¹, Warner C. Greene¹

¹Gladstone Institute of Virology and Immunology, San Francisco, CA, United States, ²University of California, San Francisco, San Francisco, CA, United States

77 Early ART Initiation Prevents Disruption of the Mucosal Barrier and Subsequent T-Cell Activation

Alexandra Schuetz¹, Yuwadee Phuang-Ngern¹, Rungsun Rerknimitr², Eugene Kroon¹³, Nitiya Chomchey³, Praphan Phanuphak³, Merlin Robb⁴, Jerome Kim⁴, Mark de Souza³, Jintanat Ananworanich²³, on behalf of the RV254/SEARCH 010 and RV304 StudyGroups

Retrovirology, USAMĆ-AFRIMS, Bangkok, Thailand, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, SEARCH, Bangkok, Thailand, SEARCH, Bangkok, Thailand, US Military HIV Research Program, Silver Spring, MD, United States

78 Characterizing the IFNα Resistance of Transmitted Founder HIV-1

Shilpa S. Iyer¹, Angharad E. Fenton-May², Andrew G. Smith¹, Weiyu Zhang¹, John C. Kappes³, Feng Gao⁴, Frederic Bibollet-Ruche¹, Hui Li¹, George M. Shaw¹, Persephone Borrow⁵, Reatrice Hahn¹

¹Departments of Medicine and Microbiology, University of Pennsylvania, Philadelphia, PA, United States, ²Nuffield Department of Clinical Medicine, Oxford, United Kingdom, ³Departments of Medicine, University of Alabama at Birmingham, Birmingham, AL, United States, ⁴Duke Human Vaccine Institute and Department of Medicine, Duke University Medical Centre, Durham, NC, United States, ⁵Nuffield Department of Clinical Medicine, University of Oxford, Oxford, United Kingdom

79LB Identification of IFI16 as HIV Restriction Factor

Amalio Telenti¹, Ali Gawanbacht², Dominik Hotter³, Christian Krapp³, Nitisha Pyndiah¹, Greg Jordan⁴, Søren R. Paludan⁵, Martin R. Jakobsen⁵, Frank Kirchhoff²

'University of Lausanne, Lausanne, Switzerland, Institute of Molecular Virology, Ulm University Medical Center, Ulm, Germany, Institute of Molecular Virology, Ulm University Medical Center, Ulm, Germany, European Bioinformatics Institute, Cambridge, United Kingdom, Department of Biomedicine and Aarhus Research Center for Innate Immunology, Aarhus, Denmark

80 Central Memory and Effector Memory CD4 T Cells From HIV Controllers Harbor Distinct HIV Strains

Eli Boritz¹, Luke Swaszek¹, Rebecca Hoh², Jeffrey Martin³, Steven Deeks², Daniel Douek¹

'Human Immunology Section, Vaccine Research Center, Bethesda, MD, United States, 'Department of Medicine, University of California San Francisco, San Francisco, CA, United States, 'Department of Epidemiology and Biostatistics, University of California San Francisco, San Francisco, CA, United States

81 Accelerated Viral Load Increase and CD4 Decline in HIV-1 Superinfected Women

Keshet Ronen¹, Barbra Richardson¹, Susan Graham², Kishor Mandaliya³, Walter Jaoko⁴, Scott McClelland², Julie Overbaugh¹

'Fred Hutchinson Cancer Research Center, Seattle, WA, United States, 'University of Washington, Seattle, WA, United States, 'Coast Provincial General Hospital, Mombasa, Kenya, 'University of Nairobi, Nairobi, Kenya

82 Selection for Active SAMHD1 Antagonism in Natural Infections of SIVagm

Chelsea Spragg1², Michael Emerman²
'Molecular and Cellular Biology, University of Washington, Seattle, WA, United States, Human Biology, Fred Hutchinson Cancer Research Center. Seattle, WA. United States

83 Probiotic and IL-21 Treatment Promotes Th17 Cell Recovery in ARV-Treatment of Pigtail Macagues

Alexandra M. Ortiz¹, Zachary A. Klase¹, Kirby M. Carmack¹, Carol L. Vinton¹, Molly R. Perkins¹, Francois Villinger², Mirko Palardini², Jason M. Brenchley¹ LIMM, NIH, Bethesda, MD, United States, EYerkes National Primate Research Center. Atlanta. GA. United States

Session 0-7 Oral Abstracts

10:00 AM – 12:15 PM Ballroom B/C
Randomized Controlled Trials and Antiretroviral
Resistance

Moderators

Urvi M. Parikh, University of Pittsburgh, Pittsburgh, PA, United States Edmund C. Tramont, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

84LB First-Line RAL + DRV/r Is Non-Inferior To TDF/FTC + DRV/r: The NEAT001/ANRS143 Randomised Trial

François Raffi¹, Abdel G. Babiker², Laura Richert³, Jean-Michel Molina⁴, Elizabeth C. George², Andrea Antinori³, Jose Arribas®, Stefano Vella⁻, Geneviève Chêne³, Anton L. Pozniak®, NEATO01/ANRS143 Study Group

'University Hospital, Nantes, France, MRC Clinical Trials Unit at UCL, London, United Kingdom, INSERM U897, Bordeaux, France, St Louis Hospital, Paris, France, INMI L Spallanzani, Rome, Italy, Hospital La Paz, Madrid, Spain, Istituto Superiore di Sanità, Rome, Italy, Chelsea and Westminster Hospital, London, United Kingdom

85 Efficacy and Tolerability of Atazanavir, Raltegravir, or Darunavir With FTC/Tenofovir: ACTG 5257

Raphael J. Landovitz¹, Heather J. Ribaudo², Ighovwerha Oftotkun³, Hongying Wang², Bryan P. Baugh⁴, Randi Y. Leavitt⁶, James F. Rooney⁶, Daniel Seekins⁷, Judith S. Currier¹, Jeffrey L. Lennox³

'Center for Clinical AIDS Research & Education, University of California Los Angeles, Los Angeles, CA, Unitled States, "Harvard Center for Biostatistics in AIDS Research, Boston, MA, United States, "Division of Infectious Diseases, Emory University, Atlanta, GA, United States, "Janssen Therapeutics, Titusville, NJ, United States, "Merck & Co, Whitehouse Station, NJ, United States," Gilead Sciences, Foster City, CA, United States," Bristol-Myers Squibb, Wallingford, CT, United States

86 Attachment Inhibitor Prodrug BMS-663068 in ARV-Experienced Subjects: Week 24 Analysis

Jacob Lalezari¹, Gulam H. Latiff², Cynthia Brinson², Juan Echevarria⁴, Sandra Treviño-Pérez², Johannes R. Bogner⁴, David Stock², Samit R. Joshi², George J. Hanna³, Max Lataillade², for the Al438011 study team ¹Quest Clinical Research, San Francisco, CA, United States,⁴Maxwell Clinic, Durban, South Africa,³Central Texas Clinical Research, Austin, TX, United States,⁴Hospital Nacional Cayetano Heredia, Lima, Peru,³Mexico Centre for Clinical Research, Mexico City, Mexico,⁶Hospital of the University of Munich, Munich, Germany,Ɓristol-Myers Squibb, Wallingford, CT, United States,⁴Bristol-Myers Squibb, Princeton, NJ, United States

87 Sensitive Screening Reveals Widespread Underestimation of Transmitted HIV Drug Resistance

Jin-fen Li, David Kim, Laurie Linley, Richard Kline, Walid Heneine, **Jeffrey A. Johnson**

Division of HIV/AIDS Prevention, CDC, Atlanta, GA, United States

88 Transmitted HIV-1 Drug Resistance Between Partner-Pairs

Joanne Stekler¹, Rachel Payant², Ingrid Beck², Brandon Maust¹, Sarah Holte^{1,3}, Janine Maenza¹, Claire E. Stevens¹, James I. Mullins¹, Ann C. Collier¹, **Lisa M. Frenkel**^{1,2}

'University of Washington, Seattle, WA, United States, Seattle Children's Hospital, Seattle, WA, United States, Fred Hutchinson Cancer Research Center, Seattle, WA, United States

89 Silent Mutations in HIV-1 Subtype B Reverse Transcriptase Selected by ART Restore Viral Fitness

Sushama Telwatte^{1,2}, Anna C. Hearps^{1,3}, Adam Johnson¹, Con Sonza⁴, Nicolas P. Sluis-Cremer⁵, Richard P. Harrigan⁶, Gilda Tachediian^{1,2}

¹Centre for Biomedical Research, Burnet Institute, Melbourne, Australia, ²Department of Microbiology, Monash University, Melbourne, Australia, ³Department of Infectious Diseases, Monash University, Melbourne, Australia, ⁴Department of Microbiology and Immunology, University of Melbourne, Melbourne, Australia, ⁵Division of Infectious Diseases, University of Pittsburgh, PA, United States, ⁹Drug Treatment Program, BC Centre for Excellence in HIV/AIDS, British Columbia, BC, Canada

90 Reduced In Vivo Replicative Capacity of Drug-Resistant SHIV During Acute Infection Mian-er Cong, Chou-Pong Pau, Walid Heneine, J. Gerardo

Garcia-Lerma
Division of HIV/AIDS Prevention, CDC, Atlanta, GA, United States

91LB 744 and Rilpivirine as Two-Drug Oral Maintenance Therapy: LAI116482 (LATTE) Week 48 Results

David Margolis¹, Cynthia Brinson², Joseph Eron³, Gary Richmond⁴, Roger LeBlanc⁵, Sandy Griffith¹, Marty St. Clair¹, Marita Stevens⁵, Peter Williams⁶, William Spreen¹ ¹GSK, RTP, NC, United States,²Central Texas Clinical Research, Austin, TX, United States,³University of North Carolina, Chapel Hill, NC, United States,⁴HIV Clinic, Ft. Lauderdale, FL, United States,⁵Clinique Opus Inc, Montreal, QC, Canada,⁵Janssen, Beerse, Belgium

92LB Safety and Antiviral Effect of MK-1439, A Novel NNRTI (+FTC/TDF) in ART-Naive HIV-Infected Patients

Javier O. Morales-Ramirez¹, Jose M. Gatell², Debbie P. Hagins³, Melanie Thompson⁴, Keikawus Arastéh⁵, Christian Hoffmann⁵, Charlotte Harvey³, Xia Xu², Hedy Teppler³¹Clinical Research Puerto Rico, San Juan, Puerto Rico, Sin Juan, Puerto Rico, San Juan, Puerto Rico, San Juan, Puerto Rico, San Juan, Puerto Rico, Sunita States, AlDS Research Consortium of Atlanta, Atlanta, GA, United States, *EPIMED/Vivantes Auguste-Viktoria-Klinikum, Berlin, Germany, *ICH Study Center, Hamburg, Germany, *Merck, Whitehouse Station, NJ, United States

Session 0-8 Oral Abstracts 10:00 AM - 12:00 PM Ballroom A TB and Other Coinfections

Moderators

Anne F. Luetkemeyer, University of California San Francisco, San Francisco, CA, United States

Alison D. Grant, London School of Hygiene and Tropical Medicine, London, United Kingdom

93 A Phase 2 Trial of a Rifapentine Plus Moxifloxacin-Based Regimen for Pulmonary TB Treatment

Marcus B. Conde¹, Solange C. Cavalcante^{2,3}, Margareth Dalcolmo⁴, Fernanda Mello¹, Rafael Duarte³, Carla Loredo³, Valeria Rolla⁴, Betina Durovni^{2,3}, Silvia Cohn⁸, Richard E. Chaisson⁶, **Susan E. Dorman**⁶

'Thoracic Diseases Institute, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, "Municipal Health Secretariat, Rio de Janeiro, Brazil, "Instituto de Pesquisa Clínica Evandro Chagas, Rio de Janeiro, Brazil, "Centro de Referencia Professor Helio Fraga, ENSP-Fiocruz, Rio de Janeiro, Brazil, "Federal University of Rio de Janeiro, Rio Razil, "The Johns Hopkins University School of Medicine, Baltimore, MD. United States

94 Tuberculosis Infection in Early Childhood in Uganda and the Influence of HIV Exposure Carina Marquez¹, Gabriel Chamie¹, Jane Achan², Anne F. Luetkemeyer¹, Mary Kyohere³, Grant Dorsey¹, Moses R. Kamya², Edwin D. Charlebois¹, Diane V. Havlir¹ ¹University of California, San Francisco, San Francisco, CA, United States,²Makerere University College of Health Sciences, Kampala, Uganda,³Infectious Diseases Research Collaboration,

95 Effect of Xpert MTB/RIF On Early Mortality in Adults With Suspected TB: A Pragmatic Randomized Trial

Kampala, Uganda

Gavin Churchyard¹, Kerrigan McCarthy¹, Katherine L. Fielding², Wendy Stevens³, Violet Chihota¹, Mark Nicol⁴, Norbert Ndjeka⁵, Alison D. Grant², David Mametja⁵ ¹Aurum Institute, Houghton, South Africa,²London School of Hygiene and Tropical Medicine, London, United Kingdom,³National Health Laboratory Service, Sandringham, South Africa,⁴University of Cape Town, Cape Town, South Africa, ¹South African Department of Health, Pretoria, South African

96LB Xpert as the First-Line TB Test in South Africa: Yield, Initial Loss To Follow-Up, Proportion Treated

Katherine L. Fielding¹, Kerrigan M. McCarthy², Helen Cox³, Linda Erasmus⁴, Sibuse Ginindza², Anna Vassall¹, Lindiwe Mvusi⁵, Chris Dye⁵, Alison D. Grant¹, Gavin J. Churchyard²¹London School of Hygiene & Tropical Medicine, London, United Kingdom,²Aurum Institute, Johannesburg, South Africa,³University of Cape Town, Cape Town, South Africa,\$Vational Health Laboratory Service, Johannesburg, South Africa,\$South Africa health Laboratory Gervice, Johannesburg, South Africa,\$World Health Organization, Geneva, Switzerland

97LB 14 Day EBA Study of PA-824, Bedaquiline, Pyrazinamide and Clofazimine in Smear-Positive TB Patients

Andreas Diacon¹, Rodney Dawson², Christo Van Niekerk³, Jane Hutchings³, Stephen Murray⁴, Robert Schall⁵, Divan Burger⁵, Dan Everitt⁴, Carl Mendel⁴

Department of Medical Biochemistry, Stellenbosch University, Cape Town, South Africa, Medicine, University of Cape Town Lung Institute, Cape Town, South Africa, Aclinical Development, TB Alliance, Pretoria, South Africa, Clinical Development, TB Alliance, New York, NY, United States, Mathematical Statistics and Actuarial Science, University of The Free State, Bloemfontein, South Africa, Mathematical Statistics and Actuarial Science, University of the Free State, Bloemfontein, South Africa

98 CTX Prophylaxis Discontinuation Among ART-Treated Adults: A Randomized Non-Inferiority Trial

Christina S. Polyak¹, Krista Yuhas², Benson Singa³, Monica Khaemba³, Judd Walson², Barbra Richardson², Grace John-Stewart²

'Military HIV Research Program, Walter Reed Army Institute of Research, University of Washington, Bethesda, MD, United States, Global Health, University of Washington, Seattle, WA, United States, Kenya Medical Research Institute/ University of Washington, Nairobi, Kenya

Session TD6 Themed Discussion 1:30 PM - 2:30 PM Room 309 Frailty and Functional Impairment

Discussion Leader

Kevin E. Yarasheski, Washington University School of Medicine, St Louis, MO, United States

766 Geriatric Syndromes Are Common Among Older HIV-Infected Adults

Meredith Greene^{1,2}, Victor Valcour^{1,3}, Yinghui Miao^{2,4}, Ken Covinsky^{1,2}, Joy Madamba⁵, Monica Mattes⁶, Harry Lampiris^{2,7}, Jeffrey Martin⁶, Steven Deeks⁵

'Medicine-Geriatrics, University of California San Francisco, San Francisco, CA, United States, 'San Francisco VA Medical Center, San Francisco, CA, United States, 'Neurology, University of California San Francisco, San Francisco, CA, United States, 'MCIRE, San Francisco, CA, United States, 'Medicine-HIV/ AIDS, University of California San Francisco, San Francisco, CA, United States, 'University of Central Florida College of Medicine, Orlando, FL, United States, 'Medicine-Infectious Diseases, University of California San Francisco, San Francisco, CA, United States, 'Pepidemiology & Biostatistics, University of California San Francisco, San Francisco, CA, United States

767 Physical Function Impairment On Quality of Life Among Persons Aging With HIV Infection

Kristine M. Erlandson, Amanda A. Allshouse, Catherine M. Jankowski, Samantha MaWhinney, Wendy M. Kohrt, Thomas B. Campbell

University of Colorado Anschutz Medical Campus, Aurora, CO, United States

764 Cell-Mediated CMV Responses in HIV-Infected Persons With Impaired Physical Function

Kristine M. Erlandson, Amanda A. Allshouse, Rick Rapaport, Brent E. Palmer, Cara C. Wilson, Samantha MaWhinney, Thomas B. Campbell

University of Colorado Anschutz Medical Campus, Aurora, CO, United States

762 Frailty, Inflammation and Mortality Among Aging HIV-Infected and At-Risk Injection Drug Users

Damani A. Piggott, Ravi Varadhan, Shruti H. Mehta, Todd T. Brown, Sean X. Leng, Gregory D. Kirk

The Johns Hopkins University, Baltimore, MD, United States

763 Brisk Walking Improves Inflammatory Markers in cART-Treated Patients

Valeria Longo¹, Matteo Bonato², Simona Bossolasco¹, Laura Galli¹, Andrea Caumo², Gaspare Pavel³, Adriano Lazzarin¹, Giampiero Merati³, Antonio La Torre², Paola Cinque¹¹ Infectious Diseases, San Raffaele Scientific Institute, Milano, Italy, Biomedical Sciences for Health, Università degli Studi di Milano, Milano, Italy, Patthophysiology and Transplantation Department, Università degli Studi di Milano, Milano, Italy

Session TD7 Themed Discussion 1:30 PM - 2:30 PM Ballroom A Clinical Pharmacology in Patient Care

Discussion Leader

Stephen Taylor, Birmingham Heartlands Hospital, Birmingham, United Kingdom

496 Pharmacokinetics of Raltegravir 400 vs 800 mg BID With Intermittent Rifampicin Dosed Thrice Weekly

Helen E. Reynolds', Deirdre Egan', Laura Else', Mas Chaponda², Ales Chrdle², David J. Back', **Saye H. Khoo'** 'University of Liverpool, Liverpool, United Kingdom,²Royal Liverpool University Hospital, Liverpool, United Kingdom

494 Relationship Between Efavirenz Trough & CYP2B6 Genotypes With Rifampin-Based TB Therapy in STRIDE

Anne Luetkemeyer¹, Susan L. Rosenkranz², Darlene Lu³, Beatriz Grinsztejn¹, Jorge Sanchez², Michael Ssemmanda³, Ian Sanne², Helen McIlleron³, Diane Havlir¹, David Haas³, ACTG A5221 & A5243 Study Teams

'HHIVAIDS Division, San Francisco General Hospital, University of California, San Francisco, San Francisco, A. United States, 'Center for Biostatistics in AIDS Research, Harvard School of Public Health, Boston, MA, United States, 'HIV/ AIDS Division, Center for Biostatistics in AIDS Research, Harvard School of Public Health, San Francisco, CA, United States, 'Instituto de Pesquisa Clinica Evandro Chagas, Fundacao Oswaldo Cruz, Rio de Janeiro, Brazil, 'Asociación Civil Impacta Salud y Educacióo, Lima, Peru, 'Joint Clinical Research Center, Kampala, Uganda, 'Clinical HV Research Unit, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa, 'Division of Clinical Pharmacology, University of Cape Town, Cape Town, South Africa, 'Vanderbilt University School of Medicine, Nashville, TN, United States

497 Pharmacokinetics of Faldaprevir and Antiretrovirals in Patients With HIV/HCV Coinfection

Jürgen K. Rockstroh¹, Marc-Antoine Valantin², Josep Mallolas³, Massimo Puoti⁴, Juan Antonio Pineda³, Patrick Ingiliz⁵, Marina Núñez², Fenglei Huang⁵, Richard Vinisko⁵, Douglas Dieterich⁵

Department of Medicine I, University of Bonn, Bonn, Germany, Service des Maladies Infectieuses et Tropicales, Hôpital Pitié-Salpêtrière, Paris, France, *Hospital Clinic-University of Barcelona, Barcelona, Spain, 'Department of Infectious Diseases, AO Ospedale Niguarda Ca' Granda Milano, Milan, Italy, *Unit of Infectious Diseases and Microbiology, Hospital Universitario de Valme, Seville, Spain, *Medical Center for Infectious Diseases, Berlin, Germany, 'Wake Forest University Health Sciences, Winston-Salem, NC, United States, *Boehringer Ingelheim Pharmaceutical, Inc, Ridgefield, CT, United States, *Mount Sinai Medical Center, New York, NY, United States

504 Relative Genetic Contribution To the Pharmacokinetics of Commonly Prescribed Antiretrovirals

Marco S. Siccardi¹, Adeniyi Olagunju^{1,2}, Marco Simiele³, Antonio D'Avolio³, Andrea Calcagno³, Giovanni Di Perri³, Stefano Bonora³, Andrew Owen¹ 'Department of Molecular and Clinical Pharmacology, University of Liverpool, Liverpool, United Kingdom, "Faculty of Pharmacy, Obafemi Awolowo University, Ile-Ife, Nigeria," Amedeo di Savoia Hospital, University of Turin, Turin, Italy

505 Leveraging Genomics in HIV Treatment Decisions

Paul J. McLaren¹, Margalida Rotger¹, Manel Aouri¹, Huldrych Günthard², Catia Marzolini³, Laurent Decosterd¹, Amalio Telenti¹ ¹The Swiss HIV Cohort, Lausanne, Switzerland,²The Swiss HIV Cohort, Zurich, Switzerland,³The Swiss HIV Cohort, Basel, Switzerland

Session TD8 Themed Discussion

1:30 PM - 2:30 PM Room 304

How Transmission Networks Drive Epidemics Discussion Leader

Roger D. Kouyos, University Hospital Zurich, University of Zurich, Zurich, Switzerland

213 HIV Transmission in the United States: The Roles of Risk Group, Race/Ethnicity, and Geography

Alexandra M. Oster¹, Joel O. Wertheim², Angela L. Hernandez¹, Marie C. B. Ocfemia¹, Neeraja Saduvala³, David Kim¹, H. I. Hall¹

¹Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²ICF International and University of California San Diego, Can Diego, CA, United States, ²ICF International, Atlanta, GA, United States

205 Ongoing HIV-1 Subtype B Transmission Networks in the Netherlands

Daniela Bezemer¹, Oliver Ratmann², Ard van Sighem¹, Bas E. Dutilh³, Nuno Faria⁴, Rob van den Hengel¹, Luuk Gras¹, Peter Reiss¹, Frank de Wolf², Christophe Fraser², ATHENA observational cohort

¹Research, HIV Monitoring Foundation, Amsterdam, Netherlands, ²Imperial College, London, United Kingdom, ³Centre for Molecular and Biomolecular Informatics, Nijmegen, Netherlands, ⁴University, Oxford, United Kingdom

206 Using HIV Networks To Inform Real Time Prevention Interventions

Susan J. Little¹, Sergei L. K. Pond¹, Christy M. Anderson¹, Jason A. Young¹, Joel O. Wertheim¹, Sanjay R. Mehta¹, Susanne May², Davey M. Smith¹

'Medicine, University of California San Diego, San Diego, CA, United States, 'Biostatistics, University of Washington School of Public Health, Seattle, WA, United States

215 Large MSM Group and Local Heterosexual Transmission Are Major Concerns in the HIV Epidemic in Japan

Teilichiro Shiino¹, Kenji Sadamasu², Junko Hattori³, Mami Nagashima², Yasumasa Iwatani³, Yoshiyuki Yokomaku³, Wataru Sugiura³, The Japanese Drug Resistance HIV-1 Surveillance Network

Infectious Diseases Surveillance Center, National Institute of Infectious Diseases, Tokyo, Japan, Tokyo Metropolitan Institute of Public Health, Tokyo, Japan, Clinical Research Center, Nagoya Medical Center, Nagoya, Japan

207 Transmission Networks of HIV-1 Subtype B, CRF01_AE and CRF51_01B Among MSM in Singapore

Kim Tien Ng¹, Kah Ying Ng², Wei Xin Khong², Oliver Laeyendecker^{3,4}, Thomas C Quinn^{3,4}, Adeeba Kamarulzaman¹, Oon Tek Ng², Kok Keng Tee¹

'Centre of Excellence for Research in AIDS (CERiA), Department of Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia, Institute of Infectious Disease and Epidemiology, Communicable Disease Centre, Tan Tock Seng Hospital, Novena, Singapore, Division of Infectious Diseases, The Johns Hopkins School of Medicine, Baltimore, MD, United States, Laboratory of Immunoregulation, Division of Intramural Research, National Institute of Allergy and Infectious Disease, National Institutes of Health, Baltimore, MD, United States

208 HIV-1 Phylodynamics and Phylogeography Among High-Risk and General Populations in Uganda

Gonzalo Yebra¹, Manon Ragonnet-Cronin¹, Deogratius Ssemwanga², Chris M. Parry², Pontiano Kaleebu², Andrew J. Leigh Brown¹

¹Institute of Evolutionary Biology, University of Edinburgh, Edinburgh, United Kingdom, ²Research Unit on AIDS, MRC/ Uganda Virus Research Institute, Entebbe, Uganda

Session TD9 Themed Discussion 1:30 PM - 2:30 PM Room 312 Gut and Immune Activation

Discussion Leader

Peter W. Hunt, University of California San Francisco, San Francisco, CA, United States

312 Rapid Gut-Homing of Plasmacytoid Dendritic Cells During Acute SIV Infection

Haiying Li, Jacqueline Gillis, **R. Keith Reeves** NEPRC, Harvard Medical School, Southborough, MA, United States

313 CCR6+ and CD161+ CD4 T Cell Loss Contributes To the Pathogenesis of SIV Infection in Rhesus Macaques

Colleen S. McGary¹, Luca Micci¹, Emily S. Ryan¹, Maria J. Buzon², Amy Shaw², Mathias Lichterfeld², Guido Silvestri^{1,3}, Aftab A. Ansari³, Mirko Paiardini^{1,3}

¹Department of Microbiology and Immunology, Emory University, Atlanta, GA, United States, ²Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States, ³Department of Pathology and Laboratory Medicine, Emory University, Atlanta, GA, United States

315 Decreased Diversity of Gut Microbiota Is Associated With Immune Status During HIV-1 Infection

Piotr Nowak¹, Babilonia Barqasho², Ekatarina Avershina³, Kajsa Noyan², Jan Vesterbacka¹, Marius Trosseid⁴, Knut Rudi³, Anders Sönnerborg¹

'Department of Infectious Diseases, Karolinska Institute, Huddinge, Sweden, Department of Laboratory Medicine, Karolinska Institute, Huddinge, Sweden, Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, Aas, Norway, Infectious Diseases, Oslo University Hospital, Oslo, Norway

317 Dysbiotic Bacteria Translocate in Progressive SIV Infection

Zachary Klase¹, Elias Schwartzman¹, Alexandra Ortiz¹, Lauren Canary¹, Mariam Quinones², Jason Brenchley¹

*Laboratory of Molecular Microbiology, NIAID/NIH, Bethesda, MD, United States.**

*NIAID**

*NIAID

311 Breaches in Colonic Claudin-4 Expression Correlate With T-Cell Activation in HIV-1 Infection

Louise Greathead¹, Anna Mroz¹, Hiromi Kudo¹, Brian Gazzard², Mark Nelson², Robert D. Goldin¹, Alan Steel², Peter Kelleher¹ 'Imperial College, London, United Kingdom,²Chelsea and Westminster Hospital NHS Trust, London, United Kingdom

310 Increased Immune Activation After Gut Permeabilization in SIV-Infected African Green Monkevs

Jan Kristoff¹, Thaidra Gaufin², Rajeev Gautam³, Dongzhu Ma¹, Jacob Estes⁴, Russell Tracy⁵, Cristian Apetrei¹, Steve Nelson⁶, Gregory Bagby⁶, Ivona Pandrea¹

¹Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA, United States, ²UCLA, Los Angeles, CA, United States, ²Center for Vaccine Research, NIAID/NIH, Bethesda, MD, United States, ⁴NCI/NIH, Frederick, MD, United States, ⁵University of Vermont, Colchester, VT, United States, ⁶Louisiana State University, New Orleans, LA, United States

Session TD10 Themed Discussion

1:30 PM - 2:30 PM Room 311

Reproductive Hormones in Women: Impact On Risk and Barrier Dysfunction

Discussion Leader

Susan Cu-Uvin, Brown University, Providence, RI, United States

844 Depot-Medroxyprogesterone Acetate Does Not Increase Genital SHIV Shedding in Macaques Jessica Radzio¹, Krisztina Hanley², Debra Hanson¹, James Mitchell¹, Leecresia Jenkins¹, Shanon Ellis¹, Frank Deyounks¹, Walid Heneine¹, J. Gerardo Garcia-Lerma¹¹Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States.²Pathology, Emory University, Atlanta, GA, United States

846 Hormonal Contraceptives Increase Innate Immune Effector Molecules in Cervicovaginal Secretions

Brandon L. Guthrie¹, Robert Y. Choi², Alison C. Roxby², Rose Bosire³, Barbara Lohman-Payne^{1,2}, Taha Hirbod⁴, Carey Farouhar^{1,2}, Kristina Broliden⁴

¹Department of Global Health, University of Washington, Seattle, WA, United States, ²Department of Medicine, University of Washington, Seattle, WA, United States, ²Center for Public Health Research, Kenya Medical Research Institute, Nairobi, Kenya, ⁴Department of Medicine Solna, Karolinska Institutet, Stockholm, Sweden

847 Injectable Contraception and HIV Acquisition in the VOICE Study (MTN-003)

Lisa M. Noguchi^{1,2}, Barbra Richardson³, Z. Mike Chirenje⁴, Gita Ramjee⁵, Gonasagrie Nair⁶, Thesla Palanee⁷, Pearl Selepe⁸, Ravindre Panchia⁸, Kailazarid Gomez¹⁰, Jeanne Marrazzo¹¹, on behalf of the VOICE Study Team ¹Epidemiology, The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Microbicide Trials Network, Pittsburgh, PA, United States, ³SCHARP, Seattle, WA, United States, ⁴UZ-UCSF, Harare, Zimbabwe, ³MRC, Durban, South Africa, ⁶CAPRISA, Durban, South Africa, ⁷WITS Reproductive Health and HIV Institute, Johannesburg, South Africa, ³Aurum Institute, Klerksdorp, South Africa, ³PHRU, Soweto, South Africa, ¹⁰FHI 360, Durham, NC, United States, ¹¹University of Washington, Seattle, WA, United States

845 Dysregulation of Estradiol Signaling Contributes To Mucosal Barrier Dysfunction HIV+ Women

Sumathi Sankaran-Walters¹, Anne Fenton¹, Chris Gaulke¹, Lauren Nagy¹, Irina Grishina¹, Jason Flamm², Thomas Prindiville³, Satya Dandekar¹

*Medical Microbiology and Immunology, University of CA, Davis, Davis, CA, United States, *Internal Medicine, Kaiser Permanente, Sacramento, CA, United States, *Internal Medicine, University of CA, Davis, CA, United States

Session TD16 Themed Discussion 1:30 PM = 2:30 PM Ballroom B/C Real-World Experiences With Hepatitis C

Discussion Leader

Marion G. Peters, University of California San Francisco, San Francisco, CA. United States

668 Telaprevir in Treatment-Experienced HIV-HCV G1 Coinfected Patients (ANRS HC26 TelapreVIH)

Laurent Cotte^{1,2}, Corinne Vincent³, Philippe Sogni^{4,5}, Isabelle Fournier³, Hugues Aumaître⁶, Pierre De Truchis⁷, Isabelle Rosa⁸, Stéphane Chevaliez⁹, Jean-Pierre Aboulker¹⁰, Jean-Michel Molina^{4,11}

Infectious Diseases, Hospices Civils de Lyon, Lyon, France, *U1052, INSERM, Lyon, France, *SC10-US019. INSERM, Villejuif, France, *Assistance Publique - Hôpitaux de Paris, Paris, France, *Paris Descartes University, Paris, France, *Saint Jean Hospital, Perpignan, France, *Assistance Publique - Hôpitaux de Paris, Garches, France, *Centre Hospitalier Intercommunal, Créteil, France, *Assistance Publique - Hôpitaux de Paris, Créteil, France, *Illejuif, France, *Illejui

660 Boceprevir/Telaprevir-Based Therapy in HIV-Infection: Interim Analysis of a Multicenter Cohort

Karin Neukam^{1,2}, Daniela Munteanu^{3,4}, Antonio Rivero⁵, Annette Haberl⁶, Manuel Márquez⁷, Patrick Ingiliz⁸, Ignacio de los Santos-Gil⁹, Thomas Lutz¹⁰, Juergen K. Rockstroh³, Juan A. Pineda¹

'Unit of Infectious Diseases and Microbiology, Hospital Universitario de Valme, Seville, Spain, 'University of Liverpool, Liverpool, United Kingdom, 'Bonn University Hospital, Bonn, Germany, 'Matei Bals National Institute of Infectious Diseases, Bucharest, Romania, 'Hospital Universitario Reina Sofia, Cordoba, Spain, 'Frankfurt University Hospital, Frankfurt am Main, Germany, 'Hospital Virgen de la Victoria, Malaga, Spain, '8 Medical Center for Infectious Diseases, Berlin, Germany, 'Hospital Universitario de la Princesa, Madrid, Spain, '19 Infektiologikum, Frankfurt am Main, Germany

658 Protease Inhibitors To Treat Hepatitis C in the Swiss HIV Cohort Study: High Efficacy But Low Uptake

Sebastian Haubitz¹, Verena Schaerer², Juan Ambrosioni³, Matthias Cavassini⁴, Marcel Stoeckle³, Patrick Schmid⁴, Laurent Decosterd⁴, Karin Metzner², Jan Fehr², Andri Rauch¹¹Division of Infectious Diseases, Bern, Switzerland,³Division of Infectious Diseases, Zurich, Switzerland,³Division of Infectious Diseases, Geneva, Switzerland,⁴Division of Infectious Diseases, Lausanne, Switzerland,⁵Division of Infectious Diseases, Basel, Switzerland,⁵Division of Infectious Diseases, St Gallen, Switzerland

655 Slow HCV-RNA Decay and Early Resistance Predict the Risk of Failure To TVR/BOC Treatment

Francesca Ceccherini-Silbersteini, Valeria Centoi, Velia Chiara Di Maioi, Daniele Di Paoloi, Sergio Babudieri³, Antonio Di Biagioi, Massimo Andreoni⁸, Giustino Parruti⁶, Giuliano Rizzardinii, Carlo Federico Pernoi

¹Department of Experimental Medicine and Surgery, University of Rome Tor Vergata, Rome, Italy, Hepatology Unit, University Hospital of Rome Tor Vergata, Rome, Italy, Infectious Diseases Unit, Department of Clinical and Experimental Medicine, University of Sassari, Sassari, Italy, S. Martino Hospital, Genoa, Italy, Infectious Diseases Unit, University Hospital of Rome Tor Vergata, Rome, Italy, Infectious Diseases Unit, Pescara General Hospital, Pescara, Italy, Tivision of Infectious Diseases, Hospital Sacco of Milan, Milan, Italy

661 Favorable Adverse Event Profile of Sofosbuvir/ Ribavirin Versus Standard of Care for Hepatitis C Kerry Townsond', Shivakumar Narayanan', Amy Nelson', Advis Mail Linguis Kapatik', Debt D. Beffold',

Adrian Majid², Luciano Kapelusznik², Robert R. Redfield², Shyamasundaran Kottilil¹, Rohit Talwani², Anuoluwapo Osinusi¹²

¹LIR, NIAID, NIH, Bethesda, MD, United States, ²Institute of Human Virology, Div. of Infectious Diseases, University of Maryland School of Medicine, Baltimore, MD, United States

641 Sustained Virologic Response and the Risk of Liver Decompensation in HCV and HIV/HCV Patients

Temitope O. Olufade¹, Li Wang², Scott Devine¹, Onur Baser², Vincent Lo Re³

*US Outcomes Research, Merck Sharpe & Dohme, North Wales, PA, United States, *STATINMED Research, Dallas, TX, United States,*Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States

650 Predicting Risk of ESLD in HIV/HCV Patients for Individualized HCV Therapy Decisions

Vincent Lo Re¹, Janet P. Tate², Adeel A. Butt³, Marina B. Klein⁴, Cynthia Gibert³, David Rimland⁶, Matthew B. Goetz⁷, Jay R. Kostman¹, Amy C. Justice², Russell Localio¹
"University of Pennsylvania, Philadelphia, PA, United States, ²VA Connecticut Healthcare System, West Haven, CT, United States, ³University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁴McGill University Health Centre, Montreal, QC, Canada, ⁵Washington DC VA Medical Center, Washington, DC, United States, ⁵Atlanta VA Medical Center, Atlanta, GA, United States, ⁷VA Greater Los Angeles Healthcare System, Los Angeles, CA, United States

POSTER SESSIONS

2:30 PM-4:00 PM

(Use the Poster Abstract section of the Program at a Glance,

page 37 to 106, for specific posters in each session)

Session P-A4 Late Events in HIV Replication

Session P-A5 Apobec, Apobec, Apobec

Session P-B2 Application of NGS To Viral Profiling

Session P-C6 Clades and Pathogenesis

Session P-C7 Correlative Marker Studies

Session P-C8 Elite Controllers

Session P-C9 Pathogenesis: Insights From Clinical Trials

Session P-C10 Innate Immunity and Pathogenesis

Session P-D2 New SIV Models

Session P-D3 SCID Mice

Session P-D4 Non-Pathogenic vs Pathogenic Hosts

Session P-E3 New Technologies in Immunology

Session P-E4 Monocytes, Dendritic Cells, NK Cells

Session P-E5 Pre-Clinical Vaccine Studies

Session P-F4 Methods for Measuring Reservoirs

Session P-F5 What and Where Is the Reservoir?

Session P-F6 What Can We Learn From Bone Marrow Transplantation?

Session P-G3 Neuropathogenesis

Session P-G4 Host Genetics in HAND

Session P-G5 PML and Other CNS Infections

Session P-G6 CNS Viral Genetics

Session P-H3 ARV Pharmacokinetics, Drug Interactions, and Pharmacodynamics

Session P-K2 ART Initiation, Monitoring, and Outcomes

Session P-L3 Mechanisms of HIV Drug Resistance

Session P-L4 HIV Drug Resistance Variants

Session P-M2 HIV Diagnostics

Session P-N3 HCV: Prognosis and Impact of Treatment, Including Liver Transplantation

Session P-N4 HCV Treatment: Real-World Experience

Session P-N5 HCV: The Cascade

Session P-04 Kaposi Sarcoma, PEL, and KSHV

Session P-P3 Alcohol, Smoking, and Atherosclerosis

Session P-P4 Risk Factors and Incidence: MI and Stroke

Session P-Q4 Lung Disease and HIV

Session P-Q5 Bone Disease: Osteopenia Fracture Risk and Osteoarthritis

Session P-Q6 Hepatic Fibrosis and Other Hepatic Complications

Session P-R1 Epidemiology and Transmission of TB

Session P-R2 TB Screening and Diagnosis

Session P-R3 Latent TB Screening and Treatment

Session P-R4 Inflammatory and Immune Activation
Markers in TB

Session P-R5 Impact of ART on TB Risk and Disease

Session P-T3 Pregnancy Incidence and Outcomes Among Women in ART Programs

Session P-T4 Cellular and Immune Correlates of MTCT

Session P-T5 Characteristics of Pregnant Women in PMTCT

Session P-T6 Early Infant HIV Diagnosis

Session P-U4 Host and Immune Response in Children and Adolescents

Session P-U5 Complications of HIV and ART in Children and Adolescents

Session P-V1 Pre-Clinical Studies of Microbicides

Session P-V2 Animal Model of Clinical Studies and PrEP

Session P-V3 Identifying and Reducing HIV Risk

Session P-V4 PrEP, PEP, TasP

Session P-V5 Circumcision

Session P-W5 Acute Infection

Session P-W6 Incidence Assays

Session P-X3 The Treatment Cascade and Loss To Follow-Up

Session P-X4 Mental Health in HIV Care

Session 0-11 Oral Abstracts

4:00 PM - 6:00 PM Room 312

Malignancies and Pharmacology

Moderators

Kelly E. Dooley, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

Margaret Z. Borok, University of Zimbabwe, Harare, Zimbabwe

99 HIV and Elevated Cancer-Specific Mortality Following Cancer Diagnosis in the United States Anna E. Coghill, Meredith S. Shiels, Eric A. Engels Division of Cancer Epidemiology and Genetics, National Cancer Institute, Washington, DC, United States

100 Impact of Kaposi Sarcoma On Survival in HIV-Infected African Adults On Antiretroviral Therapy

Stephen B. Asiimwe^{1,2}, Miriam Laker-Oketta^{1,3}, John Bennett¹, Adrienne Mocello¹, David Glidden¹, Jessica Haberer⁴, Mwebesa Bwana¹, Peter Hunt¹, David Bangsberg⁴, Edward Mbidde¹, Jeffrey Martin¹

¹Department of Epidemiology and Biostatistics, University of California San Francisco, Gan Francisco, Ca, United States, ²Department of Internal Medicine, Mbarara Regional Referral Hospital, Mbarara, Uganda, ³Department of Medicine, Massachusetts General Hospital and Harvard Medical School, Boston, MA, United States

101 Prospective Characterization of Kaposi Sarcoma Herpesvirus Inflammatory Cytokine Syndrome

Mark N. Polizzotto¹, Thomas S. Uldrick¹, Kathleen M. Wyvill¹, Karen Aleman¹, Vickie Marshall², Denise Whitby², Stefania Pittaluga³, Seth Steinberg⁴, Irini Sereti⁵, Robert Yarchoan¹ ¹HIV and AIDS Malignancy Branch, National Cancer Institute, Bethesda, MD, United States,²Viral Oncology Section, Frederick National Laboratory for Cancer Research, Frederick, MD, United States, *Laboratory of Pathology, National Cancer Institute, Bethesda, MD, United States, *Biostatistics and Data Management Section, National Cancer Institute, Bethesda, MD, United States, *HIV Pathogenesis Unit, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

102 Quadrivalent HPV Vaccine Demonstrates Immune Memory in HIV-1-Infected Men

Timothy Wilkin¹. Shelly Lensing². Mark Einstein³. Jeannette Lee4, Stephen Goldstone5, Elizabeth A. Stier6, Michael Berry7, Naomi Jay8, Ronald Mitsuyasu9, Joel Palefsky8 ¹Division of Infectious Diseases, Weill Cornell Medical College, New York, NY, United States, 2 Department of Biostatistics, University of Arkansas for Medical Sciences, Little Rock, AR, United States, 3 Department of Obstetrics & Gynecology and Women's Health. Albert Einstein College of Medicine and Montefiore Medical Center, New York, NY, United States. 4 University of Arkansas for Medical Sciences, Little Rock, AR. United States. 5Icahn School of Medicine at Mount Sinai. New York, NY, United States. Department of Obstetrics and Gynecology, Boston University Medical Center, Boston, MA, United States, Department of Medicine, University of California San Francisco, San Francisco, CA, United States, University of California San Francisco, San Francisco, CA, United States, UCLA CARE Center, University of California Los Angeles, Los Angeles, CA, United States

103 HIV-1 Infection Alters Intestinal Expression of Antiretroviral Drug Transporters and Enzymes

Olena Kis¹, Md. Tozammel Hoque¹, Sharon L. Walmsley².³, Sumathi Sankaran-Walters⁴, Satya Dandekar⁵, **Reina Bendayan**¹

¹Pharmaceutical Sciences, University of Toronto, Toronto, ON, Canada, ²University of Toronto, Toronto, ON, Canada, ³Division of Infectious Diseases, University Health Network, Toronto, ON, Canada, ⁴Medical Microbiology and Immunology, University of California, Davis, CA, United States, ⁴Medical Microbiology and Immunology, University of California, Davis, CA, United States

104 Tenofovir-Emtricitabine Directly Observed Dosing: 100% Adherence Concentrations (HPTN 066)

Craig W. Hendrix¹, Adriana Andrade¹, Angela D. Kashuba², Mark Marzinke¹, Peter L. Anderson³, Ayana Moore⁴, Vanessa Elharrar⁵, Lei Wang⁵, Kenneth H. Mayer⁵, Kristine B. Patterson²¹ The Johns Hopkins University, Baltimore, MD, United States,²University of North Carolina (Chapel Hill), Chapel Hill, NC, United States,³University of Colorado, Aurora, CO, United States,⁴FHI 360, Durham, NC, United States,⁵National Institutes of Health, Rockville, MD, United States,⁵SCHARP, Seattle, WA, United States,⁵Fenway Health, Boston, MA. United States

105 Efavirenz Pharmacokinetics in HIV+ Persons Receiving Rifapentine and Isoniazid for TB Provention

Anthony T. Podany¹, Yajing Bao², Richard E. Chaisson³, Susan Swindells⁴, Janet W. Andersen², Thando Mwelase⁵, Khuanchai Supparatpinyo6, Amita Gupta³, Constance A. Benson², Courtney V. Fletcher¹

*College of Pharmacy, University of Nebraska Medical Center, Omaha, NE, United States, *Statistical & Data Analysis Center, Harvard School of Public Health, Boston, MA, United States, *Division of Infectious Diseases, The Johns Hopkins University, Baltimore. MD, United States.*Infectious Diseases/Internal Medicine, University of Nebraska Medical Center, Omaha, NE, United States, Clinical HIV Research Unit, Wits Health Consortium, Johannesburg, South Africa, Chiang Mai University, Chiang Mai, Thailand, Tantiviral Research Center, University of California San Diego. San Diego. CA. United States

106 Pharmacokinetic Variability in TB Therapy: Associations With HIV and Effect On Outcome

Derek J. Sloan¹, Alessandro Schipani², David Waterhouse³, Lisa Stone³, Henry C. Mwandumba¹, Anthony E. Butterworth⁴, Robert S. Heyderman¹, Elizabeth L. Corbett¹, Saye H. Khoo², Geraint R. Davies¹

'Malawi Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, University of Liverpool, Liverpool, United Kingdom, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, College of Medicine, University of Malawi, Blantyre, Malawi

Session S4 Symposium

4:00 PM – 6:00 PM Ballroom B/C
TB: Looking To the Future: Resistance,
Persistence, Monitoring, and Control

Target audience: This session is directed to clinicians and scientists interested in the pathogenesis, diagnosis, treatment, and prevention of TB.

Level of knowledge: It is assumed that learners are familiar with basic aspects of the disease, drug therapies, and development of resistance and with current tools available for disease monitoring on an individual and population basis.

Objectives: At the completion of the session, learners will be able to describe:

- Methods for sequencing MDR and XDR TB strains and factors beyond inadequate adherence that contribute to emergence of resistance
- The pathogenesis of latency, novel animal models of latency, and implications for treating latent TB infections
- Use of PET-CT, PET-MRI, and other novel imaging to detect mycobacterial replication, tissue inflammation, and responses to TB therapy
- Insights gained from population-based studies of TB prevention

Conveners

Neil A. Martinson, University of the Witwatersrand, Johannesburg, South Africa

Jean William Pape, Weill Cornell Medical College, New York, NY, United States, and Centres GHESKIO. Port-au-Prince. Haiti

107 The Genetics and Pathogenesis of MDR and XDR TB Drug Resistance

Megan B. Murray

Harvard Medical School, Boston, MA, United States

108 Is Latent TB Infection Really Latent? Petros C. Karakousis

The Johns Hopkins University School of Medicine, Baltimore, MD. United States

109 Quantifying TB Treatment Response Using PET/CT

Clifton E. Barry III

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

110 Population-Level Control of HIV-Related TB Peter Godfrey-Faussett

Joint United Nations Programme on HIV/AIDS (UNAIDS), Geneva, Switzerland

Session S5 Symposium

4:00 PM - 6:00 PM Ballroom A
Visualizing the Virus

Target audience: This session is directed to scientists and clinicians who are interested in current concepts of how the HIV viral particle is assembled and how it interacts with cellular proteins, particularly during entry. Learners will also learn about state-of-the-art technological approaches and breakthroughs that have enabled visualization and analysis of HIV virions and proteins in real time.

Level of knowledge: It is assumed that learners will have a basic understanding of the HIV virion components and virus life cycle.

Objectives: At the completion of the session, learners will be able to:

- Appreciate technological advances that are being applied to study HIV particles, viral proteins, and proteinprotein interactions involved in viral entry
- Describe current views of how the HIV virion is assembled and how key cellular interactions contribute to infection and virus production
- Describe recent advances in structural biology that have enabled complex viral proteins to be visualized

Conveners

Hans-Georg Kräusslich, University of Heidelberg, Heidelberg, Germany Eric O. Freed, National Cancer Institute, Frederick, MD, United States

11 An Ingenious Cloak for Subterfuge: The HIV Capsid Structure Angela M. Gronenborn

Angela M. Gronenborn

University of Pittsburgh, Pittsburgh, PA, United States

112 Structure of a Soluble, Cleaved HIV-1 Env Trimer and Its Interaction With Broadly Neutralizing Antibodies

lan A. Wilson

The Scripps Research Institute, La Jolla, CA, United States

113 Imaging the Molecular Dance of Single HIV-1 Env Molecules

Walter H. Mothes

Yale University, New Haven, CT, United States

114 Kill HIV by Starvation: SAMHD1 as a Potent Viral Restriction Factor and a Master Regulator of Cellular dNTP Metabolism

Yong Xiong

Yale University, New Haven, CT, United States

Session S6 Symposium

4:00 PM - 6:00 PM Room 304

Know Your Epidemic: From Data To Action

This session aims to inform the attendees of the value of data in furthering the understanding of the epidemiology of the HIV epidemic and the critical role that data and evidence can play in informing research as well as policy decisions regarding HIV. The availability of various population-level surveys and the wealth of other research findings allow for a more effective response to the HIV epidemic.

Target audience: This session is directed to clinicians, researchers and policy makers who are interested in use of data and evidence to inform their work

Level of knowledge: It is assumed that learners are familiar with the global HIV epidemic, basic epidemiology of HIV, and affected populations

Objectives: At the completion of the session, learners will be able to:

- Describe the complexity of the global epidemiology of HIV
- List available population surveys related to HIV
- Recognize the evolution of the HIV epidemic within subpopulations
- Identify ways in which data and evidence can be used to inform policy

Conveners

John Stover, Futures Institute, Glastonbury, CT, United States Beatriz Grinsztejn, Instituto de Pesquisa Clinica Evandro Chagas-Fiocruz, Rio de Janero, Brazil

115 Population Surveys: What Do They Show? Peter D. Ghys

Joint United Nations Programme on HIV/AIDS (UNAIDS), Geneva. Switzerland

116 MSM in the UK: Prevention Effects of ART in Perspective

Andrew Phillips

University College London, London, United Kingdom

117 Understanding Networks of HIV Transmission Stéphane Helleringer

Columbia University, New York City, NY, United States

118 From Evidence To Policy: Experience From Swaziland

Velephi J. Okello

Swaziland National AIDS Programme, Mbabane, Swaziland

THURSDAY MARCH 6, 2014

Session PL5 Plenary

8:30 AM - 9:00 AM Auditorium

119 HIV-1 Infection and Type-1 Interferon Michael H. Malim

King's College London, London, United Kingdom

Session PL6 Plenary

9:00 AM - 9:30 AM Auditorium

PEPFAR/Global Fund at 10 years: Past, Present, and Future

Stefano M. Bertozzi

University of California Berkeley School of Public Health, Berkeley, CA, United States

Session 0-9 Oral Abstracts

10:00 AM - 12:15 PM Room 312

Interferon and Antibody at the Interface of Innate and Adaptive Immunity To HIV

Xueling Wu, Aaron Diamond AIDS Research Center, New York, NY. United States

David T. Evans. University of Wisconsin. Madison. WI. United States

Cryo-EM Structures of the HIV-1 Env Trimer Reveal the Full Extent of Neutralizing Antibody **Epitopes**

Andrew B. Ward¹, Dmitry Lyumkis¹, Natalia de Val¹, Jean-Philippe Julien¹, Albert Cupo², Per Johan Klasse², Rogier Sanders3, John Moore2, Ian Wilson1

¹Integrative Structural and Computational Biology, The Scripps Research Institute, La Jolla, CA, United States, Weill Cornell Medical College, New York, NY, United States, 3Academic Medical Center, Amsterdam, Netherlands

122LB Immunogenicity of Cleaved, Soluble BG505 SOSIP.664 Native-Like Trimers in Rabbits John P. Moore

Microbiology/Immunology, Weill Medical College, New York, NY, United States

123 Identification of a New Neutralization Target at the N262/N448 Glycosylation Sites On HIV-1 ap120

Xueling Wu¹, Tongging Zhou², Ivelin S, Georgiev², Siiv O'Dell², Mark Louder², Dennis R. Burton³, Wayne C. Koff³, Martin Markowitz1, Peter D. Kwong2, John R. Mascola2

¹Aaron Diamond AIDS Research Center, New York, NY, United States, 2 Vaccine Research Center, Bethesda, MD, United States, ³International AIDS Vaccine Initiative, New York, NY, United

CD169 Mediates HIV-1 Evasion From Detection 124 by α-gp120 Neutralizing Antibodies in Dendritic

Hisashi Akivama¹, Nora G. P. Ramirez¹, Manasa Gudheti², Survaram Gummuluru1

¹Microbiology, Boston University School of Medicine, Boston, MA. United States. 2 Vutara Inc., Salt Lake City, UT, United States

125 Tetherin Antagonism by Vpu Protects HIV-Infected Cells From ADCC

Juan F. Arias¹, Lisa N. Heyer², Benjamin von Bredow¹, Kim L. Weisgrau³, Brian Moldt⁴, Dennis R. Burton⁴, Eva G. Rakasz³, David T. Evans1

¹Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, WI, United States, 2 Department of Microbiology and Immunobiology, Harvard Medical School, Southborough, MA, United States, 3 Wisconsin National Primate Research Center, University of Wisconsin, Madison, WI, United States, *Department of Immunology and Microbial Science, The Scripps Research Institute, La Jolla, CA, United States

126 HIV Nef and Vou Protect HIV-infected CD4+ T Cells From ADCC Through Downmodulation of CD4 and BST2

Tram N. Q. Pham1, Sabelo Lukhele1, Fadi Hajjar1, Jonathan Richard¹, Rajesh M. Valanparambil², Halima Medjahed³, Mathieu Coutu3, Andres Finzi3,4, Eric A. Cohen1,4 ¹Institut de Recherches Cliniques de Montréal, Montreal, QC, Canada, 2Department of Medicine, McGill University, Montreal, QC, Canada,3Centre de Recherche du Centre Hospitalier de l'Université de Montréal, Montreal, QC, Canada, Department of Microbiology, Infectiology and Immunology, Université de Montréal, Montreal, QC, Canada

127 Identification of HIV-infected CD4+ T Cells Using HIV RNA and Broadly Neutralizing **Antibodies**

Joseph P. Casazza¹, Alexander C. Vostal¹, Irene R. Primmer¹, David R. Ambrozak¹, Amarenda Pegu², Fli Boritz³, Mark K. Louder3, Daniel C. Douek3, John R. Mascola3, Richard A. Koup1 ¹Immunology Laboratory, NIAID, Bethesda, MD, United States, 2 Virology Laboratory, NIAID, Bethesda, MD, United States,3 Human Immunology Section, NIAID, Bethesda, MD, United States

128 Type I Interferon Signaling Is Critical for Early Control of Immune System Damage

Netanya G. Sandler¹, Steven E. Bosinger², Jacob D. Estes³, Eli Boritz⁴, Brandon F. Keele³, Jerome A. Langer⁵, Jeffrey D. Lifson3, Srini S. Rao4, Gideon Schreiber6, Daniel C. Douek4 ¹Internal Medicine, University of Texas Medical Branch at Galveston, Galveston, TX, United States, 2 Yerkes NHP Genomics Laboratory, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, 3Leidos Biomedical Research, Inc., AIDS and Cancer Virus Program, Frederick National Laboratory for Cancer Research, Frederick, MD, United States, ANIAID Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States, 5Pharmacology, Robert Wood Johnson Medical School, Rutgers University, Piscataway, NJ, United States, Biological Chemistry, Weizmann Institute of Science, Rehovot, Israel

129 miR-422a: A Solitary MicroRNA Biomarker of Interferon- α Anti-HIV-1 Activity In Vivo

Mohamed Abdel-Mohsen^{1,2}, Xutao Deng², Teri Liegler¹, Andri Rauch3, Bruno Ledergerber4, Huldrych F. Günthard5, Joseph K. Wong1,6, Satish K. Pillai1,2

Medicine, University of California, San Francisco, San Francisco, CA, United States, 2Blood Systems Research Institute, San Francisco, CA, United States, 3Infectious Diseases, Bern University Hospital and University of Bern, Bern, Switzerland, Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, University of Zurich, Zurich,

Switzerland, Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, University of Zurich, Zurich, Switzerland, Medicine, San Francisco Veterans Affairs Medical Center, San Francisco, San Francisco, CA, United States

Session 0-10 Oral Abstracts

10:00 AM - 12:00 PM Ballroom B/C CV and Other Complications

Moderators

Jason V. Baker, University of Minnesota, Hennepin County Medical Center, Minneapolis, MN, United States

Cristina Mussini, University of Modena and Reggio Emilia, Modena, Italy

Increased Arterial Inflammation Relates to High-Risk Coronary Plaque Morphology in HIV+ Patients

Ahmed Tawakol¹, Markella V. Zanni², Janet Lo², Ezinne J. Ihenachor², Allison Han², Megan MacNabb¹, Bryan Wai³, Udo Hoffmann³, Suhny Abbara³, Steven Grinspoon² ¹Cardiology Division, Massachusetts General Hospital/ Harvard Medical School, Boston, MA, United States, ¹Program in Nutritional Metabolism, Massachusetts General Hospital/Harvard Medical School, Boston, MA, United States, ³Cardiovascular Radiology Division, Massachusetts General Hospital/Harvard Medical School, Boston, MA, United States

131 Arterial Inflammation in HIV as Measured by FDG-PET/CT Is Associated With Splenic Activity

Priscilla Y. Hsue¹, Megan MacNabb², Rebecca Kaplan², Elaine Nitta¹, Steven Deeks³, Jeffrey Martin³, Miguel Pampaloni³, Peter Ganz¹, Ahmed Tawakol²

'Cardiology, University of California San Francisco, San Francisco, CA, United States, "Massachusetts General Hospital, Boston, MA, United States, "University of California San Francisco. San Francisco. CA. United States

132 Replicative Senescence of Circulating Osteogenic Cells and Low BMD in Perinatally Infected Men

John S. Manavalan, Stephen Arapdi, Jayesh Shah, Chiyuan A. Zhang, Marc Foca, Natalie Neu, Stavroula Kousteni, **Michael T. Yin**

Columbia University Medical Center, New York, NY, United States

133 High-Dose Vitamin D and Calcium Attenuates Bone Loss With ART Initiation: Results From ACTG A5280

Edgar T. Overton¹, Ellen S. Chan², Todd T. Brown³, Pablo Tebas⁴, Grace A. McComsey⁵, Kathleen M. Melbourne⁵, Andrew Napoli², Royce Hardin³, Heather J. Ribaudo², Michael T. Yin³, ACTG A5280 Study Team

'University of Alabama School of Medicine, Birmingham, AL, United States, "Harvard School of Public Health, Boston, MA, United States, "The Johns Hopkins University, Baltimore, MD, United States, "Hospital of the University of Pennsylvania, Philadelphia, PA, United States, "Pediatrics, Case Western Reserve University, Cleveland, OH, United States, "Gilead Sciences, Foster City, CA, United States, "Virology, Bristol-Myers Squibb, Plainsboro, NJ, United States," Duke University Community Advisory Board, Durham, NC, United States, "Harvard School of Public Health, New York, NY, United States

134 Rosuvastatin Improves Hip Bone Mineral Density But Worsens Insulin Resistance Grace A. McComsey¹, Ying Jiang¹, Kristine M. Erlandson²,

Sara M. Debanne¹

¹Case Western Reserve University, Cleveland, OH, United States, ²University of Colorado Anschutz Medical Campus, Aurora, CO, United States

135 Effects of Tesamorelin On Hepatic Fat in HIV Patients: A Randomized, Placebo-Controlled Trial

Takara Stanley, Meghan Feldpausch, Jinhee Oh, Karen Branch, Martin Torriani, Steven Grinspoon Massachusetts General Hospital, Boston, MA, United States

Session 0-12 Oral Abstracts

10:00 AM - 12:15 PM Ballroom A

Persistence

Moderators

Nicolas Chomont, Vaccine and Gene Therapy Institute of Florida, Port St. Lucie, FL, United States

Mary Kearney, National Cancer Institute, Frederick, MD, United States

136LB Early Treatment in Acute SIV Infection Limits the Size and Distribution of the Viral Reservoir

Afam A. Okoye¹, Mukta Rohankhedkar¹, Matthew Reyes¹, Joseph Clock¹, Derick Duell¹, Yoshinori Fukazawa¹, Richard Lum¹, Haesun Park¹, Jeffrey D. Lifson², Louis J. Picker¹¹¹Vaccine & Gene Therapy Institute and the Oregon National Primate Research Center, Oregon Health & Science University, Beaverton, OR, United States.²Frederick National Laboratory for Cancer Research, SAIC-Frederick, Inc, Frederick, MD, United States

137 CD4 T-Cell Subset Composition of HIV Reservoirs in Gut, Lymphnode, and Blood During HAART

Steven Ä. Yukl^{1,2}, Teri Liegler¹, Mohamed Abdel-Mohsen¹, Elizabeth Sinclair¹, Hiroyu Hatano¹, Frederick Hecht¹, Ma Somsouk¹, Sarah Palmer^{3,4}, Steven G. Deeks¹, **Joseph K. Wong**^{1,2}

¹University of California San Francisco, San Francisco, CA, United States, ²San Francisco Veterans Affairs Medical Center, San Francisco, CA, United States, ³Karolinska Institute, Stockholm, Sweden, ⁴Westmead Millennium Institute for Medical Research, Sydney, Australia

138 Proliferation of Cells With HIV Integrated Into Regulatory Genes Is a Mechanism of Persistence

Thor A. Wagner^{1,2}, Sherry McLaughlin^{1,2}, Kavita Garg³, Hannah Huang², Sheila Styrchak², James I. Mullins³, Lisa M. Frenkel^{1,2} ¹University of Washington, Seattle, WA, United States, ²Seattle Children's Hospital, Seattle, WA, United States, ²Fred Hutchinson Cancer Research Center, Seattle, WA, United States

139 Novel Ex Vivo Approaches Distinguish Effective and Ineffective Drugs for Reversing Latency In Vivo

Gregory M. Laird, C. Korin Bullen, Janet D. Siliciano, Robert F. Siliciano

The Johns Hopkins University School of Medicine, Baltimore, MD, United States

140 Effect of Vorinostat On Host Gene Expression in HIV Infected Patients On Antiretroviral Therapy

Khader Ghneim¹, Jeff Ahlers¹, Julian Elliot², Miranda Smith², Fiona Wightman², Ajantha Solomon², Miles Prince³, Steven Deeks¹, Rafick Sekaly¹, Sharon Lewin²
¹VGT-FL, Port Saint Lucle, FL, United States,²Department

of Infectious Diseases, Monash University, Melbourne, Australia, Department of Hematology, Peter Macallum Hospital, Melbourne, Australia, Department of Medicine, University of California, San Francisco, CA, United States

141 Cyclophosphamide Enhances SB-728-T Engraftment To Levels Associated With HIV-RNA Control

Gary Blick¹, Jay Lalezari², Ricky Hsu³, Edwin DeJesus⁴, Trevor Hawkins⁵, Ronald Mitsuyasu⁸, Steven Deeks⁷, Gary Lee⁸, Winson Tang⁸, Dale Ando⁸

¹Circle Care Center, Norwalk, CT, United States, ²Quest Clinical Research, San Francisco, CA, United States, ²Private Practice, New York, NY, United States, ⁴Orlando Immunology Center, Orlando, FL, United States, ⁵Southwest Care, Santa Fe, NM, United States, ⁶UCLA David Geffen School of Medicine, Los Angeles, CA, United States, ⁷UCSF School of Medicine, San Francisco, CA, United States, ⁸Sangamo BioSciences, Richmond, CA, United States

142 Stimulation of Subdominant CTL Response Is Required for the Elimination of HIV-1 Latent Reservoir

Kai Deng, Mihaela Pertea, Liang Shan, Robert Siliciano The Johns Hopkins University, Baltimore, MD, United States

143 Dendritic Cell-Based HIV Therapeutic Vaccine Increases Residual Viremia in Individuals On ART Bernard J. Macatangay¹, Mariam B. Lawani¹, Sharon A. Riddler¹, Nicole D. Wheeler¹, Margaret A. Bedison¹, Charles R. Rinaldo², John W. Mellors¹

Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, Infectious Disease and Microbiology, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States

144LB HIV-1 Rebound Following Allogeneic Stem Cell Transplantation and Treatment Interruption

Timothy J. Henrich¹, Emily Hanhauser², Michael N. Sirignano³, Jonathan Z. Li¹, Mathias Lichterfeld⁴, Francisco M. Marty¹, Philippe Armand⁵, Robert J. Soiffer⁵, Marcus Altfeld³, Daniel R. Kuritzkes¹

'Brigham and Women's Hospital, Harvard Medical School, Cambridge, MA, United States, 'Brigham and Women's Hospital, Cambridge, MA, United States, 'Bagon Institute of MGH, MIT and Harvard, Cambridge, MA, United States, 'Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, 'Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, United States

Session 0-13 Oral Abstracts 10:00 AM – 12:15 PM Room 304 Antiretroviral Scale-Up in Sub-Saharan Africa: Challenges and Opportunities

Moderators

Joep M.A. Lange, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands Harriet Nuwagaba-Biribonwoha, International Center for AIDS Care and Treatment Programs (ICAP) in Swaziland, Columbia University Mailman School of Public Health. Mbabane. Swaziland

145 Age-Disparate Relationships and HIV Incidence Amongst Rural South Africa Women

Guy Harling¹, Marie-Louise Newell²³, Frank Tanser³, Ichiro Kawachi⁴, SV Subramanian⁴, Till Bărnighausen¹³, "Global Health and Population, Harvard School of Public Health, Boston, MA, United States, *University of Southampton, Southampton, United Kingdom, *Africa Centre for Health and Population Studies, Mtubatuba, South Africa, *Social and Behavioral Sciences, Harvard School of Public Health, Boston, MA. United States

146 Introduction of HIV into Stable Heterosexual Couples in Rakai, Uganda Before and After ART

Mary K. Grabowski¹, Justin Lessler¹, Fred Nalugoda², Steve J. Reynolds³-4, Robert Ssekubugu², Xiangrong Kong¹, Godfrey Kigozl², Maria Wawer¹-5, David Serwadda5-6, Ronald H. Gray¹-5 ¹-Epidemiology, The Johns Hopkins University, Baltimore, MD, United States,²-Epidemiology, Rakai Health Sciences Program, Kalisizo, Uganda; *Medicine, The Johns Hopkins University, Baltimore, MD, United States,⁴National Institutes of Health, Bethesda, MD, United States,⁵Rakai Health Sciences Program, Kalisizo, Uganda,⁵University of Makerere, Kampala, Uganda

147 One Year Outcomes Following Community-Based HIV Self-Testing: A Prospective Study in Malawi

Augustine T. Choko¹, Peter MacPherson¹², Emily L. Webb³, Helena Ball³, Rodrick Sambakunsi¹, Aaron Mdolo¹, Simon D. Makombe⁴, Nicola Desmond¹², Richard Hayes³, Elizabeth L. Corbett¹₃

'Malawi Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴HIV Unit, Ministry of Health, Lilongwe, Malawi

148 Community HIV Testing and Linkage To Care Reduces Population Viral Load in South Africa and Uganda

Ruanne V. Barnabas^{1,2}, Heidi van Rooyen³, Elioda Tumwesigye⁴, Meighan Krows⁴, Pam Murnane⁴, Hilton Humphries³, Bosco Turyamureeba⁴, James P. Hughes^{2,5}, Jared Baeten⁹, Connie Celum⁶

'Global Health and Medicine, University of Washington, Seattle, WA, United States, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, 3HIV/AIDS, STIs and Tuberculosis (HAST) Programme, Human Sciences Research Council, Sweetwaters, South Africa, Integrated Community Based Initiatives, Kabwohe, Uganda, Global Health and Epidemiology, University of Washington, Seattle, WA, United States, Global Health, Epidemiology and Medicine, University of Washington, Seattle, WA, United States

149 Enhanced HIV Surveillance To Evaluate the National Response To HIV/AIDS in Kenya

William Maina¹, Davies Kimanga¹, Ibrahim Mohammed¹, Mamo Umuro², Macdonald Obudho³, George Kichamu⁴, Patrick Mureithi³, Willis Akhwale³, Kevin M. De Cock², Andrea A. Kim² ¹National AIDS and STI Control Programme, Ministry of Health, Nairobi, Kenya,²National Public Health Laboratory Services, Ministry of Health, Nairobi, Kenya,*Kenya National Bureau of Statistics, Nairobi, Kenya,⁴National Council for Population and Development, Nairobi, Kenya, National AIDS Control Council, Nairobi, Kenya, Ministry of Health, Nairobi, Kenya, Division of Global HIV/AIDS-Kenya, US Centers for Disease Control and Prevention, Nairobi, Kenya

150 Unequal Benefits From ART: A Growing Male Disadvantage in Life Expectancy in Rural South Africa

Till Barnighausen^{1,2}, Abraham J. Herbst², Frank Tanser², Marie-Louise Newell^{2,3}, Jacob Bor^{2,4}

'Global Health and Population, Harvard School of Public Health, Boston, MA, United States,'Africa Centre for Health and Population Studies, Mtubatuba, South Africa,'University of Southampton, Southampton, Southampton, Department of International Health, Boston University School of Public Health, Boston. MA. United States

151 A New Paradigm for Evaluating the HIV Care Cascade

Margaret L. McNairy, Matthew Lamb, Batya Elul, Elaine Abrams, Wafaa El-Sadr, The Identifying Optimal Models of HIV Care in Africa Study

ICAP Columbia University, New York, NY, United States

152LB Moderate HIV Incidence and High ART Coverage in Rural Kwazulu-Natal: First Population-Based Survey

Helena Huerga¹, Médecins Sans Frontières, Adrian Puren², Malika Bouhenia¹, Jihane Ben Farhat¹, Alex Welte³, Lubbe Wiesner⁴, David Maman¹, Jean-François Etard¹-5 ¹Epicentre, Paris, France,²National Institute for Communicable Diseases of the NHLS, Johannesburg, South Africa,³South African DST/NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), Stellenbosch, South Africa,⁴Division of Clinical Pharmacology, Cape Town, South Africa,⁵Institut de Recherche pour le Développement, Montpellier, France

Session TD11 Themed Discussion

1:30 pm - 2:30 pm Room 309

Kaposi Sarcoma

Discussion Leader

Thomas S. Uldrick, National Cancer Institute, Bethesda, MD, United States

709 Guidelines On Kaposi's Sarcoma Treatment: Results From Two Cochrane Systematic Reviews

Esther E. Freeman¹, Charles Okwundu², Oluwatoyin Gbabe³, Miriam Laker⁴, Philippa Easterbrook⁵, Toby Maurer⁶, Jeffrey Martin⁴

Department of Dermatology, Harvard Medical School, Massachusetts General Hospital, Boston, MA, United States, Centre for Evidence-Based Health Care, Faculty of Medicine and Health Sciences, Stellenbosch University, Tygerberg, South Africa, Centre for Evidence-Based Health Care, Faculty of Health Sciences, Stellenbosch University, Tygerberg, South Africa, Department of Epidemiology and Biostatistics, University of California at San Francisco, San Francisco, CA, United States, HIV Department, World Health Organization, Geneva, Switzerland, Department of Dermatology, University of California at San Francisco, San Francisco, CA, United States

711 Kaposi Sarcoma in the Era of Combination Antiretroviral Therapy

Natascha Wyss, Matthias Egger, Julia Bohlius, Malignancy Working Group for COHERE in EuroCoord Institute of Social and Preventive Medicine, University of Bern, Bern. Switzerland

710 Randomized Trial of Protease Inhibitor-Based Antiretroviral Therapy for Kaposi Sarcoma in

Jeffrey Martin¹, Miriam Laker-Oketta¹², Victoria Walusansa³, Jackson Orem³, John Bennett¹, Adrienne Mocello¹, Toby Maurer¹, Peter Hunt¹, Andrew Kambugu², Edward Mbidde².⁴ ¹University of California San Francisco, San Francisco, CA, United States,²Infectious Diseases Institute, Kampala, Uganda,³Uganda Cancer Institute, Kampala, Uganda,⁴Uganda Virus Research Institute, Entebbe, Uganda

708 The Effect of Protease Inhibitor Use On Kaposi Sarcoma Incidence in a cART-Experienced Cohort

Elizabeth Chiao, Marc Kowalkowski Baylor College of Medicine, Houston, TX, United States

714 Indoleamine 2,3-Dioxygenase (IDO) Activity as a Determinant of Kaposi Sarcoma in Africa

Helen Byakwaga^{1,2}, Peter W. Hunt¹, Miriam Laker-Oketta^{1,3}, David V. Glidden¹, Yong Huang¹, Mwebesa Mwebesa², Victoria Walusansa⁴, David R. Bangsberg⁵, Edward Mbidde³, Jeffrey N. Martin¹

¹University of California San Francisco, San Francisco, CA, United States, ²Mbarara University of Science and Technology, Mbarara, Uganda, ³Infectious Diseases Institute, Kampala, Uganda, ⁴Uganda Cancer Institute, Kampala, Uganda, ⁵Harvard Medical School, Massachusetts General Hospital, Center for Global Health, Boston, MA, United States

Session TD12 Themed Discussion

1:30 PM - 2:30 PM Ballroom A

Pulmonary Complications of HIV Infection

Discussion Leader

Marshall J. Glesby, Weill Cornell Medical College, New York, NY, United States

775 HIV Infection and Related Biomarkers Are Independent Risk Factors for Radiographic Emphysema

Engi F. Áttia¹, Matthew B. Goetz², Maria C. Rodriguez-Barradas³, David Rimland⁴, Sheldon T. Brown³, Guy Soo Hoo², Joon Kim³, Cherry Wongtrakool⁴, Kathleen Akgun³, Kristina Crothers¹ 'Medicine, University of Washington, Seattle, WA, United States,³Medicine, West Los Angeles Veterans Affairs Medical Center and David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA, United States,³Medicine, Michael E. DeBakey Veterans Affairs Medical Center and Baylor College of Medicine, Houston, TX, United States,*Medicine, Atlanta Veterans Affairs Medical Center and Emory University, Atlanta, GA, United States,*Medicine, Atlanta Veterans Affairs Medical Center and Emory University, Atlanta, GA, United States,*Medicine, Ames J. Peters Veterans Affairs Medical Center and Isan School of Medicine at Mt. Sinai, Bronx and NYC, NY, United States, *Medicine, West Haven Veterans Affairs Medical Center and Yale University, West Haven, CT, United States

776 Factors Associated With Chronic Obstructive Pulmonary Disease in a High-Risk HIV-Infected Cohort

Alain Makinson¹, Maurice Hayot², Sabrina Eymard-Duvernay³, François Raffi¹, Laurence Thirard³, Fabrice Bonnet⁵, Pierre Tattevin¹, Sophie Abgrall³, Jacques Reynes¹, Vincent Le Moing¹, ANRS EP48 HIV CHEST Study Team

'Infectious and Tropical Diseases Department, University Hospital Montpellier 1, University Hospital Montpellier 1, Pull 233, Montpellier, France, "Department of Clinical Physiology, INSERM U1046, University Hospital Montpellier, Montpellier, France," University Hospital, Montpellier 1, Montpellier, France," Infectious and Tropical Diseases Department, Nantes University Hospital, Nantes, France, "Internal Medecine and Infectious Diseases Department, University Hospital Bordeaux, INSERM U897, Bordeaux, France," Infectious Diseases and ICU, Pontchaillou University Hospital, Rennes, France, "Infectious and Tropical Diseases Department, Groupement Hospitalier Nord, Bobigny, France

773 HIV Infection Increases Risk of Acute Exacerbations of COPD

Allison A. Lambert, Gregory D. Kirk, Jacquie Astemborski, Shruti H. Mehta, M. Bradley Drummond The Johns Hopkins University, Baltimore, MD, United States

774 Association of HIV Infection and Immune Activation With Decline in Lung Function

Kristina Crothers¹, Carla V. Rodriguez¹, Cherry Wongtrakool², Guy Soo Hoo3, Joon Kim4, Sheldon T. Brown4, David Rimland2, Maria C. Rodriguez-Barradas⁵, Matthew B. Goetz³, Amy C. Justice⁶ ¹Department of Medicine, University of Washington, Seattle, WA, United States, 2 Department of Medicine, Atlanta Veterans Affairs Medical Center and Emory University, Atlanta, GA, United States,3 Department of Medicine, West Los Angeles Veterans Affairs Medical Center and David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA, United States, *Department of Medicine, James J. Peters Bronx Veterans Affairs Medical Center and and Icahn School of Medicine at Mt Sinai, New York, NY, United States, 5 Department of Medicine, Michael E. DeBakey Veterans Affairs Medical Center and Baylor College of Medicine, Houston, TX, United States, Department of Medicine, Veterans Affairs Connecticut Healthcare System and Yale University, New Haven, CT, United States

Session TD13 Themed Discussion

1:30 PM - 2:30 PM Room 304 Incidence Assays

Discussion Leader

Christine M. Rousseau, Bill and Melinda Gates Foundation, Seattle, WA, United States

1006 Performance of the Limiting-Antigen Avidity EIA for Use With Dried Blood Spot Specimens

Erin K. Rottinghaus, Trudy Dobbs, Bharat S. Parekh, Yen T. Duong

Centers for Disease Control and Prevention, Atlanta, GA, United States

1008 Incorrect Identification of Recent HIV Infection Using a LAg-Avidity Assay in Adults in the US Andrew F. Longosz¹, Ron Brookmeyer², Shruti Mehta³, Greg

Andrew F. Longosz¹, Ron Brookmeyer², Shruti Mehta³, Greq D. Kirk³, Joseph B. Margolick⁴, Joelle Brown⁵, Thomas C. Quinn^{1,6}, Susan H. Eshleman⁷, Oliver Laeyendecker^{1,6} 'Laboratory of Immunoregulation, Division of Intramural Research, National Insitutes of Health, Baltimore, MD, United States, "Department of Biostatistics, University of California Los Angeles, Los Angeles, CA, United States, "Department of Epidemiology, The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, "Department of Molecular Microbiology and Immunology, The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, "Department of Epidemiology, University of California Los Angeles, Los Angeles, CA, United States, "Department of Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD, United States," Department of Pathology, The Johns Hopkins University School of Medicine, Baltimore, MD, United States

1007 The Impact of HIV Subtype On Specificity of Cross-Sectional HIV Incidence Assays in Rakai, Uqanda

Andrew F. Longosz¹, David Serwadda²³, Fred Nalugoda³, Godfrey Kigozi³, Veronica Franco⁴, Ronald H. Gray³³, Thomas C. Quinn¹⁴, Susan H. Eshleman⁴, Oliver Laeyendecker¹⁴ VINAID, National Insitutes of Health, Baltimore, MD, United States,²Makerere University School of Public Health, Kampala, Uganda,³Rakai Health Sciences Program, Rakai, Uganda,⁴The Johns Hopkins University School of Medicine, Baltimore, MD, United States,⁵The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1005 Independent Evaluation of Predicate Incidence Assays for HIV Surveillance

Reshma Kassanjee¹, Christopher Pilcher², Sheila Keating³, Shelley Facente³, Matt Price⁴, Jeffrey Martin², Susan Little⁵, Alex Welte¹, Michael Busch³, Gary Murphy⁶, Consortium for the Evaluation and Performance of HIV Incidence Assays (CEPHIA) ¹The South African DST/NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), Stellenbosch University, Stellenbosch, South Africa.²University of California San Francisco, San Francisco, CA, United States,⁴Department of Medical Affairs, International AIDS Vaccine Initiative (IAVI), New York City, NY, United States,⁴Department of Medicine, University of California San Diego, La Jolla, CA, United States,⁶Health Public England, London, United Kingdom

Session TD14 Themed Discussion

1:30 PM - 2:30 PM Room 312

What We Learn From Bone Marrow Transplants

Discussion Leader

Paula M. Cannon, University of Southern California, Los Angeles, CA, United States

418 Impact of Systemic Cytotoxic Chemotherapy for Malignancies On HIV-1 Reservoir Persistence

Timothy J. Henrich¹, Emily Hanhauser², Jonathan Z. Li¹,
Andrea Heisey², Jeremy S. Abramson³, Ayad Hamdan⁴, Philippe
Armand⁵, Ann S. LaCasce⁵, Daniel R. Kuritzkes¹
¹Brigham and Women's Hospital, Harvard Medical School,
Cambridge, MA, United States,²Brigham and Women's Hospital,
Cambridge, MA, United States,³Massachusetts General Hospital,
Harvard Medical School, Boston, MA, United States, ¹Beth Israel
Deaconess Medical Center, Harvard Medical School, Boston,
MA, United States,⁵Dana-Farber Cancer Institute, Harvard
Medical School, Boston, MA, United States

417 Dynamics of HSPC Repopulation in Nonhuman Primates Revealed by a Decade-Long Clonal Tracking

Sanggu Kim¹, Namshin Kim², Angela Presson¹, Dong Sung An¹, Robert E. Donahue³, Irvin S. Y. Chen¹

'University of California, Los Angeles, Los Angeles, CA, United States, 'Korean Bioinformatics Center, Daejeon, Korea, Republic of; National Heart, Lung and Blood Institute, Bethesda, MD, United States

416 Targeting SIV Reservoirs via Autologous Hematopoietic Stem Cell Transplant in Rhesus Macaques

Maud Mavigner¹, Benjamin Watkins^{2,3}, Benton O. Lawson¹, Ann Chahroudi^{1,2}, Leslie S. Kean^{2,3}, Guido Silvestri¹ 'Verkes National Primate Research Center, Emory University, Atlanta, GA, United States, ²Department of Pediatrics, Emory University, Atlanta, GA, United States, ²Emory Transplant Center, Emory University, Atlanta, GA, United States

419 Modeling Functional Cure of HIV in Nonhuman Primates Using Gene-Modified Hematopoietic Stem Cells

Hans-Peter Kiem¹, Christopher W. Peterson¹, Patrick M. Younan¹, Shiu-Lok Hu², Patricia Polacino², Michael Holmes³, Philip Gregory³, Jianbin Wang³

¹Transplantation Biology, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ²University of Washington, Seattle, WA, United States, ²Sangamo Biosciences, Richmond, CA, United States

Session TD15 Themed Discussion

1:30 PM - 2:30 PM Room 311

CNS Viral Escape and Neuroinflammation in ART

Discussion Leaders

Dennis L. Kolson, University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA, United States

Scott L. Letendre, University of California San Diego, San Diego, CA, United States

447 CNS Outcomes of cART vs. cART plus Maraviroc and Raltegravir Intensification During Acute HIV

Victor Valcour¹, Serena Spudich², Napaporn Sailasuta³, Sukalaya Lerdlum⁴, James L. K. Fletcher⁵, Eugene D. M. B. Kroon⁵, Peeriya Mangyu⁵, Bonnie Slike⁵, Jerome Kim⁵, Jintanat Ananworanich⁻, on behalf of the SEARCH 010/RV254 Study Group ¹Memory and Aging Center, UCSF, San Francisco, CA, United States, ³Neurology, Yale University, New Haven, CT, United States, ³Huntington Medical Research Institutes, Pasedena, CA, United States, ¹Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, ⁵SEARCH, The Thai Red Cross AIDS Research Center, Bangkok, Thailand, ⁵US. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Springs, MD, United States, 'Faculty of Medicine, Chulalongkom University, Bangkok, Thailand

442 HIV-1 RNA Detection in CSF in ART-Treated Subjects With Incomplete Viral Suppression in Plasma

Sam Nightingale, the PARTITION Study Group Institute of Infection and Global Health, University of Liverpool, Liverpool, United Kingdom

443 CSF Viral Escape in Patients Without Neurological Disorders: Prevalence and Associated Factors

Carmela Pinnetti¹, Patrizia Lorenzini¹, Federica Forbici¹, Adriana Ammassari¹, Raffaella Libertone¹, Maria Letizia Giancola¹, Maria Rasaria Capobianchi¹, Carlo Federico Perno², Andrea Antinori¹ ¹National Institute for Infectious Disease, Rome, Italy,²University of Rome, Rome, Italy

445 Cerebrospinal Fluid Viral Blips and Persistent Escape in HIV-Infected Patients On ART

Arvid Eden¹, Lars-Magnus Andersson¹, Dietmar Fuchs², Lars Hagberg¹, Staffan Nilsson³, Bo Svennerholm¹, Aylin Yilmaz¹, Henrik Zetterberg¹, Magnus Gisslen¹

¹University of Gothenburg, Gothenburg, Sweden, ²Innsbruck Medical University, Innsbruck, Austria, ³Chalmers University of Technology, Gothenburg, Sweden

446 Mitochondrial DNA Is Associated With Inflammation and Neurocognitive Deficits in HIV Infection

Josué Pérez-Santiago¹, Sanjay R. Mehta¹, Sara Gianella¹, Rachel D. Schrier¹, Mariana Cherner¹, Susanna R. Var¹, Tyler R. C. Day¹, Miguel Ramirez-Gaona², Davey M. Smith¹³, Scott L. Letendre¹

¹Medicine, University of California San Diego, La Jolla, CA, United States, ²Bloinformatics, University of Alberta, Edmonton, AB, Canada, ³Veterans Administration San Diego Healthcare System, San Diego, CA, United States

444 Early Monocyte Inflammation Among Treatment-Naïve Acute HIV-Infected Thai Subjects

Lishomwa C. Ndhlovu¹, Mary Margaret Byron¹, Guangxiang Zhang⁴, Duanghathai Sutthichom³, Somprartthana Rattanamanee³, Rapee Trichavaroj⁴, Nittaya Phanuphak³, Victor Valcour⁴, Merlin Robb⁵, Jintanat Ananworanich¹ 'Hawaii Center for AIDS, University of Hawaii, Honolulu, HI, United States,³University of Hawaii, Honolulu, HI, United States,³University of Hawaii, Honolulu, HI, United States,³SEARCH, The Thai Red Cross AIDS Research Center, Bangkok, Thailand,⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand,⁵University of California San Francisco, San Francisco, CA, United States,⁵US Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States,⁵SEARCH, HIV-NAT, The Thai Red Cross AIDS Research Center, Bangkok, Thailand

POSTER SESSIONS

2:30 PM-4:00 PM

(Use the Poster Abstract section of the Program at a Glance, page 37 to 106, for specific posters in each session)

Session P-A6 HIV Entry

Session P-A7 Factor Potpourri

Session P-B3 Viral Subtype: Expansion, Migration, and Recombination

Session P-C11 CD4/CD8, Aging, and Immune Senescence

Session P-C12 Mucosal CD4 and TH17 Cells

Session P-C13 In Vitro Studies

Session P-C14 Genomics and Endogenous Retroviruses

Session P-D5 Compartmentalization

Session P-D6 New Themes in Host Control

Session P-E6	Human Vaccine Trial Results	Sessi	on P-U6	Response To Early ART Initiation in	
Session P-E7	Immune Response To Infection			Infants	
Session P-F7	Effect of ART on Persistence	Sessi	on P-U7	Co-Infections and Treatment	
Session P-F8	Immunology for Cure			Responses in Children and Adolescents	
Session P-F9	Toward A Cure	Sessi	on P-U8	Outcomes Among Adolescents –	
Session P-G7	ART Effects on HAND and CNS			Perinatally and Behaviorally Acquired	
	Reservoirs			HIV Infection	
Session P-G8	CNS Inflammation, Immune Activation,	Sessi	on P-W7	Disease Progression/Mortality	
	and HAND Biomarkers	Sessi	on P-W8	Co-Morbidities	
Session P-H4	New Clinical and Preclinical	Sessi	on P-W9	Transmission/Risk Factors	
	Formulations				
Session P-J1	RCTs in Second-Line ART and Virologic	Sessi	Session S7 Symposium		
	Failure	4:00	рм — 6:00	PM Room 304	
Session P-J2	RCTs in First-Line ART in Treatment	Inter	feron: V	Vhatever Turns You On	
	Naïve Patients				
Session P-J3	ART Simplification, Intensification, and	-		ce: This session is directed to basic,	
	Switch Studies			d clinical researchers interested in the	
Session P-K3	ART: Adherence and Retention			nechanisms of antiviral innate immunity —	
Session P-K4	Second-Line ART			th protecting against virus replication and	
Session P-K5	HIV-2			oth protecting against virus replication and	
Session P-L5	Laboratory Detection of Drug		•	cing immunopathology in the host.	
	Resistance and Tropism		Level of knowledge: It is assumed that learners are		
Session P-L6	Cost Effectiveness Studies of ART and		imiliar with the basic aspects of virology, immunology, and		
	Drug Resistance Testing	patho	pathogenesis of HIV infection and AIDS.		
Session P-N6	Acute HCV Infection: Pathogenesis	Obiec	tives: At	the completion of the session, learners will	
Session P-N7	HCV Infection and Cellular and Humoral	be able to:			
	Immune Responses	• Ro	coaniza th	e potential antiviral as well as pro-	
Session P-N8	HCV-Related Outcomes: Cardiac and	inflammatory roles of type I IFNs during HIV infection • Understand the role of type I IFNs in HIV transmission			
	Non-Liver				
	HBV and HDV			21	
Session P-N10			d pathoge		
	Cervical Cancer, HPV, and HPV Vaccine			similarities and differences of the role	
	Anal Cancer and HPV	played by type I IFNs in HIV and HCV infections			
	Antiretroviral Therapy, Lipids, and CVD	Conve	eners		
	Statins and ARV Effects in HIV	Nina Bhardwaj, Icahn School of Medicine at Mount Sinai, New York, NY,			
Session P-Q7	Renal Disease: ART, Genetic Factors,	United States Michael M. Lederman, Case Western Reserve University, Cleveland, OH, United States			
	and Long-Term Outcomes				
	Obesity: ART and Animal Models	-			
	Genetic Factors and ART Outcomes	154		vades Innate Immune Recognition	
	O ART and Suicidality			n Specific Co-Factor Recruitment	
	Cryptococcal Disease		Greg J. To	owers College London, London, United Kingdom	
Session P-R7	Ols other than TB and Cryptococcal		-		
	Disease	155		on Treatments for Chronic Hepatitis C	
Session P-S2	HIV in Women: Pregnancy, Progression,		Markus H. Heim University Hospital Basel, Basel, Switzerland		
	Pap, and Bones		-		
Session P-S3	Immune Mediators and Immune	156		ing Interferon Signaling in SIV Infection	
0 . 50.	Activation in Women		Daniel C. Douek National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States		
Session P-S4	Immune Response To Vaccination in				
0: 5 ==	HIV+ Women	157			
Session P-T7		157	Type 1 Interferon-Mediated Selective Pressure On HIV-1 Transmission Persephone Borrow		
Session P-T8	PMTCT Approaches: Implementation				
0 2 7 7 7	and Outcome			of Oxford, Oxford, United Kingdom	
Session P-T9	ART Pharmacokinetics During			, , 	

Session P-T9 ART Pharmacokinetics During Pregnancy and Breast Feeding

Session S8 Symposium

4:00 PM - 6:00 PM Room 311

The Road To Elimination: Preventing and Treating HIV Infection in Infants

Target audience: This session is directed to individuals interested in prevention of perinatal transmission and early antiretroviral therapy for HIV-exposed infants at high risk for perinatal transmission.

Level of knowledge: It is assumed that learners are familiar with pathophysiology of perinatal HIV transmission, approaches to prevention of infant infection and HIV management of pregnant and breast-feeding women. In addition, learners should have a basic understanding of manifestations and treatment of HIV infection during infancy and early childhood.

Objectives: At the completion of the session, learners will be able to:

- Describe the rationale for and implementation experience with the Option B+ approach to prevention of perinatal HIV transmission
- Identify short- and long-term effects of antiretroviral exposure during pregnancy and breast-feeding
- Recognize new approaches to early diagnosis and treatment of HIV-exposed and -infected newborns

Conveners

Dalton C. Wamalwa, University of Nairobi, Nairobi, Kenya Coceka N. Mnyani, University of the Witwatersrand, Anova Health Institute, Johannesburg, South Africa

158 Treatment of Pregnant and Breast-Feeding Women: Evidence and Rationale for Option B+ Saeed Ahmed

Baylor College of Medicine, Lilongwe, Malawi

159 Achievements and Challenges With Option B+ Implementation in the Field To Date Edward Bitarakwate

Elizabeth Glaser Pediatric AIDS Foundation, Kampala, Uganda

160 No Free Rides: Consequences of Fetal & Infant ARV Exposure Among Children Remaining HIV Uninfected

Kathleen M. Powis

Harvard Medical School, Boston, MA, United States

161 Treatment of HIV-Infected Newborns: Why, When, and What To Start?

Ellen G. Chadwick

Northwestern University, Feinberg School of Medicine, Chicago, IL, United States

Session S9 Symposium

4:00 pm – 6:00 pm Room 312 Intimate Infections: What's Love Got To Do With It?

Target audience: This session is directed to clinicians and scientists interested in sexually transmitted infections affecting HIV-infected and -at risk persons.

Level of knowledge: It is assumed that learners are familiar with basic HIV epidemiology and sexually transmitted infections

Objective: At the completion of the session, learners will be able to:

 Describe the epidemiology, clinical manifestations, association with HIV infection, and approaches to prevention and treatment of human papilloma virus (HPV), bacterial vaginosis (BV), meningococcus, and lymphogranuloma venerium (LGV)

Conveners

Christine Katlama, Pitié-Salpêtrière Hospital, Paris, France Bernard Liautaud, GHESKIO Centers, Port-au-Prince, Haiti

162 Oral Human Papillomavirus (HPV): Epidemiology and Role in Oropharyngeal Cancer
Gypsyamber DSouza

The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

163 Bacterial Vaginosis

Landon Myer
University of Cape Town, Cape Town, South Africa

164 Outbreak of Invasive Meningococcal Disease Among Men Who Have Sex With Men — New York City. 2010-2013

Alison Ridpath

New York City Department of Health and Mental Hygiene, New York, NY, United States

165 Lymphogranuloma venereum David A. Lewis

National Institute for Communicable Diseases, Johannesburg, South Africa

POSTER ABSTRACTS

Session P-A1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A

166 CDK2 But Not CDK1 Phosphorylates SAMHD1 in Primary Macrophages

Alba Ruíz¹, Eduardo Pauls¹, Ester Ballana¹, Albert Gubern², Mar Álvarez³, Luis Menéndez-Arias³, Francesc Posas², Bonaventura Clotet¹, José A. Esté¹

¹IrsiCaixa AIDS Research Institute, Hospital Germans Trias i Pujol, Universitat Autònoma de Barcelona, Badalona, Spain; °Cell Signaling Unit, Departament de Ciències Experimentals i de la Salut, Universitat Pompeu Fabra, Parc de Recerca Biomédica de Barcelona, Barcelona, Spain; °Centro de Biología Molecular Severo Ochoa, Consejo Superior de Investigaciones Científicas, Universidad Autónoma de Madrid, Madrid, Spain

167LB p21 Regulates the HIV-1 Restriction Factor SAMHD1

Alba Ruiz¹, Eduardo Pauls¹, Eva Riveira-Muñoz¹, Marc Permanyer¹, Roger Badia¹, Oliver T. Keppler², Bonaventura Clotet¹, Ester Ballana¹, **Jose Este**¹

¹AIDS Research Institute - IrsiCaixa, Badalona, Spain, ²Institute for Medical Virology, Frankfurt, Germany

168 Inhibitors of CDK2 and CDK6 Block HIV-1 RT Through the Control of SAMHD1 Activity

Ester Ballana, Roger Badia, Marc Permanyer, Eva Riveira-Muñoz, Bonaventura Clotet, Eduardo Pauls, José A. Esté IrsiCaixa AIDS Research Institute, Badalona, Spain

169 Vpx Mediated Degradation of SAMHD1 Does Not Render HSCs More Permissive To Lentiviral Gene Transfer

Duo Li¹, Erika Schlaepfer¹, Caitlin Knowlton², Baek Kim², Annette Audigé¹, Boberto Speck¹

¹Division of Infectious Diseases and Hospital Epidemiology, University Hospital of Zurich, Zurich, Switzerland, ²Center for Drug Discovery, Department of Pediatrics, Emory University, Atlanta, GA, United States

Session P-A2 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A Integration/Nuclear Import

170 BET Proteins Mediate Integration Site Selection of MLV Much Alike LEDGF/p75 in HIV Integration

Jan De Rijck¹, Christine de Kogel¹, Jonas Demeulemeester¹, Sofie Vets¹, Nirav Malani², Frederic Bushman², **Frauke Christ**¹, Rik Gijsbers¹, Zeger Debyser¹

Department of Pharmaceutical and Pharmacological Sciences, KU Leuven, Leuven, Belgium, Department of Microbiology, University of Pennsylvania, Philadelphia, PA, United States

171 Zinc-Finger Endonuclease Targeting LEDGF/p75 Inhibits HIV-1 Integration

Roger Badia, Ester Ballana, Bonaventura Clotet, José Esté IrsiCaixa AIDS Research Institute. Badalona. Spain

172 Small-Molecule Inhibits HIV-1 Replication by Interacting With HIV Capsid

Atsuko Hachiya¹², Anna Gres², Karen A. Kirby², Michailidis Eleftherios², Masami Maejima¹, Wataru Sugiura¹, Kyeongeun Lee³, Vineet KewallRamani³, Kamlendra Singh², Stefan G. Sarafianos²⁴ 'Clinical Research Center, Laboratory of Infectious Diseases, National Hospital Organization, Nagoya Medical Center, Nagoya, Japan²C. S. Bond Life Sciences Center & Department of Molecular Microbiology and Immunology, University of Missouri School of Medicine, Columbia, MO, United States; ¾HV Drug Resistance Program, National Cancer Institute, Frederick, MD, United States; Department of Biochemistry, University of Missouri, Columbia, MO, United States

173 Resistance To HIV-1 Infection in PBLs From LGMD1F Patients Carrying a Genetic Defect in TNP03

Mercedes Berméjo^{*}, Mayte Coiras^{*}, Sara Rodriguez-Mora^{*}, Elena Mateos^{*}, Ramón Marti^{*}, Juan Vilchez^{*}, Antonio Andreu^{*}, Jose Alcami^{*} 'AIDS Immunopathology Unit, Instituto de Salud Carlos III, El Centro Nacional de Microbiologia, Majadahonda, Madrid, Spain; *Research Group on Neuromuscular and Mitochondrial Disorders, Vall d'Hebron Institut de Recerca, VHIR and CIBERER, Barcelona, Spain; *Hospital Universitari i Politècnic La Fe, Department of Neurology, Universitat de Valencia, and CIBERNED, Department of Medicine, Valencia, Spain

174 HIV Integrase^{R263A/K264A} Is Defective for TRN-SR2/IN Interaction and Nuclear Import of the PIC

Stephanie Dehouwer, Jonas Demeulemeester, Wannes Thys, Zeger Debyser, Frauke Christ

Department of Pharmaceutical and Pharmacological Sciences, KU Leuven, Leuven, Belgium

Session P-A4 Poster Session Wednesday March 5, 2014, 2:30 pm-4:00 pm

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Late Events in HIV Replication

175 SHAPE-Directed Discovery of a Novel Structure in the HIV-1 RNA Polyadenylation Signal

Nathan A. Siegfried', Steven Busan', Ğreggory M. Rice', Christine E. Hajdin', Julie A. E. Nelson', Kevin M. Weeks' 'Chemistry, Univ of North Carolina at Chapel Hill, Chapel Hill, NC, United States, "UNC Center for AIDS Research and Microbiology & Immunology, Univ of North Carolina at Chapel Hill, Chapel Hill, NC, United States," United States, "Experience of the Carolina at Chapel Hill, Chapel Hill, NC, United States," of the Carolina at Chapel Hill, Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, Chapel Hill, NC, United States," of the Carolina at Chapel Hill, Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, Chapel Hill, NC, United States," of the Carolina at Chapel Hill, Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States," of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel Hill, NC, United States, "Experience of the Carolina at Chapel

176 HIV-1 Assembly On Intracellular Plasma Membrane-Connected Compartments of Human Macrophages David O. Nkwe, Annegret Pelchen-Matthews, Mark Marsh Laboratory for Molecular Cell Biology, University College London, London, United Kingdom

177 LEDGIN (ALLINI) Disruption of HIV-1 Assembly Does Not Involve LEDGF/p75

Hind J. Fadel', James Morrison', Dyana Saenz', Stephen C. Ekker', James R. Fuches', Mamuka Kwaratskhelia', Erid. Poeschla' 'Division of Infectious Diseases & Department of Molecular Medicine, Mayo Clinic, Rochester, MN, United States, Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester, MN, United States, Ohio State University Center for Retrovirus Research, Columbus, OH. United States

178 Characterization of the Interaction Between Staufen-1 With HIV-1 Rev and HERV-K(HML-2) Rec

Katharina Fiddeke, Alexander Rohde, Kirsten Hanke, Jula Wamara, Oliver Hohn, **Norbert Bannert** *HIV and Other Retroviruses. Robert Koch Institute. Berlin. Germany*

179 The Role of RNA Interference in HIV-1-Infected Primary Human Monocyte-Derived Macrophages

Valentina Vongrad¹, Jochen Imig², Pejman Mohammadi³, Shivendra Kishore¹, Lukasz Jaskiewicz', Minahale Zavolan¹, Jonathan Hall², Niko Beerenwinkel³, Huldrych F Günthard¹, Karin J Metzner¹ 'Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, Zurich, Switzerland,¹Institute of Pharmaceutical Sciences, ETH Zurich, Zurich, Switzerland,¹ETH Zurich, D-BSSE, Basel, Switzerland,¹Computational and Systems Biology, University of Basel, Basel, Switzerland

180 Induced Maturation of HIV-1 Virions

Barbara Mueller¹, Simone Mattei², Maria Anders¹, John A. G. Briggs², Hans-Georg Kraeusslich¹ Infectious Diseases, Virology, University of Heidelberg, Heidelberg, Germany, EMBL, Heidelberg, Germany

181 Interplay of Cholesterol and Env Protein in the Lytic Deformation of HIV-1 by Peptide Triazoles

R Venkat Kalyana Sundaram^{1,2}, Huiyuan Li³, Lauren Bailey⁴, A Rosemary Bastian^{2,5}, Steven Wrenn⁶, Cameron Abrams⁶, Irwin Chaiken¹

Biochemistry and Molecular Biology, Drexel University College of Medicine, Philadelphia, PA, United States, *Stonol of Biomedical Engineering, Science and Health Systems, Drexel University, Philadelphia, PA, United States, *Shared Research Facility, West Virginia University, Morgantown, WV, United States, *Biochemistry, Drexel University College of Medicine, Philadlephia, PA, United States, *Biochemistry, Drexel University College of Medicine, Philadelphia, PA, United States, *Chemical and Biological Engineering, Drexel University, Philadelphia, PA, United States

Session P-A5 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Apobec, Apobec, Apobec

182 Characterizing Novel N-Terminal Domains of APOBEC3G

Meiling R. May¹, Ann M. Sheehy²
¹College of the Holy Cross, Worcester, MA, United States, ²Biology, College of the Holy Cross, Worcester, MA, United States

183 SLBP (Stem-Loop Binding Protein) Regulates the Expression of APOBEC3G

Ming Li, Lynne Tucker, Michelle Lally, Bharat Ramratnam Alpert Medical School of Brown University, Providence, RI, United States

184 Incomplete Apobec3G Neutralization by Vif Mutations Facilitates Evolution From CCR5 To CXCR4 Use

Claudia Alteri¹, Matteo Surdo¹, Patrizia Saccomandi¹, Fabio Continenza², Daniele Armenia¹, Luca Carioti¹, Anna Artese³, Francesca Ceccherini-Silberstein¹, Carlo Federico Perno¹², Valentina Svicher¹

'Department of Experimental Medicine and Surgery, University of Rome Tor Vergata, Rome, Italy, Istituto Nazionale per le Malattie Infettive "Lazzaro Spallanzani", Rome, Italy, Department of Pharmacobiological Sciences, Magna Graecia University of Catanzaro, Roccelletta di Borgia (CZ), Italy

185 17β-Estradiol Protects Primary Macrophages Against HIV Through Induction of IFNα and APOBEC3A

Carley Tasker', Jian Ding', Mirco Schmolke², Amariliz Rivera-Medina³, Adolfo García-Sastre², Theresa Chang' Department of Microbiology and Molecular Genetics, Rutgers Biomedical and Health Sciences, Newark, NJ, United States, Department of Microbiology, Mount Sinai School of Medicine, New York, NY, United States, Department of Medicine, Rutgers Biomedical and Health Sciences, Newark, NJ, United States

186 Nuclear Import of APOBEC3F-Labeled HIV-1 Preintegration Complexes

Ryan C. Burdick, Wei-Shau Hu, **Vinay K. Pathak** *HIV Drug Resistance Program, National Cancer Institute, Frederick, MD, United States*

187 Non-Integrating HIV-1 Is Sensitive To Inhibition by Target Cell Apobec3a

Carsten Münk¹, Aikaterini Krikoni¹, Wolfgang Goering², Andre Franken¹, Daniela Marino¹, Gerald G. Schumann², Renate König⁴, Wolfgang A. Schulz², Dieter Häussinger¹

*Clinic for Gastroenterology, Hepatology and Infectiology, Heinrich-Heine University Düsseldorf, Düsseldorf, Germany, *Clinic for Urology, Heinrich-Heine University Düsseldorf, Düsseldorf, Germany, *Medical Biotechnology, Paul-Ehrlich-Institute, Langen, Germany, *Host-Pathogen-Interaction, Paul-Ehrlich-Institute, Langen, Germany

188 Degradation of SAMHD1 Specifically Decreases the Efficacy of Thymidine HIV RT Analog Inhibitors Extra Pallon - Cornel Terrodos File Blook Middle Personature

Ester Ballana, Gerard Terradas, Eva Riveira-Muñoz, Bonaventura Clotet, Eduardo Pauls, José A. Esté IrsiCaixa AIDS Research Institute, Badalona, Spain

188A Natural Resistance To HIV-1 by Select APOBEC3H Haplotypes

Eric W. Refsland", Judd F. Hultquist", Elizabeth M. Luengas', Rachel Prosser', Keith Henry', Michael Emerman', Reuben S. Harris' 'Biochemistry, Molecular Biology, and Biophysics, University of Minnesota, Minneapolis, MN, United States, "Hennepin County Medical Center, Minneapolis, MN, United States," Fred Hutchinson Cancer Research Center, Seattle, WA, United States

Session P-A6 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A HIV Entry

189 The Sphingosine-1-Phosphate Receptor 1 Dimerizes With CCR5 and Enhances HIV Infection

Charline Duquenne¹, Sandrine Gimenez¹, Adeline Guigues¹, Laurent Prézeau², Noellie Campos³, Jamal Tazi³, Pierre Corbeau¹, **Vincent François**¹

Institute of Human Genetics, CNRS, Montpellier, France, Institute of Functional Genomics, CNRS, Montpellier, France, Institute of Molecular Genetics, CNRS, Montpellier, France

190 Purinergic Receptor Antagonists as Potent Inhibitors of HIV-1 Infection by Blocking Early Entry

Talia H. Swartz, Anthony M. Esposito, Natasha D. Durham, Benjamin K. Chen

Icahn School of Mount Sinai, New York, NY, United States

191 Optical Sorting of HIV-1 Reveal the Minimum Number of Spikes Required for Optimal Viral Infectivity Wei Cheng

University of Michigan, Ann Arbor, MI, United States

192 Application of an HIV Entry Assay To Identify HIV Target Cells in the Female Genital Tract Vineet R. Joag

University of Toronto, Toronto, ON, Canada

93 Early Non-Mac-Tropic HIV-1 R5 Envs Efficiently Trans-Infect T Cells and Infect Ectocervices

Paul J. Peters¹, Olivia O'Connell¹, Thomas Musich², Maria Paz Gonzalez-Perez¹, Tiffany Moore-Simas³, Cynthia Derdeyn⁴, Paul R. Clanham¹

"Molecular Medicine, University of Massachusetts Medical School, Worcester, MA, United States, "National Cancer Institute, Bethesda, MD, United States," Obstetrics & Gynecology, UMass Memorial Medical Center, Worcester, MA, United States, "Emory Vaccine Center, Atlanta, GA, United States

194 Transmitter as Compared To Recipient Envelopes Confer Greater Replication and α467 Utilization

Victor Pena-Cruz', Behzad Eternad', Nikolaos Chatziandreou', Shannon Stock', Steven J. Reynolds', Oliver Layendecker', Ronald H. Gray^a, David Serwadda', Thomas C. Quinn', Manish Sagar' Boston University, Boston, MA, United States, 'College of the Holy Cross, Worcester, MA, United States,' The Johns Hopkins University, Baltimore, MD, United States,' Makerere University School of Public Health, Kampala, Uganda

195 Differences in HIV Receptor Activity of CXCR4

Isoforms: Consequences for X4 Strains Emergence Charline Duquennei, Christina Psomas², Sandrine Gimenez², Marie-Josée Carles³, Claudine Barbuat⁴, Jean-Philippe Lavigne³, Albert Sotto⁴, Jacques Reynes⁴, Vincent François¹, Pierre Corbeau¹ Institute of Human Genetics, CNRS, Montpellier, France, *Infectious Diseases, University Hospital, Montpellier, France, *Infectious Diseases, University Hospital, Nimes, France, *Infectious Diseases, University Hospital, Nimes, France

196 Defining Interactions of HIV With Rectal Epithelial Barriers and Rectal Mucus

Luis M. Barcena¹, Minh Dinh¹, Peter A. Anton², Thomas J. Hope¹

*Northwestem University Feinberg School of Medicine, Chicago, IL,

United States, *UCLA, David Geffen School of Medicine, Los Angeles,

CA. United States

Session P-A7 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A Factor Potpourri

197LB Platelet Factor 4 Oligomeric State Correlates With Antiviral Activity

Zahra F. Parker', Ann Rux², Fang-Hua Lee¹, Amber Riblett¹, Mortimer Ponc², Bruce Sachais¹, Robert Doms² (Microbiology, University of Pennsylvania, Philadelphia, PA, United States; Pathology, University of Pennsylvania, Philadelphia, PA, United States; Pietmatology, The Children's Hospital of Philadelphia, Philadelphia, PA, United States; Pathology and Laboratory Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA, United States; Pathology and Laboratory Medicine, The Children's Hospital of Philadelphia, Philad

198 CRM-1: A Critical Regulator of HIV Replication in a Quest Towards a Small Animal Model for HIV Hila Elinav¹, Yuanfei Wu², Ayse Coskun², Katarzyna Hryckiewicz², Iris

Richard Sutton², Ris Hu⁴, Bing Hao⁵, Choukri Ben Mamoun⁶, Eric Poeschla³, Richard Sutton²

*Clinical Microbiology and Infectious Diseases, Hadassah Hebrew University Medical Center, Jerusalem, Israel, *Infectious diseases, Yale University, New Haven, CT, United States, *Department of Molecular Medicine, Mayo Clinic, Rochester, MN, United States, *Infectious Diseases, Yale University, New Haven, CT, United States, *Molecular, Microbial and Structural Biology, University of Connecticut Health Center, Farmington, CT, United States, *Infectious diseases, Yale University, Jerusalem, CT, United States

199 Analyses of the Sequence-Function Relationships Among HIV-1 Vpr, SIVagmVpr, and SIVmacVpx Ana Beatriz DePaula-Silva, Patrick A. Cassiday, Vicente Planelles Pathology, University of Utah, Salt Lake City, UT, United States

200 Elevated Expression of Anti-HIV-1 Restriction Factors in Effector Memory CD4+ T Cells In Vivo

Mohamed Abdel-Mohsen¹, Xutao Deng², Rui Andre Saraiva Raposo¹, Terl Liegler¹, Elizabeth Sincialr¹, Rebecca Hoh¹, Douglas F. Nixon¹, Joseph K. Wong¹, Steven G. Deeks¹, Sathish K. Pillat¹ ¹University of California, San Francisco, San Francisco, CA, United States¸²Blood Systems Research Institute, San Francisco, CA, United States

201LB TRIM5alpha Determinants for the Activation of Innate Immunity

Marie-Édith Nepveu-Traversy, **Lionel Berthoux** Medical Biology, UQTR, Trois-Rivières, QC, Canada

202 HIV-1 Vpu Antagonizes Macaque and Chimpanzee BST-2 Through Cytoplasmic Domain Interactions

Takeshi Yoshida 12, Yoshio Koyanagi³, Hirofumi Akari¹, Klaus Strebel² Center for Human Evolution Modeling Research, Primate Research Institute, Kyoto University, Inuyama, Japan, 2 Laboratory of Molecular Microbiology, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, United States, 2 Laboratory of Viral Pathogenesis, Institute for Virus Research, Kyoto University, Kyoto, Japan

203 Investigating the Requirement of a NOD-Like Receptor for Early HIV Replication

Manja Burggraf¹, Prashant Jain², Crystal Shin², Nicole Esly¹, John Marlett³, John A. Young³, Sumit K. Chanda², Renate Koenig¹ 'Host-Pathogen-Interactions, Paul-Ehrlich-Institute, Langen, Germany, Sanford-Burnham Medical Research Institute, La Jolla, CA, United States 'The Salk Institute, La Jolla, CA, United States

204 ITIH4: A Cellular Factor Targeted by HIV-1 Vpr Steven Santos¹, Yong-Hui Zheng², Michael Bukrinsky¹ 'The George Washington University, NW Washington, DC, United States-*Michigan State University, East Lansing, MI, United States

Session P-B1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A Transmission Networks

205 Ongoing HIV-1 Subtype B Transmission Networks in the Netherlands

Daniela Bezemer¹, Oliver Ratmann², Ard van Sighem¹, Bas E. Dutilh³, Nuno Faria⁴, Rob van den Hengel¹, Luuk Gras¹, Peter Reiss², Frank de Wolf², Christophe Fraser², ATHENA observational cohort ¹Research, HIV Monitoring Foundation, Amsterdam, Netherlands.²Imperial College, London, United Kingdom,²Centre for Molecular and Biomolecular Informatics, Nijmegen, Netherlands,⁵University of Oxford, Oxford, United Kingdom

206 Using HIV Networks To Inform Real Time Prevention Interventions

Susan J. Little¹, Sergei L. K. Pond¹, Christy M. Anderson¹, Jason A. Young¹, Joel O. Wertheim¹, Sanjay R. Mehta¹, Susanne May², Davey M. Smith¹

¹Medicine, University of California San Diego, San Diego, CA, United States, ²Biostatistics, University of Washington School of Public Health, Seattle, WA, United States

207 Transmission Networks of HIV-1 Subtype B, CRF01_AE and CRF51_01B Among MSM in Singapore

Kim Tien Ng¹, Kah Ying Ng², Wei Xin Khong², Oliver Laeyendecker^{3,4}, Thomas C Quinn^{3,4}, Adeeba Kamarulzaman¹, Oon Tek Ng², Kok Keng Tee¹

'Centre of Excellence for Research in AIDS (CERIA), Department of Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysa, "Institude of Infectious Disease and Epidemiology, Communicable Disease Centre, Tan Tock Seng Hospital, Novena, Singapore, "Division of Infectious Diseases," The Johns Hopkins School of Medicine, Baltimore, MD, United States," Laboratory of Immunoregulation, Division of Intramural Research, National Institute of Alleryy and Infectious Disease, National Institutes of Health, Baltimore, MD, United States

208 HIV-1 Phylodynamics and Phylogeography Among High-Risk and General Populations in Uganda

Gonzalo Yebra¹, Manon Ragonnet-Cronin¹, Deogratius Ssemwanga², Chris M. Parry², Pontiano Kaleebu², Andrew J. Leigh Brown¹ ¹Institute of Evolutionary Biology, University of Edinburgh, Edinburgh, United Kingdom;⁴Research Unit on AIDS, MRC/Uganda Virus Research Institute, Entebbe, Uganda

209 Sustained Spread of HIV-1 Drug Resistance in Treatment-Naïve Patients in the United Kingdom

Jean L. Mbisa¹, Esther Fearnhill², David T. Dunn², Deenan Pillay³, David Asboe⁴, Patricia Anne Cane¹, on behalf of the UK HIV Drug Resistance Database

Virus Reference Department, Public Health England, London, United Kingdom, "Medical Research Council Clinical Trials Unit, University College London, London, United Kingdom, "Research Department of Infection, University College London, London, United Kingdom, "Directorate of HIV Medicine and Sexual Health, Chelsea and Westminister Hospital, Londond, United Kingdom

210 Transmission Clustering Among Newly Diagnosed HIV+ Patients in Chicago, 2008 To 2011

Sarah Hoehnen¹, Anna Hotton², Audrey L. French¹, Stacey Kincaid³, David Barker¹, Ronald Lubelchek¹ "Infectious Disease, Rush University Medical Center, Chicago, IL, United States, Chicago Developmental Center for AIDS Research, Chicago, IL, United States, Ruth M. Rothstein CORE Center, Chicago, Il United States

211 Can Molecular HIV Surveillance Identify Groups To Prioritize for Prevention?

Alexandra M. Oster', Joel O. Wertheim², Angela L. Hernandez', Marie C. B. Ocfemia', Neeraja Sadvuala', David Kim', H. I. Hall' *Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²ICF International and University* of California, San Diego, CA, United States, ²Division of HIV/AIDS *Prevention, ICF International, Atlanta, GA, United States*

212 Investigation of HIV Transmission Dynamics Reveals "Active" Clusters of Men Who Have Sex With Men

Philip A. Chan¹, Austin Huang³, Allison DeLong³, Joseph Hogan³, Marissa Reitsma¹, Marco Salemi¹, Rami Kantori , 'Medicine, Brown University, Providence, RI, United States,² Computer Science, Brown University, Providence, RI, United States,² Center for Statistical Sciences, Brown University, Providence, RI, United States, 'Pathology, University of Florida, Gainesville, FL, United States

- 213 HIV Transmission in the United States: The Roles of Risk Group, Race/Ethnicity, and Geography Alexandra M. Oster', Joel O. Wertheim², Angela L. Hernandez¹, Marie C. B. Octemia', Neeraja Sadvuala³, David Kim', H. I. Halli ¹ Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States; ICF International and University of California San Diego, Can Goog, CA, United States, ICF International, Atlanta, GA, United States
- 214 Risk Factor Predicts Geographic Spread Within New York City HIV-1 Transmission Network and Beyond Joel O. Wertheim', Sanjay R. Mehta', Sergi L. Kosakovsky Pond', Davey M. Smith', Lisa A. Forgiones', Lucia L. Torian' 'University of California, San Diego, San Diego, CA, United States,'New York City Department of Health and Mental Hyglene, New York, NY, United States
- 215 Large MSM Group and Local Heterosexual Transmission Are Major Concerns in the HIV Epidemic in Japan Telichiro Shilion', Kenji Sadamsuž', Junko Hattori^a, Mami Nagashima², Yasumasa Iwatani^a, Yoshiyuki Yokomaku³, Wataru Sugitura³, The Japanese Drug Resistance HIV-1 Surveillance Network *Infectious Diseases Surveillance Center, National Institute of Infectious Diseases, Tokyo, Japan,²Tokyo Metropolitan Institute of Public Health, Tokyo, Japan,²Clinical Research Center, Nagoya Medical Center, Nagoya, Japan

Session P-B2 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Application of NGS To Viral Profiling

216 Full-Length HIV-1 Haplotype Reconstruction From Heterogeneous Virus Populations

Armin Töpfer¹², Francesca Di Giallonardo³.4, Melanie Rey⁵, Sandhya Prabhakaran³, Yanik Dupor¹³, Christine Leemann³, Huldrych F. Günthard³, Volker Roth³, Niko Beerenwinkel¹², Karin J. Metzner³ ¹D-BSSE, ETH Zurich, Basel, Switzerland, 'SiB Swiss Institute of Bioinformatics, Basel, Switzerland, 'University of Zurich, Zurich, Switzerland, 'University of Basel, Basel, Switzerland'

217 Limited HIV-1 Superinfection in Seroconvertors From the CAPRISA 004 Microbicide Trial

Andrew Redd', Caroline Mullis², Daniel Sheward³, Carolyn Williamson³, Lise Werner¹, Nigel Garrett⁴, Stephen Porcella⁵, Quarraisha Abdool Karim⁴, Thomas Quinn¹, Salim Abdool Karim⁴, TRAPS Study Team

NIAID, Baltimore, MD, United States, The Johns Hopkins, Baltimore, MD, United States, University of Cape Town, Cape Town, South Africa, *CAPRISA, Durban, South Africa, *NIAID, Hamilton, MT, United States

218 Analysis of PCR Bias Using Primer IDs and Illumina Sequencing of HIV RNA Populations

Valerie F. Boltz¹, Wei Shao², Mary F. Kearney¹, John W. Mellors³, Frank Maldarelli¹, John M. Coffin⁴

Drug Resistance Program, National Cancer Institute, Frederick, MD, United States, *Advanced Biomedical Computing Center, Leidos Biomedical Research, Inc., Frederick, MD, United States, *Division of Infectious Disease, University of Pittsburgh, Pittsburgh, PA, United States, *Department of Molecular Biology and Microbiology, Tufts University, Boston, MA, United States

219 HIV Surveillance and Parallel Virome Analysis Using Unbiased Next-Generation Sequencing

Ka-Cheung Luk¹, **Michael Berg**¹, Samia Nacacche², Scot Federman², Charlotte Ngansop³, Dora Mbanya³, Lazare Kaptue⁴, Charles Y. Chiu², John Hackett¹

Abbott Diagnostics, Abbott Park, IL, United States, University of California, San Francisco, San Francisco, CA, United States, Universite de Yaounde, Yaounde, Cameroon, Universite des Montagnes, Bangangte, Cameroon

220 Primer ID Deep Sequencing of HIV-1 env Region To Reveal Genetic Structure of Viral Population Shuntai Zhou', Maria Bednar', Christa Sturdevant'. Serena Spudich', Richard Price', Ronald Swanstrom'. Serena Spudich', Richard Price', Ronald Swanstrom'. Serena Spudich', Richard Price', Ronald Swanstrom'. Serolina at Chapel Hill, Chapel Hill, NC, United States, Department of Mourology, Chapel Hill, NC, United States, Department of Neurology, Vale University, New Haven, CT, United States, "Department of Neurology, University of California at San Francisco, San Francisco, CA, United States, "UNC Center For AIDS Research, University of North Carolina at Chapel Hill, Chapel Hill, Chapel Hill, Cy, United States, "Department of Biochemistry and

221 Using RNASeq To Characterize Viral Genetic Diversity in a Cohort of HIV-2 Monoinfected Individuals Katherine L. James¹, Louis-Marie Yilndom¹, Thushan De Silva², Shokouh Makvandi-Nejad¹, Stephen Taylor³, Hilton Whittle⁴, Tim Vincent⁵, Gilean McVean⁵, Sarah Rowland-Jones¹ 'INDM, University of Oxford, Oxford, United Kingdom,²University of Sheffield, Sheffield, United Kingdom,³Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, United Kingdom,⁵London School of Hygiene and Tropical Medicine, London, United Kingdom,⁵Medical Council Research Unit, Fajara, Gambia,⁵Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, United Kingdom

Biophysics, University of North Carolina at Chapel Hill, Chapel Hill, NC,

222 Next Generation Sequencing of Full-Length HIV-1 env During Primary Infection

Melissa E. Laird¹, N. Lance Helpler¹, Colleen Ludka², Michael Brown³, Stephen Espitia⁴, Yan Guo², Douglas D. Richman^{1,4}, Sergei Kosakovsky Pond¹, Ellen E. Paxinos², Davey M. Smith^{1,4} "University of California, San Diego, La Jolla, CA, United States, "Applications and Collaborations, Pacific Biosciences, Menlo Park, CA, United States," Bioinformatics, Pacific Biosciences, Menlo Park, CA, United States, "Veterans Affairs San Diego Healthcare System, San Diego, CA, United States

Session P-B3

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall A Viral Subtype: Expansion, Migration, and Recombination

223 Spread of CRF33_01B and Emergence of Novel Recombinants Among People Who Inject Drugs in Malaysia

Wei Zhen Chow¹, Lai Yee Ong¹, Hui Ting Cheong¹, Nur Ezreen Syafina¹, Maryam Nabiel Al-Khannaq¹, Yutaka Takebe², Clayton Koh¹, Haider Al-Darraji¹, Adeeba Kamarulzaman¹, Kok Keng Tee¹¹¹Centre of Excellence for Research in AIDS (CERIA), Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia;²AIDS Research Center, National Institute of Infectious Diseases, Toyama, Shinjuku-Vau, Tokyo, Japan

224 AHI Detection Among People Who Inject Drugs in Russia Reveals the HIV-1 Transmission Bottleneck

Elena Dukhovlinova', Alexey Masharsky²⁻³, Sergei Verevochkin³, Olga Toussova³4, Andrey Shevchenko³-2, David Monteliorå, Irving Hoffman', William Miller³ Andrei Kozlova³, Ronald Swanstrom¹³ ¹GFAR and Lineberger CCC, University of North Carolina, Chapel Hill, NC, United States, Saint Petersburg State University, Saint Petersburg, Russian Federation, ³the Biomedical Center, Saint Petersburg, Russian Federation, ³the Biomedical Center, Saint Petersburg, Russian Federation, †Theodosius Dobzhansky Center for Genome Bioinformatics, Saint Petersburg, Russian Federation, †Laboratory for AIDS Vaccine Research and Development, Duke University, Durham, NC, United States, *Center for Infectious Diseases, University of North Carolina, Chapel Hill, NC, United States, *Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC, United States, *Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC, United States

225 Migration of HIV-1 Subtypes in East Africa Is Associated With Proximity To Highway Corridor

Nuno R. Faria¹, Kim C. E. Sigaloff², David A. M. C. van de Vijver³, Andrew J. Tatem⁴, Andrea C. Pineda⁵, Carolle L. Wallis⁴, Marc A. Suchard⁷, Tobias F. Rinke de Wit², Raph L. Hamers², Philippe Lemey⁵, Nicaise Ndembi⁸

Toepartment of Zoology, University of Oxford, Oxford, United Kingdom, Department of Global Health, PharmAccess Foundation, Academic Medical Center of the University of Amsterdam, Amsterdam, Netherlands, Department of Virology, Erasmus Medical Center, Rotterdam, Netherlands, Department of Geography and Environment, University of Southampton, Southampton, United Kingdom, Department of Microbiology and Immunology, Rega Institute for Medical Research, Leuven, Belgium, Lancet Laboratories, Johannesburg, South Africa, Department of Biomathematics and Human Genetics, David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States, "Institute of Human Virology, Baltimore, MD, United States

226 Ongoing Cross-Species Transmission of Simian Retroviruses and High HIV Prevalence in Cameroon Julius Chia¹², Avelin Aghokeng¹², Emilande Guichet², Ahidjo Ayouba², Steve Ahuka-Mundeke³, Nicole Vidal², William Switzer³, Eric Delaporte², Eitel Mpoudi Ngole¹, Martine Peeters² 'Projet PRESICA and IMPM/CREMER, Yaoundé, Cameroon,²IRD, Montpellier, France³Centers for Disease Control and Prevention,

227 An Emerging HIV-1 Recombinant (CRF58_01B) Disseminating Among People Who Inject Drugs in Malaysia

Wei Zhen Chow', Yutaka Takebe², Nur Ezreen Syafina¹, Malarvelli Soorya Prakasa¹, Haider Al-Darraji¹, Clayton Koh¹, Adeeba Kamarulzaman¹, Kok Keng Tee¹

¹Centre of Excellence for Research in AIDS (CERIA), Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia, ²National Institute of Infectious Diseases, AIDS Research Center, Toyama, Shinjuku-Yu, Tokyo, Japan

228 Exploring the Hidden Interrelationship of HIV-1 Epidemics in Asia and Beyond

Yutaka Takebe1, Makiko Kondo2

Atlanta, GA, United States

¹AIDS Research Center, National Institute of Infectious Diseases, Tokyo, Japan, ²Department of Microbiology, Kanagawa Prefectural Institute of Public Health, Chigasaki, Japan

229 CRF01_AE and Subtype B Transmission Networks Cross Over; A New AE-B Recombinant Emerges in Japan

Masumi Hosaka¹, Seiichiro Fujisaki², Junko Hattori¹, Teiichiro Shiino², Atsuko Hachiya¹, Masakazu Matsuda¹, Yasumasa Iwatani¹.³, Yoshiyuki Yokomaku¹, Wataru Sugiura¹.³

¹National Hospital Organization Nagoya Medical Center, Nagoya, Japan, ²National Institute of Infectious Diseases, Tokyo, Japan, ²Nagoya Graduate School of Medicine, Nagoya, Japan

230 Phylodynamic Analysis of a Regional HIV Epidemic Jeffrey B. Joy, Richard Liang, Conan K. Woods, Susan Shurgold, Guillaum Colley, Chanson Brumme, Robert S. Hogg, Julio S. G. Montaner, P. Richard Harrigan, Art F. Y. Poon Medicine, BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada

Session P-C1 Poster Session Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall A The Gut and Lymph Nodes in HIV Pathogenesis

231 Damage of Gut Junctional Complexes Features HIV-Infected Immunological Non Responders

Camilla Tincati', Giuseppe Ancona', Paola Braidotti', Delfina Tosi', Federica Savi¹, Elisa Borghi¹, Alessandra Barassi¹, Esther Merlini¹, Nicolas Chomont², Giulia Marchetti¹

¹Department of Health Sciences, University of Milan, Milan, Italy, ²Vaccine and Gene Therapy Institute, Port St. Lucie, FL, United

232 Gut Homing and HIV-1 Permissiveness Are Specifically Regulated by Retinoic Acid in Ccr6+ T-Cells

Delphine Planas^{1,2}, Sandrine Da Fonseca^{1,2}, Jean-Philippe Goulet³, Annie Gosselin¹, Aurélie Cléret-Buhot^{1,2}, Mohammad-Ali Jenabian⁴, Jean-Pierre Routy^{5,6}, Petronela Ancuta^{1,2}

¹CHUM-Research Center, Montréal, QC, Canada, ²Department of Microbiology, Infectiology, and Immunology, Université de Montréal, Montréal, QC, Canada, ³CATRAGENE, Montréal, QC, Canada, ⁴McGill University Health Center, Montréal, QC, Canada, ⁵Division of Hematology, McGill University Health Center, Montréal, QC, Canada, ⁵Immunodeficiency Service, McGill University Health Center, Montréal, QC, Canada

233 Dysregulated Gut Dendritic Cells Correlate With T-Cell Activation During Untreated HIV Infection

Stephanie M. Dillon¹, Eric J. Lee¹, Gregory L. Austin¹, Sara Gianella², Davey M. Smith², Basile Siewe³, Alan L. Landay³, Cara C. Wilson¹ 'University of Colorado AMC, Aurora, CO, United States, ²University of California San Diego, La Jolla, CA, United States, ³Rush University Medical Center, Chicago, IL, United States

234 HIV-1 RNA+ Cells Are Concentrated in the Germinal Centers of Activated Lymph Nodes In Vivo

Tessa Arends¹, Joy Folkvord¹, Martin McCarter¹, Amie Meditz², Elizabeth Connick¹

¹University of Colorado Anschutz Medical Campus, Aurora, CO, United States, ²Boulder Community Hospital, Boulder, CO, United States

235 Duodenal and Rectal Mucosa Immune Reconstitution Differ After ART Initiation

Talia Sainz¹, Sergio Serrano-Villar², Anthony Albanese³, Tammy Yotter¹, Paolo Troia-Cancio¹, Darin Lartimore⁴, Steve Deeks³, Elizabeth Sinclair³, Vera Go⁴, David Asmuth³ "Molecular Immune-Biology Laboratory, Hospital General Universitario Gregorio Marañón, Madrid, Spain-Înfectious Diseases Department, Hospital Universitario Ramon y Cajal, Madrid, Spain,³Veterans Administration Northem California Health Care System, Sacramento, CA, United States, *University of California Davis Medical Center,

Sacramento, CA, United States, UCSF, San Francisco, CA, United States, UCSP CA, United States, SuCDMC and VANCHCS, Sacramento, CA, United States

336

Gut Microbiota of HIV Infected Subjects Induce Inflammatory Cytokines But Not T Regulatory Cells Charles P. T. Neff, Andrew Fontenot, Catherine Lozupone, Brent

Allergy and Clinical Immunology, University of Colorado, Aurora, CO, United States

Session P-C2 Poster Session Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall A

Immune Activation and Pathogenesis 264LB An SMS Intervention To Improve HIV Linkage To Care: A Randomized, Comparative Effectiveness Trial

Mark J. Siedner¹, Data Santorino², Alexander J. Lankowski³, Michael Kanyesigye⁴, Bosco Mwebesa Bwana⁴, Jessica E. Haberer¹, David R. Banosbero¹

'Medicine, Massachusetts General Hospital, Boston, MA, United States, 'Mbarara Univeristy of Science and Technology, Mbarara, Uganda, 'University of Philadelphia, Philadelphia, PA, United States, 'Mbarara University of Science and Technology, Mbarara, Iloanda

265 CD4 T-Cell Responses in Relationship With Immune Activation and Viral Load in Primary HIV Infection Mathieu F. Chevalier¹, Céline Didier¹, Gaël Petitjean¹, Pierre-Marie

Mathieu F. Chevalier¹, Céline Didier¹, Gaël Petitjean¹, Pierre-Marie Girard², Françoise Barré-Sinoussi¹, Daniel Scott-Algara¹, Laurence Weiss^{3,4}

¹Institut Pasteur, Paris, France,²AP-HP, Hôpital Saint-Antoine, Paris, France,³Université Paris Descartes, Paris, France,⁴AP-HP, Hôpital Européen Georges Pompidou, Paris, France

266 Herpesvirus Infections in HIV+ Individuals On ART Are Not Associated With Immune Activation

Bernard J. Macatangay¹, Yue Chen², Arlene Bullotta², Aarika Yates², Eric Fialkovich², Luann Borowski², William Buchanan², Phalguni Gupta², Charles Rinaldo²

¹Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ²Infectious Disease and Microbiology, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States

267 Chronic Inflammation in HIV-1 Infected Individuals Reduces T-Cell Responsiveness To Vaccines Jean Boyer', Lorenzo Ramirez', Ian Frank², Pablo Tebas²

Jean Boyer¹, Lorenzo Ramirez¹, lan Frank², Pablo Tebas²

¹University of Pennsylvania, Philadelphia, PA, United States, ²Hospital of the University of Pennsylvania, Philadelphia, PA, United States

268 Persistently Activated CD27+CD80+ B Cells Following ART Correlate With Macrophage Activation

Stephanie N. Hudey¹, Bret J. Rudy², Xinrui Zhang³, Susan Lukas⁴, Maureen Goodenow³, John Sleasman⁵

"University of South Florida Morsani College of Medicine, Tampa, FL, United States," New York University School of Medicine, New York City, NY, United States, "University of Florida, Gainesville, FL, United States, "University of South Florida Morsani College of Medicine, St. Petersburg, FL, United States," Duke School of Medicine, Durham, NC, United States.

269 Novel Exosomal HIV miRNAs may Contribute To Chronic Immune Activation

Mark A. Bernard, Simon C. Yue, Asha Anandaiah, Henry Koziel, Souvenir D. Tachado

Division of Pulmonary, Critical Care and Sleep Medicine, Beth Israel Deaconess Medical Center, Boston, MA, United States

270LB Interleukin-21 Reduces Residual Immune Activation in ART-Treated SIV-Infected Rhesus Macaques

Luca Micci¹, Emily Ryan¹, Colleen McGary¹, Sara Paganini¹, Guido Silvestri¹, Jason Brenchley², Francois Villinger¹, **Mirko Paiardini**¹ 'Department of Microbiology and Immunology, Emory University, Atlanta, 6A, United States, ²NIH-INIAID, Bethesda, MD, United States

271 Immune Activation and Risk of HIV-1 Transmission Among HIV-1 Serodiscordant Couples

Erin M. Kahle¹, Michael Bolton², James Hughes¹, Deborah Donnell², Connie Celum¹, Jairam Lingappa¹, Allan Ronald³, Guy de Bruyn⁴, Julie McElrath², Jared M. Baeten¹

¹University of Washington, Seattle, WA, United States, ²Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ³University of Makerere, Kampala, Uganda, ⁴University of Witwatersrand, Johannesburg, South Africa

272 Inflammation in Acute HIV Infection Correlates With Blood and Gut CD4 T-Cell Loss and Viral Burden

Netanya G. Sandler', Jintanat Ananworanich^{2,3}, Suteeraporn Pinyakorn^{2,3}, Adam Rupert', Alexandra Schuetz², James L. K. Fletcher², Daniel C. Douek⁶, Nicholas Chomont⁷, Jerome H. Kim⁸, Irini Sereti⁹

Internal Medicine, University of Texas Medical Branch at Galveston, Galveston, TX, United States, SEARCH, The Thai Red Cross AIDS Research Center, Bangkok, Thailand, HIV-NAT, The Thai Red Cross AIDS Research Center, Bangkok, Thailand, AIDS Monitoring Laboratory, Leidos Biomedical Research, Inc., Frederick, MD, United States, Armed Forces Research Institute of Medical Sciences – US Component, Bangkok, Thailand, NIAID Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States, Vaccine and Gene Therapy Institute Florida, Port St. Lucie, FL, United States, Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, "NIAID, National Institutes of Health, Bethesda, MD, United States."

Session P-C3 Poster Session Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall A NK Cells in HIV Pathogenesis

273 NK Cell Subsets Responding To HIV-Infected Autologous CD4 T Cell in Protective KIR/HLA Genotypes

Irene Lisovsky^{1,2}, Rujun Song^{2,3}, Bertrand Lebouché⁴, Jean-Pierre Routy^{1,5}, Julie Bruneau⁶, Nicole F. Bernard^{2,7}

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274 Siglec-7 Binds HIV-1 GP120 and Facilitates Infection of CD4pos T Cells and Macrophages

Stefania Varchetta', Paolo Lusso², Dalila Mele¹, Stefania Paolucci¹, Raffaello Cimbro², Mauro Malnati³, Agostino Riva⁴, Renato Maserati¹, Mario U. Mondelli¹, **Domenico Mavilio**⁵

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275 Monocyte and NK Cell Dysfunctional Responses To Mycobacteria During Chronic HIV-1 Infection

Melanie A. Gasper¹², David R. Sherman¹, Donald L. Sodora¹
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States, Pathobiology Graduate Program, University of Washington,
Seattle, WA, United States

276 Identification of a New Isoform of MLL5: A Surrogate Marker of the CD4 Depletion in HIV-1

Vincent Vieillard¹, Florence Baychelier¹, Alexis Sennepin¹, Myriam Ermonval², Karim Dorgham¹, **Patrice Debre**¹ INSERM UMR-S 945, Paris, France, Département de Virologie, Institut Pasteur, Paris, France

277 Do KIR3DL1/HLA-B Combinations Influence ADCC Responses of HIV-1 Infected Slow Progressors?

Gamze Isitman^{1,2}, Zoya Padamsi^{1,2}, Pilar Zanoni^{1,2}, Matthew Parsons³, Marianne Harris⁴, Jean-Pierre Routy^{1,5}, Cecile L. Tremblay⁶, Nicole F. Bernard^{1,2}

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278 CD8+ NK Cells in HIV-1 Infection Are Associated With Slower Disease Progression Towards AIDS

Fareed Ahmad¹, Henoch S. Hong^{1,2}, I-Na Lu¹, Marc Jäckel³, Nupur Bhatnagar¹, Johanna M. Eberhardt¹, Benjamin A. Bollmann¹, Reinhold E. Schmidt¹, Dirk Meyer-Olson^{3,4}

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Session P-C4 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A CD8 T-Cell Pathogenesis

279 HLA-B*35:05 Is a Protective Allele With a Unique Structure Amongst CRF01_AE-Infected Thais.

Masahiko Mori^{1,2}, Nuanjun Wichukchinda³, Reiko Miyahara¹, Archawin Rojanawiwat³, Panita Pathipvanich⁴, Tomoyuki Maekawa¹, Philip Goulder², Michio Yasunami¹, Koya Ariyoshi¹, Pathom Sawanpanyalert³

Department of Clinical Medicine, Nagasaki University, Institute of Tropical Medicine, Nagasaki, Japan, Department of Paediatrics, University of Oxford, Oxford, United Kingdom, Department of Medical Sciences, Ministry of Public Health, Nonthaburi, Thailland, Day Care Centre, Lampang Hospital, Lampang, Thailland

280 Eomes and T-Bet Are Differentially Linked To CD8+ T-Cell Exhaustion in HIV Infection

Johanna Tauriainen¹, Marcus Buggert¹, Takuya Yamamoto², Bo Hejdeman³, Richard A. Koup², Marianne Jansson⁴, Anders Sonnerborg¹, Michael R. Betts², Annika C. Karlsson¹ ¹Department of Laboratory Medicine, Institute of Clinical Microbiology, Karolinska Institutet, Stockholm, Sweden,³Immunology Laboratory, Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States,³Stockholm South General Hospital, Stockholm, Sweden,¹Department of Microbiology, Tumor and Cell Biology (MTC), Karolinska Institutet, Stockholm, Sweden,³Department of Microbiology, University of Pennsylvania, Philadelphia, PA, United States

281 Increased Frequencies of HLA-G+ HIV-1-Specific Regulatory CD8 T Cells in HIV-1 Controllers

Selena Vigano¹, Chun Li¹, Jordi Negron¹, Florencia Pereyra¹, Mathias Lichterfeld², Xu Yu¹

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282 CD8+CD28-CD127loCD39+ Treg: A New Biomarker for HIV Infection

Chiara Dentone¹², Daniela Fenoglio¹³, Alessia Parodi¹, Francesca Kalli¹, Antonio Di Biagio¹, Paolo Fraccaro⁶, Giancarlo Orofino⁶, Giovanni Cenderello¹, Mauro Giacomini¹⁵, Gilberto Filaci¹³ ¹University of Genoa, CEBR Genoa, Genoa, Italy, ²Infectious Diseases, Sanremo Hospital, Sanremo, Italy, ⁴Infectious Diseases, IRCSS San Martino Hospital, University of Genoa, Italy, ⁴Infectious Diseases, IRCSS San Martino Hospital, University of Genoa, Italy, ⁵Department of Informatics, Bioengineering, Robotic and System Engineering, DIBRIS, University of Genoa, Italy, ⁵Infectious Diseases, Amedeo di Savoia Hospital, Turin, Italy, ⁷Infectious Diseases, Galliera Hospital, Genoa, Italy

Session P-C5 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A Exhaustion Markers

283 Determinants of PD-1 Expression On CD4+ and CD8+ T Cells in Treated and Untreated HIV Disease

Leslie R. Cockerham', Vivek Jain', Elizabeth Sinclair², David V. Glidden³, Wendy Hartogenesis³, Hiroyu Hatano¹, Peter W. Hunt¹, Jeffery N. Martin³, Frederick M. Hecht¹, Steven G. Deeks¹, **IHVAIRD Sivision, University of California - San Francisco, San Francisco, CA, United States, **Division of Experimental Medicine, University of California - San Francisco, CA, Enited States, **Department of Epidemiology and Biostatistics, University of California - San Francisco, San Francisco, CA, United States

284 CD160 Is the Most Specific Co-Inhibitory Molecule Associated With CD8 T Cell Functional Impairment Selena Vigano, Riddhima Banga, Florence Bellanger, Alex Farina, Denis Comte, Giuseppe Pantaleo, Matthieu Perreau Division of Immunology and Allergy, Lausanne University Hospital, Lausanne, Switzerland

285 Expansion of TIGIT-Expressing CD8+ T Cells Persists in Virally Suppressed HIV-1 Infection

Glen M. Chew¹, Tsuyoshi Fujita¹, Ravi Tandon¹, Jeffrey N. Martin², Steven Deeks², Lishomwa C. Ndhlovu¹

¹Tropical Medicine, University of Hawaii, Manoa, Honolulu, HI, United States, ²University of California San Francisco, San Francisco, CA, United States

286 PD-1 Expression Is Associated With Preserved CD4+ T Cell Homeostasis in Viremic Non-Progressors Melicent C. Peck¹, Elizabeth Sinclair¹, Nichole R. Klatt², Lorrie

Melicent C. Peck', Elizabeth Sinclair', Nichole R. Klatt', Lorrie Epling¹, Jeffrey N. Martin³, Frederick M. Hecht¹, Steven G. Deeks¹, David Camerini⁴, Peter W. Hunt¹

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287 PD-1 Homolog Expression Regulates Spontaneous Cytokine Production in HIV Infection

Preeti Bharaj, Harendra S. Chahar, Lizette Rodarte, Ogechika Alozie, Manjunath Swamy, Premlata Shankar COEID, Texas Tech University, El Paso, TX, United States

Session P-C6 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Clades and Pathogenesis

288 HIV Virulence Has Not Increased in the UK Subtype B Epidemic

Emma B. Hodcroft¹, Jarrod Hadfield², Esther Fearnhill³, Andrew Phillips⁴, David Dunn³, Deenan Pillay⁵, Andrew Leigh Brown¹, UK HIV Drug Resistance Database

*Institute of Evolutionary Biology, University of Edinburgh, Edinburgh, United Kingdom, *Department of Soology, University of Oxford, Oxford, United Kingdom, *MRC Clinical Trials Unit, London, United Kingdom, *Infection and Population Health, University College London, London, United Kingdom, *Besearch Department of Infection, University College London, London, United Kingdom

289 Subjects Infected With Clade C-Containing HIV Exhibit Higher CD4+ T Cell Activation

Priscilla R. Costa¹, Wendy Hartogensis², Ricardo S. Diaz¹, Peter Bacchetti², Rick Hecht², Breno R. Santos³, AMPLIAR study team, Esper G. Kallas¹, **Chris Pilcher**²

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Session P-C7 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A

Correlative Marker Studies

290 Telomere Length Predicts Immunological Recovery in Older HIV Patients Treated With cART Jose-Ramon Blanco¹, Inmaculada Jarrin², Alfredo Martinez², Eva

Siles⁴, Ana Cañuelo⁴, Felix Gutierrez², Jorge del Romero⁸, Jesus Santos⁷, Santiago Moreno⁸, CoRIS

¹Hospital San Pedro-CIBIR, Logroño, Spain, ²ISCIII, Madrid, Spain, ³Oncologia-CIBIR, Logroño, Spain, ³Department of Experiment Pedros Cubis Standard Clark Constitution of Constitution

Spain, ³Oncologia-ClBIR, Logroño, Spain, ³Department of Experimental Biology, University of Jaen, Jaen, Spain, ⁵Hopital Elche, Elche, Spain, ⁶Sandoval, Madrid, Spain, ⁷Hospital Virgen de la Victoria, Malaga, Spain, ⁸Hospital Ramón y Cajal, Madrid, Spain

291 The Clinical Impact of Viral Load Copy Years in Antiretroviral-Naïve HIV Seroconverters

Matthias an der Heiden¹, Alexander Zoufaly², Caroline Sabin³, Jan van Lunzen⁴, Hans-Jürgen Stellbfink⁵, Barbara Gunsenheimer-Bartmeyer¹, Philippe Vanhems⁵, Santiago Perez-Hoyos³, Geneviève Chêne³, Osamah Hamouda¹, on behalf of CASCADE Collaboration in FuroCoord

Infectious Disease Epidemiology, Robert Koch-Institute, Berlin, Germany, Universitätsklinikum Hamburg-Eppendorf, Hamburg-Germany, Juniversitätsklinikum Hamburg-Eppendorf, Hamburg, Germany, Institute of Epidemiology & Health, University College London, London, United Kingdom, Infektiologie, Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany, Infection Control, Centre Hospitalier Universitäte de Lyon, Lyon, France, Servei de Medicina Preventiva i Salut Pública, Institut de Recerca Hospital Vall Hebrin, Barcelona, Spain, Institut de Santé Publique, d'Épidémiologie et de Développement, Université Victor Segalen Bordeaux 2, Bordeaux, France

192 Interleukin-32: Expression, Interaction With IFN, and Clinical Significance in HIV-1 Infection Carolina Scagnolari¹, Katia Montenleone¹, Carla Selvaggi¹,

Francesca Falasca', Pierluigi Di Maio', Ivano Mezzaroma², Gabriella d'Ettorre³, Ombrietta Turriziani', Guido Antonelli' 'Molecular Medicine, Sagienza University of Rome, Rome, Italy, Department of Clinical Medicine, Sagienza University of Rome, Rome, Italy, Department of Public Health and Infectious Diseases, Sagienza University of Rome, Rome, Italy

293 TNFα in Viral Control and Early Disease Progression in Patients With HIV-1 Infection

Sagar A. Vaidya¹², Christian Korner¹, Michael Sirignano¹, Molly Amero¹, Sue Bazner², Jenna Rychert², Todd Allen¹, Eric S. Rosenberg², Ronald J. Bosch³, Marcus Altfeld^{1,4}

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294 Monocyte Activation Markers in HIV Infected Subjects: A Biomarker for HIV Immunotherapy

Journana Zeidan¹, Elizabeth Sinclair², Gary Lee³, Shelley Wang³, Martin Giedlin³, Geoff Nichol³, Winson Tang³, Steven Deeks², Dale Ando³, Rafick-Pierre Sekaly¹

VGTI Florida, Port St. Lucie, FL, United States, 2UCSF, San Francisco, CA, United States, 3Sangamo BioSciences, Richmond, CA, United States

295 Down-Regulation of CD39/CD73 On B Cells of HIV Patients Coincides With a Disturbed Ig Class Switch

Eun-Seong Kim¹, Ilona Tòth¹, Claudia Beisel¹, Johanna Eberhard¹, Silke Kummer¹, Ansgar W. Lohse¹, Friedrich Haag², Jan van Lunzen¹, Julian Schulze zur Wiesch¹

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Session P-C8 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Elite Controllers

296 Transcriptional Signatures of CD4 T Cell Subsets and Control of HIV Reservoirs in Elite Controllers

Adele de Masson¹, Amos Kirilovsky¹, Rima Zoorob¹, Veronique Avettand-Fenoel², Veronique Morin¹, Anne Oudin¹, Benjamin Descours¹, Christine Rouzioux², Brigitte Autran¹, the ALT ANRS-Co15 Study Group

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298 Elite Suppressor CD4+ and CD8+ T Cells Suppress Viral Replication in Monocyte-Derived Macrophages Victoria E. K. Walker-Sperling¹, Robert W. Buckheit², Robert F. Siliciano³⁴, Joel N. Blankson³

¹Immunology Graduate Program, The Johns Hopkins School of Medicine, Baltimore, MD, United States, ³National Cancer Institute, Frederick, MD, United States, ³Department of Medicine, The Johns Hopkins School of Medicine, Baltimore, MD, United States, ⁴Howard Hughes Medical Institute, Chevy Chase, MD, United States

299 Effective Control of Virus Replication in HIV-1 Elite Controllers by Active SAMHD1

Eduardo Pauls¹, Alba Ruiz¹, Beatriz Mothe¹, Manel Crespo², Menéndez-Arias Luis³, Bonaventura Clotet¹, Oliver T. Keppler⁴, Francesc Posas⁵, Christian Brander¹⁵, José A. Esté¹¹IrsiCaixa AIDS Research Institute, Hospital Germans Trias I Pujol, Universitat Authonoma de Barcelona, Badalona, Spain,³Infectious Diseases, Hospital Universitari Vall d¹Hebron, Barcelona, Spain,³Centro de Biología Molecular Severo Ochoa, Consejo Superior de Investigaciones Cientificas, Universidad Autónoma de Madrid, Madrid, Spain,⁴Institute of Medical Virology, University of Frankfurt, Frankfurt, Germany,⁵Cell Signaling Unit, Departament de Ciències Experimentals i de la Salut, Universitat Pompeu Fabra, Parc de Recerca Biomèdica de Barcelona, Barcelona, Spain,⁵Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

Session P-C9 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Pathogenesis: Insights From Clinical Trials

300 Effect of Raltegravir Intensification in the Cytokine Profile of Treated HIV+ Individuals

Marta Massanella¹, Josep M. Lilbre², Silvia Marfii¹, Maria C. Puertas², Jordi Puig², Eugènia Negredo², Douglas D. Richman⁴.5°, Javier Martinez-Picado³, Bonaventura Clotet²-3, Julià Blanco³ ¹Pathology, University of California San Diego, La Jolla, CA, United States; L'luitra contra la Sida Foundation, Badalona, Spain; AIDS Research Institute IrsiCabia, Institut d'Irlevestigació en Cibronies de la Salut Germans Trias i Pujol, IGTP, Badalona, Spain; *University of California San Diego, La Jolla, CA, United States, *Veterans Affairs San Diego Healthcare System, La Jolla, CA, United States

301 Analyses of HIV-1 Viral Dynamics During Treatment With a Regimen Including an Integrase Inhibitor Jeremie Guedj', Ruy Ribeiro², Adriana Andrada³, Susan L. Rosenkranz², Darlene Lu³, Douglas Richman³, Mathew Strain³, John Mellors', Daniel R. Kuritzkes³, Alan S. Perelson² 'UMR-0738, INSERM, Paros, France,² Theoretical Biology and Biophysics, Los Alamos National Laboratory, Los Alamos, IM, United States,³ The Johns Hopkins University, Baltimore, MD, United States, 'Center for Biosctatistics, Harvard School of Public Health, Boston. MA, United States *Center for Biostatistics in AIDS

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302 Characterization of Functional Profile of HIV-Specific CD4+ T Cells in VISCONTI Group of Patients

Assia Samri¹, Charline Bacchus¹, Laurent Hocqueloux², Asier Saez-Cirion³, Amandine Emarre¹, Christine Rouzioux⁴, Brigitte Autran¹, and VISCONTI ANRS Study

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303 Immune Activation and Defective pTFHs Are Associated With Impaired Immunity in Aging HIV+ Persons Varghese K. George¹, Suresh Pallikkuth¹, Anita Parmigiani², Maria L.

Alcaide¹, Margaret Fischl¹, Savita Pahwa¹

*Microbiology and Immunology, University of Miami, Miami, FL,
United States; *Human & Molecular Genetics, Virginia Commonwealth
University, Richmond, I/A, United States

304 Fresh Cohort: Acute HIV-1 Infection in Cohort of High Risk HIV Negative Women in KZN, South Africa Krista Dong 12, Amber Moodley 1, Thumbi Ndungu 13, Bruce Walker 14, 18 Agon Institute, Massachussetts General Hospital, Boston, MA, Unite Chap State of Hospital Conduction Company (All Infection Conduction)

'Ragon Institute, Massachussetts General Hospital, Boston, MA, United States,'Harvard Medical School, Boston, MA, United States,'University of KwaZulu-Natal, Durban, South Africa,'The Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States

305 Vitamin D Significantly Changes the Immune Transcriptome and Augments CD4 Recall Responses in HIV

Raskit Lachmann¹, Margaret-Anne Bevan², Sangmi Kim¹, Nishma Patel¹, Riddhima Banga¹, Nagasuma Chandra³, Sudha Rao¹, Catherine Hawrylowicz², Annapurna Vyakarnam¹, Barry Peters¹ Infectious Diseases, Kings College London, London, United Kingdom², GU Medicine and HIV, Guys and St Thomas¹ Hospital Trust, London, United Kingdom², Indian Institute of Science, Bangalore, India,⁴Genotypic Technology Limited, Bangalore, India,⁴Division of Asthma, Allergy & Lung Biology, Kings College London, London, United Kingdom², Indian I

306 Impact of Methamphetamine Use On Immunologic and Virologic Markers During Suppressive ART

Marta Massanella¹, Sara Gianella¹, Douglas D. Richman^{1,2}, Susan J. Little¹, Constance B. Benson¹, Eric S. Daar³, Michael D. Dube⁴, Richard H. Haubrich¹, Davey M. Smith^{1,5}, Sheldon R. Morris¹, the CCTG 597 Team

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307 Vitamin D-Receptor Gene Polymorphisms: Association With Virologic Failure and Mortality

With Virologic Failure and Mortality
Simbarashe Takuva^{1,2}, Lynne McNamara³, Tobias Chirwa⁴, lan
Sanne³, Adrian R. Martineau⁵, Patrick A. MacPhail³
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Johannesburg, South Africa, *Barts and the London School of Medicine
and Dentistry, Queen Mary University of London, London, United
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308 Statins Use Is Associated With Greater CD4 Gains in HIV-Infected US Veterans

Henning J. Drechsler^{1,2}, James Cutrell^{1,2}, Pablo Tebas³, Roger Bedimo^{1,2}

¹Medicine, North Texas VA Health Care System, Dallas, TX, United States, ³Medicine, UT Southwestern School of Medicine, Dallas, TX, United States, ³Medicine, University of Pennsylvania, Philadelphia, PA, United States

309 Maraviroc Intensification in HIV-Infected Patients Induces Increased CCRS Expression On T Cells

Assia Samri¹, Gael Mouillot¹, Christina Psomas², Melanie Lavenu¹, Selma Trabelsi³, Lise Cuzin⁴, Pierre Corbeau⁵, Brigitte Autran¹, Philippe Flandre³

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Session P-C10 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Innate Immunity and Pathogenesis

237 CD161+Vα7.2+IL18R+ MAIT Cells Are Reduced in HIV Infection Regardless of the Disease Status

Johanna M. Eberhard¹, Philip Hartjen¹², Ashwin Balagopal³, Clara Lehmann⁴, Dominik Ebert¹, Ilona Töth¹, Silke Kummer¹, Reinhold E. Schmidt⁵, Jan van Lunzen¹, Julian Schluze zur Wiesch¹ ¹Infectious Diseases Unit, University Medical Center Hamburg-Eppendorf, Hamburg, Germany; ¹Department of Oral and Maxillofacial Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany; ³Department of Medicine, The Johns Hopkins University, Baltimore, MD, United States, ¹Department of Medicine, University Medical School, Cologne, Germany; ³Clinic for Immunology and Rheumatology, Hannover Medical School, Hanover, Germany

238 HIV-1 Alters Plasmacytoid Dendritic Cell Phenotype and Function by Modulating ILT Receptors

Adel Benlahrech, Amina Yasmin, Peter Kelleher, Nesrina Imami, Steven Patterson

Immunology, Imperial College London, London, United Kingdom

239 Innate Immune Reconstitution With Viral Suppression in HIV-1 Infection

Eileen Scully^{1,2}, Ainsley Lockhart¹, Chelsey Musante¹, JJ Chang¹, Molly Amero¹, Eric Rosenberg², Ronald J. Bosch⁴, Marcus Altidl^{1,5} 'Hagon Institute of MGH, MIT and Harvard, Cambridge, MA, United States, Division of Infectious Disease, Brigham and Women's Hospital, Boston, MA, United States, Division of Infectious Disease, Massachusetts General Hospital, Boston, MA, United States, Center for Biostatistics in AIDS Research, Havard School of Public Health, Boston, MA, United States, *Heinrich-Pette-Institut, Leibniz Institute for Experimental Virology, Hamburg, Germany

Session P-C11 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A CD4/CD8, Aging, and Immune Senescence

240 CD4:CD8 Ratio Remains Significantly Depressed Despite Viral Suppression With Effective ART Brinda Emu', Jeffrey Martin², Douglas Nixon², Steven G. Deeks², Joseph M. McCung²

¹Yale University, New Haven, CT, United States, ²University of California, San Francisco, San Francisco, CA, United States

241 CMV Reactivation and Immune Aging in HIV-Infected Individuals Virologically Suppressed On ART

Helen M. McGuire¹, Philip M. Grant², Holden Maecker³, Jorg J. Goronzy¹, Mark M. Davis^{3,5}, Andrew R. Zolopa², Microbiology and Immunology, Stanford University School of Medicine, Stanford, CA, United States, Division of Infectious Diseases, Stanford University School of Medicine, Stanford, CA, United States, Institute for Immunity, Transplantation and Infection, Stanford University School of Medicine, Stanford, CA, United States, Immunology and Rheumatology, Stanford University School of Medicine, Stanford, CA, United States, The Howard Hughes Medical Institute, Chevy Chase, MD, United States

242 A Low CD4/CD8 Ratio During Effective ART Predicts Immunosenescence and Morbidity/Mortality

Sergio Serrano-Villar¹, Talía Sainz², Sulggi A. Lee³, Peter W. Hunt³, Elizabeth Sinclair³, April L. Ferre⁴, Vivek Jain³, Frederick M. Hetch³, Santiago Moreno¹, Steve G. Deeks³

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243 CMV and HIV: A Double Hit On the CD4/CD8 Ratio Talia Sainz: Sergio Serrano-Villar², Sulggi A. Lee³, Peter W. Hunt³, Elizabeth Sinclair³, Jeffrey N. Martin³, Joseph M. McCune³, Steven G. Deeks³

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Session P-C12 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A Mucosal CD4 and TH17 Cells

244 Severe Depletion of Lung CD4 T Cells During HIV Infection Impairs Alveolar Macrophage Function Bjorn Corleis', Maud Deruaz', Melis N. Anahtar', Gregory Olson', Brittany Bowman', Vladimir Vrbanac', Andrew M. Tager', Douglas S. Kwon'

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245 Impaired IL-23 Signalling and Th17 Dysfunction in HIV Infection

Jason R. Fernandes¹, Ashok Kumar²³, Jonathan B. Angel¹³
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ON, Canada, ?Pathology, Children's Hospital of Eastern Ontario
Research Institute, Ottawa, ON, Canada, *Faculty of Medicine,
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246 Th17 and Tregs at Early HIV Infection Influence Disease Progression and HIV Specific CD8+ Responses

Juliana Falivene¹, Yanina A. Ghiglione¹, Natalia L. Laufer^{1,2}, María E. Socias³, María J. Ruiz¹, Pedro Cahnt^{2,3}, Omar Sued^{2,3}, Horacio Salomón¹, Gabriela Turk¹, María M. Gherardi¹ ¹Instituto de Investigaciones Biomédicas en Retrovirus y SIDA, UBA-CONICET, Buenos Aires, Argentina, ²Hospital Juan A. Fernández, Unidad Enfermedades Infecciosas, Buenos Aires, Argentina, ²Fundación Huésped, Buenos Aires, Argentina

247 Profound Lung CD4+ T-Cell Depletion in HIV-Associated Chronic Obstructive Pulmonary Disease Iulia Popescu', M. Bradley Drummond', Lucio Gama', Christian Merlo', Robert Wise', Janice Clements', Gregory D. Kirk', John F. McDver'

Medicine, University of Pittsburgh, Pittsburgh, PA, United States, Medicine, The Johns Hopkins University, Baltimore, MD, United States, School of Public Health, The Johns Hopkins University, Baltimore, MD, United States

248 Site Specific HIV-Infection of Th17 Cells in the Human Female Reproductive Tract

Marta Rodriguez-Garcia, Fiona D. Barr, John V. Fahey, Charles R. Wira

Physiology and Neurobiology, Geisel School of Medicine at Dartmouth, Lebanon, NH, United States

249 Transcriptional Profiling Identifies New Mechanisms of HIV Permissiveness in Primary Th17 Cells

Aurélie Cleret-Buhot^{1,2}, Jean-Philippe Goulet^{3,4}, Patricia Monteiro^{1,2}, Annie Bosselin^{1,2}, Mohammad-Ali Jenabian⁵, Jean-Pierre Routy⁶, Elias Haddad⁶, Rafick Pierre Sekaly⁶, Cécile Tremblay^{1,2}, **Petronela Ancuta**^{1,2}

"Microbiology, Infectiology and Immunology, Université de Montréal, Montréal, CC, Canada, "CHUM-Research Centre, Montréal, QC, Canada," Ste. Justine Hospital Research Centre, Université de Montréal, Montreal, QC, Canada, "CARTaGENE, Montréal, QC, Canada," McGill University Health Centre, Montréal, QC, Canada, "Vaccine and Gene Therapy Institute, Port St. Lucie, FL. United States

Session P-C13 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A In Vitro Studies

250 Elevated Soluble CD40 Ligand During HIV Infection Suppresses Dendritic Cell Function Meagan O'Brien, Elizabeth Miller, Nina Bhardwaj Mount Sinal School of Medicine, New York, NY, United States

251 Chronic Exposure To Type-I IFN Under Lymphopenic Conditions Alters CD4 T Cell Homeostasis

Cecile Le Saout¹, Rebecca B. Hasley¹, Hiromi Imamichi¹, Zonghui Hu², Megan A. Luckey², Jung-Huyn Park³, Adam Rupert⁴, Michael Sneller¹, H. Clifford Lane¹, **Marta Catalfamo**¹

"Laboratory of Immunoregulation, NIAID/NIH, Bethesda, MD, United States," Biostatistics Research Branch, NIAID/NIH, Bethesda, MD, United States, "Experimental Immunology Branch, NCI/NIH, Bethesda, MD, United States, "AIDS Monitoring Labs, Leidos Biomedical Research, Bethesda, MD, United States

252 IL-15 Induces Id2 To Drive Effector Differentiation of CD8 TM and EM Cells While Maintaining CM Pools Alessandra Noto', Francesco A, Procopio', Julien van Grevenynghe², Cheryl Cameron', Courtney Steel', Amit Sabnis', Hiroshi Takata', Franck Duppy', Jeff Ahlers', Rafick-Pierre Sekaly' 'Vaccine and Gene Therapy Institute, PORT SAINT LUCIE, FL, United States, *Lady Davis Institute, McGill University, Montreal, QC, Canada

- 253 Double Stranded RNA Stimulates IL-1β Secretion in Cervical Epithelial Cells via the Inflammasome Melis N. Anahtar, Maud Deruaz, Andrew M. Tager, Douglas S. Kwon Ragon Institute, Massachusetts General Hospital, Cambridge, MA, United States
- 254 Alpha-Defensins Modulate HIV Transcytosis: Role of STI-Mediated Enhancement of HIV Transmission Kimyata Valere¹, Aprille Rapista², Alison J. Quayle³, Wuyan Lu⁴, Eliseo Eugenin¹, Thoresa Chang¹

'Public Health Research Institute, Department of Microbiology and Molecular Genetics, Rutgers University-New Jersey Medical School, Newark, NJ, United States, Public Health Research Institute, Newark, NJ, United States, Public Health Research Institute, Newark, NJ, United States, Unisiana State University Health Sciences Center, New Orleans, LA, United States, Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States

255 Exposure To IFNox Leads To Generation of IL-10-Producing Tr1 Cells

Clara Lehmann¹, Kristina Koch¹, Nora Koch¹, Pia Hartmann^{1,2}, Gerd Fätkenheuer¹, Fabio Romerio³

'First Department of Internal Medicine, University of Cologne, Cologne, Germany,'Institute for Medical Microbiology, Immunology and Hygiene, University of Cologne, Cologne, Germany,'Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States

256 TNF Drives Foam Cell Formation by Monocytes From HIV+ Donors in an In Vitro Atherosclerosis Model

Anna Maisa¹, Candida F. Pereira²³, Thomas A. Angelovich¹.⁴, Jing-Ling Zhou¹, William A. Muller⁵, **Anna C. Hearps**¹.⁶, Suzanne M. Crowe¹³, Anthony Jaworowski¹.³

Burnet institute, Melbourne, Australia, Centre for Biomedical Research, Burnet Institute, Melbourne, Australia, Department of Infectious Diseases, Monash University, Melbourne, Australia, School of Applied Sciences, RMIT University, Melbourne, Australia, Northwestern University, Chicago, IL, United States, "Department of Infectious Diseases, Monash University, Melbourne, Australia

257 HIV-Altered mRNA Expressions of Type 1 IFN Pathway Related To Activation/Exhaustion in CD4+ T Cells Chi-Lin Lee¹, Erik Serrao²³, Toni Frederick¹, Chia-Hao Wang¹, Andrea Kovacs¹

¹Department of Pediatrics, Keck School of Medicine, University of Southern California, Los Angeles, CA, United States, ³Medicine, Harvard University, Boston, MA, United States, ³Pharmacology and Pharmaceutical Sciences, University of Southern California, Los Angeles, CA, United States

Dysfunctional High Density Lipoprotein Directly Upregulates T Cell Activation in HIV-1 Infection

Theodoros Kelesidis, Judith Currier, Diana Huynh, Sangeun Park, Hwee Ng, Otto O. Yang *Medicine, David Geffen School of Medicine at University of California*

Medicine, David Getten School of Medicine at University of Californi Los Angeles, Los Angeles, CA, United States

259 Dysfunctional High Density Lipoprotein Directly Reduces HIV-1-Specific Antiviral Responses

Los Angeles, Los Angeles, CA, United States

Genomics and Endogenous Retroviruses

Theodoros Kelesidis, Judith Currier, Diana Huynh, Sangeun Park, Hwee Ng, Otto Yang Medicine, David Geffen School of Medicine at University of California

Session P-C14 Poster Session
Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall A

260 HLA Gene Loci Associated With HIV Load in CSF and Blood Plasma in the CHARTER Cohort

Benjamin B. Gelman', Sunil K. Ahuja', Ronald J. Ellis', Scott Letendre', Christina M. Marra', Justin McArthur', Susan Morgello', David B. Clifford', Igor Grant', Florin Vaida', The CHARTER Group 'Pathology, University of Texas Medical Branch, Galveston, TX, United States, 'Medicine, University of Texas Health Science Center at San Antonio, San Antonio, San Antonio, Ts, United States, 'Meurology, University of California - San Diego, Ca, United States, 'Medicine, University of Washington, Seattle, WA, United States, 'Neurology, The Johns Hopkins University, Baltimore, MD, United States, 'Neurology, Icah School of Medicine at Mount Sinai, Neurology, Icah School of Medicine at Mount Sinai, Neurology, Icah School of Medicine at Mount Sinai, New York, NY, United States, 'Psychiatry, University of California - San Diego, La Jolla, Ca, United States, 'Fsmily and Preventive Medicine, University of California - San Diego, CA, United States

261 GUAVA: A Compendium of Host Genetic Data in HIV Biology and Disease

Istvan Bartha^{1,2}, Paul J. McLaren^{1,2}, Angela Ciuffi², Jacques Fellay^{1,2}, Amalio Telenti²

'École Polytechnique Fédérale De Lausanne, Lausanne, Switzerland, Institute of Microbiology, University Hospital Lausanne, Lausanne, Switzerland

262 HIV-1 Infection Leads To Increased Expression of HML-2 Proviruses In Vivo But Not Virion Production Neeru Bhardwaj¹, Frank Maldarell¹², John Mellors², John M. Coffin¹ ¹Tufts University, Boston, MA, United States,²National Cancer Institute, Frederick, MD, United States,²University of Pittsburgh, Pittsburgh, PA,

263 Exome Sequencing To Evaluate the Impact of Rare Coding Variation On HIV-1 Control

Paul J. McLaren¹, Patrick R. Shea², David B. Goldstein², Jacques Fellay¹

'Life Sciences, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, Center for Human Genome Variation, Duke University School of Medicine, Durham, NC, United States

Session P-D1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A It's All About the Gut

310 Increased Immune Activation After Gut Permeabilization in SIV-Infected African Green Monkevs

Jan Kristoff¹, Thaidra Gaufin², Rajeev Gautam³, Dongzhu Ma¹, Jacob Estes⁴, Russell Tracy⁵, Cristian Apetrei¹, Steve Nelson⁶, Gregory Bagby⁶, Ivona Pandrea¹

¹Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA, United States, ²UCLA, Los Angeles, CA, United States, ²UCLA, Los Angeles, CA, United States, ²NCIV NIH, Frederick, MD, United States, ³University of Vermont, Colchester, VT, United States, ⁵Louislana State University, New Orleans, LA, United States, ⁵Louislana States, ⁵Louislan

311 Breaches in Colonic Claudin-4 Expression Correlate With T-Cell Activation in HIV-1 Infection

Louise Greathead¹, Anna Mroz¹, Hiromi Kudo¹, Brian Gazzard², Mark Nelson², Robert D. Goldin¹, Alan Steel², Peter Kelleher¹ "Imperial College, London, United Kingdom; Chelsea and Westminster Hospital NHS Trust, London, United Kingdom

312 Rapid Gut-Homing of Plasmacytoid Dendritic Cells During Acute SIV Infection

Haiying Li, Jacqueline Gillis, R. Keith Reeves NEPRC, Harvard Medical School, Southborough, MA, United States

313 CCR6+ and CD161+ CD4 T Cell Loss Contributes To the Pathogenesis of SIV Infection in Rhesus Macaques Colleen S. McGary¹, Luca Micci¹, Emily S. Ryan¹, María J. Buzon², Amy Shaw², Mathias Lichterfeld², Guido Silvestri¹³, Aftab A. Ansari³, Mirko Palardini¹³

Department of Microbiology and Immunology, Emory University, Atlanta, GA, United States, 'Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States,' Department of Pathology and Laboratory Medicine, Emory University, Atlanta, GA, United States

314 SIV Vaccine Controllers Prevent Aberrant Accumulation of Follicular CD4 T Cells in Rectal Mucosa

Geetha H. Mylvaganam^{1,2}, Vijayakumar Velu^{1,2}, Jung-Joo Hong^{2,3}, Shanmugalakshmi Sadagopal^{1,2}, Suefen Kwal², Rahul Basu^{1,2}, Benton Lawson², Francois Villinger^{2,3}, Rama R. Amara^{1,2} "Microbiology and Immunology, Emory University School of Medicine,

'Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA, United States, Emory Vaccine Center, Yerkes Natedia. Primate Center, Atlanta, GA, United States, Department of Pathology, Emory University School of Medicine, Atlanta, GA, United States

315 Decreased Diversity of Gut Microbiota Is Associated With Immune Status During HIV-1 Infection

Piotr Nowak¹, Babilonia Barqasho², Ekatarina Avershina³, Kajsa Noyan², Jan Vesterbacka¹, Marius Trosseid⁴, Knut Rudi³, Anders Sönnerborg¹ ¹Department of Infectious Diseases, Karolinska Institute, Huddinge, Sweden, ²Department of Laboratory Medicine, Karolinska Institute, Huddinge, Sweden, ²Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, Aas, Norway, ⁴Infectious Diseases, Oslo University Hospital, Oslo, Norway

316 Dysregulated miR-34a-SIRT1-Acetyl-p65 Axis Induces Immune Activation in Chronic SIV-Infection

Mahesh Mohan, Andrew Alan Lackner, Xavier Alvarez Comparative Pathology, Tulane National Primate Research Center, Covington. LA. United States

317 Dysbiotic Bacteria Translocate in Progressive SIV Infection

Zachary Klase¹, Elias Schwartzman¹, Alexandra Ortiz¹, Lauren Canary¹, Mariam Quinones², Jason Brenchley¹ 'Laboratory of Molecular Microbiology, NIAID/NIH, Bethesda, MD, United States ²NIAID/NIH, Bethesda, MD, United States

Session P-D2 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A New SIV Models

318LB Viral Suppression Was Induced by Anti-PD-L1

Following ARV-Interruption in SIV-Infected Monkeys Stephen W. Mason', Srisownya Sanisethy? Christa Susna Gutierrez', So-Yon Lim', Susan Chaniewski', Shalyn Campellone', Daniel Tenney', Scott Balsitis', James B. Whitney's "Discovery Virology, Bristof-Myers Squibb, Wallingford, CT, United States, Center for Virology and Vaccine Research, Bistof-Myers Squibb, Boston, MA, United States, "Center for Virology and Vaccine Research, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, United States

A Novel HIV-1mt Encoding CCR5-Tropic Env Established Persistent Infection in Cynomolgus Macaques

Akatsuki Saito¹-², Kazuhiro Matsuoka²-³, Hirotaka Ode²-³, Hiroyuki Otsuki⁴, Takeshi Yoshida¹, Yasumasa Iwatani³, Wataru Sugiura³, Tetsuro Matano⁵, Tomoyuki Miura⁴, Hirofumi Akari¹¹-²Center for Human Evolution Modeling Research, Primate Research Institute, Kyoto University, Inuyama, Japan,⁴Japan Foundation for AIDS Prevention, Chiyoda-ku, Japan,ªClinical Research Center, National Nagoya Medical Center, Nagoya, Japan,⁴Laboratory of Primate Model, Institute for Virus Research, Kyoto University, Kyoto, Japan,³AIDS Research Center, National Institute of Infectious Diseases, Shinjuku-ku, Japan

320 New SIVsmm Strains To Achieve Control of Virus Replication With Conventional ART in Rhesus Macagues

George Haret-Richter¹, Dongzhu Ma¹, Hui Li², Samantha Ross¹, Rachit Anand¹, Cuilling Xu¹, George M. Shaw², Beatrice H. Hahn², John W. Mellors³, Ivona Pandrea¹, Cristian Apetrei¹ 'Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pennsylvania, Philadelphia, PA, United States, ³Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States

Session P-D3 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A SCID Mice

321 Immune-Pathogenesis/-Therapy of Persistent HIV-1 Infection in Humanized Mice Lishan Su

Microbiology and Immnuology, UNC-Chapel Hill, Chapel Hill, NC, United States

322 Dual Roles of Plasmacytoid Dendritic Cells in HIV-1 Infection and Pathogenesis

Guangming Li⁺, Menglan Cheng², Jun-ichi Nunoya¹, Liang Cheng¹, Haitao Guo¹, Haisheng Yu², Yong-jun Liu³, Liguo Zhang², Lishan Su¹ 'University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,²Institute of Biophysics, Chinese Academy of Sciences, Beijing, China, ³Baylor Research Institute, Dallas, TX, United States

323 Characterizing the Acute Spread of Cell-Associated HIV in Humanized Mice

Kenneth M. Law, Alice W. Yewdall, Benjamin K. Chen Infectious Disease, Icahn School of Medicine at Mount Sinai, New York, NY, United States

Session P-D4 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Non-Pathogenic vs Pathogenic Hosts

324 Differential TCR Activation and TRAIL Regulation in Sooty Mangabeys and Rhesus Macagues

Shan Yu¹, Kenneth Rogers², Francois Villinger², Amitinder Kaur³
'Division of Immunology, Harvard Medical School, Southborough, MA,
United States; 'Division of Pathology, Emory University, Atlanta, GA,
United States; 'Harvard Medical School, Southborough, MA, United
States

325 Divergent CD4+ T Memory Stem Cell Dynamics in Pathogenic and Nonpathogenic SIV Infections Emily K. Cartwright'. Colleen McGarv'. Barbara Cervasi'. Benty

Emily K. Cartwright', Colleen McGary', Barbara Cervasi', Benton Lawson', Steven E. Bosinger', Thomas H. Vanderford', Mirko Paiardini', Ann M. Chahroudi', Guido Silvestri'

¹Yerkes National Primate Research Center, Emory Vaccine Center, Atlanta, GA, United States, ²Department of Pediatrics, Emory University, Atlanta, GA, United States

326 Double-Negative T Cells Are Functionally Distinct and Maintained in SIV-Infected Sooty Mangabeys

Namita Rout¹, James M. Billingsly¹, Shan Yu¹, Alexandra Grzywna², Premeela A. Rajakumar¹, Arnaud Colantonio¹, Robert P. Johnson¹, Jim Else³, Amitinder Kaur¹

¹Immunology, NEPRC-HMS, Southborough, MA, United States, ²Wellesley College, Wellesley, MA, United States, ³Animal Resources, Yerkes National Primate Research Center, Atlanta, GA, United States

327 CD39/CD73/Adenosine Pathway in Progressive vs Non-Progressive Infections

Tianyu He⁷, Egidio Brocca-Cofano¹, Cuiling Xu², Jan Kristoff², Samantha Ross², Dongzhu Ma³, Charles R. Rinaldo⁴, Bernard J. C. Macatangay⁴, Cristian Apetrei³, Ivona Pandrea¹ 'Pathology, University of Pittsburgh, Pittsburgh, PA, United States, University of Pittsburgh, Pittsburgh, PA, United States, Microbiology and Molecular Genetics, University of Pittsburgh, Pittsburgh, PA, United States, University of Pittsburgh, PIttsburgh, PIttsburgh, PIttsburgh, PIttsburgh, PA, United States

328 Dynamics of B Cell Subpopulations in Pathogenic and Nonpathogenic SIV Infections

Egidio Brocca-Cofano¹, Basile Slewe², Dave Kurt², Xu Cuiling¹, Jan Kristoff³, Dongzhu Ma⁴, George S. Haret-Richter¹, David C. Montefiorî, Alan Landy², Ivona Pandrea¹, Cristian Apetre¹ ¹Pathology, University of Pittsburgh, Pittsburgh, PA, United States, ¹Immunology and Microbiology, Rush University Medical Center, Chiago, IL, United States, Scentre for Vaccine Research, University of Pittsburgh, Pittsburgh, PA, United States, 'Microbiology, University of Pittsburgh, Pittsburgh, PA, United States, 'Wilcrobiology, University institute, Duke University, Durhan, NC, United States

Session P-D5 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A Compartmentalization

329 Transient Compartmentalization of SIV Variants in the Breast Milk of African Green Monkeys Carrie Ho

Human Vaccine Institute, Duke University Medical Center, Durham, NC. United States

330 HIV Migrates Bi-Directionally Between Blood and Cerebrospinal Fluid and Between Blood and Semen Antoine Chaillon¹², Sara Gianella¹, Joel O. Wertheim¹, Sergei L. K. Pond¹, Douglas D. Richman¹³, Sanjay R. Mehta¹³, David M. Smith¹³ ¹Pathology, University of California San Diego, La Jolla, CA, United States ²INSERM UMR U966, Tours, France, ³Veterans Affairs San Diego Healthcare System, San Diego, CA, United States

331 Pol Versus Env Genetics in SHIV-Infected Macaques Highlights Importance of Phylogenetic Signal

Chad Coomer¹, Elizabeth M. Anderson¹, Luke Smith¹, Wei Shao¹, Jonathan Spindler¹, John W. Mellors², John M. Coffin³, Zandrea Ambrose⁴, Mary F. Kearney¹

National Cancer Institute, NIH, Frederick, MD, United States, Division of Infectious Disease, Department of Medicine, University of Pittsburgh, Pittsburgh, P. United States, Department of Molecular Biology and Microbiology, Tuffs University, Boston, MA, United States, Division of Infectious Diseases, Department of Medicine, University of Pittsburgh, PIttsburgh, PA, United States

Session P-D6 Poster Session

Atlanta, GA, United States

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall A New Themes in Host Control

333 Low Social Rank Prior To SIV or SHIV Infection Associates With Higher Viral Load in Chronic Infection Gretchen N. Neight¹2, Timothy Hayes^{2,3}, Ronald Trible^{2,3}, Thomas H. Vanderford^{2,3}, Diane G. Carnathan^{2,3}, Constance S. Harrelli*, Kirk Easley⁴, Mirko Paiardini^{2,3}, Guido Silvestri^{2,3}

1 Physiology, Emory University, Atlanta, GA, United States, 2 Perkes National Primate Research Center, Atlanta, GA, United States 3 Emory University, Atlanta, GA, United States 5 Emory Univ

334 Modulation of Natural Killer Cell Activity by Simian Immunodeficiency Virus Peptides

Jamie L. Schafer¹, Natasha Guha¹, Nancy A. Wilson², David T. Evans²

¹Harvard University, Southborough, MA, United States, ²University of Wisconsin, Madison, WI, United States

Session P-E1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A Modulating Immune Activation

335 Rosuvastatin Reduces Immune Activation and Inflammation in Treated HIV Infection

Nicholas Funderburg¹, Brian Clagett², Ying Jiang², Sara M.
Debanne³, Norma Storer¹, Danielle Labbato¹, Steven Juchnowski²,
Brian Ferrar³, Michael Lederman², Grace A. McComsey¹

¹Health and Rehabilitation Sciences, The Ohio State University,
Columbus, OH, United States²Case Western Reserve University/
Case Medical Center, Cleveland, OH, United States²-Epidemiology
and Biostatistics, Case Western Reserve University, Cleveland, OH,
United States (*University Hospitals Case Medical Center, Cleveland,
OH, United States

336 Effects of Prednisolone On CD4 Counts and HIV Disease Progression: A Two-Year Clinical Trial

Christa Kasang', Samuel Kalluvya², Charles Majinge³, Gilbert Kongola', Mathias Mlewa³, Irene Massawe³, R Kabyemera, K Magambo, H Klinker, E Koutsilleri, W Preiser, D Hofmann, J Hain, A Müller, Weissbrich, Albrecht Ulmer¹, Axel Rethwilm¹, August Stich¹, Carsten Scheller¹

Institute of Virology and Immunobiology, University of Wuerzburg, Wuerzburg, Germany, Institute of Virology and Immunobiology, Bugando Medical Centre, Mwanza, United Republic of Tanzania, Bugando Medical Centre, Mwanza, United Republic of Tanzania

337 Sevelamer Does Not Decrease Plasma LPS or sCD14 But Does Decrease Soluble Tissue Factor and LDL Netanya G. Sandler¹, Xinyan Zhang², Ronald J. Bosch², Nicholas T. Funderburg³, Janet K. Robinson³, Daniel C. Douek², Cara C. Wilson⁵,

Steven G. Deeks⁶, Michael M. Lederman³, Rajesh T. Gandhi⁷, for the A5296 Study Team

Internal Medicine, University of Texas Medical Branch at Galveston, Galveston, TX, United States, Center for Biostatistics in AIDS Research, Harvard School of Public Health, Boston, MA, United States, Case Western Research Center, National Institutes of Health, Bethesda, MD, United States, Internal Medicine, University of Colorado, Aurora, CO, United States, San Francisco General Hospital, San Francisco, CA, United States, Thesmal Medicine, University of Colorado, Aurora, CO, United States, San Francisco General Hospital, San Francisco, CA, United States, Thassachusetts General Hospital and Ragon Institute, Boston, MA, United States

338 Reduction of sCD163, SP and PD1+ Th Cell Levels in a Phase 1B Trial of the NK1R Antagonist Aprepitant.

Pablo Tebas¹, Serguei Spitsin², Jeffrey Barrett², Florin Tuluc², Okan Elci³, James Korelitz³, Wayne Wagner¹, Deborah Kim¹, Renae Catalano³, Steven D. Douglas²

¹University of Pennsylvania, Philadelphia, PA, United States, ²Children's Hospital of Philadelphia Research Institute, Philadelphia, PA, United States, ³Westat, Rockville, MD, United States

339 Rifaximin Has Marginal Impact On Immune Activation in Immune Non-Responders To ART - ACTG 5286 Allan R. Tenorini Cara C. Wilson² Filen S. Chan³ Ronald J. Rosch

Allan R. Tenorio¹, Cara Ĉ. Wilson², Ellen S. Chan³, Ronald J. Bosch⁴, Bernard J. Macatangay⁵, Suria Yesmin°, Sarah W. Read², David M. Margolis³, Jeffrey M. Jacobson°, Alan L. Landay¹⁰ 'Medicine, Rush University Medical Center, Chicago, IL, United States, 'Medicine, University of Colorado Health Sciences Center, Aurora, CO, United States, 'Center for Biostatistics in AIDS Research, Harvard School of Public Health, Boston, MA, United States, 'Center for Biostatistics Research in AIDS, Harvard School of Public Health, Boston, MA, United States, 'Penter for Biostatistics Research in AIDS, Harvard School of Public Health, Boston, MA, United States, "Pintile States," Frontier Sciences, Amherst, NY, United States, 'Division of AIDS, National Institutes of Health, Bethesda, My, United States, 'Medicine, University of North Carolina, Chapel Hill, NC, United States, 'Medicine, Drevel University, Philadelphia, PA, United States, 'Ilmmunology and Microbiology, Rush University Medical Center, Chicago, IL, United States

340 Reduced Immune Activation During Tenofovir-Emtricitabine Therapy in HIV-Negative Individuals Jose R. Castillo-Mancilla¹, Amie Meditz¹, Sharon Seifert², Jia-Hua Zheng², Becky J. Kerr², Edward M. Gardner³, Brent E. Palmer¹, Lane Bushman², Samantha MaWhinney³, Peter L. Anderson² ¹Infectious Diseases, University of Colorado, Aurora, CO, United States, "Pharmaceutical Sciences, University of Colorado, Aurora, CO, United States, "Allergy and Immunology, University of Colorado, Aurora, CO, United States, "Biostatistics and Informatics, University of Colorado, Aurora, CO, United States

341 Mesalamine To Reduce Immune Activation During HIV Infection: A Randomized Controlled Trial

Ma Somsouk, Richard M. Dunham, Michelle Cohen, Rebecca Albright, Teri Liegler, Yuaner Wu, Jeffrey N. Martin, Priscilla Y. Hsue, Steven G. Deeks, Joseph M. McCune, Peter W. Hunt University of California San Francisco, San Francisco, CA, United States

342 Decreased Levels of D-Dimer After Probiotic Supplementation in Patients Receiving ART

Birgitte Stiksrud¹, Piotr Nowak², Dag Kvale¹, Anders Thalme², Stein-Erik Birkeland³, Anders Dahm¹, Anne Ma Dyrhol-Riise¹, **Marius Troseid**¹

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Session P-E2 Poster Session

Tuesday March 4, 2014, 2:30 PM—4:00 PM Exhibit Hall A Therapeutic Vaccines and Immunotherapies

343 Immune Function and Viral Load Post AGS-004
Administration To Chronic HIV Subjects Undergoing STI
Mark DeBenedette', Irina Tcherepanova', Alicia Gamble', Joe
Horatinovich', Jason Harris', Jean-Pierre Routy', Charles Nicolette',
AGS-004-001 Study Team
Immunology, Argos Therapeutics, Durham, NC, United States, McGill

344 Immunogenicity of AGS-004 Dendritic Cell Therapy in Patients Treated During Acute HIV Infection

University Health Centre, Montreal, QC, Canada

Cynthia L. Gay', Nancie Archin', Irina Tcherepanova', Esther Villiard', Charles Hicks', Mary Kearney', John Coffin', Mark DeBenedette', Joseph Eron', Charles Nicolette', David M. Margolis' 'Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States; Research and Development, Argos Therapeutics, Inc, Durham, NC, United States; Medicine, Duke University, Durham, NC, United States, Translational Research Unit, National Cancer Institute, Frederick, MD, United States, National Cancer Institute, Frederick, MD. United States

345 Immunogenicity and VL Rebound After ATI in Chronic HIV Infected Patients Receiving MVA-B

Beatriz Mothe¹, Miriam Rosas¹, Montserrat Plana², Nuria Climent², Jose Luis Jimenez³, Judith Pich², Mariano Esteban⁴, Felipe García⁵, Christian Brander¹

IrsiCaixa AIDS Research Institute-HIVACAT, Badalona, Spain, Hospital Clinic-HIVACAT, IDIBAPS, University of Barcelona, Badalona, Spain, Hospital Gregorio Marañón, Madrid, Spain, Centro Nacional de Biotecnología, Madrid, Spain, Flospital Clinic-HIVACAT, IDIBAPS, University of Barcelona, Barcelona, Spain

346 Dynamics of VL Rebound After cART Interruption in HIV Patients Receiving MVA-B Plus Disulfiram

Beatriz Mothe', Sonsoles Sanchez-Palomino², Jose Luis Jimenez³, Jose M. Gatell', Bonaventura Clotet', Mariano Esteban', Montserrat Plana², Juan Carlos Lopez Bernaldo de Quiros³, Christian Brander¹, Felipe García²

¹Irsicaixa-HIVACAT, Hospital Germans Trias i Pujol, Badalona, Spain,²Hospital Clinic-HIVACAT, IDIBAPS, University of Barcelona, Barcelona, Spain,³Hospital Gregorio Marañon, Madrid, Spain,⁴Centro Nacional de Biotecnologia, Madrid, Spain

347 Vaccination With Autologous Dendritic Cells Pulsed With Autologous HIV-Infected Apoptotic Cells Bernard J. Macatangay¹, Sharon A. Riddler¹, Nicole D. Wheeler¹, Mary J. Buffo¹, Aarika Yates³, Luann Borowskô¹, Theresa L.

> 'Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, 'University of Pittsburgh Cancer Institute, Pittsburgh, PA, United States, 'Infectious Disease and Microbiology, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United

Session P-E3 Poster Session

Whiteside2, Charles R. Rinaldo3

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A New Technologies in Immunology

348 Systems Biology, HIV Disease, and RNAs Big and Small Michael Katze
University of Washington, Seattle, WA, United States

349 CoRSeqV3: Novel Coreceptor Usage Prediction Algorithms for HIV-1 Subtypes B, C, D and CRFO1_AE Kieran Cashin¹-2, Lachlan R. Gray¹³. Katherine Harvey¹², Danielle Perez-Bercoff⁴, Guinevere Q. Lee⁵, Jasminka Sterjovski¹, Michael Roche¹, P. Richard Harrigan⁵, Melissa J. Churchill¹⁵, Paul R. Gorry¹² ¹Center for Biomedical Research, Burnet Institute, Melbourne, Australia,¹Department of Microbiology and Immunology, University of Melbourne, Melbourne, Australia¸¹Department of Biochemistry and Molecular Biology, Monash University, Melbourne, Australia¸¹Center Recherche Public de la Santé, Luxembourg, Luxembourg, ³BC Center for Excellence in HIV/AIDS, University of British Columbia, Vancouver, BC, Canada¸¹Department of Microbiology and Immunology, Monash University, Melbourne, Australia

Identification of Novel B*57:01 Restricted Peptides From HIV gp140 Using Immunopeptidomics

Sri H. Ramarathinam¹, Nadine L. Dudek¹, Robert J. Center², Damian F. J. Purcell¹

¹Department of Biochemistry and Molecular Biology, Monash

University, Clayton, Australia,²Department of Microbiology and

Immunology, University of Melbourne, Parkville, Australia

351 New Summaries and Computational Tools at Los Alamos HIV Immunology Database

Karina Yusim¹, Shihai Feng¹, Hyejin Yoon¹, KumKum Ganguly¹, Jennifer Macke¹, James Szinger¹, Anthony P. West², Pamela Bjorkman², Brian Foley¹, Bette T. Korber¹ ¹HIV Database, T-6, Los Alamos National Laboratory, Los Alamos, NM, United States, 'California Institute of Technology, Pasadena, CA, United States

Session P-E4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall Monocytes, Dendritic Cells, NK Cells

Identification of Pattern Recognition Receptor for HIV-1 in Human Dendritic Cells

Sunnie M. Yoh¹, Monika Schneider¹, Stephen Soonthornvacharin¹, Kevin Olivieri1, Sourav Bandyopadhyay2, Elisa Decastro3, Adolfo G. Sastre3, Sumit K. Chanda1

¹Inflammatory Diseases, Sanford Burnham Medical Institute, La Jolla, CA. United States. 2 Helen Diller Family Comprehensive Cancer Center. University of California San Francisco, San Francisco, CA, United States, 3 Department of Microbiology, Mount Sinai School of Medicine, New York, NY, United States

Plasmacytoid Dendritic Cell Phagocytosis of IgG Anti-p24 Associates With Control of HIV Infection Christian Tjiam1, James Taylor1, Mazmah A. Morshidi1, Jeffrey N. Martin², Steven G. Deeks², Dino Tan³, Silvia Lee¹, Sonia Fernandez¹,

Martyn A. French¹ ¹School of Pathology and Laboratory Medicine, University of Western Australia, Perth, Australia, 2School of Medicine, University California San Francisco, San Francisco, CA, United States, 3Lung Institute of Western Australia, University of Western Australia, Perth, Australia

354 Recruitment of Functionally Different NK Cells To the Rectal Mucosa in Vaccinated Macagues

Namal P. M. Liyanage¹, Shari N. Gordon¹, Monica Vaccari¹, Poonam Pegu¹, Melvin Doster¹, David Venzon¹, James Tartaglia², Susan W. Barnett3, Nelson Michael4, Genoveffa Franchini1 ¹National Cancer Institute, National Institutes of Heath, Bethesda, MD, United States, 2 Department of Research and Development, Sanofi Pasteur, Swiftwater, PA, United States, 345 Sidney Street, Novartis Vaccines & Diagnostics, Cambridge, MA, United States, U.S. Military HIV Research Program, Rockville, MD, United States

355 HIV Myeloid-Derived Suppressor Cells Inhibit the Protective Response To Cytomegalovirus Ankita Garg¹, Stephen A. Spector^{1,2}

¹Pediatrics, University of California San Diego, La Jolla, CA, United States,2Rady Children's Hospital, San Diego, CA, United States

Session P-E5 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall **Pre-Clinical Vaccine Studies**

Induction of Gut Anti-HIV Immune Response via Dendritic Cell Targeted Intranasal Vaccination Darren Ruane¹, Yoonkyung Do², Akash Greg¹, Haekyung Lee¹, Thomas Kraus³, Jordan Poles¹, Lucas Brane¹, Christine Trumpfheller⁴, Andres Salazar5, Ralph Steinman4, Saurabh Mehandru1 Gastroenterology, Mt Sinai School of Medicine, New York, NY, United States,2chool of Nano-Bioscience and Chemical Engineering, Ulsan National Institute of Science and Technology, Korea, Republic of Korea,3Mt Sinai School of Medicine, New York, NY, United States,4Rockefeller University, New York, NY, United States,5Oncovir, Inc. New York, NY, United States

357 Conserved Element DNA Vaccine based On HIV-1 or SIV sequences Increases T-Cell Breadth Barbara K. Felber

NCI, Frederick, MD, United States

DNA and Protein Co-Immunization Improves the Magnitude and Longevity of Humoral Immune Responses

George N. Pavlakis

National Cancer Institute, Frederick, MD, United States

359 The Adjuvant Used in an ALVAC/gp120 Regimen Alters Plasmablast Homing Markers in Macague and Humans Luca Schifanella¹, Shari Gordon¹, Monica Vaccari¹, Georgia Tomaras², Mangala Rao³, David Venzon¹, Susan Barnett⁴, James Tartaglia⁵, Silvia Ratto-Kim⁶, Genoveffa Franchini¹ ¹National Cancer Institute, National Institutes of Health, Bethesda, MD, United States, 2Duke University, Durham, NC, United States, 3Walter

Reed Army Institute of Research, Rockville, MD, United States, 4Novartis Vaccines and Diagnostics, Cambridge, MA, United States, 5Sanofi Pasteur, Swiftwater, PA, United States, United States Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States

360 ALVAC-SIV/qp120 Efficacy Is Not Improved by the Increase of Anti-Envelope B and T-Cell Responses Monica Vaccari¹, Shari N. Gordon¹, Brandon F. Keele¹, Georgia D. Tomaras², Mangala Rao³, Mario Roederer⁴, Donald M. Stablein⁵, Saniay Phogat⁶, Susan W. Barnett⁷, Genoveffa Franchini¹ ¹NIH, NCI, Bethesda, MD, United States, ²Duke Human Vaccine Institute, Durham, NC, United States, 3USMHRP, Walter Reed Army Institute of Research, Silver Spring, MD, United States, NIH, NIAID, Bethesda, MD, United States, 5The EMMES Corporation, Rockville, MD, United States, Sanofi Pasteur, Swiftwater, PA, United States, Novartis Vaccines and Diagnostic, Cambridge, MA, United States

361 Altering the Prime Affects ALVAC-SIV/gp120 Immunogenicity and Efficacy

Shari N. Gordon¹, Monica Vaccari¹, Georgia D. Tomaras², Mario Roederer³, David Venzon⁴, Dan H. Barouch⁵, Barbara Felber⁶, Nelson L. Michael7, James Tartaglia8, Genoveffa Franchini1 ¹Animal Models and Retroviral Vaccine Section, NCI, National Institutes of Health, Bethesda, MD, United States, 2Duke Human Vaccine Institute, Durham, NC, United States, 3 Vaccine Research Center, NIAID, National Institutes of Health, Bethesda, MD, United States, Biostatistics and Data Management Section, NCI, National Institutes of Health, Bethesda, MD, United States,5 Center for Virology and Vaccine Research, Beth Israel Deaconess Medical Center, Boston, MA, United States, Human Retrovirus Pathogenesis Section, Vaccine Branch, NCI, National Institutes of Health, Bethesda, MD, United States, Walter Reed Army Institutes of Research, US Military HIV Research Program, Silver Spring, MD, United States, Sanofi Pasteur, Swiftwater, PA, United States

Immunization of Humanized BLT Mice Against HIV Influences Early Immune Responses and Viral Loads Timothy E. Dudek¹, Colby R. Maldini¹, Vladimir D. Vrbanac² Elizabeth F. Mellors¹, Damien Tully¹, Marcus Altfeld¹, David M. Knipe³, Andrew M. Tager², Todd M. Allen¹
¹Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States,2 Massachusetts General Hospital, Boston, MA, United States, 3 Harvard Medical School, Boston, MA, United States

Session P-E6 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall

Human Vaccine Trial Results

Antibody Responses in Anogenital Secretions of RV305, a Late Boost Vaccination of RV144 Volunteers Siriwat Akapirat¹, Chitraporn Karnasuta¹, Viseth Ngauy¹, Robert J. O'Connell1, Punnee Pitisuthithum2, Supachai Rerks-Ngarm3, Nelson L. Michael⁴, Mark S. De Souza¹, Jerome H. Kim⁴, Nicos Karasavvas¹ ¹Retrovirology, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, 3 Disease Control, Ministry of Public Health, Nonthaburi, Thailand, Retrovirology, Walter Reed Army Institute of Research, Silver Spring, MD, United States

364 Divergent HIV-Specific CD4 T-Cell Response Profiles in **HIV Vaccine Trials**

> Franco Pissani1, Sebastien Maloveste1, Bruce Shultz1, Sorachai Nitayaphan2, Prasert Thongcharoen3, Punnee Pitisuttithum4, Michael Ellers, Silvia Ratto-Kims, Mary Marovichs, Hendrik Streeck ¹Cellular Immunology, Military HIV Research Program, Silver Spring, MD, United States, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, 3Department of Microbiology, Siriraj Hospital, Mahidol University, Bangkok Noi, Thailand, Clinical Tropical Medicine, Mahidol University, Nakhon Pathom, Thailand,5Military HIV Research Program, Silver Spring, MD, United States, Division of AIDS, National Institutes of Health, Bethesda, MD, United States

365 Immunogenicity and Reactogenicity of Cervarix® Versus Gardasil® in HIV-Infected Adults: An RCT

Lars Toft!, Merete Storgaard!, Martin Müller², Peter Sehr³, Jesper Bonde⁴, Martin Tolstrup¹, Lars Østergaard¹, Ole S. Søgaard¹
'Department of Infectious Diseases, Aarhus University Hospital,
Aarhus, Denmark, "Hesearch Program Infection and Cancer, German
Cancer Research Center, Heidelberg, Germany;" Chemical Biology
Core Facility, European Molecular Biology Laboratory, Heidelberg,
Germany, "Department of Pathology, Copenhagen University Hospital,
Hvidovre, Denmark

366 The Specificity of V3 Antibodies in RV144 Plasma Implicated in Reducing HIV Infection

Susan Zolla-Pazner', Constance Williams', Morgane Rolland', Paul Edlefsen', Xiang-Peng Kong', Arthur Nadas', S. Tovanabutra', Supachal Rerks-Ngarm', Merlin Robb', Helson Michael', Jerome Kim's 'Pathology, VA and New York University Medical Centers, New York, NY, United States, 'Pathology, New York University Medical Center, New York, NY, United States, 'Fred Hutchinson Cancer Research Institute, Seattle, WA, United States, 'Fred Hutchinson Cancer Research Institute, Seattle, WA, United States, 'Fred Hutchinson Cancer Research Institute, Seattle, NY, United States, 'Military HIV Research Program and HM Jackson Foundation, Bethesda, MD, United States, 'Ministry of Public Health, Bandkok, Thalland

Session P-E7 Poster Session

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall Immune Response To Infection

367 HIV Cell Tropism Dependent Impact of CTL Escape Mutations in Gag On Viral Replicative Capacity Benedikt Grandel', Sara Wennige', Franziska Winter', Sven Britischward! Baryl Salzbarger' Arma Schwinter', Arma Schwinter

Breitschwerdt¹, Bernd Salzberger¹, Arne Schneidewind²

¹Internal Medicine I, University of Regensburg, Regensburg,
Germany,²Internal Medicine I, University of Bonn, Bonn, Germany

368LB Epitope Targeting and the Antibody-Dependent Cellular Cytotoxicity Response Against HIV-1

Priyamvada Acharya¹, William D. Tolbert²²², Lei Yu²⁴, James E. Robinson², Loic Martin², Peter D. Kwong¹, Yongjun Guan²⁴, Anthony L. DeVico²², George K. Lewis²², Marzena Pazgier²³ ¹Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States², Înstitute of Human Virology, Baltimore, MD, United States², Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, Baltimore, MD, United States², Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States², Department of Pediatrics, Tulane University Medical Center, New Orleans, LA, United States, Service d¹Ingénierie Moléculaire des Protéines, CEA, Gif-sur-Yvette, France; Department of Medicine, University of Maryland School of Medicine, Baltimore, MD, United States?

369 Complex Impact of Reversion Mutations and CD8+ T Cell Escape Mutations On HIV-1 Fitness

Hongshuo Songi, Tammoy Bhattacharya², Nillu Goonetilleke³, Kevin Wiehe¹, Andrew McMichael¹, George Shaw⁴, Beatrice Hahn⁴, Alan Perelson³, Barton Haynes¹, Feng Gao¹ 'Duke Human Vaccine Institute, Duke University Medical Center, Durham, NC, United States, ²Los Alamos National Laboratory, Los Alamos, NM, United States, ³Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, United Kingdom, ⁵Department of Microbiology, University of Pennsylvania, Philadelphia, PA, United of Microbiology, University of Pennsylvania, Philadelphia, PA, United

371 Linkage Between Disease Status and a Naturally Arising Mutation in Functional Region of HIV-1 Nef Stanley C. Meribe¹, Zafrul Hasan¹, Hiroyuki Gatanaga², Toshiyuki Miura³, Ai Kawana-Tachikawa³, Aikichi Iwamoto³, Shinichi Oka², Takamasa Ileno¹

> ¹Center for AIDS Research, Kumamoto University, Kumamoto, Japan, AIDS Clinical Center, National Center for Global Health and Medicine, Tokyo, Japan, ³Institute of Medical Science, University of Tokyo, Tokyo, Japan, ⁴Insitute of Tropical Medicine, Nagasaki University, Nagasaki, Japan

372 Characterizing Acute HIV-1B CTL Escape by Full-Genome "Deep" Sequencing

Christian L. Boutwell, Damien Tully, Rebecca Batorsky, Karen Power, Aaron Seese, Michael Sirignano, Marcus Altfeld, Todd M. Allen

Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States

373 HIV-1 gp120-Specific Antibody Dependent Cell-Mediated Cytotoxicity in HIV-1 Elite Controllers

Mariana M. Mata', Fareeĥa Mahmood', Elizabeth T. Golub', Ruth M. Greenblatt', Kathryn Anastos', Marek Nowicki', Mary Young', Helen Durkin', Seema N. Desai', Linda L. Baum'

'Immunology/Microbiology, Rush University Medical Center, Chicago, IL, Unitled States, Epidemiology, The Johns Hopkins University, Baltimore, MD. Unitled States, Clinical Pharmacy, Medicine, Epidemiology and Biostatistics, University of California, San Francisco, San Francisco, C. Unitled States, Medicine, Epidemiology and Population Health, Montefiore Medical Center, Bronx, NY, Unitled States, Medicine, University of Southern California, Los Angeles, CA, Unitled States, Medicine, University of Southern California, Los Angeles, CA, United States, Medicine, University Washington, DC, Unitled States, Fathology, Washington, DC, United States, Fathology, Washington, Polymers Washington, DC, United States, Fathology, Washington, Polymers Washingto

374 CD8 T Cell Responses Emerging During Acute HIV Infection Drive Long-Term Control

SUNY Downstate Medical Center, Brooklyn, NY, United States

Hendrik Streeck', Jean-Pierre Routy', Heiko Jessen', Anthony Kelleher', Frederick Hecht', Raflick-Pierre Sekaly', Eric Rosenberg', Todd Allen', Mary Carrington', Marcus Atteld' "US Military HIV Research Program, Silver Spring, MD, United States, "Chonic Viral Illness Service, McGill University Health Centre, Montreal, QC, Canada, "Practice Jessen + Jessen, Berlin, Germany, "Centre for Immunology, St. Vincent's Hospital, Darlinghurst, Australia, "School of Medicine, University of California San Francisco, San Francisco, CA, United States, "VCTI, Port St Lucie, FL, United States," Nasachusetts General Hospital, Boston, MA, United States, "Nasachusetts General Hospital, Boston, MA, United States," National Cancer Institute, Frederick, MD, United States, "Heinrich-Pette Institut, Hambura, Germany

375LB Modification of Antibody 10E8 To Improve HIV-1 Neutralization

Gilad Ofek', Gabriel Lu', Baoshan Zhang', Amy Bao', Yongping Yang', McKee Krisha', Brett Zirkle', Jinghe Huang², Mark Connors², John R. Mascola', Peter D. Kwong'

Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States, ²Laboratory of Immunoregulation, National Institutes of Health, Bethesda, MD, United States

376 Association of Gag-Specific CD28+CD95+ CD8+ T-Cell Responses in Lymph Nodes With Lower Viral Loads Hiroshi Ishii¹, Saori Matsuoka¹, Tetsuro Matano¹.²

¹AIDS Research Center, National Institute of Infectious Diseases, Tokyo, Japan, ²The Institute of Medical Science, The University of Tokyo, Tokyo, Japan

377 Distinct Functional Properties of HIV-Specific Cytolytic CD4 T Cells Compared To Th1 or CD8 T Cells

Susan Johnson¹, Richard Lu¹, Alexander Oster¹, Franco Pissani¹, Mary A. Marovich², Diane L. Bolton¹, **Hendrik Streeck¹**"US Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States,²Division of AIDS, NIH/ NIAID. Bethesda, MD, United States

378 CD8+ T Cells From HLA-B*57 Elite Suppressors Inhibit Replication of HIV-1 Escape Mutants

Christopher W. Pohlmeyer¹, Robert W. Buckheit^{2,3}, Robert F. Siliciano^{1,4}, Joel N. Blankson¹

School of Medicine, The Johns Hopkins Medical Institution, Baltimore, MD, United States, "National Cancer Institute, Frederick, MD, United States," The Johns Hopkins Medical Institution, Baltimore, MD, United States, "Howard Hughes Medical Institute, Baltimore, MD, United States

Session P-F1 Poster Session Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall A Mechanisms of HIV Latency

379LB The Tat Inhibitor, Cortistatin A, Suppresses

Transcription and Reactivation of HIV Latent Cells
Guillaume Mousseau¹, Remi Fromentin², Nicolas Chomont², Susana
T. Valente¹

The Scripps Research Institute, Jupiter, FL, United States, Vaccine and Gene Therapy Institute, Port Saint Lucie, FL, United States

380 Mechanisms by Which Negative Elongation Factor (NELF) Establishes and Maintains HIV Latency Gillian M. Schiralli Lester', Malini Natarajan', Andrew J. Henderson'

¹Medicine, Infectious Disease, Boston University Medical Center, Boston, MA, United States,²Stowers Institute for Medical Research, Kansas City, MO, United States

381 Differential Role of Bromodomain Proteins in HIV-1 Latency

Daniela Boehm, Pao-Chen Li, Hendrik Sy, Melanie Ott Gladstone Institute of Virology and Immunology, Gladstone Institute/ University of California San Francisco, San Francisco, CA, United States

382 The NCOR2-Nurr1-CoREST Axis Impairs HIV
Reactivation in Latently Infected Microglial Cells
David Alvarez, Biswajit Das, Yoelvis Garcia-Mesa, Curtis

Dobrowolski, Jonathan Karn

Molecular Biology and Microbiology, Case Western Reserve University, Cleveland, OH, United States

383 Repression of HIV Transcription in Memory CD4+ T Cells by Blimp-1

Katarzyna Kaczmarek¹, Malini Natarajan², Zelda Euler³, Galit Alter³, Andrew J. Henderson¹

¹Molecular and Translational Medicine, Boston University School of Medicine, Boston, MA, United States, *Stowers Insitute for Medical Research, Kansas City, MO, United States, *Ragon Institute of MGH, MIT and Harvard, Boston, MA, United States

384 HIV-1 Reactivation and Autophagy Inhibition Synergize To Cell Death via Amino Acid Deprivation

Metodi V. Stankov¹, Diana Panayotova-Dimitrova², Georg M. N. Behrens¹

¹Department for Clinical Immunology and Rheumatology, Hannover Medical School, Hannover, Germany, ²Department of Dermatology, Venerology and Allergology, Mannheim Clinic of University of Heidelberg, Mannheim, Germany

385 JAK Inhibitors Tofacitinib and Ruxolitinib Block T-Cell Activation Mediated HIV Replication

Franck P. Dupuy¹, Jessica Brehm¹, Christina Gavegnano^{2,3}, Raymond F. Schinazi^{2,3}, Rafick P. Sekaly¹

Vaccine and Gene Therapy Institute VGTI-FL, Port Saint Lucie, FL, United States, Department of Pediatrics, Center for AIDS Research, Laboratory of Biochemical Pharmacology, Atlanta, GA, United States, Veterans Affairs Medical Center, Decatur, GA, United States

386LB Human Genome shRNA Screen Identifies Cellular Factors Controlling Latency

Shweta Hakre¹, Martin Kampmann², Nina N. Hosmane³, Michael C. Bassik⁴, Erik Verschueren⁵, Emilie Battivelli⁶, Robert F. Siliciano⁷, Nevan J. Krogan8, Jonathan S. Weissman2, Eric Verdin Virology and Immunology, Department of Medicine, UCSF, Gladstone Institutes, UCSF, San Francisco, CA, United States,2 Cellular and Molecular Pharmacology, Howard Hughes Medical Institute, University of California, San Francisco, San Francisco, CA, United States, Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States, Genetics, Stanford University School of Medicine, Stanford, CA, United States,5 Cellular and Molecular Pharmacology, University of California, San Francisco, San Francisco, CA, United States, Virology and Immunology, Gladstone Institutes, UCSF, San Francisco, CA, United States, Medicine, Howard Hughes Medical Institute, Johns Hopkins School of Medicine, Baltimore, MD, United States,8 Virology and Immunology, Cellular and Molecular Pharmacology, UCSF, Gladstone Institutes, UCSF, San Francisco, CA,

United States, Virology and Immunology, Department of Medicine UCSF, Gladstone Institutes, UCSF, San Francisco, CA, United States

Session P-F2 Poster Session

Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall A Dynamics of Persistent and Rebound HIV

387 Incomplete Adherence To cART Is Associated With Higher Levels of Residual HIV-1 Viremia

Jonathan Z. Li¹, Sebastien Gallien², Heather Ribaudo³, Andrea Helsey¹, David R. Bangsberg¹, Daniel R. Kuritzkes¹ Fifigham and Women's Hospital, Harvard Medical School, Boston, MA, United States.²Höpital Saint Louis, Paris, France,³Harvard School of Public Health, Boston, MA, United States, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States

388 Viral Dynamics of HIV-1 Rebound Viremia
Benjamin Scheinfeld, Katharine J. Bar
Medicine. University of Pennsylvania. Philadelohia. PA. United States

389 Transcripts Associated With the HIV Reservoir Correlate With the Pool Size of Long-Lived CD4 T Cells Maria J. Buzon¹², Ouyang Zhengyu¹, Amy Shaw¹, Hong Sun³, Forencia Pareyra¹³, Nadine Zangger², Xu Yu¹, Amalio Telenti⁵, Eric S.

Rosenberg*, Mathias Lichterfeld*

Pagon Institute of MGH, MIT and Harvard, Cambridge, MA, United

States, "Infectious Disease Division, Massachusetts General Hospital,
Boston, MA, United States," AIDS Research Center, The First Affiliated
Hospital of China Medical University, Shenyang, China, "Infectious
Disease Division, Brigham and Women's Hospital, Boston, MA, United
States, "Institute of Microbiology, Centre Hospitalier Universitaire
Vaudois, Lausanne, Switzerland

390 Massive Expansion of HIV Infected Cells With Identical Proviruses in Patients On Suppressive ART

Mary Kearney', Luke Smith', Johnathan Spindler', Charles Coomer', Gullaume J. Besson', Elizabeth M. Anderson', Wel Shao', John M. Coffin', John W. Mellors', Frank Maldarelli', Illiand Cancer Institute, MIH, Frederick, MD, MD, United States, 'University of Pittsburgh, Pittsburgh, PA, United States, 'Advanced Biomedical Computing Center, SAIC, Frederick, MD, MD, United States, 'Department of Molecular Biology and Microbiology, Tufts University, Boston, MA, United States, 'Department of Medicine, University of Pittsburgh, PA, United States

391 Effects of CCR5-△32 Heterozygosity On HIV-1 Reservoir Size and Immune Activation

Charlene Wang¹², Mohamed Abdel-Mohsen^{2,3}, Matthew C. Strain^{4,5}, Steven M. Lada^{4,5}, Leslie Cockerham³, Steven Yukl^{3,6}, Teri Liegler³, Douglas D. Richman^{4,5}, Steven G. Deeks³, Satish K. Pillas³, Satish K. Pillas³, Fenory University, Atlanta, GA, United States, Blood Systems Research Institute, San Francisco, CA, United States, Fubriersity of California, San Francisco, Ban Francisco, CA, United States, Fubriersity of California, San Diego, La Jolla, CA, United States, Fubriersity of California, San Diego, CA, United States, Veterans Affairs San Diego Healthcare System, San Diego, CA, United States, Veterans Affairs Medical Center, San Francisco, CA, United States

392 Seminal CMV Replication, Immune Activation, and Higher Proviral HIV DNA During Suppressive ART

> Sara Gianella¹, Marta Massanella¹, Douglas D. Richman^{1,2}, Susan J. Little¹, Celsa A. Spina^{1,2}, Eric S. Daar³, Michael P. Dube⁴, Richard H. Haubrich¹, Sheldon R. Morris¹, Davey M. Smith^{1,5}, and the CCTG 592 Team.

'Medicine, University of California San Diego, La Jolla, CA, United States, 'Veterans Affairs San Diego Healthcare System, San Diego, CA, United States, 'Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance, CA, United States, 'University of Southern California Keck School of Medicine, Los Angeles, CA, United States, 'Veterans Affairs San Diego Healthcare, San Diego, CA, United States

393 Persistent HIV in Plasma On During cART Can Lead To Rebound Viremia After Treatment Interruption

Junko Hattori¹, Wei Shao², Shawn Hill¹, Francesco R. Simonetti¹, Elizabeth M. Anderson¹, Catherine A. Rehm³, Sara E. Jones⁴, Richard T. Davey³, Frank Maldarelli¹ 'HIV Drug Resistance Program, National Cancer Institute, Frederick, MD, United States, 'Advanced Biomedical Computing Center, SAIG-Frederick, Frederick National Laboratories for Cancer Research, Frederick, MD, United States, 'National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, 'Clinical Research Directorate/CMRP, SAIC-Frederick, Inc., Frederick National Laboratory for Cancer Research, Frederick, MD, United States

Session P-F3 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall A Effect of ART Early in HIV Infection

394 How To Characterize Post-Treatment Controllers in Patients Treated During Primary HIV Infection? Eva Wolf¹, Johannes Bogner³, Knud Schewe³, Véronique Awettand-Fenoel¹, Christine Koegl¹, Ramona Pauli³, Jürgen Brust³, Albrecht Ulmer⁴, Lothar Schneider³, Hans Jaeger⁴, New Era Study Group 'MUC Research, Munich, Gemany²Dept. of Infectious Diseases, University Munich, University Hospital, Munich, Germany³Uch Study Center, Hamburg, Germany⁴Hôpital Necker, Enfants malades, Paris, France³Isapraxis - Private practice Dr. Becker/Dr. Pauli, Munich, Germany³Private practice Dr. Brust/Prof. Dr. Hensel/Dr. Ploeger/ Dr. Schuster, Mannheim, Germany³Private practice Dr. Schneider, Fuerth, Germany³WZ Karlsplatz - HIV Research and

395 Loss of HIV Serological Markers Following Early Treatment of Acute HIV Infection

Clinical Care Centre, Munich, Germany

Mark M. Manak', Sheila Peel², Jennifer Malia², Ashley Shutt¹, Siriwat Akapirat³, Tippawan Pankam⁴, James Fletcher⁴, Merlin Robb¹, Jerome Kim², Jintanat Ananworanich⁴

¹US Military HIV Research Program, HJF, Silver Spring, MD, United States, ²US Military HIV Research Program, WRAIR, Silver Spring, MD, United States, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴Thai Red Cross AIDS Research Center, Bangkok, Thailand

396 Early Antiretroviral Therapy Prevents the Establishment of HIV-1 Infection in Humanized-BLT Mice

Qingsheng L1', For Yue Tso', Guobin Kang', Wuxun Lu', Yue L1', Wenjin Fan', Chris J. Destache', Charles Wood' 'Nebraska Center for Vinology & School of Biological Sciences, University of Nebraska-Lincoln, Lincoln, NE, United States, 2 Pharmacy Practice, Creighton University School of Pharmacy & Health Professions, Omaha, NE, United States

397LB Lack of Detectable HIV DNA in a PrEP Study Participant Treated During "Hyperacute" HIV Infection

Hiroyu Hatano¹, Oliver Bacon¹², Stephanie Cohen¹², Albert Liu¹², Susan Buchbinder¹², Nicolas Chomon¹³, Mary Kearney¹, Janet Siliciano⁵, Teri Liegler¹, Steven G. Deeks' Medicine, University of California, San Francisco, San Francisco, CA, United States, ¹San Francisco Department of Public Health, San Francisco, CA, United States, ³Vaccine and Gene Therapy Institute of Florida, Port Saint Lucie, FL, United States, *National Cancer Institute, Frederick, MD, United States

398 Early HAART in Primary HIV Infection Protects TCD4
Central Memory Cells and Can Induce HIV Remission
Antoine Chéret^{1,2}, Charline Bacchus³, Adeline Mélard¹, Georges

Antoine Chéret*: Charline Bacchus³, Adeline Mélard¹, Georges Nembot¹, Catherine Blanc³, Assia Samri³, Véronique Avettand-Fenoël¹, Asier Saez-Cirion⁵, Brigitte Autran³, Christine Rouzioux¹, OPTIPRIM ANRS-147 Study Group

'EA 3620 Paris- Descartes University, Sorbonne Paris-Cité Virology Laboratory, Necker Enfants-Malades Hospital, Paris, France, 'Infectious Diseases Unit, Dron Hospital, Tourcoing, France, 'Pleire & Marie Curle University Paris VI, INSERM UMR-S 946 Immunity & Infection, Pitis-Salphitrier Hospital, Paris, France, 'Epidemiology and Public Health Department, INSERM U1018, AP-HP Le Kremlin-Bicètre, Paris, France, 'Unité de Régulation des Infections Rétrovirales, Institut Pasteur, Paris, France

Session P-F4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Methods for Measuring Reservoirs

399LB A Scalable RNA RT-PCR Based Assay To Quantify Latency Disruption in HIV-1 Infected Cells

Jason M. Hataye, Joseph P. Casazza, David R. Ambrozak, Eli Boritz, Takuya Yamamoto, Daniel C. Douek, Richard A. Koup Vaccine Research Center, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

400 HIV Antibody Characterization To Quantify Reservoir Size During Curative Interventions

Peter D. Burbelo', Ahmad Bayat^a, Craig S. Rhodes^a, Rebecca Hoh^a, Jeffrey N. Martin^a, Gero Hütter^a, Joseph A. Kovacs^a, **Steven G. Deeks**^a 'NIDCR, NIH, Bethesda, MD, United States, ^aClinical Center, NIH, Bethesda, MD, United States, ^aDept. of Medicine, UCSF, San Francisco, CA, United States, *Institute of Transfusion Medicine and Immunology, Heidelberg University, Mannheim, Germany, ^aCritical Care Medicine Dept., Clinical Center, NIH, Bethesda, MD, United States

401 High-Throughput Analysis of Full-Length Proviral HIV-1 Genomes From PBMCs

Hiromi Imamichi¹, Yan Guo², Collen Ludka², Ellen E. Paxinos², H. Clifford Lane¹, Da Wei Huang³, Richard A. Lempicki³, Michael P. S. Brown²

"NIAID, NIH, DHHS, Bethesda, MD, United States, Pacific Biosciences, Menlo Park, CA, United States, Leidos Biomedical Research, Inc., Frederick, MD, United States

402 Using Antibodies To Detect HIV Persistence in Treatment Intensification and Eradication Studies

Sheila M. Keating¹², Christopher D. Pilcher², Gary Murphy³, Alex Welte⁴, Reshma Kassanjee⁴, David Matten⁴, Mila Lebedeva¹, Shelley N. Facente², Steve G. Deeks⁵, Michael P. Busch¹², Consortium for Evaluation of Performance of HIV Incidence Assays (CEPHIA) ¹Blood Systems Research Institute, San Francisco, CA, United States² Plublic Health England, London, United Kingdom, "SACEMA, Stellenbosch, South Africa³ Medicine, UCSF, San Francisco, CA, United States

403LB HIV DNA in PHI Associates With T Cell Immunity and Predicts Disease Progression and Rebound Viraemia Jacob Hurst', James Williams', Elisabeth Hamlyn², Kersten Koelsch³, Sarah Fidler², Abdel Babiker¹, Jonathan Weber², Tony Kelleher⁵, Rodney Phillips¹, John Frater¹, Spartac Trial Investigators ¹University of Oxford, Oxford, United Kingdom,²Imperial College, London, United Kingdom,³University of New South Wales.

Sydney, United Kingdom, MRC Clinical Trials Unit, London, United

404 Next Generation Plasma HIV-1 RNA Single Copy Assays Anthony R. Cillo¹, David Vagratian², Margaret Bedison², Elizabeth Anderson³, Mary Kearney³, Elizabeth Fyne², Dianna Koontz², John Coffin¹, Michael Piatak², John Mellors² ¹School of Medicine, University of Pittsburgh, Pittsburgh, PA, United States; *University of Pittsburgh, Pittsburgh, PA, United States; *NCI-Frederick, Frederick, MD, United States, *Tufts University, Boston, MA, United States

Kingdom, 5University of New South Wales, Sydney, Australia

405 Assessment and Quantification of Cell Associate Unspliced HIV-1 RNA Using RT-ddPCR

Zixin Hu, Carlos Becerril, Nina H. Lin, Jonathan Li, Andrea Heisey, Athe M. Tsibris, Daniel R. Kuritzkes Division of Infectious Diseases, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, United States

406 Measuring HIV Latency Over Time: Reservoir Stability and Assessing Interventions

Nancie M. Archin¹, Amanda M. Crooks¹, Rosalie Bateson¹, Anna B. Cope⁸, Noelle P. Dahl¹, Joseph J. Eron¹, Cynthia L. Gay¹, JoAnn D. Kuruc¹, David M. Margolis¹³, **Ronald J. Bosch¹**"Department of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, No. United States, Department of Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, No. United States, "Department of Microbiology & Immunology, Department of Microbiology & Immunology

Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, Department of Biostatistics, Harvard School of Public Health, Boston, MA, United States

Session P-F5 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A What and Where Is the Reservoir?

407LB The Role of HIV Integration Sites in Extensive Clonal Expansion of Infected Cells in Patients

Frank Maldarelli¹, Xiaolin Wu², Mary Kearney¹, Ling Su², Wei Shao³, Shawn Hill¹, Francesco Simonetti¹, Jon Spindler¹, John Coffin⁴, **Stephen H. Hughes**¹

HIV Drug Resistance Program, NIH, Frederick, MD, United States, Eleidos, Inc., Frederick, MD, United States, Eleidos, Inc., Frederick, MD, United States, EleyAdvanced Biomedical Computing Center, Leidos, Inc., Frederick, MD, United States, Department of Molecular Biology and Microbiology, Tufts University School of Medicine, Boston, MA, United States

408 Identification of a New Th17 Subset That Contributes To HIV-1 Persistence in ART-Treated Subjects

Vanessa S. Wacleche^{1,2}, Annie Gosselin¹, Patricia Monteiro¹, Aurélie Cleret-Buhot^{1,2}, Sandrine DaFonsecat^{1,2}, Mohammad-Ali Jenabian³, Jean-Pierre Routy³, Petronela Ancutat^{1,2}

**CR-CHUM, Montreal, OC. Canada, **Université de Montréal, Montréal, Montréal, OC. Canada, **Université de Montréal, Montréal, OC. Canada, **Université de Montréal, Montr

QC, Canada, McGill University Health Centre, Montreal, QC, Canada

409 Identifying Defective and Identical Viral Genomes in HIV Reservoirs During Effective HIV Therapy

Susanne von Stockenstrom¹, Lina Odevall¹, Elizabeth Sinclair², Rui A. Raposo³, Douglas F. Nixon^{3,4}, Hiroyu Hatano², Peter Hunt², Peter Bacchettl⁵, Steven G. Deeks², Frederick M. Hecht⁴, Sarah Palmer^{8,8} ¹Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet, Stockholm, Sweden, Department of Medicine, University of California San Francisco, San Francisco, CA, United States, Division of Experimental Medicine, University of California San Francisco, San Francisco, CA, United States, Department of Microbiology, Immunology and Tropical Medicine, The George Washington University, Washington, D.C, United States, Department of Epidemiology and Biostatistics, University of California San Francisco, San Francisco, CA, United States, Centre for Virus Research, Westmead Millennium Institute for Medical Research and University of Sydney, Sydney, Australia

410 Healthy HIV-Infected Subjects Harbor HIV in Alveolar Macrophages, Which Can Impair Lung Function Sushma K. Cribbs¹, David M. Guidot¹, Angela M. Caliendo², Lou Ann

Brown³, Jeffrey Lennox⁴

"Pulmonary/Critical Care Medicine, Emory University, Atlanta,
GA, United States, Brown University, Providence, RI, United
States, Pediatrics, Emory University, Atlanta, GA, United
States, Infectious Diseases, Emory University, Atlanta, GA, United

411 Quantitative and Phylogenetic Analyses of Persistent HIV in Blood and GALT During Long-Term cART Francesco R. Simonattii Shawa Hilli Shao Wali Robert Goralicki

Francesco R. Simonetti¹, Shawn Hill¹, Shao Wei², Robert Gorelick³, Michael Piatak³, Mark Voellinger⁴, Stephen Wank⁴, Gabriella Diaz¹, Joe Kovacs⁵, Frank Maldarelli¹

1HIV Drug Resistance Program, National Cancer Institute, Frederick, MD, United States, "Advanced Biomedical Computing Center SAIC-Frederick, Tederick, Mational Laboratories for Cancer Research, Frederick, MD, United States," AIDS and Cancer Virus Program, Frederick National Laboratories for Cancer Research, Frederick, MD, United States, "National Institute of Digestive and Kidney Diseases, Digestive Disease Branch, National Institutes of Health, Bethesda, MD, United States," Critical Care Medicine Department, Clinical Center, National Institutes of Health, Bethesda, MD, United States,"

412 The Immune Checkpoint Blockers PD-1, LAG-3 and TIGIT Are Associated With HIV Persistence During ART Remi Fromentin', Sandrina DaFonseca', Wendy Bakeman', Gabriela Khoury², Elizabeth Sinclair³, Frederick Hecht³, Steven G. Deeks³, Sharon R. Lewin^{2,4}, Rafick P. Sekaly¹, Nicolas Chomont¹

¹VGTI Florida, Port St Lucie, FL, United States,² Infectious Diseases, Alfred Hospital and Monash University, Melbourne, Australia, ³Medicine, UCSF, San Francisco, CA, United States, ⁴Centre for Biomedical Research, Burnet Institute, Melbourne, Australia

413 Distinct Patterns of TLR-Mediated HIV Reactivation in Latentily-Infected Microglia vs Monocotes

David Alvarez, Yoelvis Garcia-Mesa, Biswajit Das, Curtis Dobrowolski, Stephanie Milne, Roxana Rojas, Jonathan Karn Molecular Biology and Microbiology, Case Western Reserve University, Cleveland. OH. United States

414 CXCR3 and CCR5 Expression Are Associated With 2LTR Circles in Patients On Antiretroviral Therapy

Gabriela Khoury', Jenny Anderson¹², Rémi Fromentin³, Nicolas Chomont³, Elizabeth Sinclair', Wendy Hartogensis⁵, Peter Bacchetti⁵, Frederick M. Hecht⁵, Steven G. Deeks⁵, Baron R. Lewin², Peter Bacchetti⁵, Irfectious Diseases, Monash University & Alfred Hospital, Melboume, Victoria, Australia, Burnet Institute, Melboume, Victoria, Australia, Burnet Institute of Florida, Port St Lucie, FL, United States, Medicine, University of California San Francisco, San Francisco, CA, United States (Medicine), University of California San Francisco, San Francisco, CA, United States (Medicine), Peter States (Medi

415 CD4+ and CD8+ T Cell Activation Are Strongly Associated With HIV-1 DNA in Resting CD4+ T Cells

Leslie Cockerham', Janet D. Siliciano', Elizbeth Sinclair', Una O'Doherty', Sarah Palmer', Steven A. Yukl', Matt C. Strair', Robert F. Siliciano's, Douglas R. Richman', Steven G. Deeks' 'HIV/AIDS Division, University of California - San Francisco, San Francisco, CA, United States, Eppartment of Medicine, Johns Hopkins University, Baltimore, MD, United States, ³Division of Experimental Medicine, University of California - San Francisco, San Francisco, CA, United States, "Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, PA, United States, "The University of Sydney, Sydney, Australia, "San Francisco VA Medical Center, San Francisco, CA, United States," University of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Johns Hopkins University, Baltimore, MD, United States, "Dons Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States," Description of California - San Diego, CA, United States, "Johns Hopkins University, Baltimore, MD, United States, "Description of California - San Diego, CA, United States, "Description of California - San Diego, CA, United States, "Description of California - San Diego, CA, United States, "Description of California

Session P-F6 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A What Can We Learn From Bone Marrow Transplantation?

416 Targeting SIV Reservoirs via Autologous Hematopoietic Stem Cell Transplant in Rhesus Macaques

Maud Mavigner', Benjamin Watkins^{2,3}, Benton Ö. Lawson¹, Ann Chahroudi^{1,2}, Leslie S. Kean^{2,2}, Guido Silvestri¹
'Verkes National Primate Research Center, Emory University, Atlanta, GA, United States, ²Department of Pediatrics, Emory University, Atlanta, GA, United States, ³Emory Transplant Center, Emory University, Atlanta, GA, United States

417 Dynamics of HSPC Repopulation in Non-Human Primates Revealed by a Decade-Long Clonal Tracking Sangu Kim¹, Namshin Kim², Angela Presson¹, Dong Sung An¹, Robert E. Donahue³, Irvin S. Y. Chen¹

*University of California, Los Angeles, Los Angeles, CA, United States, *Korean Bioinformatics Center, Daejeon, Republic of Korea,*National Heart, Lung and Blood Institute, Bethesda, MD, United States

418 Impact of Systemic Cytotoxic Chemotherapy for Malignancies On HIV-1 Reservoir Persistence

Timothy J. Henrich¹, Emily Hanhauser², Jonathan Z. Li¹, Andrea Heisey², Jeremy S. Abramson³, Ayad Hamdan⁴, Philippe Armand⁵, Ann S. LaCasce⁵, Daniel R. Kuritzkes¹

'Brigham and Women's Hospital, Harvard Medical School, Cambridge, MA, United States, 'Brigham and Women's Hospital, Cambridge, MA, United States, 'Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, 'Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, United States 'Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, United States States

419 Modeling Functional Cure of HIV in Nonhuman Primates Using Gene-Modified Hematopoietic Stem Cells Hans-Peter Kiem¹, Christopher W. Peterson¹, Patrick M. Younan¹,

Hans-Peter Klem', Christopher W. Peterson', Patrick M. Younan', Shiu-Lok Hu², Patricia Polacino², Michael Holmes³, Philip Gregory³, Jianbin Wang³

¹Transplantation Biology, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ²University of Washington, Seattle, WA, United States, ³Sangamo Biosciences, Richmond, CA, United States

Session P-F7 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall A Effect of ART On Persistence

420 Patterns of Persistent Viremia After 10 Years of Suppressive ART: ACTG A5276s

Sharon A. Riddler', Evgenia Aga², Ronald Bosch², Joseph J. Eron³, Rajesh Gandhi⁴, Barbara Bastow⁵, Margaret Bedison⁴, David Vagratian⁴, John W. Mellors³, A5276s Protocol Team **University of Pittsburgh, Pittsburgh, PA, United States, **Harvard School of Public Heath, Boston, MA, United States, **University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, **Massachusetts General Hospital, Boston, MA, United States **Scientific Systems, Inc. Silver Spring, MD, United States

421LB Comparison of Combination ART Regimens for Viral Suppression in SIV-Infected Rhesus Macaques

G. Del Prete', R. Geleziunas', J. Hesselgesser', B. Li², J. Hattersley², B. Lu², J. Zheng², J. Smedley³, M. Piatak, Jr¹, J. D. Lifson¹ 'AIDS and Cancer Vinus Program, Leidos Biomedical Research, Inc., Frederick, MD, United States, ²Gilead Sciences, Inc., Foster City, CA, United States, ²Laboratory Animal Sciences Program, Leidos Biomedical Research, Inc., Frederick, MD, United States

422 Impact of RAL/MVC Intensification With or Without HIV-rAd5 Vaccination On HIV DNA: ERAMUNE 02 Study

Chad Achenbach¹, Steven Deeks², Timothy Wilkin³, Baiba Berzins¹, Joseph Casazza⁴, Sidonie Lambert⁶, Lambert Assoumou⁶, Christine Katlama^{5,6}, Brigitte Autran^{5,6}, **Robert Murphy**¹, the ERAMUNE 02 Study Group

"Northwestern University, Chicago, IL, United States,"University of California San Francisco, San Francisco, CA, United States, "Comel University, New York, NY, United States, "Advanced Institutes of Health/Vaccine Research Center, Bethesda, MD, United States," Höpital Pitié-Salpëtriëre, Paris, France, "Université Pierre et Marie Curie (UPMC), Paris, France

423 Impact of Three Different ART Regimens On the GALT: A Randomized Clinical Trial

Sergio Serrano-Villar¹, Talia Sainz², Anthony Albanese³, Tammy Yotter³, Paolo Troia-Cancio³, Steve Deeks⁴, Elizabeth Sinclair⁴, Darin Lartimore³, Vera Go³, David Asmuth⁵

'Infectious Diseases Department, Hospital General Ramon y Cajal, Madrid, Spain, "Molecular Immune-Biology Laboratory, Hospital General Universitario Gregorio Marañon, Madrid, Spain, "University of California Davis Medical Center, Sacramento, CA, United States, "UCSF, San Francisco, CA, United States," UCDMC and VANCHCS, Sacramento, CA, United States

424 HIV Reservoir Changes in Resting CD4 Subsets in the IL7 Plus ART Intensification Eramune-01 Study

Manuela Pogliaghi^{1,2}, Sidonie Lambert^{3,4}, Lambert Assoumou⁵, Rima Zoorob¹, Laura Papagnot^{1,6}, Francois Lecardonnel⁶, Vincent Calve^{2,4}, Christine Katlama^{5,7}, Brigitte Autran¹, The Eramune-01 Study Group

'UPMC University Paris 06, UMR-S945, Laboratory of Immunity and Infection, Paris, France, 'Università Vita-Salute, San Raffaele Scientific Institute, Milan, Italy-"UPMC University Paris 06, INSERM, UMR-S943, Epidemiology, Therapeutic Strategies and Clinical Virology in HIV infection, Laboratory of Virology, Paris, France, 'AP-HP, Pitié-Salpétrière Hospital, Department of Virology, Paris, France, "UPMC University Paris 6, INSERM, UMR-S943, Epidemiology, Therapeutic Strategies and Clinical Virology in HIV Infection, Center of Methodology, Paris, France, "ORVACS, Pitié-Salpétrière Hospital, Paris, France, 'AP-HP, Pitié-Salpétrière Hospital, Department of Infectious and Tropical Diseases, Paris, France

425LB Pre-ART HIV-1 RNA as well as On-Treatment CD8 Count and CD4/CD8 Ratio Predict Residual Viremia On ART

Sharon A. Riddler¹, Evgenia Aga², Ronald Bosch², Barbara Bastow³, Margaret Bedison¹, David Vagratian¹, Joseph J. Eron¹, Rajesh Gandhi³, John W. Mellors¹, for the ACTG AS276s Protocol Team ¹Medicine/Infectious Diseases, University of Pittsburgh, Pittsburgh, PA, United States, *Statistical & Data Analysis Center, Harvard School of Public Health, Boston, MA, United States, *Moedicine/Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, *Medicine/Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, *Medicine/Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States

Session P-F8 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A Immunology for Cure

426 Eradication of HIV-1 Reservoirs With Antibody Mediated Killing

Zelda Euler¹, Seav H. Ly¹, Matthew Hurton¹, Athe M. N. Tsibris^{2,3}, Galit Alter¹

¹Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, United States, ²Division of Infectious Diseases, Brigham and Women's Hospital, Boston, MA, United States, ³Harvard Medical School, Boston, MA. United States

427LB Maraviroc Reverts Latent HIV-1 in ART Suppressed Patients Through NFkB Without Viral Load Increase

Nadia Madrid-Elena^{*}, Beatriz Hernández-Novoa^{*}, Beatriz Sastre Turrión^{*}, Sergio Serrano-Villar^{*}, Ajantha Solomon², Carolina Gutierrez^{*}, Javier Zamora³, Laura García-Bermejo³, Sharon R Lewin⁴, Santiago Moreno⁴

Infectious Diseases, Hospital Ramón y Cajal, Madrid, Spain, Burnet Institute, Melbourne, Australia, Hospital Ramón y Cajal, Madrid, Spain, Infectious Diseases, Monash University, Burnet Institute and Alfred Hospital, Melbourne. Australia

428 Regulatory B cells Attenuate Anti-HIV CTL Responses After Reactivation of Latent Reservoirs

Basile Siewe¹, Jennillee Wallace¹, Sonya Rygielski¹, Jack T. Stapleton², Jeffrey Martin³, Steven G. Deeks⁴, Alan Landay¹ 'Rush University Medical Center, Chicago, It., United States, Iowa City, Veterans Affairs Medical Center and the University of Iowa, Iowa City, IA, United States, *Rush University Medical Center, San Francisco, CA, United States, *HIV/AIDS Division, San Francisco General Hospital, University of California, San Francisco, CA, United States

429 Evaluation of HIV-1 Reservoir Characteristics in a Therapeutic HIV-1 Gag Vaccine Trial

Jonathan Z. Li¹, Andrea Heisey¹, Hayat Ahmed¹, Michael M. Lederman², Hongying Wang³, Lu Zheng³, Robert T. Schooley⁴, Daniel R. Kuritzkes¹, the ACTG A5197 Study Team ¹Brigham and Women¹s Hospital, Harvard Medical School, Boston, MA, United States;²Case Western Reserve University, Cleveland, OH, United States;³Harvard School of Public Health, Boston, MA, United States;⁴University of Caifomia San Diego, La Jolia, CA, United States

430LB Engineered TCR-Redirected Clearance of Gag-Positive Reservoir Cells From ART-Treated Subjects

Hongbing Yang¹, Sandrine Buisson², Gemma Hancock¹, Rebecca Ashfield¹, Annelise Vuidepot², Tara M. Mahon², Peter E. Molloy², Namir Hassan², Bent K. Jakobsen², Lucy Dorrell¹ "University of Oxford, Oxford, United Kingdom,²Immunocore Ltd, Abinadon, Oxon, United Kingdom

Cross-Clade Inhibition of HIV On Primary Cells by CXCR4 or CCR5 Fused To the C34 Peptide From gp41

George J. Leslie¹, Jianbin Wang², Max W. Richardson³, Andrea P. O. Jordon¹, Philip D. Gregory², James L. Riley³, Michael C. Holmes², James A. Hoxie¹

¹Medicine, University of Pennsylvania, Philadelphia, PA, United States, Sangamo Bioscience, Inc, Richmond, CA, United States, Microbiology, University of Pennsylvania, Philadelphia, PA, United States Session P-F9 Poster Session
Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall A
Toward A Cure

432LB Ing-B a Potential PKC Activator for HIV Eradication Is Active in SIVmac251-Infected Macagues

Amilcar Tanuri^{1,2}, Lucio Gama³, Renato Santana^{1,2}, Mark Lewis⁴, Andrea Savarino⁵, lart Shytaj⁵, Janice E. Clements³, **Luiz F.**

'Genetics, UFRJ, Rio de Janeiro, Brazil, 'UFRJ, Rio de Janeiro, Brazil,' Johns Hopkins School of Medicine, Baltimore, MD, United States, 'BioQual, Inc, Rockville, MD, United States, 'Istituto Superiore di Sanità, Rome, Italy, 'FkyoLab, Valinhos, Brazil

434 SAHA Dampens TCR-Mediated Reactivation of Latently Infected Cells

Pejman Mohammadi^{1,2}, Julia di Iulio^{2,3}, Miguel Munoz³, Niko Beerenwinkel^{1,2}, Amalio Telenti³, **Angela Ciuffi**³ ¹Department of Biosystems Science and Engineering, ETH Zurich, Basel, Switzerland; ²Swiss Institute of Bioinformatics, Basel and Lausanne, Switzerland, ³Lausanne University Hospital and University of Lausanne, Institute of Microbiology, Lausanne, Switzerland

435LB HIV-1 Expression Within Resting CD4 T-Cells Following Multiple Doses of Vorinostat In Vivo

Yang Kuo-Hsiung¹, Nancie M. Archin², Christopher H. Woelk³, Matthew C. Strain⁴, Douglas D. Richman⁴, JoAnn D. Kuruc², Richard J. O. Barnard⁵, Daria J. Hazuda², Joseph J. Eron², **David M.**

Margolis²

"School of Pharmacy, UNC Chapel Hill, Chapel Hill, NC, United States,"School of Medicine, UNC Chapel Hill, Chapel Hill, NC, United States, "University of Southampton, Southampton, United Kingdom, "School of Medicine, UCSD and San Diego VAMC, San Diego, CA, United States," Merck Research Laboratories, White Horse Junction, PA, United States

436 Autophagy Induction by Histone Deacetylase Inhibitors Inhibits HIV-1 Infection in Macrophages Grant R. Campbell, Rachel S. Bruckman, Stephen A. Spector University of California San Diego, La Jolla, CA, United States

437 An In Vitro Compound Screen for Selective Apoptosis Induction in HIV-1 Infected Resting CD4+ T Cells Adam M. Spivak'. Alberto Bosque', Vicente Planelles² 'Medicine, University of Utah School of Medicine, Salt Lake City, UT, United States, 'Pathology, University of Utah School of Medicine, Salt Lake City, UT, United States

438LB Panobinostat Induces HIV Transcription and Plasma Viremia in HIV Patients on Suppressive cART

Thomas Rasmussen, and the CLEAR study group Dept. of Infectious Diseases, Aarhus University Hospital, Aarhus, Denmark

439 Failure of HIV-1 To Replicate in Human T Cells Expressing a Tat Mutant

David Harrich, Hongping Jin, Lina Rustanti, Ann Apolloni, Haran Sivakumaran, Min-Hsuan Lin, Dongsheng Li, Ting Wei Cell and Molecular Biology, QIMR Berghofer, Herston, QLD, Australia

440 Hepatitis C Therapy Reduces CD4 T-Cell-Associated HIV-1 DNA in HIV-1/HCV Coinfected Patients

Hong Sun^{1,2}, Maria Buzon^{1,3}, Amy Shaw¹, Randi Berg⁴, Xu G. Yu¹, Sara Ferrando-Martinez^{5,6}, Manuel Leal^{5,7}, Ezequiel Ruiz-Mateos^{5,7}, Mathias Lichterfeld³

Ragon Institute of MGH, MIT, and Harvard, Boston, MA, United States, "Key Laboratory of AIDS Immunology, Department of Laboratory Medicine, First Affiliated Hospital of China Medical University, Shenyang, China, "Infectious Disease Division, Massachusetts General Hospital, Boston, MA, United States, "Infectious Disease Division, Aarhus University Hospital Skejby, Aarhus, Denmark, "Laboratory of Immunovirology, Biomedicine Institute of Seville, Division of Infectious Diseases, Microbiology and Preventive Medicine, Virgen del Rocio University Hospital, University of Seville, Seville, Spain, "Laboratorio ImmunoBiologia Molecular, Hospital General Universitario Gregorio Marañón, Madrid, Spain," Consejo Superior de Investigaciones Scientificas, Madrid, Spain

441 HIV-1 Nef Inhibits Autophagy in Macrophages Through Transcription Factor EB Sequestration

Grant R. Campbell, Pratima Rawat, Rachel S. Bruckman, Stephen A. Spector University of California San Diego, La Jolla, CA, United States

Session P-G1 Poster Session

Tuesday March 4, 2014, 2:30 PM—4:00 PM Exhibit Hall A CNS Viral Escape and Neuroinflammation On ART

- 442 HIV-1 RNA Detection in CSF in ART-Treated Subjects With Incomplete Viral Suppression in Plasma Sam Nightingale, the PARTITION Study Group Institute of Infection and Global Health, University of Liverpool, Liverpool, United Kinadom
- 443 CSF Viral Escape in Patients Without Neurological Disorders: Prevalence and Associated Factors Carmela Pinnetti¹, Patrizia Lorenzini¹, Federica Forbici¹, Adriana Ammassari¹, Raffaella Libertone¹, Maria Letizia Giancola¹, Maria Rosaria Capobianchi¹, Carlo Federico Perno², Andrea Antinori¹ 'National Institute for Infectious Disease, Rome, Italy²University of Rome, Rome, Italy
- 444 Early Monocyte Inflammation Among Treatment-Naïve Acute HIV-Infected Thai Subjects

Lishomwa C. Ndhlovu¹, Mary Margaret Byron¹, Guangxiang Zhang², Duanghathai Sutthichom³, Somprartthana Rattanamanee³, Rapee Trichavaroj⁴, Nittaya Phanuphak³, Victor Valcour⁵, Merlin Robb⁵, Jintanat Ananworanich¹

'Hawaii Center for AIDS, University of Hawaii, Honolulu, HI, United States,' University of Hawaii, Honolulu, HI, United States,' SEARCH, The Thai Red Cross AIDS Research Center, Bangkok, Thailand, 'Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, 'University of California San Francisco, San Francisco, CA, United States,' US Military NIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States,' SEARCH, HIV-NAT, The Thai Red Cross AIDS Research Center, Bangkok, Thailand

445 Cerebrospinal Fluid Viral Blips and Persistent Escape in HIV-Infected Patients On ART

Arvid Eden¹, Lars-Magnus Andersson¹, Dietmar Fuchs², Lars Hagberg¹, Staffan Nilsson², Bo Svennerholm¹, Aylin Yilmaz¹, Henrik Zetterberg¹, Magnus Gisslen¹ 'University of Gothenburg, Gothenburg, Sweden, ²Innsbruck Medical University, Innsbruck, Austina, ²Chalmers University of Technology,

446 Mitochondrial DNA Is Associated With Inflammation and Neurocognitive Deficits in HIV Infection Josué Pérez-Santiago¹, Sanja R. Mehta¹, Sara Gianella¹, Rachel D. Schrier¹, Mariana Cherner¹, Susanna R. Var¹, Tyler R. C. Day¹, Miguel Ramirez-Gaona², Davey M. Smith^{1,2}, Scott L. Letendre¹ 'Medicine, University of California San Diego, La Jolla, CA, United

Gothenburg, Sweden

- States, Bioinformatics, University of Alberta, Edmonton, AB, Canada, Veterans Administration San Diego Healthcare System, San Diego, CA, United States
- CNS Outcomes of cART vs. cART plus Maraviroc and Raltegravir Intensification During Acute HIV

Victor Valcour', Serena Spudich', Napaporn Sailasuta', Sukalaya Lerdlum', James L. K. Fletcher', Eugene D. M. B. Kroon', Peeriya Mangyu', Bonnie Slike', Jerome Kim', Jintanat Ananworanich', on behalf of the SEARCH 010/RV254 Study Group 'Memory and Aging Center, UCSF, San Francisco, CA, United States, *Neurology, Yale University, New Haven, CT, United States, *Huntington Medical Research Institutes, *Pasedena, CA, United States, *Flacutly of Medicine, Chulalongkom University, Bangkok, Thailand, *SEARCH, The Thai Red Cross AIDS Research Center, Bangkok, Thailand, *U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Springs, MD, United States, *Faculty of Medicine, Chulalongkom University, Bangkok, Thailand

Session P-G2 Poster Session Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall A HAND in Aging Populations

448 The Effects of Age and Study Cohort On Brain Structure Among Men With HIV Disease

James T. Becker¹, Lawrence A. Kingsley², Mikhail Popov³, Nisha Shah⁴, Andrew J. Levine⁵, Eileen M. Martin⁶, Eric N. Miller⁷, Cynthia A. Munro⁸, Ann Ragin⁹, Ned Sacktor¹⁰

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449 FMRI Reveals Asymptomatic Deficits Among HIV+ Older Adults On cART When Compared To HIV- Controls

Manya Magnus¹, Rebecca Barasky¹, Halli Olsen¹, Xiong Jiang² ¹Epidemiology and Biostatistics, George Washington University, Washington, DC, United States,²Georgetown University, Washington, DC, United States

450 Longitudinal Progression of Cortical Atrophy in HIV-Patients On Stable Treatment

Michael R. Nowak¹, Bradford Navia², Jaroslaw Harezlak³, Constantin Yiannoutsos³, Charles Guttmann⁴, Elyse Singer⁵, Thomas Campbell⁶, Eric Daar⁵, Giovanni Schifitto¹, David Tate®

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451 FMRI Evidence for HIV-Induced Acceleration of Aging in Middle-Aged Women

Xiong Jiang¹, Chenglong Liu², Matthew Leclair², Cuiwei Wang², Xiaohan Xu², Pilar Hamilton², Lakshmi Goparaju², Mary Young²

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452 Factors Related To Brain Atrophy in a Cohort of HIV Infected Patients: ANRS CO3 Aquitaine Cohort

Carole Dufouil¹, Laura Richert¹, Rodolphe Thiébaut¹, Mathias Bruyant¹, Frédéric Dauchy², Michèle Allard³, Didier Neau³, François Dabis¹, Fabrice Bonnet³, Geneviève Chêne¹

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453 Hyperphosphorylated Tau in Cerebrospinal Fluid: A Biomarker for Neurological Aging in HIV-1?

Jan J. Krut¹, Magnus Gisslén¹, Lars Hagberg¹, Henrik Zetterberg², Richard W. Price³, Staffan Nilsson¹, Paola Cinque³ "Infectious Diseases, Salipenska Academy, Gothenburg, Sweden,²Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, University of Gothenburg, Gothenburg, Sweden,²Neurology, University of California San Francisco, San Fransisco, CA, United States,⁴Mathematical Sciences, Chalmers University of Technology, Gothenburg, Sweden,³Infectious Diseases, San Raffaele Hospital, Millan, Italy

Session P-G3 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Neuropathogenesis

454 Efavirenz Produces a Differential Bioenergetic Response in Neurons and Glial Cells

Haryes A. Funes', Nadezda Apostolova', Fernando Alegre², Miriam Polo³, Ana Blas-Garcia', **Juan V. Esplugues'****Departamento de Farmacologia, Facultad de Medicina, Universitat de Valencia, Valencia, Spain, **University Hospital Dr. Peset, Valencia, Spain, **University Hospital Dr. Peset, Valencia, Spain. **University Hospital Dr. Peset, Valencia, Spain.**University Hospital Dr. Peset, Valencia, Spain.**University Hospital Dr. Peset, Valencia, Spain.**University Hospital Dr. Peset, Valencia, Spain.**

455 Corneal Sensory Nerve Fiber Loss in SIV-Infected Macaques: Tracking HIV PNS Damage

Jamie Dorsey¹, Lisa Mangus¹, Jonathan Oakley², **Joseph Mankowski**^{1,3}

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456 HIV-Tat Protein in Inflammatory Infiltrates of CNS-IRIS and in CSF of Patients On ART

Gloria von Geldern¹, Tory P. Johnson¹, Richa Tyagi¹, Ned Sacktor², Justin C. McArthur⁴, Scott Letendre⁴, Avindra Nath¹ 'NINDS, NIH, Bethesda, MD, United States.²Dept. of Neurology, Johns Hopkins University, Baltimore, MD, United States.³Dept. of Neurology, Johns Hopkins University, Baltimore, MD, United States,¹Dept. of Neurology, Neurology, Unversity of California, San Diego, San Diego, CA, United States

457 Central Nervous System Demyelination in Pediatric SIV Infection

Herman Kamboj¹, Kimberly Curtis¹, Heather Carryl¹, Hayford Agyemang¹, Koen Van Rompay², Kristina Abelȝ 'Mark Burke¹ 'Physiology & Biophysics, Howard University, Washington, D.C, United States,²University of California Davis, Davis, CA, United States,²University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

458 Brain Iron Transport Is Associated With Neurocognitive Performance in HIV/AIDS

Asha R. Kallianpur¹, James R. Connor², Christopher C. Coe³, Benjamin B. Gelman⁴

¹Genomic Medicine, Cleveland Clinic Foundation/Lemer Research Institute, Cleveland, OH, United States; Neurosurgery, Penn State Milton S. Hershey Medical Center, Hershey, PA, United States; ³Psychology, University of Wisconsin, Madison, WI, United States; ⁴Pathology, University of Texas Medical Branch, Galveston, TX, United States

461 Cognitive and Brain Microstructure Abnormalities in HIV-1 Infected Humanized Mice

Prasanta K. Dash', Michael D. Boska', Sidra P. akhter', Jaclyn S. Knibbe', Adrian A. Epstein', Robin R. High', Harris A. Gelbard³, Larisa Y. Poluektova', Howard E. Gendelman', Santhi Gorantla' ¹Pharmacology and Expt. Neuroscience, University of Nebraska Medical Center, Omaha, NE, United States, "Radiology, University of Nebraska Medical Center, Ormaha, NE, United States," University of Rochester Medical Center, NY, NY, United States

462 SIV Dynamics in the CD8-Depleted vs Non-CD8-Depleted Rhesus Macague Model for NeuroAIDS

Susanna L. Lamers¹, David J. Nolan², Brittany D. Rife³, Gary B. Fogel¹, Tricia Burdo⁵, Kenneth C. Williams⁵, Marco Salemi³ 'Bioinfoexperts, LLC, Thibodaux, LA, United States, Popartment of Pathology, Immunology, and Laboratory Medicine, University of Florida, Gainesville, FL, United States, *University of Florida, Gainesville, FL, United States, *Natural Selection, San Diego, CA, United States, *Boston College, Boston, MA, United States

463 Vascular Endothelium and Neurological Performance During Primary HIV Infection

Sebastian Urday¹, Kevin Robertson², Fang-yong Li¹, Felicia C. Chow³, Julia Peterson³, Elaine M. Nitta³, Richard W. Price³, Priscilla Y. Hsue³, Serena Spudich¹

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Session P-G4 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A Host Genetics in HAND

464 Heme Oxygenase-1 Polymorphism and Protein Deficiency Associate With Neurological Disease in HIV Alexander J. Gill', Suren S. Ambegaokar', Colleen E. Kovacsics', Stephanie A. Cross', Benjamin B. Gelman', Dennis L. Kolson' 'Department of Neurology, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, United States 'Department of Pathology, University of Texas Medical Branch, Galveston, TX, United States

465 Mitochondrial DNA Haplogroups and Neurocognitive Impairment in the CHARTER Cohort

Todd Hulgan¹, David Samuels¹, William Bush¹, Ronald Ellis², Scott Letendre², Peter Straub¹, Deborah Murdock¹, Donald Franklin², Igor Grant², Asha Kallianpur³, for the CNS HIV Antiretroviral Therapy Research (CHARTER) Group

Vanderbilt University, Nashville, TN, United States, ²University of California San Diego, San Diego, CA, United States, ³Cleveland Clinic Foundation/Lerner Research Institute, Cleveland, OH, United States

466 MBL2 Promoter Polymorphism rs7096206 Predicts Brain Metabolite Anomalies in HIV-Infected Adults Kumud K. Singh, Oianqian Deng, Christine Fennema-Notestine, Florin Vaida, Ronald J. Ellis, Scott L. Letendre, Donald Franklin, Debralee Rosario, Robert K. Heaton, Igor Grant, and CHARTER Group University of California San Diego, La Jolla, CA, United States

Session P-G5 Poster Session Wednesday March 5, 2014, 2:30 pm-4:00 pm Exhibit Hall A

PML and Other CNS Infections

467 Pathogenesis of JC Virus Reactivation During Natalizumab Treatment

Spyridon Chalkias¹, Xin Dang¹, Evelyn Bord¹, Marion Stein², Philip Kinkel², Jacob Sloan², Maria Houtchens³, Guy Buckle³, Carolina Ionete⁴, Igor Koralnik¹

Harvard Medical School, Center for Virology and Vaccine Research, Boston, MA, United States, Department of Neurology BIDMC, Boston, MA, United States, Department of Neurology BWH, Boston, MA, United States, Department of Neurology Umass, Worchester, MA, United States

468 Impaired T. pallidum Opsonic Antibody Function in HIV-Infected Patients With Neurosyphilis

Christina Marra, Lauren Tantalo, Sharon Sahi, Emily Ho, Shelia Dunaway, Trudy Jones, Sheila Lukehart University of Washington, Seattle, WA, United States

469 Significance of Plasma JCV-DNA in HIV Progressive Multifocal Leukoencephalopathy (PML)

Francesca Ferretti', Manuela Testa¹, Valèria Lóngo¹, Constantin Theodore Yiannoutsos², Beverly Sue Musick², Annamaria Pazzi¹, Antonio Boschini³, Simona Bossolasco¹, Adriano Lazzarin¹, Paola Cinque¹

'San Raffaele Scientific Institute, Milan, Italy, Department of Biostatistics, Indiana University, Indianapolis, IN, United States, 'S.Patrignano Medical Centre, Ospitaletto di Rimini, Italy

Session P-G6 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall A CNS Viral Genetics

470 CD4-Independent Infection in the CNS of R5 SHIV+ Macaques Is Associated With Severe Neuropathology Ana Rachel Leda¹², Ke Zhuang¹, Lily Tsai¹, Agegnehu Gettie¹, Heather Knight³, Carole Harbison², Susan Westmoreland³, Cecilia Cheng-Mayer¹

¹Aaron Diamond AIDS Research Center, New York, NY, United States, ²Federal University of Sao Paulo, Sao Paulo, Brazil, ³New England Primate Research Center, Southborough, MA, United States

471 HIV-Associated Neurocognitive Disorder Is Associated With HIV-1 Dual Infection

Gabriel A. Wagner¹, Antolne Chaillon², Donald R. Franklin², Gemma Caballero³, Sergei L. Kosakovsky Pond², Robert K. Heaton², Douglas D. Richman², Davey M. Smith², CHARTER Group 'Infectious Diseases, University of California San Diego, La Jolla, CA, United States, University of California San Diego, La Jolla, CA, United States, Veterans Affairs San Diego Healthcare System, San Diego, CA, United States, Veterans Affairs San Diego Healthcare System, San Diego, CA, United States, Veterans Affairs San Diego Healthcare System, San Diego, CA, United States, Veterans Affairs San Diego Healthcare System, San Diego, CA, United States, Veterans Affairs San Diego, CA, Un

472 Single Genome Analysis Reveals Genetic Characteristics of Neuroadaptation Across HIV-1 Envelope

Teresa H. Evering, Leslie St. Bernard, Charles Farmer, Martin Markowitz

The Aaron Diamond AIDS Research Center, New York, NY, United States

Session P-G7 Poster Session Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall A

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall A ART Effects On HAND and CNS Reservoirs

B HIV-1 Replication in Central Nervous System Increases Over Time On Protease Inhibitor Only Therapy Christoph Stephan', Maximilian Donath', Timo Wolf', Annette Haberl', Markus Bickel', Sirl Göpel', Pavel Khaykin', Annemarie Berger², Dimitria Bon³, Reinhard Brodt' 'Infectious Diseases, Goethe-University Hospital, Frankfurt, Germany, *Medical Virology Institute, Goethe-University Hospital, Frankfurt, Germany, *Biomathematics, Goethe-University Hospital,

475 Novel Method for More Reliably Estimating the Burden of Cognitive Impairment in HIV

Frankfurt, Germany

Tanja Šu¹, Judith Schouten²3, Gert J. Geurtsen², Ferdinand W. Wit³4, Ineke G. Stübts², Peter Portegies²5, Matthan W. A. Caan¹, Peter Reiss³4, Charles B. Majole¹, Ben A. Schmand²7, on behalf of the AGEhIV Cohort Study Group

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476 Improvement of Depression and Anxiety After
Discontinuation of Long-Term Efavirenz Treatment
Khutso M. Mothapo', Arnt Schellekens², Reinout van Crevel¹, Karin
Grintjes-Huisman¹, Monique Keuter¹, Peter Koopmans¹, Andre van
der Ven¹

Unternal Medicine and Nijmegen Institute for Infection, Inflammation and Immunity, Radboud University Medical Center, Nijmegen, Netherlands, Psychiatry, Radboud University Medical Center, Nijmegen, Netherlands

477 New Advanced EEG Technique To Monitor Early Brain Damage in Naïve HIV and Its Recovery During ART Massimo Andreoni¹, Claudio Babiloni²³, Paolo Maria Rossini⁴, Paolo Onorati³⁵, Stefano Ferracuti⁴, Francesco Di Campli², Antonio Aceti³, Elisabetta Teti⁴, Alfredo Pennica³ 'Clinical Infectious Diseases, Tor Vergata University, Rome, Italy,'Department of Clinical and Experimental Medicine, University of Foggia, Foggia, Italy,'Department of Neuroscience, San Raffaele Pisana, Rome, Italy,'Institut of Neurology - Department of Geriatrics, Catholic University "Sacro Cuore," Rome, Italy,*Physiology and Pharmacology, Sapienza University of Rome, Rome, Italy,*Psychiatry, Sapienza University of Rome - S. Andrea Hospital, Rome, Italy, "Sapienza University of Rome, Rome, Italy," Clinical Infectious Diseases, Sapienza University of Rome - S. Andrea Hospital, Rome, Italy

478 HIV-Replication Control Rates Needed To Prevent Neurocognitive Performance (NP) Decline

Ignacio Pérez-Valero¹, Robert Heaton², Donald Franklin³, Scott Letendre², Reena Deutsch², Bernard Gelman¹, David Simpson², Ann Collier¹, Igor Grant², and the CHARTER Group
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479 CSF Biomarker Profile in HIV Patients With and Without CSF Viral Escape

Ignacio Pérez-Valero¹, Scott Letendre², Robert Heaton³, Ronald Ellis³, Allen MCCutchan³, David Simpson⁴, Reena Deutsch³, Igor Grant³, And the CHARTER Group

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480 Accuracy of NEU Screen for Detecting Cognitive Impairment in Virologically Suppressed HIV Patients

Jose A. Muñoz-Moreno^{*}, Anna Prats¹, Núria Pérez-Álvarez¹, Inmaculada Nieto-Verdugo¹, Carmina R. Fumaz¹, Maria J. Ferrer¹, Maite Garolera², Bonaventura Clotet^{1,3}

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481 Determinants of Cognitive Impairment in HIV-Positive Men On cART and Uninfected Controls

Judith Schouten¹², Tanja Su³, Ferdinand W. Wit^{2,4}, Neeltje A. Kootstra⁵, Matthan W. A. Caan³, Gert J. Geurtsen¹, Ben A. Schmand^{1,6}, Charles B. Majoie³, Peter Portegies^{1,7}, Peter Reiss^{2,4}, on behalf of the AGEhIV Cohort Study Group

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482 HIV Reactivation by the Histone Deacetylase Inhibitor Panobinostat: Effects On CNS

Thomas A. Rasmussen¹, Ole S. Søgaard¹, Holger J. Møller², Christel R. Brinkmann¹, Rikke Olesen¹, Alex L. Laursen¹, Lars Østergaard¹, Martin Tolstrup¹

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Session P-G8 Poster Session

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall A CNS Inflammation, Immune Activation, and HAND Riomarkers

484 Differences Between Cerebrospinal Fluid and Blood Biomarkers of Inflammation in HIV Infection

Julia Peterson¹, Shelia Keating², Dietmar Fuchs³, Phillip Norris², Henrik Zetterberg⁴, Barbara Shacklett⁵, Serena Spudich⁶, Magnus Gisslén⁴, Richard W. Price¹

'Neurology, University of California San Francisco, San Francisco, CA, United States, 'Blood Systems Research Institute, San Francisco, CA, United States, 'Center for Chemistry and Biomedicine, Innsbruck Medical University, Innsbruck, Austria, 'Sahlyrenska Academy at University of Gothenburg, Gothenburg, Sweden, 'University of California Davis, Davis, CA, United States, 'Neurology, Yale University, New Haven, CT, United States

486LB Neuroinflammation in Asymptomatic HIV-Infected Subjects On Effective cART

Jaime H. Vera¹, Qi Guo², Illan Rabiner³, Paul Matthews⁴, Roger Gunn³, Alan Winston¹

Infectious Diseases, Imperial College London, London, United Kingdom, Institute of Psychiatry, King's College London, London, United Kingdom, Imanova Centre for Imaging Sciences, London, United Kingdom, Invision of Brain Sciences, Imperial College London, London, United Kingdom

487 CSF Biomarkers Correlate With Magnetic Resonance Spectroscopy Metabolites During HIV Disease

Albert M. Anderson¹, Christine Fennema-Notestine², Anya Umlauf², David Clifford³, Christina Marra⁴, Benjamin Gelman⁵, Justin McArthur⁴, Allen McCutchan², Susan Morgello², Scott Letendre², for the CHARTER group

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488 Abdominal Obesity, Inflammation, Immune Activation and Neurocognitive Impairment

Fred R. Sattler¹, Jlaxiu He², Scott Letendre³, Cara Wilson⁴, Chelsea Sanders⁵, Robert K. Heaton⁸, Ronald Ellis⁷, Donald Franklin⁶, Igor Grant⁸, J. Allen McCutchan³, for the CHARTER Group ¹Medicine, University of Southern California, Los Angeles, CA, United States, *Preventive Medicine, University of Southern California, Los Angeles, CA, United States, *Medicine, University of California San Diego, La Jolla, CA, United States, *Medicine, University of Colorado at Derver, Denney, CA, United States, *Medicine, University of California San Diego, La Jolla, CA, United States, *Psychiatry, University of California San Diego, La Jolla, CA, United States, *Neurology, University of California San Diego, La Jolla, CA, United States, *Neurology, University of California San Diego, La Jolla, CA, United States

489 Blood Cell Indices and Neurocognitive Impairment in the HAART Era: A CHARTER Study

Asha R. Kallianpur¹, Quan Wang², Pellin Jla², Justin C. McArthur³, Susan Morgello¹, Ann C. Collie¹, Benjamin B. Gelimar°, David Group ¹Genomic Medicine, Lemer Research Institute, Medicine Institute, Cleveland, OH, United States, ¹Biomedical Informatics, Vanderbir University School of Medicine, Nashville, TN, United States, *Neurology, Johns Hopkins University School of Medicine, Bashville, TN, United States, *Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, United States, *Neurology, Pathology, Mount Sinai School of Medicine, New York, NY, United States, *Medicine/Allergy and Infectious Diseases, University of Washington, Seattle, WA, United States, *Pathology, University of Texas Medical Branch, Galveston, TX, United States, *States, *Neurology, Washington University School of Medicine, St. Louis, MO, United States, *Medicine/Infectious Diseases, University of California San Diego, La Jolla, CA, United States, *Psychiatry, University of California San Diego, La Jolla, CA, United States, *Psychiatry, University of California San Diego, La Jolla, CA, United States

490 CNS Immunoactivation in HIV Patients On ART With HIV-Associated Mild Neurocognitive Impairment

Arvid Eden', Donald R. Franklin², Dietmar Fuchs³, Igor Grant², Scott Letendre², Thomas Marcotte², Staffan Nilsson⁴, Richard W. Price⁵, Henrik Zetterberg¹, Magnus Gisslen¹

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491 CNS Inflammation During Treatment-Induced Viral Suppression

Julia Peterson¹, Sheila M. Keating², Viktor Dahl³, Phillip J. Norris², Sarah Palmer^{3,4}, Dietmar Fuchs⁵, Henrik Zetterberg⁶, Magnus Gisslén⁶, Richard W. Price¹

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492 CSF Viremia and Inflammatory Markers in Pts With NCI On TDF/FTC/EFV and After Switch To ABC/3TC/MVC

Juan M. Tiraboschi', Jose Muñoz-Moreno², MC Puertas³, Carlos Alonso⁴, Anna Prats-Paris², Elena Ferrer¹, Nerea Rozas¹, Marga Maso-Serra¹, Javier Martinez-Picado⁵, Daniel Podzamczer¹ HIV Unit, Infectious Disease Service, Hospital Universitari de Bellvitge, Barcelona, Spain⁵ Fundació Liuta contra la SIDA - Unitat de VIH, Hospital Universitari Germans Trias i Pujol, Barcelona, Spain, ³Institut de Recerca de la SIDA IsiCalàxa, Barcelona, Spain, ⁴Complex Sanitari Santa Tecta, URV, Tarragona, Spain

Session P-H1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Clinical Pharmacology of TB and HCV Coinfection

493 Rifapentine Once-Weekly Dosing Effect On Efavirenz, Emtricitabine and Tenofovir PKs

Christine Farenc', Severine Doroumian', Cathy Cantalloube', Laurent Perrin², Virginie Esposito³, Isabelle Cierien-Puiseux⁴, Xavier Boulenc', Marilyn Maroni⁴

*Disposition Safety Animal Research, Sanofi, Montpellier, France, *Clinical Exporatory Pharmacology, Sanofi, Montpellier, France, *Clinical Exploratory Pharmacology, Sanofi, Paris, France, *Access To Medecines, Sanofi, Paris, France

494 Relationship Between Efavirenz Trough & CYP2B6 Genotypes With Rifampin-Based TB Therapy in STRIDE

Anne Luetkemeyer¹, Susan L. Rosenkranz², Darlene Ľu², Beatriz Grinsztejn², Jorge Sanchez⁵, Michael Ssemmanda®, Ian Sanne², Helen McIlleron³, Diane Havlir¹, David Haas®, ACTG A5221 & A5243 Study Teams

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495 Concentrations of Nevirapine or Efavirenz On and Off Anti-Tuberculosis Therapy (ANRS12214)

Nilesh Bhatt', Elisabeth Baudin², Èindiya Meggi¹, Carlota Silva², Valerie Furlan³, Aurelie Barrail-Tran^{3,4}, Maryline Bonnet², Anne-Marie Tahuret³

Instituto Nacional de Saúde, Ministry of Health, Maputo, Mozambique, Clinical Research Department, Epicentre, MSF, Paris, France, Clinical Pharmacy, Hospital Bicêtre, Paris-Sud University, Kremlin Bicêtre, France, Ea4123, Faculty of Pharmacy, Paris-Sud University, Chatenay Malabry, France

496 Pharmacokinetics of Raltegravir 400 vs 800 mg BID With Intermittent Rifampicin Dosed Thrice Weekly

Helen E. Reynolds¹, Deirdre Egan¹, Laura Else¹, Mas Chaponda², Ales Chrdle², David J. Back¹, **Saye H. Khoo**¹

¹University of Liverpool, Liverpool, United Kingdom, ²Royal Liverpool University Hospital, Liverpool, United Kingdom

497 Pharmacokinetics of Faldaprevir and Antiretrovirals in Patients With HIV/HCV Coinfection

Jürgen K. Rockstroh¹, Marc-Antoine Valantin², Josep Mallolas³, Massimo Puoli⁴, Juan Antonio Pineda³, Patrick Ingiliz⁵, Marina Núñez¸í Fengie Huang⁴, Richard Vinisko³, Duoglas Dieterich² ¹Department of Medicine I, University of Bonn, Bonn, Germany¸²Service des Maladies Infectieuses et Tropicales, Hôpital Pitié-Salpětriére, Paris, France¸³Hospital Clinic-University of Barcelona, Barcelona, Spain¸¹Department of Infectious Diseases, AO Ospedale Niguarda Ca¹ Granda Milano, Milan, Italy¸⁵Unit of Infectious Diseases and Microbiology, Hospital Universitario de Valme, Seville, Spain¸*Medical Center for Infectious Diseases, Berlin, Germany¸¹Wake Forest University Health Sciences, Winston-Salem, NC, United States¸³Doehringer Ingelheim Pharmaceutical, Inc, Ridgefield, CT, United States, *Mount Sinal Medical Center, New York, NY, United States

498 Pharmacokinetic Interactions Between the HCV NS5A Inhibitor MK-8742 and Efavirenz

Wendy Yeh¹, William Marshall¹, Eric Mangin¹, Xiaobi Huang¹, Yali Zhu¹, Susanne Langley¹, Patricia Jumes¹, Stephen Youngberg², Joan Butterton¹

¹Merck, Sharpe and Dohme, Whitehouse Station, NJ, United States, ²Celerion, Lincoln, NE, United States

499 Effect of Faldaprevir On Atazanavir Pharmacokinetics in Patients With HIV/HCV Coinfection

Mark Nelson¹, Keikawus Arastèh², Mamta K. Jain², Vicente Soriano¹, José Valdez Madruga³, Juvencio Furtado⁵, Manuel Battegay¸, Fenglei Huang³, Montserrat Manero³, Douglas Dieterich¹⁰ ¹Chelsea and Westminster Hospital, London, United Kingdom; EPMED/Wrantes Auguste-Viktoria-Klinikum, Berlin, Germany; UT Southwestern Medical Center, Dallas, TX, United States, †Hospital Carlos III, Madrid, Spain; Gentro de Referencia e Treinamento DST/AIDS, Sao Paulo, Brazil; Teinudead et Medicina do ABC and Hospital Heliópolis, Sao Paulo, Brazil; University Hospital Basel, Basel, Switzerland; Boehringer Ingelheim Pharmaceuticals Inc, Ridgefield, CT, United States; Boehringer Ingelheim España, Barcelona, Spain; "Mount Sinai Medical Center, New York, NY, United States

500 No Meaningful PK Interaction Between HCV Protease Inhibitor MK-5172 and Tenofovir or Raltegravir

Wendy W. Yeh', lain P. Fraser', Luzelena Caro^a, Jennifer Talaty^a, Zifang Guo^a, Henry Davis^a, Stephen P. Youngberg^a, Joan R. Butterton¹ 'Clinical Pharmacology/Clinical Research, Merck Research Laboratories, Boston, MA, United States, *Clinical Pharmacology/Clinical Research, Merck Research Laboratories, Rahway, NJ, United States, *Clinical Drug Metabolism, Merck Research Laboratories, West Point, PA, United States, *Clinical Pharmacology/Clinical Research, Merck Research Laboratories, Upper Gwenydd, PA, United States, *Clerion, Lincoln, NE, United States

501 Effect of Faldaprevir On Raltegravir Pharmacokinetics in Healthy Volunteers

David Joseph¹, Peter Rose², Natalja Strelkowa², Armin Schultz³, Jeanette Garcia¹, **Mabrouk Elgadi**¹, Fenglei Huang¹ ¹Boehringer Ingelheim Pharmaceuticals, Ior, Bidgefield, CT, United States; Boehringer Ingelheim Pharma GmbH & Co KG, Biberach, Germany.³CRS Clinical Research Services Mannheim GmbH, Mannheim, Germany, *Boehringer Ingelheim (Canada), Ltd, Burlington, ON, Canada

502 No Clinically Relevant Interactions Between Daclatasvir and Cyclosporine or Tacrolimus

Marc Bifano¹, Robert Adamczyk¹, Carey Hwang¹, Hamza Kandoussi², Alan Marion³, **Richard J. Bertz**¹

Research and Development, Bristol-Myers Squibb, Hopewell, NJ, United States, Research and Development, Bristol-Myers Squibb, Lawrenceville, NJ, United States, ICON Development Solutions, Omaha, NE, United States

Session P-H2 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Pharmacogenetics: Drug Disposition To Therapeutics

503 ABCC4 3348 T>C SNP Affects Tenofovir Urinary Output in HIV-Positive Patients

Andrea Calcagno, Jessica Cusato, Letizia Marinaro, Marco Simiele, Alice Trentalange, Chiara Montrucchio, Chiara Alcantarini, Antonio D'Avolio, Giovanni Di Perri, Stefano Bonora Unit of Infectious Diseases, Department of Medical Sciences, University of Torino, Torino, Italy

504 Relative Genetic Contribution To the Pharmacokinetics of Commonly Prescribed Antiretrovirals

Marco S. Siccardi¹, Adeniyi Olagunju^{1,2}, Marco Simiele³, Antonio D'Avolio³, Andrea Calcagno³, Giovanni Di Perri³, Stefano Bonora³, Andrew Owen¹

¹Department of Molecular and Clinical Pharmacology, University of Liverpool, Liverpool, United Kingdom, Faculty of Pharmacy, Obafemi Awolowo University, Ile-Ife, Nigeria, Amedeo di Savoia Hospital, University of Turin, Turin, Italy

505 Leveraging Genomics in HIV Treatment Decisions Paul J. McLaren¹, Margalida Rotger¹, Manel Aour¹, Huldrych Günthard², Catia Marzolini³, Laurent Decosterd¹, Amalio Telenti¹ ¹The Swiss HIV Cohort, Lausanne, Switzerland,²The Swiss HIV Cohort, Zurich, Switzerland,³The Swiss HIV Cohort, Basel, Switzerland

506 Contribution of CYP2A6, UGT2B7, and Other Non-CYP2B6 Polymorphisms To Plasma Efavirenz Exposure David Haas¹, Awewura Kwara², Danielle M. Richardson¹, Paxton Baker¹, Ioannis Papageorgiou³, Edward P. Acosta⁴, Gene D. Morse⁵, Michael Court², the AIDS Clinical Trials Group (ACTG) ¹Vanderbilt University, Nashville, TN, United State \$\frac{1}{2}\$ Washington State University, Providence, RI, United States, \$\frac{1}{2}\$ Washington State University, Pullman, WA, United States, \$\frac{1}{2}\$ University of Alabama at Birmingham, Birmingham, AL, United States \$\frac{1}{2}\$ University of New York at Buffalo, Buffalo, NY, United States

Session P-H3 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B ARV Pharmacokinetics, Drug Interactions, and Pharmacodynamics

507 Rilpivirine With Darunavir/Ritonavir: Pharmacokinetics & Safety in HIV Therapy-Naïve Patients

Akil G. A. Jackson¹, Laura J. Else², Christopher Higgs¹, Zeenat Karolia¹, Saye Khoo², David Back², Andrew Murungi³, Emma Devitt¹, Anton Pozniak¹, Marta Boffito¹ 'St Stephen's AIDS Trust, St Stephen's Centre, Chelsea & Westminster

3d Stephen's Audo Tinst, 8d Stephen's Centre, Onlesse as westiminiser Hospital, London, United Kingdom, "Department of Molecular and Clinical Pharmacology, University of Liverpool, Liverpool, United Kingdom, Infectious Diseases, Janssen UK, High Wycombe, United Kingdom

508 Rilpivirine Pharmacokinetics With/Without Darunavir/r in Adolescents and Young Adults

Marc Foca¹, Ram Yogev², Andrew Wiznia³, Rohan Hazra⁴, Patrick Jean-Philipe⁵, Bobbie Graham⁶, Paula Britto⁷, Vincent J. Carey⁷, Jennifer King⁸, Tim R. Cressey⁹, for the IMPAACT P1058A team 1Pediatrics, Columbia University Medical Center, New York, NY, United States, 2Pediatrics, Lurie Children's Hospital of Chicago, Northwestern University Feinberg School of Medicine, Chicago, IL, United States, 3Pediatrics, Jacobi Medical Center, Bronx, NY, United States,4 National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Maternal and Pediatric Infectious Disease Branch, Bethesda, MD, United States, 5 Henry Jackson Foundation, National Institutes of Health, Division of Acquired Immunodeficiency Syndrome, International Maternal Adolescent Pediatric Branch, Bethesda, MD, United States, Frontier Science & Technology, Amherst, NY, United States. Harvard School of Public Health, Boston, MA, United States,8The University of Alabama at Birmingham, Birmingham, AL, United States, Faculty of Associated Medical Sciences, Chiang Mai University, Chiang Mai, Thailand

509 The Cerebrospinal Fluid HIV Risk Score for Assessing Central Nervous System HIV Activity

Edward R. Hammond¹, Rosa M. Crum¹, Glenn J. Treisman¹, Shruti H. Mehta¹, David B. Cilfford², David M. Simpson³, Benjamin B. Gelman¹, Ronald J. Ellis⁵, Scott L. Letendre⁵, Justin C. McArthur¹, ¹Johns Hopkins University, Baltimore, MD, United States; ¹Washington University, Et. Louis, MO, United States; ¹Leahn School of Medicine at Mount Sinai, New York, NY, United States; ¹University of Texas, Medical Branch, Galveston, TX, United States; ¹University of California, San Diego, CA, United States

510 Efavirenz (EFV) 400 Versus 600 mg Daily: Results of the ENCORE1 Intensive PK Substudy

Laura Dickinson¹, Rebekah Puls², on behalf of ENCORE1 Pharmacokinetics Substudy Group ¹Department of Molecular and Clinical Pharmacology, University of Liverpool, Liverpool, United Kingdom, ²University of New South Wales, Sydney, Australia

511 Correlation Between Atazanavir Concentrations, Clinical Covariates and Side Effects

Cristina J. P. Gervasoni, Paola Meraviglia, Simona Landonio, Valeria Cozzi, Agostino Riva, Nitin Charbe, Laurenzia Ferraris, Giuliano Rizzardini, Massimo Galli, Dario Cattaneo Luidi Sacco University Hospital, Milan, Italy

512 Tenofovir Diphosphate Concentration-Response Relationship for HIV Prevention in Vaginal Tissue

Melanie R. Nicol', Cindi W. Emerson², Julie A. Nelson³, Craig Sykes¹, Heather MA Prince⁴, Kristine B. Patterson⁴, Angela D. M. Kashuba¹ School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, *Center for AIDS Research, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, *Microbiology and Immunology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, *Medicine, University of North Carolina at Chapel Hill, Chapel Hill,

513 A Pharmacokinetic Drug-Drug Interaction Study Between Raltegravir and Atorvastatin.

Maren Blonk', Michiel van Beek², Angela Colbers¹, Monique Roukens¹, Bas Schouwenberg², David Burger¹ ¹Department of Pharmacy, Radboud University Medical Center, Nijmegen, Netherlands, ²Department of Pharmacology and Toxicology, Radboud University Medical Center, Nijmegen, Netherlands

514LB PK Study of Depot Medroxyprogesterone Acetate in HIV+ Women On Lopinavir/Ritonavir: ACTG 5283

Susan E. Cohn', Amneris E. Luque², Jeong-Gun Park³, Yoninah Cramer¹, Francesca Aweeka², Adriana Weinberg⁴, Elizabeth Livingstori, Karin L. Klingman⁴, Barbara Bastow⁴, Heather Watts¹⁰ Medicine, Northwestern University, Chicago, IL, United States, Medicine, Iniversity of Rochester Medical Center, Rochester, W, United States, Biostatistics, Statistical and Data Analysis Center, Boston, MA, United States, Biostatistics, Statistical and Data Analysis Center, Boston, IL, United States, Cilinical Pharmacy, University of California San Francisco, San Francisco, CA, United States, Medicine, University of Colorado Health Sciences Center, Denver, CO, United States, Pocial and Scientific Systems, Inc., Silver Spring, MD, United States, "Social and Scientific Systems, Inc., Silver Spring, MD, United States," Maternal and Pediatric Infectious Disease Branch, National Institute of Child Health and Human Development, Bethesda, MD, United States

515 Multi-System Investigation of the Mechanisms for Raltegravir Association With Intestinal Tissue Darren Michael Moss¹, Paul Curley¹, Alison Shone², Marco

Siccardi¹, Andrew Owen¹

*Molecular and Clinical Pharmacology, Translational Medicine,
Liverpool, United Kingdom, *Parasitology, Liverpool School of Tropical
Medicine, Liverpool, United Kingdom

516 Tenofovir DF 150 mg Once Daily in HIV-Infected Adults With Moderate Renal Impairment

Tim R. Cressey^{1,2}, Anchalee Avihingsanon^{3,4}, Guttiga Halue⁶, Prattana Leenasirimakul⁸, Pra-ornsuda Sukrakanchana¹, Nicole Ngo-Giang-Huong^{1,7}, Achara Eksaengsri⁸, Gonzague Jourdain^{1,7}, Virat Klinbuayaem⁸, Chureeratana Bowonwatanuwonqi¹⁰ Faculty of Associated Medical Sciences, PHPT/IRD 174, Chaing Mai University, Chiang Mai, Thailand, Department of Immunology & Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, HIN Netherlands Australia Thailand (HIV-NAT) Research Collaboration, Bangkok, Thailand, Division of Allergy and Immunology, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, Fayayao Hospital, Phayao, Thailand, Nakomping Hospital, Chiang Mai, Thailand, Institut de Recherche pour le Developpement (IRD), Marseille, France, The Government Pharmaceutical Organization, Bangkok, Thailand, Sanpatong Hospital, Sanpatong, Thailand, "Internal Medicine, Hospital, Chonburi, Thailand

517 Tenofovir Concentrations and Prophylactic Effect in a Macague Model of Rectal SHIV Transmission

> Peter L. Anderson¹, David V. Glidden², Lane R. Bushman¹, Jia-Hua Zheng¹, L. Anthony Guida¹, Walid Heneine³, J. Gerardo Garcia-Lerma³, 'Pharmaceutical Sciences, University of Colorado Denver, Aurora, CO, United States, "University of California San Francisco, San Francisco, CA, United States, "Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States

Session P-H4 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B New Clinical and Preclinical Formulations

518 Optimisation of Intramuscular Sustained Release Nano-Formulations Using In Silico Modelling Rajith Kumar Reddy Rajoli', David Back', Steve Rannard², Andrew

Owen¹, Marco Siccardi¹
¹Department of Clinical & Molecular Pharmacology, University of Liverpool, Liverpool, United Kingdom, Department of Chemistry, University of Liverpool, United Kingdom

519 Macrophage Targeted Nanomedicines for Mycobacterial Infections

Benson Edagwa¹, Dongwei Guo², Pavan Puligujja¹, JoEllyn McMillan¹, Xinming Liu¹, Howard Gendelman¹, Prabagaran Naravanasamy¹

¹University of Nebraska Medical Center, Omaha, NE, United States, ²Pharmaceutical Science, University of Nebraska Medical Center, Omaha, NE, United States

520 Fluorescent Magnetic Nanoparticle as Anti-HIV Drug Carrier for Rodent Brain Targeting

Upal Roy¹, Hong Ding¹, Sudheesh P. Kanthikeel¹, Elena M. Kaftanovskaya², Andrea Raymond¹, Karla Munoz-Caamano¹, Madhavan Nair¹

¹Immunology, Florida International University, Miami, FL, United States, ²Department of Human and Molecular Genetics, Florida International University, Miami, FL, United States

521LB A Novel Anti-HIV Particle Provides Sustained Plasma and Cell Drug Levels in Lymph Nodes in Primates

Jennifer Freeling¹, Josefin Koehn, Čuiling Shu, **Rodney JY Ho**^{2,3} 'Pharmaceutics, University of Washington, Seattle, WA, United States, ²Pharmaceutics, University of Washington, Seattle, WA, United States, ³Clinical Pharmacology, Fred Hutchinson Cancer Research Center, Seattle, WA, United States

522 NanoART Facilitated HIV-1 Clearance by a Mixed-Lineage Kinase 3 Inhibitor

Gang Zhang', Prasanta K. Dash', Dongwei Guo', Jayme L. Wiederin', Pawel S. Ciborowski', Val S. Goodfellow', Joelly, M. McMillan', Santhi Gorantla', Harris A. Gelbard', Howard E. Gendelman' 'Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, Omaha, NE, United States, Califia Bio, San Diego, CA, United States, "University of Rochester Medical Center, Rochester, NY, United States

523 A Multiple Dose Study of Raltegravir (RAL) Formulations

> Matthew L. Rizk, Rajesh Krishna, Valerie Schulz, Jolanda ten Bruggencate-Broeders, Patrick Larson, Larissa Wenning Merck & Co., Inc., West Point, PA, United States

524 In Vivo Effects of Solid Drug Nanoparticle and Conventional Efavirenz On Anxiogenesis in Rodents

Paul Curley¹, Marco Giardiello², Neill Liptrott¹, Philip Martin¹, Tom McDonald², Marco Siccardi¹, Juliet McAdams³, Steve Rannard², Tim Kirkham³, Andrew Owen¹

"Molecular and Clinical Pharmacology, University of Liverpool, Liverpool, United Kingdom, "Chemistry, University of Liverpool, Liverpool, United Kingdom, "Institute of Psychology, Health and Society, University of Liverpool, Liverpool, United Kingdom

525 Atazanavir/Cobicistat Fixed-Dose Combination Is Bioequivalent To the Separate Agents

Xiaolu Tao¹, Heather Sevinsky¹, Reena Wang¹, Palanikumar Ravindran², Karen Sims¹, Xiaohui Xu², Navin Jariwala¹, Richard Bertz¹ 'Bristol-Myers Squibb, Pennington, NJ, United States,²Bristol-Myers Squibb, Princeton, NJ, United States

Session P-I1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Preclinical Studies of Novel ART Approaches: Entry

526 Non-Integrating Lentivirus Delivered CCR5-ZFNs Can Inhibit HIV-1 Infection in Humanized Mice

 ${\bf Guohua\ Yi}, {\bf Jang-Gi\ Choi}, {\bf Preeti\ Bharaj}, {\bf Sojan\ Abraham}, {\bf Manjunath\ Swamy}, {\bf Premlata\ Shankar}$

Department of Biomedical Sciences, Center of Excellence in Infectious Disease, Texas Tech University Health Sciences Center, El Paso, TX, United States

527 Role of Sulfhydryl in Causing Lytic Inactivation of HIV-1 by Env Targeting Peptide Triazole Thiols

Lauren D. Bailey¹, Čaittin Duffy¹, Huiyuan Li², Ali Emileh³, Arangassery R. Bastian⁴, Irwin Chaiken¹ 'Biochemisty and Molecular Biology, Drexel University College of Medicine, Philadelphia, PA, United States,²West Virginia University, Morgantown, WV, United States,²Dartmouth College, Hanover, NH, United States, 'Biomedical Engineering, Drexel University College of Medicine, Philadelphia, PA, United States

528 eCD4-Ig Is a Highly Potent HIV-1 Entry Inhibitor Matthew Gardner¹, Lisa Kattenhorn², Jessica Chiang³, Michael

> *Department of Infectious Diseases, The Scripps Research Institute, Jupiter, FL, United States, *Division of Comparative Pathology, Harvard Medical School, Southborough, MA, United States, *Department of Microbiology and Immunobiology, Harvard Medical School, Boston, MA. United States

529 Computational Design of Novel Potent Inhibitors of HIV-1 Entry

Marina Tuyishime, Simon Cocklin Biochemistry, Drexel College of Medicine, Philadelphia, PA, United States

530 Cenicriviroc Achieves High CCR5 Receptor Occupancy at Low Nanomolar Concentrations

Emilie Jalbert¹, Mary Margaret Byron¹, Cecilia Shikuma¹, Helen Jenkins², Eric Lefebvre², **Jason D. Barbour**¹ 'University of Hawaii Manoa, Honolulu, HI, United States, ²Tobira Therapeutics, South San Francisco, CA, United States

Session P-I2 Poster Session

Tuesday March 4, 2014, 2:30 pm-4:00 pm Exhibit Hall B Preclinical Studies of Novel ART Approaches: Post-Entry

531 Identification of a Novel HIV-1 Inhibitor Targeting Vif-Dependent Degradation of Human APOBEC3G

Dependent Degradation of numbral Probessa Frez Pery¹², Andrew Jay Brazier¹, Ann Sheehy³, Vikas Misra¹, Kottampatry S. Rajendran²², Marie K. Mankowski⁴, Lynn Rasmussen⁵, E. Lucile White⁵, Roger G. Ptak⁺, Dana Gabuzda¹⁵ ¹Cancer Immunology and AIDS, Dana Farber Cancer Institute, Boston, MA, United States,⁴Department of Pathology, Harvard Medical School, Boston, MA, United States,³Department of Biology, College of the

Holy Cross, Worchester, MA, United States, Department of Infectious Diseases Research, Southern Research Institute, Frederick, MD,

United States, ⁵High Throughput Screening Center, Southern Research Institute, Brimingham, AL, United States, ⁶Department of Neurology (Microbiology), Harvard Medical School, Boston, MA, United States

532 Drugging HIV Vif as a Rational Approach To Eradication Harold C. Smith, Ryan P. Bennett OvaGen. Inc. Rochester. NY. United States

533 A Novel Class of Multimerization Selective Inhibitors of HIV-1 Integrase

Amit Sharma¹, Alison P. Slaughter¹, Nivedita Jena¹, Lei Feng¹, Jacques J. Kessl¹, Li Wu², James R. Fuchs¹, **Mamuka Kvaratskhelia**¹ ¹College of Pharmacy, The Ohio State University, Columbus, OH, United States, ²Center for Retrovirus Research, The Ohio State University, Columbus, OH. United States

534 PF74 Inhibits Multiple HIV Capsid Functions Independent of Host Cyclophilin A and CPSF6

Stephen R. Yant¹, Luong Tsai¹, Debi Jin¹, Rujuta A. Bam¹, Andrew Mulato¹, Magdeleine Hung¹, Chien-hung Chou², Randall Halcomb², Tomas Cihlar¹

¹Biology, Gilead Sciences, Foster City, CA, United States, ²Medicinal Chemistry, Gilead Sciences, Foster City, CA, United States

536 Recent Progress in Developing Potent and Broadly Active HIV-1 Maturation Inhibitors

Emiko Urano¹, Sherimay D. Ablan¹, David Martin², Ritu Gaur², Paul W. Keller¹, Alasdair C. Steven¹, Theodore Nitz², Carl Wild², Eric O. Freed¹ ¹HIV Drug Resistance Program, NCI-Frederick, Frederick, MD, United States,² DFH Pharma, Inc, Gaithersburg, MD, United States,² South Asian University, New Delhi, India,⁴National Institute of Arthritis and Musculoskeletal and Skin Diesases/MIH, Bethesda, MD, United States

Session P-J1 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B RCTs in Second-Line ART and Virologic Failure

537 Mortality Among HIV+ Participants Randomized To Omit NRTIs vs. Add NRTIs in OPTIONS (ACTG A5241) Karen Tashima¹, Laura Smeaton², Karin Klingman³, Adriana

Andrade⁴, Joseph Eron⁵, Carl Fichtenbaum⁶, Rajesh Gandhi⁷, Victoria Johnson⁹, Richard Haubrich⁹

**Medicine, Warren Alpert Medical School of Brown University, Providence, RI, United States, "Center for Biostalistics in AIDS Research, Boston, MA, United States, "MR Research Branch, TRP, DAIDS, NIAID, NIH, Bethesda, MD, United States, "Medicine, Johns Hopkins Diuriversity, Baltimore, MD, United States, "Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, "Medicine, University of Cincinnati, Cincinnati, OH, United States, "Medicine, Massachusetts General Hospital and Ragon Institute, Boston, MA, United States, "Medicine, Birmingham School of Medicine, Birmingham, AL, United States, "Medicine, University of Alabama at Birmingham School of Medicine, Birmingham, AL, United States, "Medicine, University of California at San Diego, San Diego, CA, United States

538 Partner-Based Intervention for Adherence To Second-Line ART: A Multinational Trial (ACTG A5234)

Robert Gross', Lu Zheng', Alberto La Rosa', Xin Sun', Susan Rosenkranz', Sandra Cardoso-Wagner', Francis Ssali', Robert Camp's, Catherine Godfrey', Ann Collier', ACTG Team A5234 'Medicine (ID), University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, United States, Biostatistics, Harvard School of Public Health, Boston, MA, United States, Stostatistics, Harvard School of Public Health, Boston, MA, United States, Sun'APACTA, Lima, Peru, FIOCRUZ, Rio de Janeiro, Brazil, Joint Clinical Research Centre, Kampala, Uganda, Fizirodis, Barcelona, Spain, 'National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, *University of Washington, Seattle, WA, United States

539 Predictors of Late Virological Failure After Initial Successful Suppression On EFV-Based ART

Isaac Singini', Thomas Campbell', Laura Smeaton', Nagalingeswaran Kumarasamy', Karin Klingman', Sineenart Taejaroenkul', Timothy Flanigan', Alberto La Rosa', James Hakim', Michael Hughes', for the ACTG A5175/PEARLS Study Team 'Johns Hopkins Research Project, Blantyre, Malawi, Elniversity of Colorado Denver, Aurora, CO, United States, 'HRGCARE Medical Centre, Chennai, India, NIH, NIAID, DAIDS, Bethesda, MD, United States, Chiang Mai University, Chiang Mai, Thailand, Miriam Hospital, Brown University, Providence, RI, United States, Asociacion Civil Impacta Salud y Educacion, Lima, Peru, Puniversity of Zimbabwe College of Health Sciences, Harare, Zimbabwe

Raltegravir Non-Inferior To Standard of Care in SECOND-LINE Therapy Over 96 Weeks

Janaki Amin, on behalf of the SECOND-LINE study team The Kirby Institute, University of New South Wales, Sydney, Australia

541LB Randomized Comparison of Three Second Line ART Regimens in Africa: The 2 Lady/ANRS/EDCTP Study Sinata Koulla-Shiroi², Laura Ciaffi³, Vincent Le Moing³, Cheikh Tidiane Ndour¹, Adrien Sawadogo⁵, Sabrina Eymard- Duvernay³, Avelin Aghokeng⁵, Jacques Reynes³, Alexandra Calmy¹, Eric Delaporte³, on behalf of the 2LADY study group 'Service Maladies Infectieuses, Central Hospital Yaounde, FMSB/UY1, Yaounde, Cameroon,³UMI233, IRD, Montpellier, France, 'Service Maladies Infectieuses, Hopital de Fann, CRCF, Dakar, Senegal¸°CHU Sanou Souro, HDJ, Bobo Dioulasso, Burkina Faso,°UMI233/IRD, IMPM/CREMER, Yaounde, Cameroon, Tinfectious Diseases, University Hospital

Session P-J2 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B RCTs in First-Line ART in Treatment Naive Patients

Geneva, Geneva, Switzerland

542 First-Line Therapy With LPV/r vs NVP and 2 NRTIs in a Developing Country: W144 of a Randomized Trial Nathan Clumeck', Claude Mwamba², Kabamba Kabeya¹, Serge Matanda², Dolores Vaira³, Eric Kasamba², Coca Necsoi¹, David Kadiebwe², Chantal Milolo², Joe Ilunga², Lievin Kapend² 'Infectious diseases, CHU Saint-Pierre, Brussels, Belgium,²Lubumbashi Network & PNMLS, Lubumbashi, Congo, Democratic Republic of the,²CHU Liège, Liège, Belgium

543 Dolutegravir Regimen Statistically Superior To Tenofovir/Emtricitabine/Efavirenz: 96-Wk Data

Sharon Walmsley', Juan Berenguer', Marie-Aude Khuong-Josses', Michael Kilby', Thomas Lutz', Daniel Podzamczer', Norman Roth', Catherine Granier', Brian Wynne', Keith Pappa''

'University Health Network, Toronto, ON, Canada', Hospital General Universitario Gregorio Marañón, Madrid, Spain', CHG – Hópital Delatontaine, Paris, France, 'Medical University of South Carolina, Charleston, SC, United States, 'Infektiologikum, Frankfurt, Germany', Bellvilitge University Hospital, Barcelona, Spain', Prahan Market Clinic, Melbourne, Australia, 'GSK, London, United Kingdom', GSK, Philadelphia, PA, United States, 'GSK, Research Triangle Park, C, United States

544LB A Randomized, Placebo-Controlled, Double-Blind Study of VM-1500 in HIV-Naïve Patients Winai Ratanasuwan¹, Peerawong Werarak¹, Robert L. Murphy²,

Wild Hatanasuwan , Peerawong Werarak , Robert L. Murphy Vadim Bichko³
Vadim

¹Preventive and Social Medicine, Faculty of Medicine Siriraj Hospital, Bangkok, Thailand, ²Northwestern University, Chicago, IL, United States, ³ChemDiv, Inc, San Diego, CA, United States

545 The Oral Exam: A Simple Tool To Identify HIV-Infected Patients in Need of Antiretroviral Therapy

Ashita S. Batavia¹, Rode Secours², Patrice Espinosa³, Marc A. Jean-Juste³, Patrice Severe³, Jean W. Pape³, Daniel W. Fitzgerald¹ Department of Medicine, New York Presbyterian Hospital, New York, NY, United States,²The GHESKIO Center, Port-au-Prince, Haiti, ¹University of California San Francisco Medical Center, San Francisco, CA, United States

546 Efficacy of First-Line ARV Regimens: An Exploratory "Target Not Detected" Analysis

Kirsten L. White¹, Xuelian Wei¹, Lijie Zhong¹, Martin S. Rhee¹, Marshall W. Fordyce¹, Javier Szwarcberg¹, John Mellors², Michael D. Miller¹

¹Clinical Virology, Gilead Sciences, Inc, Foster City, CA, United States, ²University of Pittsburgh, Pittsburgh, PA, United States

547 Randomized Comparison of Anthropometric Outcomes On EFV-Based Antiretroviral Therapies

Sineenart Taejaroenkul¹, Thomas Campbell², Laura Smeaton³, Amita Gupta¹, Nagalingeswaran Kumarasamy⁵, Karin Klingman⁵, Isaac Singini³, Javie R. Lama⁵, Rosie Mngqibisa², **Michael Hughes**³, for ACTG A5175/PEARLS Study Team

Chiang Mai University, Chiang Mai, Thailand, ²University of Colorado Denver, Aurora, CO, United States, ³Harvard School of Public Health Boston, MA, United States, ⁴Johns Hopkins University, Baltimore, MD, United States, ³YRGCARE Medical Centre, Chennal, India, ⁵NIH, NIAID, DAIDS, Bethesda, MD, United States, ⁷Johns Hopkins Research Project, Blantyre, Malawi, ⁵San Miguel CRS, Lima, Peru, ⁹University of KwaZulu Natal. Durban. South Africa

548 NEGR1 Genetic Variants and Risk for Virological Failure With Genotypic Resistance in Botswana

Sophie Limou¹, Cheryl A. Winkler¹, Hermann Bussmann^{2,3}, Vladimir Novitsky^{2,3}, Sikhulile Moyo³, Max Essex^{2,3}, Richard G. Marlink^{2,3}, C. William Wester^{2,4}

'Center for Cancer Research, Basic Science Program, Frederick National Laboration, Leidos BioMedical Research for the National Cancer Institute, Frederick, MD, United States, *Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, *Botswana-Harvard School of Public Health AIDS Initiative Partnership for HIV Research and Education (BHP), Gaborone, Botswana, *Vanderbilt Institute for Global Health (VIGH), Vanderbilt University School of Medicine, Division of Infectious Diseases, Mashville, TN, United States

Session P-J3 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B ART Simplification, Intensification, and Switch Studies

549LB Paradoxical Impact of Maraviroc/Raltegravir Added To HAART in Acute HIV Infection: ANRS 147 Trial

Antoine Chéret'², Georges Nembot³, Adeline Mélard', Camille Lécuroux', Caroline Lascoux', Isabelle Ravaux', Jacques Reynes', Patrick Mialihes', Laurence Meyer², Christine Rouzioux' ¹EA 3620 Virology Laboratory, Université Paris-Descartes Sorbonne Paris Cité, Paris, France, ²Department of Infectious Diseases, DRON Hospital, Tourcoing, France, ³NESEM UTOIR, APHP Bicêtre Hospital, Faculty of Medicine Univ Paris-Sud, Le Kremlin-Bicêtre, Paris, France, ⁴Insem UTOI2, Univ Paris-Sud, Paris, France, ⁴Department of Infectious Diseases, A Timone Hospital, France, ⁵Department of Infectious Diseases, Guy de Chauliac Marseille, France, ⁵Department of Infectious Diseases, Guy Rontpellie, France, ⁵Department of Infectious Diseases, Croix Rousse Hospital, Lyon, France, ⁹INSERM UTOI8, Univ Paris-Sud, Pagis, France, ⁸INSERM UTOI8, Univ Paris-Sud, Pagis, France, ⁹INSERM UTOI8, UTOIR, UTOIR,

550LB Randomised Controlled Trial of a PI Monotherapy Switch Strategy for Long-Term HIV Management Nicholas Paton¹², Wolfgang Stohr², Alejandro Arenas-Pinto², David

Dunn², the PIVOT Trial Group 'National University of Singapore, Singapore, Singapore, ²MRC Clinical Trials Unit at UCL, London, United Kingdom

551LB Simplification of PI+RTV+FTC/TDF To E/C/F/TDF
Maintains HIV Suppression and Is Well Tolerated
Less Arribasi, Cillor Piology Locoph Cathol Giovanni Di Por

Jose Arribas', Gilles Pialoux², Joseph Gathe³, Giovanni Di Perri⁴, Jacques Reynes⁵, Pablo Tebas⁵, Thai Nguyen⁷, Ramin Ebrahimi⁷, Kirsten White⁷, David Piontkowsky⁷ Hospital La Paz, Madrid, Spain, ²UPMC, Höpital Tenon APHP, Paris, France, ³Baylor College of Medicine, Houston, TX, United States, ⁴University of Torino, School of Medicine, Torino, Italy ³Gui de Chauliac University Hospital, Montpellier, France, ⁵University of Pennsylvania, Philadelphia, PA, United States, ⁷Gliead Sciences, Inc., Foster City, CA, United States

552LB Effect of Selenium Supplementation On CD4 Depletion in Rwandan HIV Patients: A Randomized Trial

Julius Kamwesiga¹, Vincent Mutabazi², Jean-Claude Tayari², Heather Fay³, Dugald Seely³, Cara Silva³, Steve Kanters⁴, Douglas J. McCready⁵, Don Warren³, **Edward Mills**⁶ 'Stanford Prevention Research Center, Rwanda Biomedical Center, Kigali, Rwanda, Rwanda Biomedical Center, Kigali, Rwanda, Rwanda Supplementation Study Team, Kigali, Rwanda, 'University of British Columbia, Vancouver, BC, Canada, Swilfrid Laurier University, Windsor, ON, Canada, 'Stanford Prevention Research Center, Stanford University, Stanford. CA. United States

553LB Switch From NNRTI plus FTC/TDF To E/C/F/TDF Maintains HIV Suppression and Is Well Tolerated

Anton Pozniak¹, Martin Markowitz², Anthony Mills³, Hans-Juergen Stellbrink⁴, Antonio Antela⁵, Pere Domingo⁶, Pierre-Marie Girard⁷, Keith Henry⁸, Will Garner⁹, Bill Guyer⁹

'Chelsea and Westminster NHS Foundation Trust Hospital, London, United Kingdom,'Aaron Diamond AIDS Research Center, New York, NY, United States,'Anthony Millis MD Inc., Los Angeles, CA, United States,'ICH Study Center, Hamburg, Germany,'Hospital Clinico Universitario, Santiago de Compostela, Spain,'Hospital de la Santa Creu I Sant Pau, Barcelona, Spain,'Hopital Saint-Antoine, Paris, France,'HIV Program Hennepin County Medical Center, Minneapolis, MN, United States,'Gilead Sciences, Inc., Foster City, CA, United States

Session P-K1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Viral Set Point and Elite Controllers

554 Blunted Response To cART in Elite Controllers

Faroudy Boufassa1, Jerome Le Chenadec2, Laurence Meyer3, Dominique Costagliola⁴, Peter W. Hunt⁵, Florecia Pereyra⁶, Steve Deeks5, Gianfranco Pancino7, Olivier Taulera8, Mathias Lichterfeld9, Pierre Delobel¹⁰, Asier Saez-Cirion⁷, Olivier Lambotte¹¹ ¹Epidemiology, INSERM CESP U1018, Univ Paris Sud, Le Kremlin-Bicetre, France, 2 Epidemiology, INSERM CESP U1018, Le Kremlin-Bicetre, France,3 Epidemiology, INSERM CESP U1018, AP-HP, Univ Paris Sud, Le Kremlin-Bicetre, France, UPMC Univ Paris 06, INSERM UMRS 943, Paris 75013, France, Department of Medicine, University of California San Francisco, San Francisco, CA, United States,6The Ragon Institute, Cambridge, MA, United States, Institut Pasteur, Paris 75015, France, Hopital Saint Louis, Paris 75010, France, Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States. 10 Service des Maladies Infectieuses et Tropicales. INSERM UMR1043, Toulouse, France,11 Service de Medecine Interne, AP-HP, Le Kremlin-Bicetre, France

555 Viral Set Point After Cessation of Antiretroviral Therapy Initiated in Acute Primary HIV Infection

Christine Durier', Cécile Goujard'²³, Caroline Roussillon^{4,5}, Isabelle Fournier', Catherine Fagard'⁴³, Isabelle Charreau', Gilles Pialoux^{8,7}, Bruno Hoen^{8,9}, Christine Rouzioux^{8,13}, Jean-Pierre Aboulker', ANRS 100 PRIMSTOP & ANRS 112 INTERPRIM study groups 'INSERM SCIO-USO19, Villejulf, France, *Höpital Bicêtre, Kremlin-Bicêtre, France, *Université Paris-Sud, Kremlin-Bicêtre, France, *Université Paris-Sud, Kremlin-Bicêtre, France, *Tence, *France, *Université Pere de Maire Curie Paris 06, Paris, France, *Université Pere de Maire Curie Paris 06, Paris, France, *Université Antilles-Guyane, Pointe-à-Pitre, France, *University Hospital of Guadeloupe, Pointe-à-Pitre, France, *Université Paris Descartes Paris 05, Paris, France, *Université Paris Descartes Par

556 HIV Elite Controllers Are Hospitalized More Often Than Persons With Medically Controlled HIV

Trevor A. Crowell', Kelly A. Gebo', Joel N. Blankson', Baligh R. Yehia', Richard M. Rutstein', Stephen A. Berry'
'Division of Infectious Diseases & HIV Medicine, Johns Hopkins
University School of Medicine, Baltimore, MD, United States, 'Division
of Infectious Diseases, University of Pennsylvania Perelman School
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Pediatrics, University of Pennsylvania Perelman School of Medicine,
Philadelphia, PA, United States

Session P-K2 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B ART Initiation, Monitoring, and Outcomes

557 CD4 Cell Count Monitoring Frequency Among HIV+ Persons in New York City (NYC), 2007-2011

Julie E. Myers^{1,2}, Qiang Xia¹, Lucia V. Torian¹, Mary K. Irvine¹, Blayne H. Cutler¹, Graham Harriman¹, Kent A. Sepkowitz³, Colin W. Shepard¹

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558 Value of Viremia Copy Years in Deciding Optimal Timing of ART Initiation in Adults With HIV

Ashley Olson¹, **Sarah Walker**¹, Amitabh Suthar², Caroline Sabin³, Heiner Bucher⁴, Inma Jarrin⁵, Santiago Moreno⁶, Santiago Perez-Hoyos⁷, Kholoud Porter¹, Deborah Ford¹, CASCADE Collaboration in Furn Coard

'MRC CTU UCL, London, United Kingdom, 'World Health Organization, Geneva, Switzerland, 'University College, London, London, United Kingdom, 'University Hospital Basel, Basel, Switzerland, 'Instituto de Salud Carlos III, Madrid, Spain, 'Instituto Ramón y Cajal de Investigación Sanitaria, Madrid, Spain, 'Universidad Autónoma de Barcelona, Sanarelona, Spain

559 Expansion of ART and Progressive Declines in All-Cause Mortality in British Columbia, Canada

Christopher Cheung¹, Erin Ding², Julia Zhu², Benita Yip², Lillian Lourenco², Rolando Barrios², Julio Montaner^{1,2}, Robert S. Hogg^{2,3}, Viviane Lima^{1,2}, **David M. Moore**^{1,2}

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560 Higher CD4 at ART Initiation Predicts Greater Long Term Likelihood of CD4 Normalization

Frank J. Palella¹, Carl Armon², Joan S. Chmiel³, John T. Brooks⁴, Rachel Debes², Richard Novak³, Bienvenido Yangco⁶, Kathy Wood², Marcus Durham⁷, Kate Buchacz⁸

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561 Is CD4 Monitoring Needed Among Ugandan Clients Achieving Virologic Response To Treatment?

Steven J. Řeynolds⁷², Joseph Sempa³, Agnes N. Kiragga³, Kevin Newell³, Gertrude Nakigoz³, Larry Chang², Ronald M. Galiwango³, Ronald Gray³, Thomas C. Quinn²², David Serwaddas³³ 'Division of Intramural Research, NIAID/NIH, Kampala, Uganda, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States,³Infectious Diseases Institute, Kampala, Uganda, *Clinical Research Directorate/CMRP, Leidos Biomedical Research, Inc (formerly SAIC-Frederick Inc), Frederick, MD, United States,³Rakai Health Sciences Program, Kaliszo, Uganda, *Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States,²School of Public Health, Makerer University College of Health Sciences, Kampala, Uganda

562 Long Term Effects of Treatment Interruptions in Adults and Children

Lindsay C. Thompson¹, Deborah Ford¹, James Hakim², Paula Munderi², Adeodata Kektilinwa⁴, Victor Muslime⁵, Mutsawashe Bwakura-Dangarembizi², Charles F. Gilks⁶, Diana M. Gibb⁷, A. Sarah Walker⁷

'Medical Research Council Clinical Trials Unit at University College London, London, United Kingdom, EUniversity of Zimbabwe, Harare, Zimbabwe, Medical Research Council/Uganda Virus Research Institute Uganda Research Unit on AIDS, Entebbe, Uganda, Baylor College of Medicine Children's Foundation-Uganda, Mulago, Uganda, Folmt Clinical Research Centre, Kampala, Uganda, Imperial College London, London, United Kingdom, Medical Researth Council Clinical Trials Unit at University College London, London, United Kingdom

563 Failure of Initial HAART in Caribbean, Central and South America

Carina Cesar¹, Bryan E. Shepherd², Cathy A. Jenkins³, Beatriz Grinsztejn¹, Marcelo Wolff⁵, Jean W. Pape⁵, Denis Padgetf¹, Juan Sierra Madero³, Eduardo Gotuzzo³, Pedro E. Cahn¹, CcASANet ¹Investigaciones Clínicas, Fundación Huésped, Buenos Aires, Argentina, ³Biostatistics, Vanderbitl University, Nashville, TN, United States, ⁴Statiscs, vanderbitl University, Nashville, TN, United States, ⁴Instituto de Pesquisa Clínica Evandro Chagas, Fundação Oswaldo Cruz, Rio de Janeiro, Brazil,⁵Fundación Arirarán, Universidad de Chile, Santiago, Chile.⁵Le Groupe Hatilien d¹Etude du Sarcome de Kaposi et des Infections Opportunistes in Port-au-Prince, (BHESKIO), Port-au-Prince, Hatilì, ¹Instituto Honduras, Tegucigalpa, Honduras, ³Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico City, Mexico,³Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

564 The HIV Treatment Cascade: Is There More To the Story?

Baligh R. Yehia¹, Alisa J. Stephens¹, Allison L. Agwu², Stephen A. Berry², Joshua P. Mettay³, Kelly A. Gebo²¹¹University of Pennsylvania, Philadelphia, PA, United States²,¹Johns Hopkins University, Baltimore, MD, United States¸³Massachusetts General Hospital, Boston, MA, United States

565 Cumulative Viral Load Predicts All-Cause and AIDS-Related Mortality After Initiation of ART

Michael J. Mugavero¹, Andrew O. Westfall², M. John Gill³, Michael Saaq¹, Sophie Abgrall³², Gerd Falkenheuer³, Peter Reiss², Suzanne M. Ingle³, Margaret T. May³, Jonathan A. C. Sterne³, on behalf of ART-Cc ¹Division of Infectious Diseases, Department of Medicine, University of Alabama at Birmingham, Birmingham, A.L, United States; School of Public Health, Department of Biostatistics, University of Alabama at Birmingham, Birmingham, AL, United States; Division of Infectious Diseases, University of Calgary, Calgary, AB, Canada, "INSERM, UMR, S. 1136, Institut Pierre Louis d'Epidémiologie et de Santé Publique, Paris, France, *AP-HP, Hôpital Avicenne, Service des Maladies Infectieuses et Tropicales, Bobligny, France, *Department of Internal Medicine, University of Cologne, Cologne, Germany, 'Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands, *School of Social and Community Medicine, University of Bristol, United Kingdom

Session P-K3 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B ART: Adherence and Retention

566 Measures of ART Adherence Associated With Virological Failure in Rakai, Uganda

Anthony Ndyanabo¹, Fred Makumbi¹², Gertrude Nakigozi¹, David Serwadda¹², Steven J. Reynolds¹³, Larry Chang¹⁴, Mary Grabowski⁵, Maria Wawer¹₅, Ronald Gray¹ѣ, Xiangrong Kong⁵ ¹Rakai Health Sciences Program, Kalisizo, Uganda,²Makerere University School of Public Health, Kampala, Uganda,¹Division of Intramural Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States,⁵Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States

567 Measures of Retention in HIV Care Differ in Their Associations With Clinical HIV Outcomes

Baligh R. Yehia¹, Peter Rebeiro², Keri Althoff², Stephen Gange², Hasina Samji³, Michael Horberg⁴, Sonia Napravnik², Kelly Gebo² 'University of Pennsylvania, Philadelphia, PA, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³British Columbia Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, ⁴Kaiser Permanente Mid-Atlantic States, Rockville, MD, United States, ⁵University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

568 Immune, Virologic and Adherence Measures as Time-Dependent Predictors of Loss To Follow-Up

Seema T. Meloni¹, Charlotte Chang¹, Doug Hoi Cheung¹, Beth Chaplin¹, Holly Rawizza², Oluwatoyin Jolayemi³, Bolanle Banigbe³, Prosper Okonkwo³, Phyllis Kanki¹

Immunology & Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, Brigham & Women's Hospital, Boston, MA, United States, AIDS Prevention Initiative in Nigeria, Ltd./Gte., Abuja, Nigeria

Session P-K4 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B Second-Line ART

569 Virologic Suppression With Second-Line Therapy: Does the Initial Regimen Matter?

Kevin L. Ard¹, Lei Hua², Camlin Tierney², Eric S. Daar³, Paul E. Sax¹ 'Brigham and Women's Hospital, Boston, MA, United States,³Harvard School of Public Health, Boston, MA, United States,³Harbor-UCLA Medical Center, Los Angeles, CA, United States

570 Favorable Long-Term Outcomes of 2nd-Line ART Despite Drug-Resistant HIV-1 in Sub-Saharan Africa Tamara S. Boender', Kim C. E. Sigaloff', Raph L. Hamers', Cissy Kityo', Margaret Siwale', Mariette E. Botes', Kishor Mandaliya', Marueen Wellington', Suleiman Akanmu', Tobias F. Rinke de Wit' 'Department of Global Health, Amsterdam Institute for Global Health and Development, Amsterdam, Netherlands, 'Department of Global Health, Department of Internal Medicine, Amsterdam Institute for Global Health and Development, Amsterdam, Netherlands, 'Joint Clinical Research Centre, Kampala, Uganda, 'Lusaka, Trust Hospital, Lusaka, Zambia, 'Muelmed Hospital, Pretoria, South Africa, 'Coast Province General Hospital, Mombasa, Kenya, 'Newlands Clinic, Harare, Zimbabwe, 'Lagos University Teaching Hospital, Lagos, Nigeria

571 Predictors of Time To Switch To Second Line ART After First Line Failure in Johannesburg South Africa

Julia K. Rohr', Prudence Ive², Rebecca Berhanu², Kate Shearer', Mhairi Maskew', Lawrence Long⁴, Ian Sanne^{3,4}, Matthew P. Fox^{1,4} 'Center for Global Health and Development, Boston University, Boston, MA, United States, ³Department of Internal Medicine, School of Clinical Medicine, Faculty of Health Sciences, Clinical HIV Research Unit, Johannesburg, South Africa, ³Flight to Care, Johannesburg, South Africa

Session P-K5 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B

572 Dolutegravir in the French Early Access Program in Integrase HIV-2-Resistant Infected Patients

Diane Descamps^{1,2}, Gilles Peytavin^{2,3}, Florence Damond^{1,2}, Roland Tubiana⁴, Pauline Campa⁵, Marie-Aude Khuong⁶, Claudine Duvivier^{7,8}, Marina Karmochkine⁹, Tuna Lukiana¹⁰, Sophie Matheron^{2,11}
¹Virology, APHP-Hôpital Bichat-Claude Bernard, Paris, France,²IAME UMR 1137 INSERM and Paris Diderot University, Paris, France, 3Pharmacology, APHP-Hôpital Bichat-Claude Bernard, Paris, France, Service des Maladies Infectieuses et Tropicales, APHP-Groupe Hospitalier Pitie-Salpetriere, Paris, France, Service des Maladies Infectieuses et Tropicales, APHP-Hôpital Saint-Antoine, Paris, France, Service des Maladies Infectieuses et Tropicales, Hôpital Delafontaine, Saint-Denis, France, Infectious Diseases Department, Necker-Pasteur Infectious Diseases Center, APHP-Necker Hospital, Paris, France,8 Medical Care Center, Necker-Pasteur Infectious Diseases Center, Pasteur Institut, Medical Care Center, Necker-Pasteur Infectious Diseases Center, Paris, France, Paris, France, 9Service d'Immunologie Clinique, APHP-Hôpital Europeen Georges Pompidou, Paris, France,10 Medical Affairs, ViiV Healthcare, Marly Le Roi, France,11 Service des Maladies Infectieuses et Tropicales, APHP-Hôpital Bichat-Claude Bernard, Paris, France

573 Long Term Outcomes of ART in HIV-2 Infection in Senegal, West Africa

Selly Ba¹, Robert A. Smith², Dana N. Raugi², Macoumba Toure¹, Alassane Niang³, Ibrahima Sall³, Ousseynou Cisse³, Moussa Seydi¹, Papa Salif Sow¹, **Geoffrey S. Gottlieb**², University of Washington— Dakar HIV-2 Study Group 'Clinique des Maladies Infectieuses Ibrahima DIOP Mar, Centre Hospitalier Universitaire de Fann, Universite Cheikh Anta Diop de Dakar, Senegal, 'Medicine, University of Washington, Seattle, WA, United States, 'Région Médicale de Ziguinchor, Ziguinchor, Senegal

574 Raltegravir-Associated Mutations in HIV-2 Confer Cross-Resistance To Dolutegravir In Vitro

Robert A. Smith¹, Dana Raugi¹, Charlotte Pan¹, Salif Sow², Moussa Seydi¹, James Mullins⁴, **Geoffrey Gottlieb¹**, the University of Washington-Dakar HIV-2 Study Group 'Allergy and Infectious Diseases, University of Washington, Seattle,

'Allery and Infectious Diseases, University of Washington, Seattle, WA, United States, 'Bill and Melinda Gates Foundation, Seattle, WA, United States, 'Allergy and Infectious Diseases, Clinique des Maladies Infectieuses Ibrahima DIOP Mar, Dakar, Senegal, 'Microbiology, Medicine and Laboratory Medicine, University of Washington, Seattle, WA, United States

575 Predicting the Extinction of HIV-2 in Guinea-Bissau

Helen Fryer¹, **Carla van Tienen**^{2,3}, Maarten Schim van der Loeff^{4,5}, Matthew Cotten⁶, Hilton Whittle^{7,8}, Peter Aaby⁹, Sarah Rowland-Jones¹⁰, Thushan de Silva^{10,11}

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576 HIV-2 X4 Tropism Is Associated With Lower CD4 Cell Count in Treatment-Experienced Patients

Benoît Visseaux^{1,2}, Charlotte Charpentier^{1,2}, Caroline Rouard¹, Catherine Fagard³, David Glohi¹, Roland Tublana⁵, Florence Damondr^{1,2}, Françoise Brun-Vézinet^{1,2}, Sophie Matheron^{2,4}, Diane Descamps^{1,2}, the French HIV-2 ANRS Cohort CO5 "Laboratoire de Virologie, Höpital Bichat Claude Bemard, Paris, France, ³IAME UMR 1137 INSERM and Paris Diderot University, Paris, France, ³Université Bordeaux 2, INSERM, Bordeaux, France, ⁴Maladies Infectieuses et Tropicales, Höpital Bichat Claude Bemard, Paris, France, ⁵Maladies Infectieuses et Tropicales, Höpital de la Pitié-Salpétrière, Paris, France

Session P-L1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Primary HIV Drug Resistance

577 Current First-Line Regimens Are Effective in Patients With Single Transmitted TAM

Claire M. F. Van Nispen tot Pannerden¹, Abdelilah El Barzouhi², Ard I. van Sighem³, Jan M. Prins⁴, Suzanne Jurriaans⁵, Nicole K. Back⁶, Kees Brinkman⁶, Charles A. Boucher⁷, Marchina E. Van der Ende⁸, Martin Schutten⁷

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578 Drug Resistance Mutations in Treatment-Naïve HIV-Infected Patients 2000-2013

Nicolas A. Margot, Ross Martin, Michael D. Miller, Christian Callebaut

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579 Transmitted HIV-1 Drug Resistance Among Men Who Have Sex With Men, 11 US Jurisdictions, 2008–2011 M. Cheryl Bañez Ocfemia¹, Neeraja Saduvala², Alexandra M. Oster¹, Duid Kirsl, Riberted Wilsel, Menega Despendance, Analyst, Lepsendard

David Kim¹, Richard Kline¹, Magan Pearson¹, Angela L. Hernandez¹, H. Irene Hall¹

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580 Primary Resistance To Integrase Strand-Transfer Inhibitors in Europe

Maria Casadellà', Petra M. Ham², Marc Noguera-Julian', Christian Pou', Daniel Struck', Bonaventura Clotet'-, Charles Boucher', Roger Paredes-'i-, Annemarie M. J. Wensing', SPREAD programme 'IrsiCaixa AIDS Research Institute, Universitat Autònoma de Barcelona, Badalona, Spain, 'Utrecht Medical Centre, Utrecht, Netherlands,' Centre de Recherche Public - Sante, Luxembourg, Luxembourg', HIV Unit, Hospital Universitari Germans Trias i Pujol, Universitat Autònoma de Barcelona, Badalona, Spain, 'Erasmus Medical Center, Rotterdam, Netherlands.'

581 Antiretroviral Drug Resistance Among HIV-Infected Black Men Who Have Sex With Men in the US

Iris Chen¹, Vanessa Cummings¹, Lei Wang², Matthew B. Connor², Mark A. Marzinke¹, Sheldon D. Fields³, Darrell P. Wheeler¹, Kenneth H. Mayer⁵, Beryl A. Koblin², Susan H. Eshleman¹, for the HPTN 061 Study Team

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582 Impact of Transmitted Drug Resistance On Susceptibility To First-Line HAART in France (2010-2012)

Marie-Laure Chaix*, Lambert Assoumou², Pierre Frange¹, Antoine Cheret¹, Laurence Morand-Joubert², Jean-Christophe Plantier¹, Marc Wirden⁵, Florence Nicot⁵, Diane Descamps², Laurence Meyer², the ANRS AC-11 Resistance Group, the ANRS PRIMO Cohort Study and the OPTIPRIM-ANRS 147 Study Group

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583 Persistence of Transmitted HIV-1 Drug Resistance Mutations Associated With Fitness Costs

Wan-Lin Y. Yang¹, Roger Kouyos¹, Jürg Böni², Sabine Yerly³, Thomas Klimkait¹, Vincent Aubert³, Christos Petropoulos⁵, Mojgan Haddad⁵, Sebastian Bonhoeffer², Huldrych F. Günthard¹, Swiss HIV Cohort Study (SHCS)

**University Hospital of Zurich, Zurich, Switzerland, *University of Zurich, Zurich, Switzerland, *University of Geneva, Geneva, Geneva, Switzerland, *University of Basel, Basel, Switzerland, *Lausanne University Hospital, Lausanne, Switzerland, *Monogram Biosciences, San Francisco, CA, United States, *ETH, Zurich, Switzerland

Session P-L2 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Acquired HIV Drug Resistance

584 High HIV Resistance and Mutation Accrual at Low Viral Loads Upon 2nd-Line Failure in Western Kenya

Lameck Diero^{1,2}, Allison DeLong³, Leeann Schreier¹, Emmanuel Kemboi², Millicent Orido², Mary Rono², Marissa Reitsma⁴, Wilfred Emony², Nathan Buziba², Joseph Hogan³, Rami Kantor³ Medicine, Mol University, College of Health Sciences, School of Medicine, Eldoret, Kenya, Academic Model Providing Access to Healthcare, Eldoret, Kenya, Center for Statistical Sciences, Brown University, Providence, RI, United States, Medicine, Brown University, Providence, RI, United States

585 Drug Resistance After 2nd-Line Failure Can Be Managed Using WHO-Recommended Regimens in Nigeria

Nicaise Ndembi¹, Rawlings W. Datir¹, Danjuma Sanda¹, David A. M. C. van de Vijver², Christopher Akolo³, Alash¹le G. Abimiku³, William A. Blattner³, Obinna Ogbanufe⁴, Okey C. Nwanyanwu⁴, Patrick Dakum¹¹institute of Human Virology Nigeria, Abuja, Nigeria³, Virology, Erasmus Medical Center, Erasmus University, Rotterdam, Netherlands, ¡Epidemiology and Prevention, Institute of Human Virology, Baltimore, MD, United States; ¹US Centers for Disease Control and Prevention, Abuja, Nigeria

586 Sociodemographic Determinants of HIV Drug Resistance in British Columbia, Canada

Chanson J. Brumme¹, Melanie Rusch^{2,3}, Keith Chan¹, Dmitry Shopin¹, Guillaume Colley¹, Zabrina L. Brumme^{1,4}, Robert S. Hogg^{1,4}, Julio S. G. Montaner^{1,5}, P. Ichard Harrigan^{1,5}

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587 Week 144 Resistance Analyses of the Phase 3 EVG/ COBI/FTC/TDF Studies

Rima Kulkarni, Michael E. Abram, Martin S. Rhee, Marshall W. Fordyce, Javier Szwarcberg, Michael D. Miller, **Kirsten L. White** Clinical Virology, Gilead Sciences, Inc., Foster City, CA, United States

588 Emergent and Detectable Proviral DNA Drug Resistance in a Community Treatment Program Anne Derache ', Hyoung Shik Shin', Elizabeth White', Dennis Israelski', Jeffrey D. Klausner³, David Katzenstein', Peninsula AIDS Research Collaboration

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589 Acquired Drug-Resistance Mutations and Mortality Among HIV Patients On First-Line ART

Julia W. Wu¹, Hui Xing², Eric Tchetgen Tchetgen¹³, Lingjie Liao², Shahin Lockman⁴³, Yuhua Buan², Victor De Gruttola³, Marc Lipsitch¹⁵, George R. Seage¹, Ylming Shao² ¹Department of Epidemiology, Harvard School of Public Health, Boston, MA, United States. National Center for AIDS/STD Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China; ¹Department of Biostatistics, Harvard School of Public Health, Boston, MA, United States, ¹Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, ¹Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States.

590LB PrEP Exposure and the Risk of Low-Frequency Drug Resistance

Dara A. Lehman¹, Jared Baeten², Connor McCoy³, Julie F. Weis¹, Dylan Peterson¹, Connie Celum², Nelly Mugo⁴, Julie Overbaugh¹, Frederick Matsen³, the Partners PrEP Study Team

'Human Biology, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, Department of Global Health, University of Washington, Seattle, WA, United States, "Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, "Department of Obstetrics and Gynaecology, University of Nairobi, Nairobi, Kenya

591 Rilpivirine-Associated Resistance in HIV-1 DNA in Suppressed Patients Pretreated by NNRTIs

Sebastien Gallien¹, Isabelle Charreau², Marie-Laure NERE³, Nadia Mahjoub³, Nathalie de Castro¹, Jean-Pierre Aboulker⁴, Jean-Michel Molina¹, Constance Delaugerre³

Infectious Diseases, Hôpital Saint Louis, Paris, France, Essais Thérapeutiques et Maladies Infectieuses, INSERM SC10 - US019, Villejuif, France, Virology, Hôpital Saint Louis, Paris, France, INSERM SC10 - US019, Villejuif, France

592 Etravirine/Rilpivirine-Specific Mutations Selected by EFV and NVP in Kenyan Patients Failing ART

Keith W. Crawford¹, Dorothy Njeru², Jonah Maswai³, Milton Omondi⁴, Jane Kinetto³, Duncan Apollo², Appolonia Aoko³, Raphael Langat³, Lawrence Gitano², Jemutai Tarus³, Tiffany E. Hamm¹ ¹Global Health Programs, US Military HIV Research Program, Bethesda, MD, United States, ²US Army Military Research Unit-Kenya (USAMRU-K), Nairobi, Kenya, ³US Army Military Research Unit-Kenya (USAMRU-K), Kericho, Kenya, ⁴US Army Military Research Unit-Kenya (USAMRU-K), Kisumu, Kenya

593 Detection of NNRTI Resistance Mutations After Interrupting NNRTI-Based Regimens

Valentina Cambiano¹, Hannah Castro², David Chadwick³, Erasmus Smit⁴, Anna M. Geretti⁵, David Dunn², Andrew Phillips¹, on behalf of UK HIV Drug Resistance Database & UKCHIC study ¹UCL, London, United Kingdom; *Medical Research Council Clinical Trials Unit, London, United Kingdom, *University of Newcastle, United Kingdom, *University of Newcastle, United Kingdom, *University of Liverpool, Liverpool, United Kingdom *University of Liverpool, University of Liverpool, United Kingdom *University of Liverpool, University of Liverpool, Univers

594 HIV-1 Resistance Outcomes in Seroconverters From MTN 003 (VOICE)

Urvi M. Parikh¹, Kris¹a A. Eskay¹, Russell L. Hardesty¹, Cliff Kelly². Craig A. Magaret³, Cindy Molitor², Zvavahera M. Chirenje⁴, Jeanne Marrazzo⁵, John W. Mellors¹, on behalf of the VolCE Study Team 'Division of Infectious Diseases, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States.³ Fred Hutchinson Cancer Research Center/SCHARP, Seattle, WA, United States.³ Population Sciences, Fred Hutchinson Cancer Research Center/Vaccine and Infectious Diseases Institute, Seattle, WA, United States.° UZ-UCSF Collaborative Research Programme in Women's Health, Harare, Zimbabwe, 'Division of Allergy & Infectious Diseases, University of Washington, Seattle, WA, United States

Session P-L3 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B Mechanisms of HIV Drug Resistance

595 Impact of Raltegravir/Elvitegravir Selected Mutations On Dolutegravir Cross-Resistance

 $\textbf{Wei Huang}, \Brane Frantzell, Jeannette M. Whitcomb, Christos J. Petropoulos$

Monogram Biosciences, South San Francisco, CA, United States

596 N348I in HIV-1 RT Confers Resistance To Etravirine and Rilpivirine But Restricts the Advent of E138K Veronica Zanichelli, Hong-Tao Xu, Susan Colby-Germinario,

Veronica Zanichelli, Hong-Tao Xu, Susan Colby-Germinario, Maureen Oliveira, Yingshan Han, Yudong Quan, Mark Wainberg, Chen Liang

McGill AIDS Centre, Lady Davis Institute, Montreal, QC, Canada

597 Analyses of Accessory Mutations in HIV-1 Protease Reveal Interdependent Mechanisms of Resistance Debra A. Ragland, Madhavi N.L. Nalam, Aysegül Ozen, Yufeng Cai, Hong Cao, Celia A. Schiffer

Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, MA, United States

598LB Two Distinct Mechanisms of Resistance To Allosteric HIV-1 Integrase Inhibitors

Alison Slaughter¹, Kellie Jurado², Lei Feng¹, Nanjie Deng³, Nivedita Jena¹, Jacques J. Kessl¹, James R. Fuchs¹, Ronald M. Levy³, Alan Engelman², Mamuka Kvaratskhelia¹ 'Ohio State University, Columbus, OH, United States,²Harvard University, Boston, MA, United States,³Temple University, Philadelphia,

599 Impact of CD4 Mimetics-Resistant Mutations On Susceptibilities To Anti-Env nMAbs

PA, United States

Shigeyoshi Harada¹, Samatchaya Boonchawalit¹², Tetsuo Narumi³, Hirokazu Tamamura³, Shuzo Matsushita², Kazuhisa Yoshimura¹ ¹AIDS Research Center, National Institute of Infectious Diseases, Shinjuku, Tokyo, Japan,²Kumamoto University, Kumamoto, Japan,³Tokyo Medical and Dental University, Tokyo, Japan

600 M184I and M230I Minority Variants in ART-Naïve Patients Are Linked To APOBEC3G/F Activity

Marc Noguera-Julian¹, Alessandro Cozzl-Lepri², Francesca di Giallonardo³, Rob Schuurman⁴, Martin Daümer², Sue Aitken⁴, Huldryck F. Günthard³, Françoise Brun-Vezinet³, Roger Paredes¹, Karin J. Metzner³, CHAIN Minority HIV-1 Variants Working Group ¹IrsiCaixa Retrovirology Lab, Badalona, Spain;⁴University College, London, United Kingdom,³Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, Zurich, Switzerland;⁴Utrecht Medical Centre, Utrecht, Netherlands;⁴Institut für Immunologie und Genetik, Kaiserlautern, Germany.⁵Association de Recherche en Virologie et Hematologie, Paris, France

601 Characterising the Complex Mutational Pathways Associated With Maraviroc-Resistant HIV-1

Xiaowei Jiang¹, Felix Feyertag², Conor Meehan³, Simon Travers⁴, Charles Craig⁵sª, Mike Westby⁵, Marilyn Lewis⁵s®, David L. Robertson² Department of Genetics, University of Cambridge, Cambridge, United Kingdom,² Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom,³ National University of Ireland Galway, Galway, Ireland, 'South African National Bioinformatics Institute, Bellville, South Africa,' The Research Network, Sandwich, United Kingdom, 'Pitzer R&D, Sandwich, United Kingdom'

Session P-L4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B HIV Drug Resistance Variants

602 Impact of Minority Drug-Resistant and X4 Variants in Naïve Patients Starting ART With <100 CD4+/mm³ Maria Casadellà', Christian Manzardo', Susana Pérez-Ahvarez', Daniel Podzamczer³, Pere Domingo', Christian Pou', Marc Noguera-Julian', Josep M. Gatell', Josep M. Miró', Roger Paredes¹ s' "IrsiCaixa AIDS Research Institute, Universitat Autônoma de Barcelona, Badalona, Spain, *Hospital Clinic-IDIBAPS, University of Barcelona, Barcelona, Spain, *Hospital de Sant Pau, Universitat Autônoma de Barcelona, Barcelona, Spain, *HIV Unit, Hospital Universitari Germans Trias i Puloi, Universitat Autônoma de Barcelona, Badalona, Spain

603 Antiretroviral-Naïve and -Treated Patients Can Harbor Viruses in CSF More Resistant Than in Plasma

Cathia Soulie*, Diane Descamps², Maxime Grude³, Véronique Schneider*, Mary Anne Trabaud³, Laurence Morand-Joubert®, Constance Delaugerre®, Vincent Calvez¹, Philippe Flandre³, Anne-Geneviève Marcelin¹, ANRS Resistance AC11 Group '1043', Virology Laboratory Pitié Salpétrière Hospital, Paris, France, *Virology Laboratory Tenon Hospital, Paris, France, *Virology Laboratory Tenon Hospital, Paris, France, *Virology Laboratory Tenon Hospital, Paris, France, *Virology Laboratory Captor & Group Captor, Tenone, *Virology Laboratory Saint Antoine Hospital, Paris, France, *Virology Laboratory Saint Louis Hospital, Paris, France, *Virology Laboratory Saint Laboratory Saint Laboratory Saint Laboratory Saint Laborator

604 Retention and Decay of HIV-1 Drug Resistance Mutations in Provinal DNA

Justin De La Cruz¹, Saran Vardhanabhuti², Robert M. Rovner¹, Benjamin Pinsky³, Ronald Bosch², David Katzenstein¹

¹Medicine, Infectious Diseases, Stanford University, Stanford, CA, United States, ²Biostatistics, Harvard University, Cambridge, MA, United States, ³Pathology, Stanford University, Stanford, CA, United States

605 Prevalence of Minority Resistant Variants To ETR, DRV, and RAL at Baseline in the ANRS 139 TRIO Trial

Charlotte Charpentier^{1,2}, Lee Q. Guinevere³, Christophe Rodriguez⁴, Benoit Visseaux^{1,2}, Catherine Fagard⁵, Jean-Michel Molina⁸, Christine Katlama⁷, Yazdan Yazdanpanah^{2,8}, Richard P. Harrigan³, Diane Descamps^{1,2}

"Laboratoire de Virologie, Hôpital Bichat-Claude Bernard, Paris, France, "IAME-UMR 1137, Université Paris 7, Paris, France," IAC Centre for Excellence in HIV/AIDS. Vancouver, BC, Canada, "Laboratoire de Virologie, Hôpital Henri Mondor, Créteil, France, "CMG-EC de l'INSERM U897, Université Bordeaux Segalen, Bordeaux, France," Service de Maladies Infectieuses et Tropicales, Hôpital St Louis, Paris, France, "Service de Maladies Infectieuses et Tropicales, Hôpital Ptité-Salpétrière, Paris, France, "Service de Maladies Infectieuses et Tropicales, Hôpital Ptité-Salpétrière, Paris, France, "Service de Maladies Infectieuses et Tropicales, Hôpital St Louis, France, "Service de Maladies Infectieuses et Tropicales, Hôpital St Louis Claude Bernard, Paris, France, "Service de Maladies Infectieuses et Tropicales, Hôpital St Louis Claude Bernard, Paris, France, "Service de Maladies Infectieuses et Tropicales, Hôpital St Louis Louis

Session P-L5 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B Laboratory Detection of Drug Resistance and

Tropism

606 Pan Degenerate Amplification and Adaptation for Highly Sensitive Detection of ARV Drug Resistance lain J. MacLeod^{1,2}, Christopher F. Rowley^{1,3}, M. Essex^{1,2} 'Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, Botswana-Harvard AIDS Institute, Gaborone, Botswana, Beth Israel Deaconess Medical Center,

607 Genotypic Tropism Testing of Proviral DNA To Guide Maraviroc Initiation in Aviremic Subjects

Boston, MA, United States

Federico García¹, Eva Poveda², Maria Àngels Řibas³, Maria Jesús Pěrez-Elias⁴, Onofre J Martinez-Madrid⁵, Jordi Navarro⁵, Antonio Ocampo°, Félix Gutiérrez³, Miguel García-Deltoro³, **Roger Paredes**¹º, PROTEST Study Group

'Hospital Universitario San Cecilio, Granada, Spain, 2INIBIC-Complexo Hospitalario Universitario de A Coruña, A Coruña, Spain, 34ospital Son Espases, Palma de Mallorca, Spain, 54ospital Ramón y Cajal, Madrid, Spain, 54ospital General Universitario Santa Lucia, Cartagena, Spain, 64ospital Universitario Vall d'Hebron, Barcelona, Spain, 74ospital Xeral de Vigo, Vigo, Spain, 64ospital de Elche, Elche, Spain, 74ospital General Universitario de Valencia, Valencia, Spain, 74ospital Universitario de Valencia, Valencia, Spain, 74ospital Universitari Germans Trias I Pujol, Badalona, Spain

608 Characterization of NNRTI Mutations in HIV-1 RT Using Single Molecule, Real-Time SMRT® Sequencing Anand Sethuraman¹, Michael P. S. Brown², Colleen Ludka¹, Yan

Guo', Ellen E. Paxinos¹

¹Applications and Collaborations, Pacific Biosciences, Menlo Park,
CA. United States. ²Bioinformatics. Pacific Biosciences, Menlo Park

CA, United States

609 Celera RUO Integrase Resistance Assay Performs Well
Across Several Subtypes

Carole L. Wallis¹, Raquel V. Viana¹, Elias Konstantine Halvas², John W. Mellors²

¹Molecular Pathology, Lancet Laboratories, Johannesburg, South Africa, ²Division of Infectious Diseases, University of Pittsburgh, Pittsburgh, PA, United States

610 Feasibility and Clinical Utility of HIV-1 Genotype Testing in the Setting of Low-Level Viremia

Maria Mercedes Santoro¹, Daniele Armenia¹, Claudia Alteri¹, Lavinia Fabeni², Domenico Di Pinto¹, Federica Forbici², Ada Bertoli¹.³, Caterina Gori², Andrea Antinori², Carlo Federico Perno² University of Rome Tor Vergata, Rome, Italy.²L Spallanzani Hospital, Rome, Italy.²University Hospital Tor Vergata, Rome, Italy

611 Tropism Testing by MiSeq Is Comparable To 454-Based Methods But Exhibits Contamination Issues

Luke C. Swenson, Winnie Dong, Celia K. S. Chui, Conan K. Woods, Marjorie Robbins, Alejandro Gonzalez-Serna, Aram Karakas, Art Poon, Chanson J. Brumme, P. Richard Harrigan BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada

612 A Proposed HIV Reference Sample Characterized by Three Next-Generation Sequencing Platforms

Alejandro Gonzalez-Serna¹, Chanson J. Brumme¹, Winnie Dong¹, Eric Cai¹, Art F. Y. Poon¹, Kelly D. Hube², Nicolas Sluis-Cremer³, Ellen E. Paxinos⁴, Luke C. Swenson¹, Paul Richard Harrigan¹⁵¹¹British Columbia Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, School of Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ¾Medicine, Division of Infectious Diseases, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁴Applications and Collaborations, Pacific BioSciences, Menlo Park, CA, United States, ⁵Department of Medicine, Division of AIDS, Vancouver, BC, Canada

Session P-L6 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall B Cost Effectiveness Studies of ART and Drug Resistance Testing

613 Antiretroviral Switch Strategies for Lowering Costs of Therapy: 48-Week Cost-Efficacy Analysis

Josep M Llibre¹, Gloria Cardona², Jose R Santos³, Angels Andreu², Xavier Bonafont², Bonaventura Clotet¹

"IHV Unit, University Hospital Germans Trias i Pujol, Badalona, Spain,²Pharmacy, University Hospital Germans Trias i Pujol, Badalona, Spain,³University Hospital Germans Trias i Pujol, Badalona, Spain

614 The Cost-Effectiveness of Genotype Testing for Primary Resistance in Brazil

Paula M. Luz¹, Bethany L. Morris², Beatriz Grinsztejn¹, Kenneth A. Freedberg²³, Valdilea G. Veloso¹, Rochelle P. Walensky²², Voriko M. Nakamura², Paul E. Sax³e, Claudio J. Struchiner¹, A. David Pattiel7¹ Fundação Oswaldo Cruz, Instituto de Pesquisa Clinica Evandro Chagas, Rio de Janeiro, Brazil², Massachusetts General Hospital, Medical Practice Evaluation Center, Boston, M.M., United States, ³Massachusetts General Hospital, Division of General Medicine, Boston, M.A., United States, *Massachusetts General Hospital, Division of Infectious Disease, Boston, M.A., United States, *Parad Medical School, Boston, M.A., United States, *Brigham and Women's Hospital, Division of Infectious Disease, Boston, M.A., United States, *Pale School of Public Health, New Haven, CT. United States

Session P-M1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B HIV Early Detection: Application of New Assays

Application of the Geenius™ HIV1/2 Supplemental Assay for Detection of Recent HIV Infections Shelia M. Keating¹². Gary Murphy³. Alex Welte⁴, Reshma Kassanjee⁴, David Matten⁴, Shelley N. Facente¹, Mila Lebedeva¹, Michael P. Busch¹². Christopher D. Plicher⁴. Consortium for Evaluation of Performance of HIV Incidence Assays (CEPHIA) ¹Blood Systems Research Institute, San Francisco, CA, United States²¹University of California San Francisco, CA, United States²¹University of California San Francisco, CA, United States¹¹University of California San Francisco, CA, United States of California San Francisco, Cal United States of California San Francisco, Cal United States

Cost Effectiveness of Adding 4th-Generation Immunoassay Screening After a Negative Rapid HIV

Angela B. Hutchinson¹, Stephanie Cohen²; Emily Westheimer³, Cynthia Gay⁴, Elliott Marseille⁵, Laura Hall¹, Lisa Hightow-Weidman⁴, Benjamin Tsoi³, Mark Pandori², Philip J. Peters¹ 'Centers for Disease Control and Prevention, Atlanta, GA, United States 'San Francisco Department of Public Health, San Francisco, CA, United States, "New York City Department of Health and Mental Hygiene, New York, NY, United States, "University of North Carolina at Chapel Hill, Chapel Hill, NC, United States," Health Stategies International, Oakland, CA, United States, "ICF International, Atlanta, GA, United States," San Francisco, CA, United States

617 Performance of HIV Rapid Tests To Identify Seroconverters in MTN 003 (VOICE)

Urvi M. Parikh¹, **Edward Livant**², Cliff Kelly³, Rashika Maharaj⁴, Marshall W. Munjoma⁵, Patrick Karugaba⁶, Natasha Samsunder⁷,

Rosetta Lindiwe Nhlangulela⁸, Jeanne Marrazzo⁸, Zvavahera M. Chirenije⁵, on behalf of the VOICE Study Team 'University of Pittsburgh School of Medicine, Division of Infectious Diseases, Pittsburgh, PA, United States, *Magee Womens Research Institute & Foundation, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, *Fred Hutchinson Cancer Research Center/SCHARP, Seattle, WA, United States, *Medical Research Council of South Africa HIV Prevention Research Unit, Durban, South Africa, *UZ-UCSF Collaborative Research Programme in Women's Health, Harare, Zimbabwe, *Core Laborator, MU-HU Research Collaboration, Kampala, Uganda (*Centre for the AIDS Programme of Research in South Africa (CAPRISA), Durban, South Africa, *Laboratory, Aurum Institute, Klerksdorp, South Africa, *Puliversity of Washington Division of Allergy & Infectious Diseases, Seattle, WA, United States

618 Algorithms and Acute Infections: Innovations in Routine HIV Screening

Kara I. Geren¹, Eric O. Moore², Robert E. Fromm³, Dan Hobohm⁴, Joy Jenkins⁵, Heather L. Jordan⁵, Frank LoVecchio¹, Nancy Lowman⁵, Robert McGuire⁶, Cheri K. Tomlinson²

'Emergency Medicine, Maricopa Integrated Health System, Phoenix, AZ, United States,' Grants Administration, Maricopa Integrated Health System, Phoenix, AZ, United States,' Administration, Maricopa Integrated Health System, Phoenix, AZ, United States,' Clinical Laboratory, Maricopa Integrated Health System, Phoenix, AZ, United States,' Adult Emergency Department, Maricopa Integrated Health System, Phoenix, AZ, United States,' Information Technology, Maricopa Integrated Health System, Phoenix, AZ, United States

619 Evaluation of the Proposed US CDC Algorithm for Detection of Acute HIV Infection in Serial Samples Leigh Anne Eller¹, Mark Manak¹, Ashley Shutt¹, Rapee Trichavaroj², Joseph Oundo³, Cornelia Lueer⁴, Fatim Jallow⁵, Jerome Kim⁶, Merlin Robb¹, Sheila Peel⁶

'US Military HIV Research Program, Walter Reed Army Institute of Research/Henry M. Jackson Foundation, Bethesda, MD, United States, \$ARMINS, Bangkok, Thailand, \$Walter Reed Project, Kericho, Kenya, Kericho, Kenya, Medical Research Centre, Mbeya, Tanzania, United Republic of, \$Makerere University Walter Reed Project, Kampala, Uganda, \$US Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States

Session P-M2 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B HIV Diagnostics

620 Evaluation of the Hologic Aptima HIV-1 Quant Dx Assay With HIV-1 Subtypes

Mark M. Manak', Holly Hack', Tracy Trsic', Sangeetha Nair', Andrew Worlock', Sheila A. Peel', Jennifer Malia', Linda Jagodzinski³ "DLDM, US Military HIV Research Program, HJF, Silver Spring, MD, United States, Hologic, San Diego, CA, United States, Hologic, San Diego, CA, United States, DLDM, US Military HIV Research Program, WRAIR, Silver Spring, MD, United States

621 CAP/CTM V. 2.0 Using Dried Blood Spots Ineffective at Diagnosing Antiretroviral Treatment Failure Souleymane Sawadogo!, Andreas Shiningawamwe?, Joy Chang³, Maher Andrew!, Churfu Yang³, Esegiel Gaeb², Harold Kaura², Dennis Ellenberger³, David Lowrance¹ 'CDC-Namibia, Windhoek, Namibia,²Namibia Institute of Pathology,

Windhoek, Namibia, *DGHA/CGH/CDC, Atlanta, GA, United States

Reliable and Accurate CD4 T Cell Count and Percent of
the New Portable Flow Cytometer CyFlow MiniPOC
Milena Nasi', Sara De Biasi', Elena Bianchini', Lara Gibellini',
Marcello Pinti', Tizlana Scacchetti', Tommaso Trenti', Vanni Borghi',
Cristina Mussini', Andrea Cossarizza'

University of Modena and Reggio Emilia, Modena, Italy. Department
of Clinical Pathology. MOCSAF Ragniovara Modena, Italy.* Infectious

*University of Modena and Reggio Emilia, Modena, Italy, *Department of Clinical Pathology, NOCSAE Baggiovara, Modena, Italy, *Infectious Diseases Clinics, Azienda Ospedaliero-Universitaria Policlinico of Modena, Italy

623LB A Recombinant HIV-1 Gag Virus Panel for the Evaluation of p24-Antibodies and HIV Diagnostic Tests Beatrice N. Vetter, Vanessa Orlowski, Cyril Shah, Jürg Böni, Jörg Schüpbach

National Center for Retroviruses, Zurich University, Zurich, Switzerland

- 624 Evaluation of Pima CD4 Point-Of-Care Device in Western Kenya for Potential Use in Field Settings Clement Zeh¹, Seth C. Inzaule³, Fredrick Otieno³, Boaz Oyaro³, Richard Ndivo³, Rose CE³, Mitesh Desai³, Robert Chen³, Lisa A. Mills¹, Taraz Samandari³

 "CDC, Kisumu, Kenya,*KEMRI/CDC, Kisumu, Kenya,³CDC, Atlanta, GA, United States
- 625 Comparison of Central and Local HIV-1 RNA Quantification From Two International Clinical Trials Janaki Amin, Matthew Law, Anthony Kelleher, Rebekah Puls, David Cooper, Sean Emery The Kirby Institute, University of New South Wales, Sydney, Australia
- 626 HIV-1 Can Be Confirmed by Bio-Rad Geenius™ HIV 1/2 Confirmatory Assay Using Dried Blood Spots Carolina Fernández McPhee¹, Patricia Alvarez¹, Luis Prieto², Jacinta Obiang³, Pedro Avedillo¹, Antonio Vargas⁴, Pablo Rojo⁵, José Tomás Ramos³, África Holguin¹ Microbiology and Parasitology, Hospital Ramón y Cajal, Madrid, Spain;*Hospital de Getale, Madrid, Spain;*Ministerio de Sanidad y Bienestar Social, Hospital Provincial de Bata, Bata, Equatorial Guinea, finstituto de Salud Carlos III-Madrid, RICET, Centro Nacional de Medicina Tropical, Madrid, Spain;*Hospital Doce de Octubre, Madrid, Spain

627 Standard Diagnostics Bioline HIV/Syphilis Duo Test: Multi-Site Laboratory Evaluation

Claire C. Bristow¹, Yaw Adu-Sarkodie², Raphael O. Ondondo³, Elizabeth Anne Bukusi³, Claver Anoumou Dagnra⁴, Khin Yi Oo⁵, Jeffrey D. Klausner⁶

Fielding School of Public Health, University of California Los Angeles, Los Angeles, CA, United States, "Department of Clinical Microbiology, School of Medical Science, College of Health Sciences, Kwama Nkruaha University of Science and Technology, Kumasi, Ghana, "Kenya Medical Research Institute, Kisumu, Kenya, "Centre National de Référence des Tests VIH, Laboratoire de Microbiologie, Lomé, Togo, "Virology Section, National Health Laboratory, Yangon, Myanmar, "Department of Medicine, University of California Los Angeles, Los Angeles, CA, United States

Session P-N1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B HCV Testing and Epidemiology

- 628 High Hepatitis C Infection Rate in Birth Cohort Testing of an Urban, Primary Care Clinic Population
 Alexander G. Geboy¹, Sandeep Mahajan², Allison P. Daly¹, Candice F. Sewell², Won K. Cho², Carmella A. Cole², Dawn A. Fishbein²
 ¹MedStar Health Research Institute, Washington, DC, United States; MedStar Washington Hospital Center, Washington, DC, United States
- 629 Prevalence and Risk Factors of Hepatitis C Virus Infection in China's National Methadone Program Cynthia X. Shi'², Aozhou Wu³⁴, Keming Rou', Enwu Liu', Yan Zhao', Xiaobin Cao', Changhe Wang', Wei Luo', Zunyou Wu¹¹¹National Center for Albos/STD Control and Prevention, Chinese Center for Disease Control and Prevention, Beljing, China-Tepidemiology, Harvard University, Boston, MA, United States,³Health Science Center, Peking University, Batimore, MD, United States
- The Burden of Hepatitis C Infection in Pennsylvania State Prisons and Implications for Treatment Madeline Mahowald', Sarah Larney\(^1\)2. Nicholas Scharff\(^2\), Curt Beckwith\(^4\), Lynn E. Taylor\(^1\)4. Nick Zaller\(^4\)4. Timothy Flanigan\(^4\)4. The Warren Alpert Medical School at Brown University, Providence, RI, United States\(^4\)Autonal Drug and Alcohol Research Centre, Sydney, Australia\(^3\)Burreau of Health Care Services, Mechanicsburg, PA, United States\(^4\)Division of Infectious Diseases, The Miriam Hospital, Providence, RI, United States\(^4\)

631 Impact of Rapid Hepatitis C Testing On Receipt of Hepatitis C Results in a Public STD Clinic

Oluwaseun Falade-Nwulia¹², Shruti Mehta³, Mark Sulkowski¹, Jackline Lasola¹, Khalli Ghanem¹, Patrick Chaulk², David Thomas¹ "Division of Infectious Diseases, Johns Hopkins University, Baltimore, MD, United States, Baltimore City Health Department, Baltimore, MD, United States, Department of Epidemiology, Johns Hopkins University, Baltimore, MD, United States

632 Hepatitis C Antigen Testing: A Reliable Alternative for Diagnosing Acute HCV Infection

Simon George Shaw, Fiona Cresswell, Gary Homer, Mohammed Hassan-Ibrahim, Martin Fisher HIV Medicine, Brighton and Sussex Univeristy Hospitals NHS Trust, Brighton, United Kingdom

Session P-N2 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B HCV Pre-Clinical Studies and Pharmacology

635 Longitudinal Analysis of RAVs by PrimerID 454-Sequencing in the Boceprevir P-05063 Study Richard J. O. Barnard¹, Abha Chopra², Mark Watson², Don Cooper², Cassandra Jabara³, Daria Hazuda¹, Stanley Lemon³, Simon Mallal² ¹Infectious Disease, Merck and Co, West Point, PA, United States²,¹Institute for Immunology & Infectious Diseases, Murdoch, Australia¸¹University of North Carolina, Chapel Hill, NC, United States

636 ABT-493, a Potent HCV NS3/4A Protease Inhibitor With Broad Genotype Coverage

Teresa Ng¹, Thomas Reisch¹, Tim Middleton¹, Keith McDaniel¹, Dale Kempf¹, Liangjun Lu¹, Guoqiang Wang², Lijuan Jiang², Yat Sun Or², Tami Pilot-Matias¹

¹AbbVie Inc., North Chicago, IL, United States, ²Enanta Pharmaceuticals Inc., Watertown, MA, United States

637 Use of Dried Blood Spots for Measuring Intracellular Ribavirin-Triphosphate

Leah C. Jimmerson, Jia-Hua Zheng, Lane R. Bushman, Kyle P. Hammond, Peter L. Anderson, Jennifer J. Kiser Pharmaceutical Sciences, University of Colorado, Denver, Aurora, CO, United States

638 Ritonavir-Boosted Atazanavir, Lopinavir, & Darunavir Increase HCV NS5A Inhibitor MK-8742 Levels Wendy Y. Yeh¹, William Marshall¹, Joanne Ma¹, Eric Mangin¹, Xiaobi

Wendy Y. Yeh', William Marshall', Joanne Ma', Fric Mangin', Xiaol Huang', Patricia Jumes', Stephen Youngberg², Joan Butterton'
'Merck, Sharp and Dohme, Whitehouse Station, NJ, United
States, Celerion, Lincoln, NE, United States

639 ABT-530, an HCV NS5A Inhibitor With Potent Pangenotypic Activity and High Barrier To Resistance Teresa Ng, Preethi Krishnan, Warren Kati, Thomas Reisch, Liangjun Lu, Tanya Dekhtyar, Akhter Molla, Christine Collins, Tami Pilot-Matias AbbVie Inc., North Chicago, IL, United States

Session P-N3 Poster Session

Lo Re3

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B HCV: Prognosis and Impact of Treatment Including Liver Transplantation

640 FIB-4 Outperforms Liver Biopsy in the Assessment of Prognosis in HIV/HCV Coinfection

Juan Berenguer', Francisco X. Zamora², Ana Carrero¹, Miguel Angel von Wichmann³, José López-Aldeguer⁴, María J. Těllez², José Sanz⁴, Herminia Esteban⁷, José M. Bellón¹, Juan González-García², and GESIDA 3603 Study Group

'Hospital General Universitario Gregorio Marañón, Madrid, Spain, 'Hospital Universitario La Paz, Madrid, Spain, 'Hospital Donostia, San Sebastián, Spain, 'Hospital La Fe, Valencia, Spain, ⁵Hospital Clínico San Carlos, Madrid, Spain, 'Hospital Príncipe de Asturias, Alcalá de Henares, Spain, 'Teundación SEIMC/GESIDA, Madrid, Spain

641 Sustained Virologic Response and the Risk of Liver Decompensation in HCV and HIV/HCV Patients Temitope 0. Olurade*, Li Wang*, Scott Devine*, Onur Baser*, Vincent ¹US Outcomes Research, Merck Sharpe & Dohme, North Wales, PA, United States, ²STATin/MED Research, Dallas, TX, United States, ³Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States

642LB GWAS Reveals New Genetic Associations With Liver Fibrosis Progression

Stephanie Dominguez¹², Sigrid Le Clerc³, Damien Ulveling³, Taoufik Labib³, Maria Winnock¹, Ioannis Theodorou³, Laurent Abel³, Yves Levy¹², Dominique Salmon¹, Jean Francois Zaguy³ orbinique Salmon¹, Jean Francois Zaguy³ clairical Immunology and infectious disease, Henri Mondor Hospital, Paris, France,ªNSERM U955, Creteil, France,ªChaire de Bioinformatique, Conservatoire des Arts et Métiers, Paris, France,ªINSERM U 947, Pierre et Marie Curie University, Bordeaux, France,ªINSERM U 945, Pierre et Marie Curie University, Paris, France,ªInschardtoy of Infectious Diseases INSERM U980, University Paris Descartes Imagine Institute, Paris, France,³Infectious and Tropical diseases, Cochin Hospital, Paris, France,³Infectious and Tropical diseases,

643 Incident HCV Infections in the Swiss HIV Cohort Study: Natural History and Treatment Outcomes

Gilles Wandeler¹², Janine Rohrbach¹, Karin Metzner², Jan Fehr³, Marcel Slöckle⁴, Matthias Cavasain⁸, Juan Ambrosioni⁸, Olivia Keiser², Hangkob Furrer¹, Andri Rauch¹

18em University Hospital, Bern, Switzerland², University of Bern, Bern, Switzerland³, University Hospital Zurich, Zurich, Switzerland⁴, University Hospital Basel, Basel, Switzerland⁴, University Hospital Basel, Basel, Switzerland⁴, University Hospital Geneva, Geneva, Geneva

644 Is There Long-Term Evidence of Advanced Liver Fibrosis After Acute Hepatitis C in HIV Coinfection? Christoph Boesecke¹, Patrick Ingiliz², Mattias Mandorfer³, Carolynne Schwarze-Zander¹, Florian Berger¹, Marc-Antoine Valantin³, Jan-Christian Wasmuth¹, Thomas Reiberger³, Stefan Mauss⁴, Juergen K. Rockstroh¹, and the NEAT study group 'Department of Internal Medicine I, Bonn University Hospital, Bonn, Germany.ºMIB, Berlin, Germany.ºMedical University of Vienna, Vienna, Austria, 'Center for HIV and Hepatogastroenterology, Duesseldorf, Germany.ºHobital La Piùé Salbétrier. AP. HP. Paris, France

645 Hepatic Decompensation in HIV/HBV/HCV Patients and the Impact of HBV Therapy

Temitope O. Olufade¹, Li Wang², Scott Devine¹, Onur Baser², Vincent Lo Re³

"US Outcomes Research, Merck Sharpe & Dohme, North Wales, PA, United States," STATINMED Research, Dallas, TX, United States, "Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States

646 Short-Term Risk of Decompensation Among HIV/HCV-Coinfected Patients With Significant Fibrosis

Juan Macías¹, Manuel Márquez², Dolores Merino³, Francisco Téllez⁴, Antonio Rivero³, Luis López Cortés⁵, María Mancebo³, Juan A. Pineda¹ 'Hospital Universitario de Valme, Seville, Sapain; Phospital Universitario Virgen de la Victoria, Málaga, Spain; Hospital Juan Ramón Jiménez, Huelva, Spain; Hospital La Línea. La Línea de la Concepción, Spain; Hospital Universitario Reina Sofía, Córdoba, Spain; Hospital Universitario Virgen del Rocio, Seville, Spain

647 Differential Immune Marker Levels Linked To Liver Fibrosis in HIV/Hepatitis C (HCV) Coinfection Nasheed Moqueet¹, Cynthia Kanagaratham², Danuta Radzioch², Sahar Saeed², Marina B. Klein¹, Canadian Co-infection Cohort

Sahar Saeed², Marina B. Klein¹, Canadian Co-infection Cohort

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Outcome of 215 HCV/HIV-Coinfected Liver Transplant Recipients: A Prospective Multicenter Study

Jose M. Miro', Miguel Montejo², Marino Blanes³, Abradelo Manuel¹, Santos del Campoŝ, Lluis Castells³, Antoni Rafecas², Christian Manzardo¹, līnāki Perez¹, Antoni Rimola¹, and FIPSE investigators ¹Hospital Clinic-IDIBAPS, University of Barcelona, Barcelona, Spain,⁴hospital Universitario de Cruces, Bilbao, Spain,³Infectious Diseases, Hospital Ia Fe, Valencia, Spain,⁴Hospital Doce de Octubre, Madrid, Spain,†Hospital Universitario Ramon y Cajal, Madrid, Spain,⁵Hospital Universitario Vall d'Hebrón, Barcelona, Spain,⁵Hospital Bellvitge-IDIBELL, University of Barcelona, L'Hospitalet de Llobregat, Spain

649 Liver Fibrosis Progression Among Persons With Recently Acquired HCV Infection

Adeel A. Butt^{1,2}, Peng Yan³, Vincent Lo Re⁴, Marina B. Klein⁵, Matthew B. Goetz⁶, David Leaf⁶, Matthew S. Freiberg¹, Kenneth E. Sherman⁷

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650 Predicting Risk of ESLD in HIV/HCV Patients for Individualized HCV Therapy Decisions

Vincent Lo Re¹, Janet P. Tate², Adeel A. Butt³, Marina B. Klein⁴, Cynthia Gibert⁵, David Rimland⁶, Matthew B. Goetz⁷, Jay R. Kostman¹, Amy C. Justice², Russell Localio¹

"Inhiversity of Pennsylvania, Philadelphia, PA, United States, "VA Connecticut Healthcare System, West Haven, CT, United States," University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, "McGill University Health Centre, Montreal, QC, Canada," Washington DC VA Medical Center, Washington, DC, United States, "Atlanta VA Medical Center, Atlanta, GA, United States," VA Greater Los Angeles Healthcare System, Los Angeles, CA, United States States

651 Level of Alcohol Use and Advanced Hepatic Fibrosis in HIV-Infected and Uninfected Patients

JP Tate!, JK Lim!, KJ Bryant², CL Gibert³, D. Rimland⁴, Mb Goetz⁵, MB Klein³, DA Fiellin¹, AC Justice¹, V. Lo Re² 'Yale University School of Medicine, New Haven, CT, United States. National Institute on Alcohol Abuse and Alcoholism (NIAAA), Washington, DC, United States, "Emory School of Medicine, Washington, DC, United States, "Emory School of Medicine, Atlanta, GA, United States, "David Geffen School of Medicine, Atlanta, GA, United States, "David Geffen School of Medicine, Diversity of California Los Angeles, Los Angeles, CA, United States," Department of Medicine, McGill University, Montreal, OC, Canada, 'University of Pennsylvania School of Medicine, Philadelphia, PA, United States

652 Liver-Related Death in HIV/HCV Coinfected Individuals: Who Should Be Targeted for HCV Treatment?

Daniel Grint¹, Lars Peters², Juergen K. Rockstroh³, Aza Rakhmanova⁴, Igor Karpov⁵, Massimo Galli⁶, Pere Domingo², Ole Kirk², Jens D. Lundgren², Amanda Mocroft¹

"University College London, London, United Kingdom," Copenhagen HIV Programme, Copenhagen, Denmark, "University of Bonn, Bonn, Germany, "Medical Academy Botkin Hospital, St. Petersburg, Russian Federation," Belarus State Medical University, Minsk, Belarus, "Fluigi Sacco Hospital, Milan, Italy," Hospital de Sant Pau, Barcelona, Spain

653 Significant Decrease of Liver Fibrosis in HIV-HCV Coinfected Patients Treated for HCV Infection Marc Arthur Loko', Camille Gilbert', Karine Lacombe', Caroline Lascoux-Combe', Gilles Pialoux', Linda Wittkop', Christine Katlama', François Dabis', Dominique Salmori 'INSERM, Bordeaux, France', Assistance Publique H\u00f6\u00fcnitaux de Paris.

Session P-N4 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B HCV Treatment: Real-World Experience

654LB On-Treatment Viral Response To MK-5172/MK-8742 ± RBV for 12 Weeks in HCV/HIV-Coinfected Patients

Mark Sulkowski¹, Josep Mallolas², Marc Bourliere³, Jan Gerstoft⁴, Oren Shibolet⁵, Ronald Nahass⁴, Edwin DeJesus², Melissa Shaughnessy⁴, Peggy Hwang⁴, Barbara Haber⁴ 'Johns Hopkins University School of Medicine, Battimore, MD, United States ¾16spital de Dia. Enfermedades Infecciosas, Barcelona. Spain,³Service d'hépato-gastroentérologie, Hôpital Saint-Joseph, Marseille, France, "Department of Infectious Diseases, Rigshospitalet, Copenhagen. Demmark; Liver Unit, Department of Gastroenterology,

Tel-Aviv Medical Center, Tel Aviv, Israel, ID Care, Hillsborough, NJ,

United States, Orlando Immunology Center, Orlando, FL, United States, Merck & Co. Inc., Whitehouse Station, NJ, United States

655 Slow HCV-RNA Decay and Early Resistance Predict the Risk of Failure To TVR/BOC Treatment

Francesca Ceccherini-Silberstein¹, Valeria Cento¹, Velia Chiara Di Maio¹, Daniele Di Paolo², Sergio Babudieri³, Antonio Di Biagio⁴, Massimo Andreoni⁵, Giustino Parruti⁵, Giuliano Rizzardini7, Carlo Federico Perno¹

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656LB Global Origin of HCV NS3 Substitution Q80K That Is Associated With Lower Simeprevir Susceptibility

Art F. Poon¹, Richard H. Liang¹, Jeffrey B. Joy¹, Thuy Nguyen¹, Rosemary M. McCloskey¹, Mel Krajden², Julio S. G. Montaner¹, P. Richard Harrigan¹

¹BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, ²BC Centre for Disease Control. Vancouver, BC. Canada

658 Protease Inhibitors To Treat Hepatitis C in the Swiss HIV Cohort Study: High Efficacy But Low Uptake

Sebastian Haubitz¹, Verena Schaerer², Juan Ambrosioni³, Matthias Cavassini⁴, Marcel Stoeckle⁵, Patrick Schmid⁶, Laurent Decosterd⁴, Karin Metzner², Jan Fehr², **Andri Rauch**¹

¹Division of Infectious Diseases, Bern, Switzerland, ²Division of Infectious Diseases, Zurich, Switzerland, ³Division of Infectious Diseases, Geneva, Switzerland, ⁴Division of Infectious Diseases, Lausanne, Switzerland, ⁵Division of Infectious Diseases, Basel, Switzerland, ⁵Division of Infectious Diseases, St Gallen, Switzerland

659LB Boceprevir for Previously Treated HCV-HIV Coinfected Patients: The ANRS-HC27 BocepreVIH Trial

Isabelle Poizot-Martin^{1,2}, Eric Bellissant^{3,4}, Phillippe Colson^{5,6}, Alain Renault^{3,4}, Lionel Piroth⁷, Caroline Solas^{8,8}, Marc Bourlière¹⁰, Rodolphe Garraffo¹¹, Phillippe Halfon¹², Jean-Michel Molina^{13,14}, and the ANRS HC27 BOCEPREVIIH Study Group.

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660 Boceprevir/Telaprevir-Based Therapy in HIV-Infection: Interim Analysis of a Multicenter Cohort

Karin Neukam^{1,2}, Daniela Munteanu^{3,4}, Antonio Rivero⁵, Annette Haberl⁶, Manuel Márquez⁷, Patrick Ingiliz⁸, Ignacio de los Santos-Gil⁹, Thomas Lutz¹⁰, Juergen K. Rockstroh³, Juan A. Pineda¹

Unit of Infectious Diseases and Microbiology, Hospital Universitario de Valme, Seville, Spain, **University of Liverpool, Liverpool, United Kingdom, **Bonn University Hospital, Bonn, Germany, **Matel Bals National Institute of Infectious Diseases, Bucharest, Romania-Hospital Universitario Beina Sofia, Cordoba, Spain, **Frankfurt University Hospital, Frankfurt am Main, Germany, **Hospital Universitario de la Victoria, Malaga, Spain, **Medical Center for Infectious Diseases, Berlin, Germany, **Hospital Universitario de la Princesa, Madrid, Spain, ***Infektiologikum, Frankfurt am Main, Germany

661 Favorable Adverse Event Profile of Sofosbuvir/Ribavirin Versus Standard of Care for Hepatitis C

Kerry Townsend¹, Shivakumar Narayanan², Amy Nelson¹, Adrian Majid², Luciano Kapelusznik², Robert R. Redfield², Shyamasundaran Kottilili¹, Rohit Talwani², Anuoluwapo Osinusi^{1,2}

¹LIR, NIAID, NIH, Bethesda, MD, United States, ²Institute of Human Virology, Div. of Infectious Diseases, University of Maryland School of Medicine, Baltimore, MD, United States

662LB IFN-Free 3 DAA Regimen in HCV Genotype 1-Infected Patients On Methadone or Buprenorphine

Jacob Lalezari¹, J Greg Sullivan², Peter Varunok³, Edward Galen⁴, Kris V. Kowdley⁵, Vinod Rustgi⁶, Humberto Aguilar⁷, Franco Felizarta⁸, Daniel Cohen⁹. Hui Tang⁹

"Quest Clinical Research, San Francisco, CA, United States, "Parkway Medical Center, Birmingham, AL, United States, "Premier Medical Group of the Hudson Valley, PC, Poughkeepsie, NY, United States, "Northwest Gastroenterology Clinic, Portland, OR, United States, "Digestive Disease Institute, Seattle, WA, United States," Digestive Disease Institute, Seattle, WA, United States, "Dupical Research, Fairfax, VA, United States," Louisiana Research Center, LLC, Shreveport, LA, United States, "Private practice, Bakersfield, CA, United States," AbbVie Inc., North Chicago, IL, United States

663 Telaprevir Treatment of HIV/HCV G1 Patients With Severe Fibrosis: Efficacy Results To Week 16

Andrea Gori¹, Manuela Doroana², Oksana Chernova³, Jürgen Rockstroh⁴, Denes Bánhegyi⁵, Colm Bergin⁵, Gabriella Verucchi², Andrew Hill³, Blanca Hadacek³, Mark Nelson¹o

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664LB Telaprevir Increases Ribavirin Toxicity Through eGFR Decrease in HIV-HCV Coinfected Patients

Laurent Cotte^{1,2}, Aurélie Barrail-Tran^{3,4}, Corine Vincent⁶, Marc-Antoine Valantin^{6,7}, Isabelle Fournier⁶, Karine Lacombe⁸, Stéphane Chevaliez^{8,10}, Jean-Pierre Aboulker⁶, Anne-Marie Taburet^{3,4}, Jean-Michel Molina^{11,12}

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665LB Safety and Efficacy of IFN-Free, Sofosbuvir/RBV Therapy in HIV/HCV Liver Transplanted Patients

Ana Moreno', María J. Pérez-Elías', Rafael Bárcena², Carmen Quereda', Jose L. Casado', Fernando Dronda', Santos del Campo², María L. Mateos³, Alberto Diaz', Santiago Moreno' 'Infectious Diseases, Hospital Ramón y Cajal, Madrid, Spain,²Liver Transplant Unit, Hospital Ramón y Cajal, Madrid, Spain,°Microbiology, Hospital Ramón y Cajal, Madrid, Spain

666 ss469415590 Variant Is a Better Predictor Than IL28B rs12979860 of PegIFN-α/RBV Therapy Failure

Sandra Franco¹, Ester Aparicio¹, Mariona Parera¹, Bonaventura Clotet¹², Cristina Tural¹², Miguel Angel Martinez¹ ¹IrsiCaixa, Hospital Universitari Germans Trias i Pujol, Universitat Autònoma de Barcelona, Badalona, Spain,²Fundació de la Lluita contra la SIDA, Badalona, Spain

667 Pill Burden & Treatment Length Reduce Adherence To IFN-Free Hepatitis C Therapy in an Urban Cohort

Tess Petersen¹, Lori A. Gordon², Kerry Townsend³, Monica Calderon⁴, Sreetha Sidharthan¹, Rachel Silk⁴, Anu Osinusi^{3,5}, Henry Masur¹, Shyam Kottilili³, Anita Kohli^{1,4}

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668 Telaprevir in Treatment-Experienced HIV-HCV G1 Coinfected Patients (ANRS HC26 TelapreVIH)

Laurent Cotte¹², Corinne Vincent³, Philippe Sogni⁴⁵, Isabelle Fournier³, Hugues Aumaître⁸, Pierre De Truchis³, Isabelle Rosa⁸, Stephane Chevaliez⁹, Jean-Pierre Aboulker¹⁰, Jean-Michel Molina^{4,11} Infectious Diseases, Hospices Civils de Lyon, Lyon, France, ²U1052, INSERM, Lyon, France, ³SC10-US019, INSERM, Villejuif, France, ⁴Nasistance Publique - Hópitaux de Paris, Paris, France, ⁵Paris Descartes University, Paris, France, ⁶Saint Jean Hospital, Perpignan, France, ⁶Centre Hospitalier Intercommunal, Créteil, France, ⁹Assistance Publique - Hópitaux de Paris, Garciell, France, ⁹INSERM, Villejuif, France, ⁹University of Paris VII Denis Diderot, Paris, France, ⁹Vinserty of Paris VII Denis Diderot, Paris, France, ⁹Vinserty, Paris, Paris VII Denis Diderot, Paris, France, ⁹Vinserty, Paris VII Denis Diderot, Paris, Paris VII Denis Diderot, Paris, Paris VII Denis Diderot, Paris, P

Session P-N5 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B HCV: The Cascade

669 The Treatment Cascade for People With Chronic Hepatitis C Virus Infection in the United States Baligh R. Yehia¹, Asher Schranz², Craig Umscheild¹, Vincent Lo Re¹¹University of Pennsylvania, Philadelphia, PA, United States,²New York University, New York, NY, United States

670 Initial Results of a Community-Based Rapid Hepatitis C Testing and Linkage To Care Program

Christian B. Ramers¹, Robert Lewis¹, Letty Reyes¹, Alexander Kuo², David L. Wyles³

'Special Populations, Family Health Centers of San Diego, San Diego, CA, United States, 'Hepatology and Liver Transplantation, University of California San Diego Health Sciences, San Diego, CA, United States, 'Infectious Diseases, University of California San Diego Health Sciences, San Diego, CA, United States

671 The CORE HCV Cascade a Decade Later: Looking Ahead To an IFN-Free Era

Oluwatoyin M. Adeyemi, Stephon Effinger, Benjamin Go, Sonia Vibhakar, Maureen Gallagher, Deborah Wolen, Becky Goldberg, Mike Demetria, David Barker, Gregory Huhn Ruth M Rothstein CORE Center, Cook County Health and Hospitals System, Chicago, IL, United States

672 The Hepatitis C Cascade of Care Among HIV-Infected Patients Following Diagnosis of HCV Infection Edward R. Cachay', Lucas Hill?, David Wyles', Francesca Torriani', Bradford Colwell', Craig Ballard', William Christopher Mathews' 'Medicine, University of California San Diego, La Jolla, CA, United States', Pharmacy, University of California San Diego, La Jolla, CA,

Session P-N6 Poster Session Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit I

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall B Acute HCV Infection: Pathogenesis

United States

Hepatitis C Virus Incidence in the Amsterdam Cohort Study Among Men Who Have Sex With Men: 1984-2011 Joost W. Vanhommergi ², Ineke G. Stolte¹, Femke A. E. Lambers¹, Ronald B. Geskus¹, Thijs J. W. van de Laar⁴, Martien W. Borgdorff^{1,3}, Sylvia M. Bruisten¹, Janke Schinkel², Maria Prins^{1,5} "Department of Infectious Diseases, Public Health Service, Amsterdam, Netherlands, "Department of Medical Microbiology,

Academic Medical Center, Amsterdam, Netherlands, 3 Department of Clinical Epidemiology, Biostatistics and Bioinformatics, Academic Medical Center, Amsterdam, Netherlands, 4 Department of Bloodborne Infections, Sanquin Blood Supply Foundation, Amsterdam, Netherlands, 5 Department of Internal Medicine, Center of Infectious diseases and Immunology Amsterdam (CINIMA), Academic Medical Center, Amsterdam, Netherlands

674 Assessing HCV Acquisition Routes in HIV-Infected MSM Using Single Genome Sequencing-A Pilot Study

Daniel S. Fierer¹, Andrew H. Talal², Kristen M. Marks³, Wouter O. van Seggelen¹, Andrea D. Branch⁴, Shirish Huprikar¹, Shuyi Wang⁵, George M. Shaw⁵, Hui Li⁵

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675 Higher Risk of Sexually Acquired HCV Coinfection in MSM With Wide HIV Transmission Bottleneck

Roger D. Kouyos¹, Andri Rauch², Dominique Braun¹, Sabine Yerly³, Jürg Böni⁴, Thomas Klimkai⁴, Vincent Aubert⁴, Bruno Ledergerber¹, Hulrdrych Günthard¹, The Swiss HIV Cohort Study (SHCS) ¹University Hospital Zurich, University of Zurich, Zurich, Switzerland,³Inselspital Bern, Bern, Switzerland,³University of Geneva, Geneva, Switzerland,*University of Zurich, Zwitzerland,*University of Basel, Basel, Switzerland,*University of Lausanne, Lausanne, Switzerland

676 Seminal HCV RNA Level May Mirror Dynamics of Plasma HCV RNA in HIV-Positive Men With Acute HCV Daniel Bradshaw¹, Francois Lamoury¹, Beth Catlett², Tanya L. Applegate¹, John Mcallister², Gregory J. Dore¹, Gail Matthews¹, Mark

> "Kirby Institute, University of New South Wales, Sydney, Australia,"St Vincent's Hospital, Sydney, Australia,"Faculty of Medicine, University of New South Wales, Sydney, Australia

677 HCV Viral Load Kinetics During Acute Hepatitis C in HIV-Infected Patients: A Model-Based Analysis

Romain Ragonnet¹, Christoph Boesecke², Marguerite Guiguet³, Karine Lacombe⁴⁵, Jeremie Guedi¹, Jürgen K. Rockstroh², **Yazdan Yazdanpanah**¹⁶, Sylvie Deuffic-Burban^{1,7} "INSERM UT137, Paris, France, "Department of Internal Medicine I,

"INSERM U1137, Paris, France," Department of Internal Medicine I, Bonn University Hospital, Bonn, Germany, "INSERM U943, Paris France, "INSERM UMAS 707, Paris, France, "Service de Maladies Infectieuses et Tropicales, Hôpital Saint-Antoine, Paris, France," Service des Maladies Infectieuses et Tropicales, Hôpital Bichat Claude Bernard, Paris, France, "INSERM U995, Lille, France

Session P-N7 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall B HCV Infection and Cellular and Humoral Immune Responses

678 Impaired CD8+ T Cell IL-7 Activity in HCV Infection: Implications for HIV-HCV Co-Infection

Stephanie C. Burke^{1,2}, Lorna Carrasco-Medina², Curtis L. Cooper^{2,3}, Angela M. Crawley^{1,2}

¹Department of Biochemistry, Microbiology and Immunology, University of Ottawa, Ottawa, ON, Canada, ²Ottawa Hospital Research Institute, Ottawa, ON, Canada, ³Department of Epidemiology and Community Medicine, University of Ottawa, Ottawa, ON, Canada

679 HCV and GBV-C NS5A Proteins Inhibit TCR-Mediated Activation of Human CD4+ T Cells

Nirjal Bhattarai, Bennett E. Thompsaon, James H. McLinden, Jinhua Xiang, **Jack T. Stapleton**

University of Iowa and Iowa City VA, Iowa City, IA, United States

680 Impact of HCV Coinfection On T-Cell Dynamics in Long-Term HIV Suppressors Under cART

Olivia Zaegel¹, Sylvie Bregigeon¹, Carla E. Cano¹, Véronique Obry-Roguet¹, Corinne Nicolino-Brunet², Catherine Tamalet³, Françoise Dignat-George², **Isabelle Poizot-Martin**¹,5 Immuno-Hematological Clinical Unit, Aix Marseille University, APHM, Sainte Marquerite Hospital, Marseille, France, Service d'Hématologie et de Biologie Vasculaire, Aix Marseille University, APHM, Conception Hospital, Marseille, France, Fédération de Microbiologie Hospitalière, Aix Marseille University, APHM, Timone Hospital, Marseille, France, 'URMITE CNRS-IRDUMR 6236, Marseille, France, 'INSERM U912 (SESSTIM), Marseille, France

681 CD3+CD56+ Natural Killer-Like T Cells in HIV(+) Patients With Acute Hepatitis C

Pavlos Kokordelis¹², Benjamin Krämer¹², Christoph Boesecke¹², Esther Volgt³, Patrick Ingiliz², Andreas Glässner¹², Ulrich Spengler¹², Jürgen K. Rockstroh¹², Jacob Nattermann¹ ¹Internal Medicine I, University of Bonn, Bonn, Germany,²German Center for Infection Research (DZIF), Bonn, Germany,⁴Internal Medicine I, Praxis am Ebertplatz, Cologne, Germany,⁴Medical Center for Infectious Diseases (MID), Berlin, Germany

682 The Effect of Hepatitis C (HCV) Clearance On Macrophage Activation in HIV/HCV Coinfection Kara W. Chew', Lei Hua', Debika Bhattacharya', Adeel A. Butt³, Martha Lewis', Raymond T. Chund', Janet W. Andersen², Judith S.

¹David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States; ¹Hanvard School of Public Health, Boston, MA, United States; ¹University of Pittsburgh School of Medicine, Pittsburgh, PA, United States; ¹Harvard Medical School, Boston, MA, United States

683 HIV Patients Develop High Levels of Broadly
Neutralizing Antibodies Against Hepatitis C Virus
Quentin Lepiller¹, Catherine Fauvelle², Laura Heydmann², Christiane
Moog², David Rey³, Olivier Lambotte⁴, Nicolas Meyer²⁶, Heldid Barth²⁷,

Françoise Stoll-Keller¹², Samira Fafi-Kremer¹²

'Institut de Virologie, FMTS, Höpitaux Universitaires de Strasbourg, Strasbourg, France, ²MISEM, U1110, Université de Strasbourg, Strasbourg, France, ³HIV Care Center, Höpitaux Universitaires de Strasbourg, Strasbourg, France, ⁴Internal Medicine and Infectious Diseases, Höpital Bicetre, INSERM, 1012, Université Paris-Sud, Paris, France, ³Biostatistics, Höpitaux Universitaires de Strasbourg, Strasbourg, France, ⁵Iniversité de Strasbourg, Strasbourg, France, ⁷Institut de Virologie, FMTS, Höpitaux Universitaires de Strasbourg, Strasbourg, France

Activation and Senescence Markers in HCV-Infected Patients On PegIFN/RBV/Telaprevir Tritherapy Isabelle Pellegrin¹, Céline Cognet¹, Pascale Trimoulet², Juliette Foucher³, Julien Vergniol³, Wassil Merrouche³, Jean-Luc Taupin⁴, Linda Wittkop⁵, Jean-François Moreau⁴, Victor de Ledinghen³ ¹Immunology, Bordeaux Hospital, Bordeaux, France,²Virology, Bordeaux Hospital, Bordeaux, France,²Immunology, CNRS UMR 5164, Bordeaux Hospital, Bordeaux, France,²ImsERM 897, ISPED, Public Health Unit, Bordeaux Hospital, Bordeaux, France

Session P-N8 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall B HCV-Related Outcomes: Cardiac and Non-Liver

685 HCV Viremia and the Risk of Acute Myocardial Infarction at Various Lipid Levels

Adeel A. Butt^{1,2}, Kara W. Chew³, Kathleen Corey⁴, Raymond T. Chung⁴, Javed Butler⁵, Kenneth E. Sherman⁶, Matthew S. Freiberg¹, Sebhat Ergou⁷

*University of Pittsburgh School of Medicine and VA Pittsburgh Healthcare System, Pittsburgh, PA, United States, Sheikh Khalifa Medical City, Abu Dhabi, United Arab Emirates, *David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States, *Harvard Medical School and Massachusetts General Hospital, Boston, MA, United States, *Ernory University, Atlanta, GA, United States, *University of Cincinnati, Cincinnati, OH, United States, *Well Comell Medical Center, New York, NY, United States

686 Association of Coinfection With HBV, HCV, or Both On Survival Among HIV-Infected Adults

Tanyaporn Wansom¹, Catherine G. Sutcliffe², Shruti H. Mehta², Carleigh L. Benton¹, Richard C. Moore¹, David T. Thomas¹, Mark S.

¹Infectious Diseases, Johns Hopkins University SOM, Baltimore, MD, United States, 2 Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Incidence Rates and Risk Factors for Severe Bacterial Infections in HIV/HCV-Coinfected Patients

Kathleen C. Rollet1, John Gill2, Curtis Cooper3, Mark Hull4, Joseph Cox5, Bryan Conway6, Neora Pick7, Marie-Louise Vachon8, Marina

¹Division of Infectious Diseases and Chronic Viral Illness Service, McGill University Health Centre, Montreal, QC, Canada, 2Southern Alberta HIV Clinic, Calgary, AB, Canada,3The Ottawa Hospital -General Campus, Ottawa, ON, Canada, 4BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, Montréal General Hospital, Montreal, QC, Canada, Vancouver Infectious Diseases Research and Care Centre, Vancouver, BC, Canada, Oak Tree Clinic, Vancouver, BC, Canada, 8 Centre Hospitalier Universitaire de Québec, Quebec, QC, Canada

Association of HIV and HCV Coinfection With 688 Cardiovascular Disease Outcomes Among US Veterans Sebhat E. Erqou¹, Arpan Mohanty², Adeel A. Butt³

¹Hospital Medicine, Weill Cornell Medical College, New York, NY, United States,2Yale School of Medicine, New Haven, CT, United States, 3 Infectious Diseases, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States

Performance of the Framingham Risk Score in **Hepatitis C-infected Persons**

Kara W. Chew1, Debika Bhattacharya1, Kathleen McGinnis2, Judith S. Currier1, Adeel A. Butt3 ¹David Geffen School of Medicine at UCLA, Los Angeles, CA, United States, 2VA Pittsburgh Healthcare System, Pittsburgh, PA, United States, 3 University of Pittsburgh School of Medicine, Pittsburgh, PA, United States

690 **HCV Accelerates Non-Liver Mortality in HIV-Infected** Patients: A Nationwide Cohort Study

Vincent Mallet^{1,2}, Sophie Thiébaut³, **Yazdan Ýazdanpanah**^{4,5}, Stanislas Pol^{1,2}, Michael Schwarzinger^{3,5} ¹Hépatologie, Université Paris Descartes, Assistance Publique -Hôpitaux de Paris, Inserm, Paris, France, Lingha "Links for Global Health Assessment", Paris, France, 3THEN "Translational Health Economics Network", Paris, France, Service de Maladies Infectieuses et Tropicales, Assistance Publique - Hôpitaux de Paris, Paris, France, 5ATIP-AVENIR Inserm "Modélisation, Aide à la Décision, et Coût-Efficacité en Maladie Infectieuses," U738, Université Denis Diderot, Paris, France

Session P-N9 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B

HBV and **HDV**

The Role of HBV Quasispecies Diversity & Other Factors in Residual HBV Viremia On TDF-Based cART

Jennifer Audsley^{1,2}, Anchalee Avihingsanon³, Gail Matthews⁴, Margaret Littlejohn⁵, Stephen Bent⁶, Lilly Yuen⁵, Fabio Luciani⁷, Stephen Locarnini5, Sharon Lewin1,2, Joe Sasadeusz2 ¹Infectious Diseases, Monash University, Prahran, Australia, ²Infectious Diseases, Alfred Hospital, Prahran, Australia, 3Infectious Diseases, HIV-NAT Research Collaboration, Bangkok, Thailand,4Kirby Institute, Sydney, Australia, Victorian Infectious Diseases Reference Laboratory, North Melbourne, Australia, Molecular and Biomedical Science, Adelaide University, Adelaide, Australia, University of New South Wales, Sydney, Australia

Therapeutic Management and Evolution of Chronic Hepatitis B: Does HIV Coinfection Still Matter?

Lionel Piroth1, Stanislas Pol2, Patrick Miailhes3, Karine Lacombe4, Amanda Lopes⁵, Françoise Borsa-Lebas⁶, Dominique Salmon⁷, Eric Rosenthal8, Fabrice Carrat9, Patrice Cacoub10

¹Infectious Diseases Department, CHU, and UMR 1347, University of Burgundy, Dijon, France, Institut Cochin, CNRS (UMR 8104), INSERM U-1016, Paris, France, France, 3Hospices Civils de Lyon, Hôpital de la Croix-Rousse, Service des Maladies Infectieuses et Tropicales, and INSERM U1052, Lyon, France, Infectious Diseases Department. CHU, and UMR-S707, University Pierre and Marie Curie, Paris, France, 5Université Paris Diderot and AP-HP Service de Medecine Interne A, Hopital Lariboisière, Paris, France, Infectious Diseases, Hôpital Charles Nicolle, Rouen, France, Infectious Pathology Unit, Cochin Hospital, Paris Descartes University, Paris, France, Department of Internal Medicine, CHU and University of Nice Sophia Antipolis, Nice, France, UPMC Université Paris 06, UMR-S707, INSERM U-707, AP-HP, Public Health Department, Groupe Hospitalier Est Parisien, Paris, France,10 UPMC Université Paris 06, UMR 7211, INSERM, UMR S 959, Department of Internal Medicine, Groupe Hospitalier Pitié-Salpêtrière, Paris, France

693 Increased Hepatitis B Virus Coinfection Screening Following a Change in Zambian HIV Guidelines Kalo Musukuma¹, Arianna Zanolini^{1,2}, Lloyd Mulenga^{1,3}, Carolyn

Bolton-Moore^{1,4}, Samuel Zuercher⁵, Izukanji Sikazwe¹, Aggrey Mweemba3, Gilles Wandeler6, Benjamin H. Chi1,4, Michael J. Vinikoor^{1,2}

¹Centre for Infectious Disease Research in Zambia, Lusaka, Zambia,2Institute of Global Health and Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,3University Teaching Hospital, Lusaka, Zambia,4Obstetrics and Gynecology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, Institute for Infectious Diseases, University of Bern, Bern, Switzerland, Institute of Social and Preventive Medicine, University of Bern, Bern, Switzerland

HBsAg Genetic Elements Critical for Immune Escape Drive HBV Reactivation Upon Immunosuppression

Romina Salpini¹, Claudia Alteri¹, Maria-Concetta Bellocchi¹, Emanuela Balestra1, Claudio Mastroianni2, Aldo Marrone3, Massimo Andreoni1, Mario Angelico1, Carlo-Federico Perno1, Valentina Svicher1 ¹University of Rome Tor Vergata, Rome, Italy, ²Sapienza University of Rome, Rome, Italy,3 Second University of Naples, Naples, Italy

695 Isolated Hepatitis B Core Antibody Is Associated With Advanced Hepatic Fibrosis

Debika Bhattacharya1, Chi-hong Tseng1, Jan Tate2,3, Vincent Lo Re^{4,5}, Cynthia Gibert^{6,7}, Joseph K. Lim^{2,3}, Maria Rodriguez-Barradas^{8,9}, David Rimland^{10,11}, Amy C. Justice^{2,3}, Matthew B. Goetz^{12,13} ¹David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States, 2VA Connecticut Healthcare System, West Haven, CT, United States, 3Yale University School of Medicine, New Haven, CT, United States, 4Philadelphia VA Medical Center, Philadelphia, PA, United States, 5 Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States, Washington DC VA Medical Center, Washington, DC, United States, George Washington University Medical Center, Washington, DC. United States. Michael E. DeBakev VA Medical Center, Houston. TX, United States, Baylor College of Medicine, Houston, TX, United States, 10 Atlanta VA Medical Center, Atlanta, GA, United States, 11 Emory University School of Medicine, Atlanta, GA, United States, 12 VA Greater Los Angeles Healthcare System, Los Angeles, CA, United States,13 David Geffen School of Medicine at UCLA, Los Angeles, CA,

696 Isolated Hepatitis B Core Antibody and Hepatic Fibrosis in HIV/HCV-Coinfected Women

Audrey L. French^{1,2}, Anna Hotton³, Mary Young⁴, Marek Nowicki⁵, Michael Augenbraun⁶, Kathryn Anastos⁷, Marion Peters⁸ ¹Division of Infectious Diseases, Ruth M Rothstein CORE Center, Chicago, IL, United States, 2 Stroger Hospital of Cook County, Chicago, IL, United States, 3Ruth M Rothstein CORE Center, Chicago, IL, United States, Georgetown University Medical Center, Washington, DC, United States, 5University of Southern California Keck School of Medicine, Los Angeles, CA, United States, Division of Infectious Diseases, State University of New York Downstate Medical Center, Brooklyn, NY, United States, Montefiore Medical Center, Bronx, NY, United States, University of California San Francisco, San Francisco, CA, United States

697 Effectiveness of Taiwan Nationwide HBV Vaccination in Persons at Risk for HIV Infection

Hsin-Yun Sun¹, Chia-Jui Yang², Nan-Yao Lee³, Shiou-Haur Liang⁴, Chien-Ching Hung¹

¹National Taiwan Ŭniversity Hospital, Taipei, Taiwan,²Far Eastern Memorial Hospital, New Taipei City, Taiwan,³National Cheng Kung University Hospital, Tainan, Taiwan,⁴E-Da Hospital, Kaohsiung, Taiwan

698 Hepatitis B Virus Mother-To-Child-Transmission Among HIV-Infected Pregnant Women in Kenya

Timothy D. Minniear^{1,2}, Alex Morwabe³, Sonali Ĝirde^{1,4}, Fredrick Harrison³, Frank Angira³, Boaz Oyaro⁵, Lisa A. Mills^{1,3}, Clement Zeh^{1,3}, **Philip J. Peters**¹

¹CDC, Atlanta, GA, United States, St. Jude Children's Research Hospital, Memphis, TN, United States, *KEMRI/CDC Research and Public Health Collaboration, Kisumy, Kenya, *I/CF International, Atlanta, GA, United States, *KEMRI/CDC Research and Public Health Collaboration, Kisumu, Kenya

699 Vaccine Escape Mutants and Suboptimal Hepatitis B Virus Response in HIV HBV Coinfected Patients

Anders Boyd¹, Raoul Moh², Paul Dény³, Mariama Issoufou³, Christine Danel², Xavier Anglaret², Serge Eholié², Pierre-Marie Girard⁴, Fabien Zoulim³, Karine Lacombe⁴

Inserm UMR-S707, Paris, France, Programme PACCI, Abidjan, Côte D'Ivoire, Centre de Recherche sur le Cancer de Lyon, Equipes 15 et 16, INSERM, Unité 1052, CNRS, UMR 5286, Lyon, France, Department of Infectious and Tropical Diseases, Saint-Antoine Hospital, Paris, France

700 Long-Term Benefit of Tenofovir On Hepatitis Delta Rocio Sierra-Enguita, Zulema Plaza, Eugenia Vispo, Pablo Barreiro, Pablo Labarga, José Vicente Fernández-Montero, Carmen De Mendoza. Vicente Soriano

Infectious Diseases, Hospital Carlos III, Madrid, Spain

Session P-N10 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B

633 Chronic Hepatitis E Virus Infection Is Uncommon in HIV-Infected Patients

Antonio Rivero-Juárez", Loreto Martinez-Dueñas¹, Antonio Martinez-Peinado², Angela Camacho¹, Celia Cifuentes³, Ana Gordon¹, Mario Frias¹, Julian Torre-Cisneros¹, Juan A. Pineda³, Antonio Rivero¹¹Infectious Diseases, Instituo Maimonides de Investigación Biomédica de Córdoba (IMIBIC), Córdoba, Spain,²Clinical Analysis, Instituto Maimonides de Investigación Biomédica de Córdoba (IMIBIC), Córdoba, Spain,³Infectious Diseases, Hospital Universitario de Valme, Córdoba, Spain

634 High Frequency of HEV Seropositivity in HIV-Infected Patients in Southern Spain

J. A. Pineda, M. Parra, C. Cifuentes, K. Neukam, J. C. Palomares, E. Pérez-Navarro, L. M. Real, N. Merchante, F. Lozano, J. Macías Unit of Infectious Diseases and Microbiology, Hospital Universitario de Valme. Seville. Spain

Session P-01 Poster Session

Tuesday March 4, 2014, 2:30 PM—4:00 PM Exhibit Hall B Lymphoma/Liver/Gammopathy

701 Monoclonal Gammopathy and HIV-1 Infection: Evolution With Highly Active Antiretroviral Therapy Marie-Laure Casanova', Alain Makinson²

'Infectious Diseases, CHU Gui de Chauliac, Montpellier, France, 'Infectious Diseases, University Hospital Montpellier, Montpellier, France

702 Predicting Survival of HIV-Infected Patients With Liver Cancer: The SHILCA Score and Staging Model

Nicolas Merchante¹, Ting-Yi Chen², Eugenia Vispo³, Mamta Jain², Emma Page⁴, Pablo Barreiro³, Mark Nelson⁴, Judith Aberg⁵, Juan A. Pineda¹, Jorge Marrero². Norbert Bräu^{6,7}

¹Hospital Universitario de Valme, Sevilla, Spain, ²University of Texas Southwestern Medical Center, Dallas, TX, United States, ³Hospital Carlos III, Madrid, Spain, ⁴Chelsea and Westminster Hospital & Imperial College, London, United Kingdom, ⁵Bellevue Hospital Center & New York University School of Medicine, New York, NY, United

States, Infectious Disease Section, James J. Peters VA Medical Center, Bronx, NY, United States, Divisions of Infectious Diseases & Liver Diseases, Icahn School of Medicine at Mount Sinai, New York, NY, United States

703 Different Immunologic and Virologic Contexts for HIV-Associated Lymphoma in the CNICS Cohort

Satish Gopal¹, Monita Patel¹, Chad Achenbach², Elizabeth Yanik¹, Stephen Cole¹, Sonia Napravnik¹, Kristy Richards¹, Joseph Eron¹, for the CNICS Investigators

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Northwestern University, Chicago, IL, United States

Session P-02 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Cancer: Natural History and Epidemiology

704 Risk of Cancer Among HIV Patients Compared To the Background Population: Impact of Smoking and HIV Marie Helleberg¹, Jan Gerstoft¹, Shoalb Afzal², Gitte Kronborg³, Carsten S. Larsen⁴, Stig E. Bojesen², Court Pedersen⁵, Börge G. Nordestaaard², Niels Obel¹

Department of Infectious Diseases, Copenhagen University Hospital, Rigshospitalet, Copenhagen O, Denmark, Department of Clinical Biochemistry, Copenhagen University Hospital, Herlev, Herlev, Denmark, Department of Infectious Diseases, Copenhagen University Hospital, Hvidowre, Hvidowre, Denmark, Department of Infectious Diseases, Aarhus University Hospital, Skejby, Aarhus, Denmark, Department of Infectious Diseases, Odense University Hospital, Odense, Denmark

705 Cancer Stage at Diagnosis in HIV-Infected Individuals and Transplant Recipients

Meredith S. Shiels¹, Glenn Copeland², Marc Goodman³, Charles F. Lynch⁴, Karen Pawlish⁵, Ruth M. Pfeiffer¹, Jon J. Snyder⁶, Eric A. Engels¹

National Cancer Institute, Bethesda, MD, United States, Michigan Department of Community Health, Lansing, MI, United States, Cedars Sinai Hospital, West Hollywood, CA, United States, "University of lowa, lowa City, IA, United States, "New Jersey Department of Health, Trenton, NJ, United States," Scientific Registry of Transplant Recipients, Minneanolis, MI, United States

706 Cancer Incidence in a Nationwide HIV/AIDS Patient Cohort in Taiwan in 1998-2009

Yi-Ming A. Chen¹, Marcelo Chen², Ian Jen³, Matthew G. Law⁴, Kishor Bhatia⁵, Gerald B. Sharp⁶

**Center for Infectious Disease and Cancer Research (CICAR), KMU, Talwan, Kaohisung tim Medical University, Talwan, Kaohisung city, Talwan, Taipartment of Unlogy, Mackay Memorial Hospital, Taipei, Taiwan, Taipei City, Taiwan, **Department and Institute of Public Health, National Yang-Ming University, Taipei, Taiwan, Taipei City, Taiwan, **Tity Institute, University of New South Wales, Sydney, Australia, Sydney, Australia, **AIDS Malignancy Program, National Cancer Institute, National Institute, adaional Institutes of Halergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, **Division of AIDS, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

707 Excess Burden of Cancer Among HIV-Infected Persons in the United States

Hilary A. Robbins¹, Meredith S. Shiels¹, Ruth M. Pfeiffer¹, Jianmin Li², H. Irene Hall², Eric A. Engels¹

'Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda, MD, United States, 'National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States

Session P-04 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B Kaposi Sarcoma, PEL, and KSHV

708 The Effect of Protease Inhibitor Use On Kaposi Sarcoma Incidence in a cART-Experienced Cohort Elizabeth Chiao, Marc Kowalkowski

Baylor College of Medicine, Houston, TX, United States

709 Guidelines On Kaposi's Sarcoma Treatment: Results From Two Cochrane Systematic Reviews

Esther E. Freeman¹, Charles Okwundu², Oluwatoyin Gbabe³, Miriam Laker⁴, Philippa Easterbrook³, Toby Maurer³, Jaffrey Martin¹ Department of Dermatology, Harvard Medical School, Massaschusetts General Hospital, Boston, MA, United States,² Centre for Evidence-Based Health Care, Faculty of Medicine and Health Sciences, Stellenbosch University, Tygerberg, South Africa,³ Centre for Evidence-Based Health Care, Faculty of Health Sciences, Stellenbosch University, Tygerberg, South Africa, ¹ Department of Epidemiology and Biostatistics, University of California at San Francisco, CA, United States,⁵ ¹NI/ Department, World Health Organization, Geneva, Switzerland,⁵ Department of Dermatology, University of California at San Francisco, CA, United States

710 Randomized Trial of Protease Inhibitor-Based Antiretroviral Therapy for Kaposi Sarcoma in Africa Jeffrey Martin¹, Miriam Laker-Oketta¹², Victoria Walusansa³, Jackson Orem³, John Bennett¹, Adrienne Mocello¹, Toby Maurer¹, Peter Hunt¹, Andrew Kambugu³, Edward Mbildde⁵⁴ 'University of California San Francisco, San Francisco, CA, United States²Infectious Diseases Institute, Kampala, Uganda,¹Uganda Cancer Institute, Kampala, Uganda,¹Uganda Virus Research Institute, Entebbe, Uganda

711 Kaposi Sarcoma in the Era of Combination Antiretroviral Therapy

Natascha Wyss, **Matthias Egger**, Julia Bohlius, Malignancy Working Group for COHERE in EuroCoord Institute of Social and Preventive Medicine, University of Bern, Bern,

712 Vitamin D Insufficiency in AIDS-Associated Kaposi Sarcoma in Zimbabwe

Kristine M. Erlandson¹, Ivy Gudza², Suzanne Fiorillo¹, Buxton Ndemera², Robert T. Schooley³, Lovemore Gwanzura⁴, Margaret Borok², Thomas B. Campbell¹

'University of Colorado Ánschutz Medical Campus, Aurora, CO, United States,' Department of Medicine, University of Zimbabwe College of Health Sciences, Harare, Zimbabwe, 'Infectious Diseases, University of California San Diego, San Diego, CA, United States,' Department of Medical Laboratory Sciences, University of Zimbabwe College of Health Sciences, Harare, Zimbabwe

713 Primary Effusion Lymphoma and HIV Infection: 51 Patients From a Single Institution

Stephanie Guillet¹, Laurence Gerard¹², Veronique Meignin³, Felix Agbalika⁴, Wendy Cuccuini³, Lionel Galicler¹², Eric Oksenhendler¹² (Clinical Immonlogy, Saint-Louis Hospital, Paris, France, ²EA3963, Université Paris Diderot, Sorbonne Paris Cité, Paris, France,³Pathology, Saint-Louis Hospital, Paris, France, ⁴Wrology, Saint-Louis Hospital, Paris, France, ⁵Hematology Laboratory, Saint-Louis Hospital, Paris, France

714 Indoleamine 2,3-Dioxygenase (IDO) Activity as a Determinant of Kaposi Sarcoma in Africa

Helen Byakwaga¹², Peter W. Hunt¹, Miriam Laker-Oketta¹³, David V. Gildden¹, Yong Huang¹, Mwebesa Mwebesa², Victoria Walusansa⁴, David R. Bangsberg⁵, Edward Mbidde³, Jeffrey N. Martin¹ ¹University of California San Francisco, San Francisco, CA, United States, Mbarara University of Science and Technology, Mbarara, Uganda ³Infectious Diseases Institute, Kampala, Uganda, ⁴Uganda Cancer Institute, Kampala, Uganda, ⁴Harvard Medical School, Massachusetts General Hospital, Center for Global Health, Boston, MA. United States

Session P-05 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B Cervical Cancer, HPV, and HPV Vaccine

715 Epidemiology and Dynamics of HPV Infection in Romanian Women Infected With HIV in Early Childhood Sanjay R. Mehta', Lumi Ene?, Cristina Voinea?, Claudia Stefanescu², Diana Sima*, Dan Duiculescu²

¹Medicine, University of California San Diego, La Jolla, CA, United States, ² "Dr. Victor Babes" Hospital for Infectious and Tropical

Diseases, Bucharest, Romania, ³Titu Maiorescu University, Bucharest, Romania

716 Baseline Data of a Phase 3 Trial of the Quadrivalent HPV Vaccine in HIV+ Males and Females: ACTG 5298 Ross Cranston¹, Ming Yang², Pawel Paczuski², Michelle Cespedes³, Elizabeth Chiao⁴, Jenifer Webster-Cyriaque⁵, Catherine Godfrey⁶, Timothy Wilkin²

'University of Pittsburgh, Pittsburgh, PA, United States, 'Harvard University, Cambridge, MA, United States, 'New York University School of Medicine, New York, NY, United States, 'Houston VA Medical Center, Houston, TX, United States SUniversity of North Carolina at Chapel Hill, Chapel Hill, NC, United States, 'BAIDS, NIAID, NIH, Bethesda, MD, United States,' Weill Cornell Medical College, New York, NY, United

717 Cervical Abnormalities in HIV-Infected South African Women With High Screening and Referral Rates Ingrid T. Katz^{1,2}, Alexi A. Wright^{2,3}, Tamaryn L. Crankshaw^{1,5}, Janet

Giddy⁴⁶, Sean Mould⁴⁷, Lisa M. Butler²⁸
'Medicine, Bigham and Women's Hospital, Boston, MA, United States, 'Harvard Medical School, Boston, MA, United States, 'Dana Farber Cancer Center, Boston, MA, United States, 'McCord Hospital, Durban, South Africa, 'Health Economics and HIV/AIDS Research Division, Durban, South Africa, 'Horisen's of Cape Town, Cape Town, South Africa, 'Gynaecology and Obstetrics, R.K. Kahn Hospital, Chatsworth, South Africa, 'Boston Children's Hospital, Boston, MA, United States

Session P-06 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall B Anal Cancer and HPV

718 Prevalence of Anal Dysplasia in HIV-Infected Women From Johannesburg, South Africa

Bridgette Goeieman^{1,2}, Cynthia Firnhaber^{1,2}, Pamela Michelow^{1,3}, Avril Swarts¹, Jennifer S. Smith⁴, Timothy Wilkin⁵
'University of Witwatersrand, Johannesburg, South Africa, *Right to Care, Johannesburg, South Africa, *National Health Laboratory Services, Johannesburg, South Africa, *University of North Carolina, Chapel Hill, NC, United States, *Weill Cornell Medical College, New York, NY, Linited States, *Sweill Cornell Medical College, New York, NY, Linited States.

719 Mucosal and Systemic Immune Responses in HIV/HPV Co/Infected Males

LAURA COMI¹, **Camilla Tincati**¹, Giusi Maria Bellistrì¹, Alessandro Pandolfo¹, Javier Sanchez Martinez¹, Veronica Rainone², Marco Rovati³, Daria Trabattoni², Antonella d'Arminio Monforte¹, Giulia Marchetti¹

'Department of Health Sciences, Clinic of Infectious Diseases, San Paolo Hospital, Milan, Italy, 'Departments of Biomedical and Clinical Sciences "L. Sacco" and of Physiopathology and Transplantation, University of Milan, Milan, Italy,' Department of Health Sciences, Surgery Chair, "San Paolo Hospital," University of Milan, Milan, Italy

720 Natural History of HIV-Related Anal Dysplasia: A Multi-State Modeling Analysis

Wollelaw W. Agmas¹, Edward R. Cachay¹, Christopher Jackson², Wm. Christopher Mathews¹

¹Internal Medicine, University of California San Diego, La Jolla, CA, United States, ²Public Health, Medical Research Council Biostatistics Unit. Cambridge, United Kingdom

721 Antiretroviral Therapy as Protector Factor of Anal Dysplasia in HIV-Infected MSM

Carmen Hidalgo Tenorio¹, Concepcion Gil Anguita¹, Jessica Ramirez Taboada¹, Juan Gabriel Martínez Cara², Javier Esquivias³, Pablo Palma⁴, Mar Rivero¹, Rosario Javier Martinez¹, Miguel Angel Lopez Ruz¹, Juan Pasquau Liaño¹

Infectious Diseases Unit, University Hospital Virgen de las Nieves, Granada, Spain, ²Gastroenterology Service, University Hospital Virgen de las Nieves, Granada, Spain, ³Pathology Service, University Hospital Virgen de las Nieves, Granada, Spain, ⁴General Surgery Service, University Hospital Virgen de las Nieves, Granada, Spain

722 HPV16-Specific T-Cell Responses and Spontaneous Regression of Anal Intraepithelial Neoplasia

Winnie W. Y. Tong¹, Kelsee Shepherd¹, Fengyi Jin², John Zaunders¹², Richard J. Hillman¹, Andrew E. Grulich², Anthony Kelleher¹², Andrew Carr¹

¹Centre for Applied Medical Research, St Vincent's Hospital, Darlinghurst, NSW, Australia, ²The Kirby Institute, Sydney, NSW, Australia

Session P-P1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Heart Failure, Cardiac Steatosis, and HIV

723 Elevated NT-proBNP Levels Predict Mortality in HIV-Infected Women

Matthew R. Gingo¹, Kidane Ghebrehawariat¹, Jong-Hyeon Jeong¹, Yanxia Chu¹, Quanewi Yang¹, Lorrie Lucht¹, David Hanna², Jason Lazaar³, Mark Gladvin¹, Yinga Zhang⁴, Alison Morris¹ 'University of Pittsburgh, Pittsburgh, PA, United States,² Albert Einstein College of Medicine and Montefiore Medical Center, Bronx, NY, United States,³ SUNY Downstate Medical Center, Brooklyn, NY, United States,⁴ University of Pittsburgh, Pittsburgh, PA, United States

724 Cardiac Steatosis Increased in HIV: Related To Gender, Visceral Fat and ARV Exposure

Julia B. Purdy¹, Chia-Ying Liu², Sabrina Mangat³, Horacio Duarte⁴, Diana Thiara⁵, Nancyanne Schmidt¢, Jamie Hur², Christopher T. Sibley², David A. Bluemke², Colleen Hadigan³

Critical Care Medicine, National Institutes of Health, Bethesda, MD, United States, Diagnostic Radiology Department, National Institutes of Health, Bethesda, MD, United States, National Institutes of Health, Bethesda, MD, United States, National Institutes of Health, Bethesda, MD, United States, "University of Washington School of Medicine, Seattle, WA, United States, "Vanderbit University School of Medicine, Nashville, TN, United States, "Stony Brook University School of Medicine, Stony Brook, NY, United States," Diexel University College of Medicine, Philadelohia, PA, United States

725 ST2 and GDF-15 Are Associated With Structural Heart Disease and Mortality in HIV

Eric Secemsky¹, Rebecca Scherzer², Elaine Nitta², Alan Wu², David Lange², Steven Deeks², Jeffrey Martin², James Snider², Peter Ganz², Priscilla Hsue²

¹UCSF, San Francisco, CA, United States, ²University of California San Francisco, San Francisco, CA, United States

726 Depression and HIV Are Risk Factors for Incident Heart Failure Among Veterans

Jessica R. White¹, Chung-Chou H. Chang^{1,2}, Adeel A. Butt^{2,3}, Hilary A. Tindle², Maria C. Rodriguez Barradas^{4,5}, David Rimland^{6,7}, David Leaf^{8,9}, Matthew Budoff^{10,11}, Amy C. Justice^{12,13}, Matthew S. Freiberg^{2,3}
¹University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, 3 Veteran Affairs Pittsburgh Healthcare System, Pittsburgh, PA, United States, Baylor College of Medicine, Houston, TX, United States, Michael E. DeBakey Veteran Affairs Medical Center, Houston, TX, United States, Emory University School of Medicine, Atlanta, GA, United States, Atlanta Veteran Affairs Medical Center, Atlanta, GA, United States, David Geffen School of Medicine, Los Angeles, CA, United States,9 Veteran Affairs Greater Los Angeles Health Care System, Los Angeles, CA, United States,10 Harbor-UCLA Medical Center, Los Angeles, CA, United States, 11 Los Angeles Biomedical Research Institute, Los Angeles, CA, United States. 12 Veteran Affairs Connecticut Health Care System, West Haven, CT, United States, 13 Yale University School of Medicine, New Haven, CT, United States

Session P-P2 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall B Immune Activation, Immunodeficiency, and CVD

727 Impact of Low CD4 Count and HIV Persistence On Endothelial Function in Patients With Low Plasma RNA Amanda Schnell Heringer', Hiroyu Hatano', Peter W. Hunt?, Yuaner Wu¹, Yifei Ma³, Rebecca Scherzer¹-Ś, Jeffrey N. Martin²-Ś, Peter Ganz¹, Steven G. Deeks². Priscilla Y. Hsue¹ 'Division of Cardiology, San Francisco General Hospital, University of California San Francisco, San Francisco, CA, United States, Positive Health Program, University of California San Francisco, San Francisco, CA, United States, Division of Adolescent Medicine, University of California San Francisco, San Francisco, CA, United States, Veterans Administration Medical Center, University of California San Francisco, San Francisco, CA, United States, Department of Epidemiology and Biostatistics, University of California San Francisco, CA, United States, CA, United States

728 Carotid Distensibility and Immune Activation in HIV-Infected Patients Without Coronary Calcium

Chris T. Longenecker^{1,2}, Ying Jiang¹, Sara Debanne¹, Grace A. McComsey^{1,2}

¹Case Western Reserve University, Cleveland, OH, United States, ²University Hospitals Case Medical Center, Cleveland, OH, United States

729 Microvascular Disease in Controllers Is Mediated by HIV DNA and Immune Dysfunction

Hiroyu Hatano¹, Yifei Ma², Rebecca Scherzer^{1,3}, Yuaner Wu¹, Elaine Nitta¹, Kara Harvill¹, Elizabeth Sinclair¹, Michael P. Busch^{4,5}, Steven G. Deeks¹, Priscilla Y. Hsue¹

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730 Monocyte But Not Cellular Activation Is Associated With Coronary Atherosclerosis in the MACS

Eric S. Daar¹, Wendy S. Post², Annie T. Darilay², Peter W. Hunt³, Todd T. Brown², Rebeccah McKibben², Beth Jamieson⁴, Mathew J. Budoff¹, Mallory D. Witt¹

Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance, CA, United States, Johns Hookins University, Baltimore, MD, United States, *University of California, San Francisco, San Francisco, CA, United States, *David Geffen School of Medicine at UCLA, Los Angeles, CA, United States

Session P-P3 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B Alcohol, Smoking, and Atherosclerosis

731 The J-Curve in HIV: Better Cardiovascular-Disease-Free Survival With Moderate Alcohol Intake

Gilles Wandeler¹², David Kraus¹, Jan Fehr³, Anna Conen⁴, Alexandra Calmy⁵, Christina Orasch⁵, Manuel Batteqay⁷, Patrick Schmid⁴, Enos Bernascon⁶, **Hansjakob Furre**⁷, Swiss HIV Cohort Study ¹University of Bern, Bern, Switzerland, ²Bern University Hospital, Bern, Switzerland, ²University Hospital Zurich, Zurich, Switzerland, ²Calnonal Hospital St. Gallen, St. Gallen, Switzerland, ²University Hospital Geneva, Geneva, Switzerland, ⁴University Hospital Lausanne, Lausanne, Switzerland, ⁴University Hospital Basel, Basel, Switzerland, ⁴Regional Hospital Laugno, Lugano, Switzerland, ⁴Regional

732 Soluble CD14 and D-Dimer Are Associated With Smoking and Heavy Alcohol Use in HIV-Infected Adults Patricia A. Cioe¹, Jason Baker², John Hammer³, Erna M. Kojic⁴, Nur Onen⁴, Pragna Patel⁵, Christopher W. Kalhier¹ ¹ Center for Alcohol & Addiction Studies, Brown University, Providence, RI, United States, ³ University of Minnesoth Medical School Minneapolis MM. United States ³ Plenuer Infertious Disease.

School, Minneapolis, MM, United States, *Denver Infectious Disease Consultants, Denver, CO, United States, *Department of Infectious Diseases, Brown University, Providence, RI, United States, *School of Medicine, Washington University, St. Louis, MO, United States, *Genters for Disease Control and Prevention, Atlanta, GA, United States, *Genters for Disease Control and Prevention, Atlanta, GA, United States, *Behavioral & Social Sciences, Brown University, Providence, RI, United States

(33 Antiviral Therapy and Smoking Associated With Coronary Vessel Thickening in HIV-Infected Youth Aylin Unsal¹, Khaled Z. Abd-Elmoniem², Sarah Eshera², Julia B. Purdy³, Rohan Hazra¹, Colleen Hadigan¹, Ahmed M. Gharib² National Institute of Allergy and Infectious Disease, National Institutes of Health, Bethesda, MD, United States, "National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD, United States, "Critical Care Medicine, National Institutes of Health, Bethesda, MD, United States, "National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, United States

Session P-P4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall B

Risk Factors and Incidence: MI and Stroke

734 HIV Infection and the Risk of Cardiovascular Disease in Women

Julie A. Womack¹, Chung-Chou H. Chang^{2,3}, Kaku A. Armah³, Kathleen McGinnis⁴, Matthew B. Goetz^{5,6}, Cynthia L. Gibert^{1,8}, Sheldon T. Brown^{8,10}, Alberta L. Warner⁵, Amy C. Justice^{4,11}, Matthew S. Freiberg^{12,13}, for the VACS Project Team

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Angeles Health Care System, Los Angeles, CA, United States, *Pavid
Geffen School of Medicine at University of California Los Angeles,
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United States, *George Washington University School of Medicine, New York,
NY, United States, *Valuersity School of Medicine, New York,
NY, United States, *Valuersity School of Medicine, Pittsburgh,
PA, United States, *University of Pittsburgh Graduate School of Public
Health, Pittsburgh, PA, United States

735 Depression Predicts Incident Myocardial Infarction in HIV+ Veterans: Veterans Aging Cohort Study

Tasneem Khambaty¹, Jesse C. Stewart¹, Samir K. Gupta², Chung-Chou H. Chang.³, Adeel A. Butt³, Cynthia L. Gilbert⁴, Hilary A. Tindle³, Heidi Crane⁵, Roger Bedimo⁶, Matthew S. Freiberg³, on behalf of the VACS project team

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736 HIV Infection, Cardiovascular Risk Factor Profile, and Risk for Acute Myocardial Infarction

Anne-Lise Paisible¹, Joyce Chang², Kaku Armah³, Matthew B. Goetz⁴, Adeel A. Butt⁴5, Maria C. Rodriguez-Barradas^{7,8}, David Rimland^{8,0}, Sheldon T. Brown^{11,12}, Amy C. Justice^{13,14}, Matthew S. Freiberg¹, the VACS Project Team

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737 No Difference in Incidence of Myocardial Infarction for HIV+ and HIV- Individuals in Recent Years

Daniel B. Klein¹, Wendy A. Leyden², Chun R. Chao³, Michael A. Horberg⁴, William J. Towner⁵, Leo B. Hurley², Charles P. Quesenberry², Michael J. Silverberg²

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738 MACE Incidence Among HIV- and Non-HIV-Infected Patients in a Clinical Care Cohort

Virginia A. Triant, Susan Regan, Steven Grinspoon Massachusetts General Hospital, Boston, MA, United States

739 Lower CD4 Count and Higher Viral Load Are Associated With Increased Risk of Myocardial Infarction

Daniel R. Drozd¹, Robin M. Nance¹, Joseph A. C. Delaney¹, Greer A. Burkholder², William C. Mathews³, Richard D. Moore⁴, Joseph J. Eron⁵, Peter W. Hunt⁶, Mari M. Kitahata¹, Heidi M. Crane¹, Centers for AIDS Research Network of Integrated Clinical Systems (CNICS) Cohort

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740 Long-Term Effects of Nitrite Inhalants On Cardiovascular and Renal Outcomes in the MACS Cohort

Alex Holman, Anupriya Dutta, **Dana Gabuzda** Dana-Farber Cancer Institute, Boston, MA, United States

741 HIV Infection and Immunodeficiency as Risk Factors for Ischemic Stroke

Julia L. Marcus¹, Wendy A. Leyden¹, Chun R. Chao², Felicia C. Chow³, Michael A. Horberg⁴, Leo B. Hurley¹, Daniel B. Kieln⁵, Charles P. Quesenberry¹, William J. Towner⁵, Michael J. Silwerberg¹ 'Kaiser Permanente Northem California, Oakland, CA, United States, 'Kaiser Permanente Southem California, Pasadena, CA, United States, 'Viniversity of California San Francisco, San Francisco, CA, United States, 'Kaiser Permanente Mid-Atlantic States, Rockville, MD, United States, 'Kaiser Permanente Northern California, Hayward, CA, United States, 'Kaiser Permanente Southern California, Los Angeles, CA, United States

Session P-P5 Poster Session

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall B Antiretroviral Therapy, Lipids, and CVD

742 Antiretroviral Therapy Is Associated With Significant Changes in Plasma Lipidome

Janine M. Trevillyan^{1,2}, Gerard Wong³, Rebekah Puls⁴, Kathy Petoumenos⁴, Sean Emery⁴, Natalie Mellett³, Peter J. Meikle³, Jennifer F. Hoy^{1,2}

*Infectious Diseases, Alfred Health, Melbourne, Australia, *Department of Infectious Diseases, Monash University, Melbourne, Australia, *Metabolomics, Baker IDI Heart and Diabetes Institute, Melbourne, Australia, *The Kirby Institute, Sydney, Australia

743 Rosuvastatin Lowers Cystatin C in HIV-Infected Subjects On Antioretroviral Therapy: SATURN-HIV Chris T. Longenecker^{1,2}, Corrilynn O. Hileman^{1,3}, Norma J. Storer^{1,2},

Dani E. Labatto¹², Grace A. McComsey¹²
'Case Western Resenve University, Cleveland, OH, United
States,²University Hospitals Case Medical Center, Cleveland, OH, United
States,³MetroHealth Medical Center, Cleveland, OH, United States

744 Abacavir Induces Leukocyte Accumulation Through the Interaction of ATP and P2X, Receptors

Carmen de Pablo^{1,2}, Samuel Orden¹, César Ruiz-Navarro¹, Maria Angeles Martinez-Cuesta¹, Juan V. Espluques^{1,3}, **Angeles Alvarez**^{1,4} ¹Pharmacology, University of Valencia and CIBERehd, Valencia, Spain, ²Fundación Juan Esplugues, Valencia, Spain, ³FISABIO-Fundación Hospital Universitario Dr. Peset, Valencia, Spain, ⁴Fundación General Universidad de Valencia, Valencia, Spain

745 LDL Particles and Lipoprotein-Phospholipase A2 in Naive HIV+ Patients Randomized To DRV/r vs ATV/r Maria Saumoy; Jordi Ordoñez-Llanos*, Esteban Martinez*, Elena Ferrer¹, Gracia Mateo*, Esteban Ribera*, Eugenia Negredo*, Iñaki Perez*, Daniel Podzamczer¹ 'Hospital Universitari de Bellvitge, Hospitalet de Llobregat, Spain, *Blochemistry Department, Biomedical Research Institute IIIB Sant Pau, Barcelona, Spain, *Hospital Clinic, Barcelona, Spain, *Hospital de Sant Pau, Barcelona, Spain, *Hospital Universitari Vall d'Hebron, Barcelona, Spain, *Fundació Llulta contra la Sida, Hospital Germans Trias i Piulo, Badalona, Spain

746 Darunavir or Atazanavir vs Raltegravir Lipid Changes Are Unlinked To Ritonavir Exposure: ACTG 5257 Ighovwerha Oftokun¹, Heather Ribaudo², Lumine Na², Grace McComsey³, Susan E. Cohn⁴, Catherine Godfrey⁵, Manish Sagar², Frances Aweeka⁸, Jeffrey Lennox¹, Judith Currier³ Department of Medicine, Emory University School of Medicine, Atlanta, GA, United States, ⁴Harvard University, Boston, MA, United States, ³Case Westem University, Cleveland, OH, United States, ⁴Northwestern University, Chicago, IL, United States, ⁵National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ⁵University of California San Francisco, San Francisco, CA, United States, ⁷University of California Los Angeles, Los Angeles, CA, United States

747LB Is There Continued Evidence for an Association Between Abacavir and Myocardial Infarction Risk? Caroline Sabin¹, Peter Reiss², Lene Ryom³, Stephane de Wit⁴, Ole Kirk³, Rainer Weber³, Christian Pradier³, Matthew Law³, Andrew Phillips¹, Jens Lundgren³, DAD Study Group ¹UCL, London, United Kingdom ³Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands.³Copenhagen HIV Programme, University of Copenhagen, Copenhagen, Denmark,¹Department of Infactious Diseases, IP Brere University Hospital, Brussells, Belgium,⁵Division of Infactious Diseases, University Hospital Zurich, Zurich, Switzerland,⁵Nice Hospital, Nice, France,¹The Kirby Institute, Sydney, Australia

748 Lipidomic Profiling in HIV: Implications for Risk-Prediction Models

Gerard Wong¹, Janine M. Trevillyan^{2,3}, Benoit Fatou¹, Michelle Cinel¹, Jacqui Weir¹, Jennifer F. Hoy^{2,3}, Peter J. Meikle¹, Peter J. Meikle¹

¹Metabolomics, Baker IDI Heart and Diabetes Institute, Melbourne, Australia, ²Infectious Diseases Unit, Alfred Health, Melbourne, Australia, ³Department of Infectious Diseases, Monash University, Melbourne, Australia

749LB Effect of Switch From Abacavir To Tenofovir DF On Platelet Function Markers: A SWIFT Trial Substudy Jane A. O'Halloran', Eimear Dunne², Willard Tinago', Stephanie Denieffe!, Dermot Kenny², Patrick W. G. Mallon'

'HIV Molecular Research Group, University College Dublin, Dublin, Ireland, Cardiovascular Biology Group, Royal College of Surgeons in Ireland. Dublin, Ireland

Session P-P6 Poster Session
Thursday March 6, 2014, 2:30 PM-4:00 PM
Exhibit Hall B
Statins and ARV Effects in HIV

750 Rosuvastatin Lowers Oxidative LDL in HIV-Infected Persons On Antiretroviral Therapy: SATURN-HIV Corrilynn O. Hileman 12, Richard D. Semba³, Randi Turner³, Danielle E. Labbato¹⁴, Norma J. Stoer¹⁴. Grace A. McComsey¹⁴. Gase Western Reserve University School of Medicine, Cleveland, OH, United States, ³MethroHealth Medical Center, Cleveland, OH, United States, *Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, MD, United States, *University Hospitals Case Medical Center, Cleveland, OH, United States

751LB After 52 Weeks, Pitavastatin Is Superior To Pravastatin for LDL-C Lowering in Patients With HIV

Craig A. Sponseller¹, Judith Aberg², INTREPID Team 'Medical Affairs, Kowa Pharmaceuticals America, Inc., Montgomery, AL, United States, 'Chief, Division of Infectious Diseases, ICAHN School of Medicine at Mount Sinai, New York, NY, United States

752 Endothelial Progenitor Cells Increase in Older HIV-Infected Patients Receiving Telmisartan

Jordan E. Lake, Theodoros Kelesidis, Diana H. Liao, Judith S. Currier, Otto O. Yang University of California Los Angeles, Los Angeles, CA, United States

Session P-Q1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Biomarkers and Non-AIDS Events

753 Incidence of CD4/CD8 Ratio Normalization and Its Role in the Onset of Non-AIDS-Related Events

Cristina Mussini¹, Patrizia Lorenzini², Alessandro Cozzi-Lepri³, Giuseppe Lapadula⁴, Giulia Marchetti³, Emanuele Nicastri², Atonoella Cingolani³, Miriam Lichtner², Andrea Antinori², Antonella d'Arminio Monforte⁵, for the Icona Foundation Study Group "University of Modena and Reggio Emilia, Modena, Italy;*INMI L. Spallanzani, Rome, Italy¹-University Colleg London, London, United Kingdom,*San Gerardo Hospital, Monza, Italy;*University of Milan, Milan, Italy;*Catholic University, Rome, Italy;*La Sapienza University Polo Pontino, Rome, Italy

754 Longitudinal Changes in Free Testosterone Among Older HIV-Infected and HIV-Uninfected Men

Laurence Stama¹², Lisa P. Jacobson², Xiuhong Li², Frank J. Palella², Joseph B. Margolick², Lawrence Kingsley², Dorothy Wiley², Gillies Pialoux¹, Adrian Dobs², Todd T. Brown² Inflectious Diseases, Tenon Hospital, Paris, France² Inflectious Diseases, Northwestem University, Feinberg School of Medicine, Chicago, IL, United States, *Epidemiology, Johns Hopkins University, Baltimore, MD, United States, *Infectious Diseases, Johns Hopkins University, Baltimore, MD, United States, *Infectious Diseases, Diseases, University of Pittsburgh, Pittsburgh, PA, United States, *Endocrinology, Diabetes, and Metabolism, Johns Hopkins University, Baltimore, MD, United States, and Metabolism, Johns Hopkins University, Baltimore, MD, United States

755 Inflammatory Biomarkers in Chronic HIV Disease Predominantly Associate With Monocyte Activation Eleanor M. P. Wilson¹, Amrit Singh¹, Kathy Huppler Hullslek², Keith Henry²³, Ken Lichetenstein⁴, Pragna Patel⁵, John T. Brooks⁵, Irini Sereti¹, Jason V. Baker²²
¹Lab of Immunoregulation, NIAID, NIH, Bethesda, MD, United

'Lab of Immunoregulation, NIAID, NIH, Bethesda, MD, United States, Elmisrstiy of Minnesota, Minneapolis, MM, United States, Flennepin County Medical Center, Minneapolis, MM, United States, Flational Jewish Health, Denver, CO, United States, FCDC, Atlanta, GA, United States

756 Extrinsic Pathway Coagulation Factors Are Associated With Mortality During Treated HIV Disease

Jason V. Baker¹, Kathleen Brummel-Ziedins², Jacqueline Neuhaus³, James D. Neaton³, Russell P. Tracy², INSIGHT SMART and ESPRIT Study Groups

*Infectious Diseases, University of Minnesota, Minneapolis, MN, United States, *Biochemistry, University of Vermont, Burlington, VT, United States, *Biostatistics, University of Minnesota, Minneapolis, MN, United States

757 Correlates of Inflammatory Markers After One Year of Suppressive Antiretroviral Treatment (ART)

Supriya Krishnan¹, Ronald J. Bosch¹, Benigno Rodriguez², Peter W. Hunt³, Cara Wilson⁴, Steven G. Deeks³, Michael M. Lederman², Alan L. Landay⁵, Allan R. Tenorio⁶

¹Hanvard School of Public Health, Center for Biostatistics in AIDS Research, Boston, MA, United States, ²Division of Infectious Diseases and HIV Medicine, Case Western Reserve University School of Medicine, Cleveland, OH, United States, ³Positive Health Program, Department of Medicine, San Francisco General Hospital, University of Califomia, San Francisco, CA, United States, ⁴Division of Infectious Diseases, University of Colorado Hospital, Denver, CO, United States, 5 Department of Immunology and Microbiology, Rush University Medical Center, Chicago, IL, United States, Department of Medicine, Rush University Medical Center, Chicago, IL, United States

758 Pro12Ala Polymorphism Is Associated With Metabolic Disturbance in HIV/HCV Coinfected Patients

Pilar García-Broncano¹, Juan Berenguer^{2,3}, Amanda Fernández-Rodríguez¹, Daniel Pineda-Tenor¹, María A Jiménez-Sousa¹, Mónica García-Álvarez1, Teresa Aldámiz-Echevarria23, Juan Carlos López2, Dariela Micheloud⁴, Salvador Resino⁵

¹Unidad de Infección Viral e Inmunidad. Centro Nacional de Microbiología, Instituto de Salud Carlos III, Majadahonda, Spain, ²Unidad de Enfermedades Infecciosas/VIH, Hospital General Univeristario "Gregorio Marañon," Madrid, Spain, Instituto de Investigación Sanitaria Gregorio Marañón (IISGM), Madrid, Spain, Servicio de Medicina Interna, Hospital General Universitario "Gregorio Marañon", Madrid, Spain.5Unidad de Infección Viral e Inmunidad. Centro Nacional de Microbiología. Instituto de Salud Carlos III, Universitario Majadahonda,

Predictors of Incident Hypertension in HIV-Positive Adults Over 24 Months On ART in South Africa

Alana T. Brennan^{1,2}, Matthew P. Fox^{1,2}, Mhairi Maskew², Ian Sanne^{1,2}, Prudence Ive³, Julia Rohr^{1,2}, Lawrence Long², Sydney Rosen1,2

¹Center for Global Health & Development, Boston University, Boston, MA, United States, 2 Department of Internal Medicine, School of Clinical Medicine, Faculty of Health Sciences, Health Economics and Epidemiology Research Office, Johannesburg, South Africa, 3 Department of Internal Medicine, School of Clinical Medicine, Faculty of Health Sciences, Clinical HIV Research Unit, Johannesburg, South Africa

Session P-Q2 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D **Frailty: Physical Function and Telomeres**

Frailty, Inflammation and Mortality Among Aging HIV-Infected and At-Risk Injection Drug Users

Damani A. Piggott, Ravi Varadhan, Shruti H. Mehta, Todd T. Brown, Sean X. Leng, Gregory D. Kirk Johns Hopkins University, Baltimore, MD, United States

Brisk Walking Improves Inflammatory Markers in cART-Treated Patients

Valeria Longo¹, Matteo Bonato², Simona Bossolasco¹, Laura Galli¹, Andrea Caumo², Gaspare Pavei³, Adriano Lazzarin¹, Giampiero Merati³, Antonio La Torre², Paola Cinque¹

*Infectious Diseases, San Raffaele Scientific Institute, Milano,

Italy, 2Biomedical Sciences for Health, Università degli Studi di Milano, Milano, Italy, Pathophysiology and Transplantation Department, Università degli Studi di Milano, Milano, Italy

764 Cell-Mediated CMV Responses in HIV-Infected Persons With Impaired Physical Function

Kristine M. Erlandson, Amanda A. Allshouse, Rick Rapaport, Brent E. Palmer, Cara C. Wilson, Samantha MaWhinney, Thomas B.

University of Colorado Anschutz Medical Campus, Aurora, CO, United States

765 Presence of the Immune Risk Phenotype and Telomere Shortening Among HIV Treated Patients

Patricia Ndumbi, Julian Falutz, Jason Szabo, Orin Rosengren, Christos M. Tsoukas

Immune Deficiency Treatment Centre, McGill University Health Centre, Montreal, QC, Canada

Geriatric Syndromes Are Common Among Older HIV-766 Infected Adults

Meredith Greene^{1,2}, Victor Valcour^{1,3}, Yinghui Miao^{2,4}, Ken Covinsky^{1,2}, Joy Madamba⁵, Monica Mattes⁶, Harry Lampiris^{2,7}, Jeffrey Martin⁸, Steven Deeks⁵

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CA, United States,5 Medicine-HIV/AIDS, University of California San Francisco, San Francisco, CA, United States, University of Central Florida College of Medicine, Orlando, FL, United States, Medicine-Infectious Diseases, University of California San Francisco, San Francisco, CA, United States, 8 Epidemiology & Biostatistics, University of California San Francisco, San Francisco, CA, United States

Physical Function Impairment On Quality of Life Among Persons Aging With HIV Infection

Kristine M. Erlandson, Amanda A. Allshouse, Catherine M. Jankowski, Samantha MaWhinney, Wendy M. Kohrt, Thomas B.

University of Colorado Anschutz Medical Campus, Aurora, CO, United States

Session P-Q3 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D **Diabetes and Insulin Resistance**

IL-6, hsCRP, and the Development of Type 2 Diabetes Among HIV Positive Patients Taking ART Claude L. Béténé A Dooko

School of Public Health, University of Minnesota, St Paul, MN, United

769 HbA1c Is A Poor Predictor of Fasting Glycemia in HIV-Infected Men With Low CD4 Count, High MCV and MCH Laurence Slama^{1,2}, Frank J. Palella², Alison G. Abraham³, Xiuhong Li3, Corinne Vigouroux4,5, Gilles Pialoux1, Lawrence Kingsley6, Jordan

E. Lake7, Todd T. Brown8 ¹Infectious Diseases, Tenon Hospital, Paris, France, ²Infectious Diseases, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States,3 Epidemiology, Johns Hopkins University, Baltimore, MD, United States, Biochimie et Hormonologie, Tenon Hospital, Paris, France, UPMC Paris 6, UMR_S938, Paris, France, University of Pittsburgh, Pittsburgh, PA, United States, Infectious Diseases, University of California Los Angeles, Los Angeles, CA, United States, Endocrinology and Metabolism, Johns Hopkins University, Baltimore, MD, United States

770 Triglycerides/HDL Ratio and Risk of Developing Diabetes Mellitus During Antiretroviral Therapy

Nicola Squillace1, Patrizia Lorenzini2, Giuseppe Lapadula1, Alessandro Cozzi-Lepri3, Stefano Rusconi4, Massimo Puoti5, Antonella Castagna⁶, Andrea Antinori², Andrea Gori¹, Antonella d'Arminio Monforte⁷, for the Icona Foundation Study Group 1 Infectious Disease Unit, San Gerardo Hospital, University of Milano-Bicocca, Monza, Italy,2 "Lazzaro Spallanzani" National Institute for Infectious Diseases-IRCCS, Rome, Italy,33 Research Department of Infection and Population Health, University College London, London, United Kingdom, Department of Biomedical and Clinical Science Luigi Sacco, Infectious Diseases, University of Milan, Milan, Italy, Infectious Disease Unit, Niguarda Cà Granda Hospital, Milan, Italy, Department of Infectious Diseases, San Raffaele Scientific Institute, University Vita-Salute San Raffaele, Milan, Italy, San Paolo Hospital, University of Milan, Milan, Italy

Measuring Physical Activity and its Impact On Insulin Resistance in MACS Men

Anne K. Monroe¹, Todd T. Brown¹, Christopher Cox², Dorothy Wiley³, Frank Palella4, Lawrence Kingsley5, Michael Plankey6 ¹Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 2 Epidemiology, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, 3UCLA School of Nursing, Los Angeles, CA, United States, Medicine, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States, 5 Department of Infectious Diseases and Microbiology, School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, Medicine, Georgetown University School of Medicine, Washington, DC, United States

Impact of Randomized Antiretroviral Therapy (ART) Initiation On Glucose Metabolism: ACTG A5224s

Kristine M. Erlandson¹, Douglas Kitch², Paul E. Sax³, Eric S. Daar⁴, Camlin Tierney2, Kathleen M. Melbourne5, Belinda Ha6, Grace A. McComsev⁷

¹University of Colorado Anschutz Medical Campus, Aurora, CO, United States,2 Harvard School of Public Health, Boston, MA, United States.3 Brigham and Women's Hospital, Boston, MA, United States, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance, CA, United States, 5 Gilead Sciences, Foster City, CA, United States, ViiV Healthcare, Research Triangle, NC, United States, Case Western Reserve University, Cleveland, OH, United States

Session P-Q4 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D **Lung Disease and HIV**

HIV Infection Increases Risk of Acute Exacerbations of COPD

Allison A. Lambert, Gregory D. Kirk, Jacquie Astemborski, Shruti H. Mehta, M. Bradley Drummond

Johns Hopkins University, Baltimore, MD, United States

Association of HIV Infection and Immune Activation With Decline in Lung Function

Kristina Crothers¹, Carla V. Rodriguez¹, Cherry Wongtrakool², Guy Soo Hoo3, Joon Kim4, Sheldon T. Brown4, David Rimland2, Maria C. Rodriguez-Barradas⁵, Matthew B. Goetz³, Amy C. Justice⁶ Department of Medicine, University of Washington, Seattle, WA, United States, 2 Department of Medicine, Atlanta Veterans Affairs Medical Center and Emory University, Atlanta, GA, United States, 3 Department of Medicine, West Los Angeles Veterans Affairs Medical Center and David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA, United States, Department of Medicine, James J. Peters Bronx Veterans Affairs Medical Center and and Icahn School of Medicine at Mt Sinai, New York, NY, United States, Department of Medicine, Michael E. DeBakey Veterans Affairs Medical Center and Baylor College of Medicine, Houston, TX, United States, Department of Medicine, Veterans Affairs Connecticut Healthcare System and Yale University, New Haven, CT, United States

HIV Infection and Related Biomarkers Are Independent Risk Factors for Radiographic Emphysema

Engi F. Attia1, Matthew B. Goetz2, Maria C. Rodriguez-Barradas3, David Rimland⁴, Sheldon T. Brown⁵, Guy Soo Hoo², Joon Kim⁵, Cherry Wongtrakool⁴, Kathleen Akgun⁶, Kristina Crothers¹ ¹Medicine, University of Washington, Seattle, WA, United States, Medicine, West Los Angeles Veterans Affairs Medical Center and David Geffen School of Medicine at University of California, Los Angeles, Los Angeles, CA, United States, Medicine, Michael E. DeBakey Veterans Affairs Medical Center and Baylor College of Medicine, Houston, TX, United States, Medicine, Atlanta Veterans Affairs Medical Center and Emory University, Atlanta, GA, United States,5 Medicine, James J. Peters Veterans Affairs Medical Center and Icahn School of Medicine at Mt. Sinai, Bronx and NYC, NY, United States, 6 Medicine, West Haven Veterans Affairs Medical Center and Yale University, West Haven, CT, United States

Factors Associated With Chronic Obstructive Pulmonary Disease in a High Risk HIV-Infected Cohort Alain Makinson¹, Maurice Hayot², Sabrina Eymard-Duvernay³, François Raffi⁴, Laurence Thirard⁵, Fabrice Bonnet⁶, Pierre Tattevin⁷,

Sophie Abgrall8,9, Jacques Reynes1, Vincent Le Moing1, ANRS EP48 HIV CHEST Study Team

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Session P-Q5 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Bone Disease: Osteopenia, Fracture Risk, and

777 Minimal Change in Bone Density and No Association With HIV Factors Over 12 Months in HIV-Infected Men Amanda Samarawickrama¹, Sophie Jose², Caroline Sabin², Karen Walker-Bone3, Martin Fisher4, Yvonne Gilleece5

¹Clinical Investigation and Research Unit, Brighton and Sussex Medical School, Brighton, United Kingdom,2 Research Department of Infection and Population Health, University College London, London, United Kingdom,3MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, United Kingdom, Department of Infection and Immunity, Brighton and Sussex Medical School, Brighton, United Kingdom,⁵Department of HIV and Sexual Health, Brighton and Sussex University Hospitals, Brighton, United Kingdom

New Fracture Risk and FRAX 10-Year Probability of Fracture in HIV-Infected Adults

Linda A. Battalora¹, Kate Buchacz², Carl Armon³, Edgar T. Overton⁴, John Hammer⁵, Pragna Patel², Joan Chmiel⁶, Kathy Wood³, John T. Brooks2, Benjamin Young7

Colorado School of Mines, Golden, CO, United States, Centers for Disease Control and Prevention, Atlanta, GA, United States,3 Cerner Corporation, Vienna, VA, United States, University of Alabama School of Medicine, Birmingham, AL, United States, Denver Infectious Disease Consultants, Denver, CO, United States, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States, International Association of Providers of AIDS Care, Washington, DC, United States

779LB Bone Density Changes After Antiretroviral Initiation With Protease Inhibitors or Raltegravir

Todd Brown¹, Carlee Moser², Judith Currier³, Heather Ribaudo², Jennifer Rothenberg4, Michael Dube5, Robert Murphy6, James Stein7, Grace McComsev⁸

Johns Hopkins University, Baltimore, MD, United States, Harvard University, Boston, MA, United States, 3UCLA, Los Angeles, CA, United States. Social & Scientific Systems, Silver Spring, MD, United States, 5 University of Southern California, Los Angeles, CA, United States, Northwestern University, Chicago, IL, United States, University of Wisconsin, Madison, WI, United States, Case Western Reserve University, Cleveland, OH, United States

Hand Osteoarthritis, a Joint Disorder Frequent and More Severe in HIV-1 Patients: METAFIB-0A Study Anne-Laurence Tomi1, Jeremy Sellam2, Karine Lacombe3, Manuela

Sebire⁴, Caroline Rey-Jouvin², Anne-Laurence Miquel⁵, Emmanuel Maheu¹, Francis Berenbaum¹, Pierre-Marie Girard³, Jean-Luc Meynard⁶

¹Rheumatology Unit, AP-HP, Hopital Saint-Antoine, Paris, France, ²AP-HP, Hopital Saint-Antoine, Paris, France,3AP-HP, Universite Pierre et Marie Curie, Paris, France, Service de Maladies Infectieuses, AP-HP. Hopital Saint-Antoine, Paris, France, FRadiology, AP-HP, Hopital Saint-Antoine, Paris, France, Maladies infectieuses, AP-HP, Hopital Saint-Antoine, Paris, France

Low Bone Mineral Density Is Associated With Increased Risk of Incident Fracture in HIV+ Adults

Linda A. Battalora¹, Kate Buchacz², Carl Armon³, Edgar T. Overton⁴, John Hammer⁵, Pragna Patel², Joan S. Chmiel⁶, Tim Bush², John T. Brooks2, Benjamin Young7

Colorado School of Mines, Golden, CO, United States, Centers for Disease Control and Prevention, Atlanta, GA, United States,3 Cerner Corporation, Vienna, VA, United States, University of Alabama School of Medicine, Birmingham, AL, United States, 5 Denver Infectious Disease Consultants, Denver, CO, United States, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States, International Association of Providers of AIDS Care, Washington, DC, United States

A Randomized Open Label Study for Comparing Two Doses of Zoledronic Acid in HIV Infected Patients Eugènia Negredo¹, Anna Bonjoch¹, Nuria Pérez-Álvarez^{1,2}, Arrelly Ornellas1,3, Jordi Puig1, Cristina Herrero1, Patricia Echeverria1, Bonaventura Clotet1,

**Lluita Contra la Sida Foundation, Germans Trias i Pujol University Hospital, Badalona, Spain.* Statistics and Operations Research Department, Universitat Politècnica de Catalunya, Barcelona, Spain.* Department of Econometrics, University of Barcelona, Barcelona, Spain.* Irsicaixa Foundation, Germans Trias i Pujol University Hospital, Badalona, Spain

783 Mechanism of Bone Disease in HIV and HCV: Impact of Tenofovir Exposure and Severity of Liver Disease

James Cutrell¹, Naim M. Maaloul², Song Zhang³, Henning Drechsler¹, Ang Gao⁴, Pablo Tebas³, Roger Bedimo⁴ 'Inflectious Diseases, VA North Texas Health Care System, Dallas, TX, United States, ²Center for Mineral Metabolism, University of Texas Southwestern Medical Center, Dallas, TX, United States, ²Clinical Sciences, University of Texas Southwestern Medical Center, Dallas, TX, United States, ⁴Internal Medicine, University of Texas Southwestern Medical Center, Dallas, TX, United States, ²Infectious Diseases, University of Pennsylvaria, United States

784 Low Bone Mineral Density (BMD) Among Ugandan HIV-Infected Patients On Failing First-Line ART

Bonnie Wandera^{1,2}, Fred Ssemitāla³, Agnes Kiragga², Jayne Ellis⁴, Cissy Kityo⁵, Robert Colebunders⁶, Nicholas Paton⁷, Andrew Kambugu², Philippa Easterbrook¹

'Epidemiology and Biostatistics, Makerere University School of Public Health, Kampala, Uganda, 'Infectious Diseases Institute, Kampala, Uganda, 'Makerere University College of Health Sciences, Kampala, Uganda, 'Epidemiology and Biostatistics, Infectious Diseases Institute, Kampala, Uganda, 'Joint Clinical Research Center, Kampala, Uganda, 'Institute of Tropical Medicine, Antwerp, Belgium,'Medical Research Council, Clinical Trials Unit, London, United Kingdom

Session P-Q6 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Hepatic Fibrosis and Other Hepatic Complications

785 Abacavir and Didanosine Enhance Susceptibility To Acetaminophen-Induced Hepatotoxicity

Ana Blas-García¹², Victor M. Víctor²³, Alberto Marti-Rodrigo¹, Lara Millán-Medina¹², Nadezda Apostolova^{3,4}, **Juan V. Esplugues¹²** (Pharmacology, Faculty of Medicine, University of Valencia, Valencia, Spain, FISABIO, Valencia, Spain, FISABIO, Valencia, Spain, GibERehd, Valencia, Spain, Universidad Jaime I, Castellón de la Plana, Spain

786 Liver Fibrosis Is Not Uncommon in HIV-Infected Patients Without Viral or Alcoholic Hepatitis

Anchalee Avihingsanon^{1,2}, Salyavit Jitmitraparp³, Vorapot Sapsirisavat¹, Tanakorn Apornpong¹, Tawan Mengthisong¹, Stephen Kerr^{1,4}, Gall V. Matthews⁴, Sharon R. Lewin^{5,6}, Kiat Ruxrungtham^{1,7}, and the HIV-NAT 006 study team.

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787 Association Between Dideoxynucleoside Analogues (d-Drugs) and End-Stage Liver Disease (ESLD)

Lene Ryom¹, Caroline A. Sabin², Peter Reiss³, Wafaa El-Sadr⁴, Antonella D. A. Monforte⁵, Stephane De Wit⁶, Matthew Law⁷, Ole Kirk¹, Andrew N. Phillips², Jens D. Lundgren¹, on behalf of the D:A:D Study Group

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788 Microbial Translocation, Immune Activation, Apoptosis and Liver Fibrosis in the MASH Cohort

Marianna K. Baum¹, Kenneth E. Sherman², Sabrina S. Martinez¹, Pedro Greer³, Tiffanie Stewart¹, Christina Jacobs¹, Sonya Luisi¹, Kimberly Dizon¹, Adriana Campa¹ ¹Stempel College of Public Health and Social Work, Florida International University, Miami, FL, United States, Division of Digestive Disease, University of Cincinnati, Cincinnati, OH, United States, ³College of Medicine, Florida International University, Miami, FL, United States

789 Cumulative Exposure To Ritonavir-Boosted Atazanavir Is Associated With Cholelithiasis

Takeshi Nishijima¹², Hiroyuki Gatanaga¹², Takuro Shimbo³, Yohei Hamada¹, Junko Tanuma¹, Kunihisa Tsukada¹, Katsuji Teruya¹, Yoshimi Kikuchi¹, Shinichi Oka¹

AIDS Clinical Center, National Center for Global Health and Medicine, Tokyo, Japan, *Center for AIDS Research, Kumamoto University, Kumamoto, Japan, *Department of Clinical Study and Informatics, Center for Clinical Sciences, National Center for Global Health and Medicine, Tokyo, Japan

790 Prevalence of Liver Fibrosis Based On Non-Invasive Markers Among HIV-Infected Patients in Zambia Michael J. Vinikoor¹², Kalo Musukuma¹, Gilles Wandeler³, Arianna

Zanolini^{1,2}, Aggrey Mweemba*, Carolyn Bolton-Moore^{1,5}, Izukanji Sikazwe¹, Benjamin H. Chi¹⁵, Ibod Mulengai^{4,4} 'Gentre for Infectious Disease Research in Zambia, Lusaka, Zambia,⁵Institute of Global Health and Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁵Institute of Social and Preventive Medicine, University of Bern, Bern, Switzerland, ⁴University Teaching Hospital, Lusaka, Zambia, ⁵Obstethics and Gynecology, University of North Carolina at Chapel Hill, IC, United States

791 Significance of Alcohol Abuse Diagnosis vs Other Risk Factors for Advanced Liver Fibrosis by FIB-4

H. Nina Kim¹, Heidi M. Crane¹, Carla V. Rodriguez¹, Stephen Van Rompaey¹, W. Christopher Mathews², Michael Mugavero², Kenneth H. Mayer¹, Katerina Christopoulos², Sonia Napravnik², Mar M. Kitahata¹ 'University of Washington, Seattle, WA, United States², University of California San Diego, La Jolla, CA, United States², University of Alabama at Birmingham, Burmingham, AL, United States², University of California San Francisco, San Francisco, CA, United States³, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Session P-Q7 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall D Renal Disease: ART, Genetic Factors, and Long Term Outcomes

Predictors of Progression, Stabilisation, or Improvement of eGFR After Chronic Renal Impairment Lene Ryom¹, Amanda Mocroft², Ole Kirk¹, Peter Reiss³, Michael Ross⁴, Olivier Moranne⁵, Philippe Morlat⁶, Colette Smith², Christoph A. Fux7, Jens D. Lundgren1, on Behalf of the D:A:D Study Group Copenhagen HIV Programme and Epidemiklinikken M5132, Rigshospitalet, Copenhagen University Hospital and University of Copenhagen, Faculty of Health and Medical Sciences, Copenhagen, Denmark, Infection and Population Health, University College London, London, United Kingdom, 3 Division of Infectious Diseases and Department of Global Health, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands, Division of Nephrology, Mount Sinai School of Medicine, New York City, NY, United States, 5 Nephrology and Public Health Departments, CHU de Nice, Nice, France, Service de Médecine Interne et Maladies Infectieuses, Hôpital Saint-André, CHU de Bordeaux, Bordeaux, France,7 Clinic for Infectious Diseases and Hospital Hygiene, Kantonsspital Aarau, Aarau, Switzerland

793 Spectrum of HIV-Associated Kidney Disease in the Era of Combination Antiretroviral Therapy

John Booth¹, **Lisa Hamzah**², Sophie Jose¹, Stephen Mcadoo², Emil Kumar³, Catherine Horsfield⁴, Patrick O'Donnell⁴, Rachael Jones⁵, Caroline Sabin¹, Frank A. Post²

¹University College London, London, United Kingdom,²King's College London, London, United Kingdom,³Imperial College London, London,

United Kingdom, 'Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom, ⁵Chelsea and Westminster NHS Foundation Trust. London. United Kingdom

794 Renal and Metabolic Safety of Initial HIV-1 Therapy in Resource-Limited Settings

Francine Touzard Romo¹, Laura M. Smeaton², Thomas B. Campbell³, Cynthia Riviere⁴, Rosie Mngqibias², Khuanchai Supparatpinyo⁴, Johnstone Kumwenda², Nagalingeswaran Kumarasamy³, James G. Hakim³, Timothy Flanigan¹⁰
'The Miriam Hospital, Providence, RI, United States,²Harvard School of Public Health, Boston, MA, United States,²Horvard School of Public Health, Boston, MA, United States,²University of Colorado Denver, Aurora, CO, United States,¹Les Centres GHESKIO, Port-au-Prince, Hali¹,¹Univercity of KwaZulu Natal, Durban, South Africa,²(Chang Mai University, Chiang Mai, Thalland,'College of Medicine, Blantyre, Malawi³, YRGCARE Medical Centre, Chennai, India,²University of Zimbabwe College of Health Sciences, Harare, Zimbabwe,¹®Brown Medical School, Providence, RI, United States

795 Risk Factors for Atazanavir (ATV)-Associated Urolithiasis: A Case-Control Study

Barbara De Sousa', Diane Ponscarme', Nathanael Lapidus', Michel Daudon', Laurence Weiss', Christophe Rioux's, Erwan Fourn's, Christine Katlama', Jean-Michel Molina', Matthieu Lafaurie' 'Infectious Diseases Unit, Höpital Saint Louis, Paris, France, 'Höpital Saint Louis, Paris, France, 'Höpital Tenon, Paris, France, 'Höpital Europen Georges Pompidou, Paris, France, 'Höpital Bitcht, Paris, France, 'Höpital Bitcht, Paris, France, 'Höpital Bitcht, Paris, France, 'Höpital Pitié, Paris, P

796 Single Nucleotide Polymorphisms in UGT1A1 Associate With Atazanavir-Related Nephrolithiasis

Takeshi Nishijima, Kiyoto Tsuchiya, Akane Joya, Yohei Hamada, Junko Tanuma, Kunihisa Tsukada, Katsuji Teruya, Yoshimi Kikuchi, Shinichi Oka, Hiroyuki Gatanaga

AIDS Clinical Center, National Center for Global Health and Medicine, Tokyo, Japan

797 Atazanavir and Tenofovir Attenuate the Benefit of Antiretroviral Therapy On Cystatin C: ACTG A5224

Chris T. Longenecker^{1,2}, Douglas Fitch³, Paul Sax^{4,5}, Eric Daar^{6,7}, Camlin Tierney³, Grace A. McComsey^{1,2}

'Case Western' Reserve University School of Medicine, Cleveland, OH, United States, University Hospitals Case Medical Center, Cleveland, OH, United States, Harvard School of Public Health, Boston, MA, United States, Harvard Medical School, Boston, MA, United States, Brigham and Women's Hospital, Boston, MA, United States, Los Angeles Biomedical Research Institute, Torrance, CA, United States, David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States

798 A Chronic Kidney Disease Risk Score To Determine Tenofovir Safety Among HIV+ Male Veterans

Rebecca Scherzer¹, Monica Gandhi¹, Michelle Estrella², Phyllis Tien¹, Steven Deeks¹, Carl Grunfeld¹, Carmen Peralta¹, Michael Shlipak¹

¹University of California San Francisco, San Francisco, CA, United States, ²Johns Hopkins University, Baltimore, MD, United States

799 Genetic Variants of ABCC2 and ABCC10 Are Associated With TFV-Induced Proximal Tubular Dysfunction

Anchalee Avihingsanon¹², Baralee Punyawudho³, Kearkiat Praditpornslipa¹, Yingyos Avihingsanon¹, Wirach Maek-a-nantawat¹, Jiratchaya Sophonphan¹, Sasiwimol Ubolyam², Stephen Kerr¹⁵, David Burger⁵, Kiat Ruxrungtham¹³, and HIV-NAT 114 study team 'HIV-NAT, TRCARC, Bangkok, Thailand, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, Faculty of Pharmaceutical Sciences, Bangkok, Thailand, Faculty of Nephrology, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand, Faculty of Medicine, Chulalongkom University, Rustralia, Fadboud University Nijmegen Medical Center, Nijmegen, Netherlands, Medicine, Faculty of Medicine, Chulalongkom University, Bangkok, Thailand

800 End-Stage Kidney Disease and Kidney Transplantation in HIV-Positive Patients

Esther N. Gathogo', Sophie Jose², John Booth', Stephen P. McAdoo', Emil A. Kumar', Michael Rayment', Ciliford Leen⁵, Deborah Williams', Caroline Sabir², Frank Post'

Renal Sciences, King's College London, London, United Kingdom,

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Cheese and Westminster Hospital, London, United Kingdom,

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Sprighton and Sussex University Hospitals, Brighton,

United Kingdom

Session P-Q8 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall D Obesity: ART and Animal Models

Maraviroc, a CCR5 Antagonist, Alters Gut Microbiota Composition in a Mouse Model of Obesity Patricia Pérez-Matute¹, Laura Pérez-Martínez¹, **José R. Blanco**²,

Jose A. Oteo²

**Infectious Diseases, CIBIR, Logrono, Spain, Infectious Diseases,

Hospital San Pedro-CiBIR, Logrono, Spain

802 Low Pre-ART CD4+ T Cells, Female Sex, and
Atazanavir Use Increase Obesity Risk After Starting

ART
Benjamin Atkinson¹, Supriya Krishnan², Ann C. Collier¹³
'Harborview Medical Center, Seattle, WA, United States, Statistical and Data Analysis Center, Harvard School of Public Health, Boston, MA, United States, 'University of Washington School of Medicine, Seattle, WA, United States

803 Obesity or Hypertension at ART Initiation and Outcomes Amongst HIV Patients in South Africa

Alana T. Brennan^{1,2}, Matthew P. Fox^{1,2}, Mhairi Maskew², Ian Sanne^{1,2}, Prudence Ive³, Julia Rohr^{1,2}, Lawrence Long², Sydney Rosen^{1,2}

¹Center for Global Health & Development, Boston University, Boston, MA, United States, Popertment of Internal Medicine, School of Clinical Medicine, Faculty of Health Sciences, Health Economics and Epidemiology Research Office, Johannesburg, South Africa, ³Department of Internal Medicine, School of Clinical Medicine, Faculty of Health Sciences, Clinical HIV Research Unit, Johannesburg, South Africa

Session P-Q9 Poster Session

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall D Genetic Factors and ART Outcomes

804 Specific Binding Characteristics of HLA Alleles Associate With Nevirapine Hypersensitivity

Rebecca Pavlos¹, Craig Rive¹, Elizabeth McKinnon¹, David Ostrov², Bjoern Peters³, Jing Yuan⁴, Silvana Gaudieri¹.⁵, David Haas⁶, Simon Mallal¹.⁶, **Elizabeth J. Phillips**¹.⁶

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805 Large-Scale Gene-Centric Exploration of Risk for NRTI/ NNRTI-Associated Toxicities in Botswana

C. William Wester^{1,2}, **Sophie Limou**³, Hermann Bussmann^{2,4}, Vladimir Novitsky^{2,4}, Sikhulile Moyo⁴, Max Essex^{2,4}, Richard G. Marlink^{2,4}, Cheryl A. Winkler³

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Session P-Q10 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D ART and Suicidality

760 Suicide Rates Decrease Among HAART Initiators From 1996 To 2012 in British Columbia, Canada

Silvia Guillemi¹², Erin Ding¹, Jasmine Gurm¹, Julia Zhu¹, Verena Strehlau¹³, Julio S. G. Montaner¹², Robert S. Hogg^{1,4}

*BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, ²University of British Columbia, Faculty of Medicine, Vancouver, BC, Canada, ³University of British Columbia, Department of Psychiatry, Vancouver, BC, Canada, ³Simon Fraser University, Faculty of Health Sciences, Burnaby, BC, Canada

761 Disproportionality Analysis of Antiretrovirals With Suicidality Using FDA AERS Data

Andrew Napoli¹, John Coumbis², Jennifer Wood², Amit Soitkar², Daniel Seekins¹

¹Bristol-Myers Squibb, Plainsboro, NJ, United States, ²Bristol-Myers Squibb, Hopewell, NJ, United States

Session P-R1 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Epidemiology and Transmission of TB

806 High Clonality of *M. tuberculosis* Strains Among MDR-TB Patients in Gauteng, South Africa

Dorothy A. Fallows¹, Nicole Kushner¹, Amanda Axcell², Lynsey Stewart-Isherwood³, Pamela Deniso³, Francesca Conradie³, Gerrit Coetzee³, Hendrik Koornhof', Nazir Ismailf², Gilla Kaplari¹ Centre 1°PHRI, NUMS-Rutgers University, Newark, NJ, United States²Centre for Tuberculosis, Johannesburg, South Africa; ³Department of Clinical Medicine, University of the Wiftwatersrand, Johannesburg, South Africa

807 Identifying Location of Recent TB Transmission in Rural Uganda: A Multidisciplinary Approach

Gabriel Chamie¹, Bonnie Wandera², Carina Marquez¹, Midori Kato-Maeda³, Moses R. Kamya⁴, Diano V. Havlir¹, Edwin D. Charlebois³ Division of HIV/AIDS, San Francisco General Hospital, University of California San Francisco. Ca. Junited States.³ Makerere University-University of California San Francisco. Research Collaboration, Kampala, Uganda, ¹ Division of Pulmonary & Critical Care Medicine, San Francisco General Hospital, University of California San Francisco, San Francisco Ca, United States, ¹ Department of Medicine, School of Medicine, Makerere University College of Health Sciences, Kampala, Uganda, ² Center for AIDS Prevention Studies, University of California San Francisco, Ca, United Staten

808 Timing of TB Episodes After the End of Isoniazid Preventive Therapy: Reinfection or Reactivation?

Sabine Hermans¹, Alison Grant², Violet Chihota³, James Lewis¹, Gavin Churchyard³, Katherine Fielding¹

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Infectious Disease Epidemiology, London School of Hygiene and Tropical Medicine, London, United Kingdom, Clinical Research, London School of Hygiene and Tropical Medicine, London, United Kingdom, Aurum Institute for Health Research, Johannesburg, South Africa

809 HIV and Tuberculosis in Kenya, 2012-2013: Results From a National Survey

Agneta Mbithi*, Anthony Gichangi*, Herman Wyenga*3, John Williamson*, Tom Oluoch*, Katherine Robinson*, Timothy Kellogg*, Andrea A. Kim*, William Maina*, Kevin M. De Cock*, 'National AIDS and STI Control Programme, Ministry of Health, Nairobi, Kenya,*Division of Global HIV/AIDS-Kenya, US Centers for Disease Control and Prevention, Nairobi, Kenya,*Division of Leprosy, Tuberculosis and Lung Diseases, Ministry of Health, Nairobi, Kenya,*Global Health Sciences, University of California San Francisco, San Francisco, CA, United States

Session P-R2 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D TB Screening and Diagnosis

810 Screening for Tuberculosis in HIV-Infected Nigerian Children With a Urinary Antigen Assay

Holly E. Rawizza^{1,2}, Stephen Oguche³, Godwin Imade⁴, Oche Agbaji⁴, David Olaleye⁵, Georgina Odaibo⁵, Kike Osinusi⁵, Isaac Adewole⁵, Prosper Okonkwo⁶, Phyllis Kanki²

Infectious Disease, Brigham & Women's Hospital, Boston, MA, United States, "Havard School of Public Health, Boston, MA, United States, "Infectious Disease, Jos University Teaching Hospital, Jos, Nigeria," Jos University Teaching Hospital, Jos, Nigeria, "University College Hospital in Ibadan, Ibadan, Nigeria," AIDS Prevention Initiative Nigeria, Abuja, Nigeria

811LB Massive Diagnostic Yield of HIV-Associated Tuberculosis Using Rapid Urine Assays in South Africa

Stephen D. Lawn¹, Andrew Kerkhoff², Rosie Burton³, Charlotte Schutz³, Gavin van Wyk³, Monica Vogt⁴, Pearl Pahlana⁵, Mark Nicol⁶, Graeme Meinties³

'Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom, 'University of Cape Town, Cape Town, South Africa, 'Department of Medicine, University of Cape Town, Cape Town, Cape Town, Cape Town, South Africa, 'Department of Clinical Research, University of Cape Town, Cape Town, South Africa, 'Desmond Tutu HIV Centre, University of Cape Town, Cape Town, South Africa, 'Division of Medical Microbiology, University of Cape Town, Cape Town, Cape Town, South Africa

812 Symptom-Based Screening for Tuberculosis Among Pregnant Women Living With HIV in Kenya

Surbhi Modi¹, Joseph S. Cavanaugh², Ray W. Shiraishi¹, Barbara Burmen³, Heather Alexander¹, Kimberly McCarthy², Hellen Muttai⁴, Kevin P. Cain⁵

'Division of Global HIV/AIDS, Centers for Disease Control and Prevention, Atlanta, GA, United States, 'Division of Tuberculosis Elimination, Centers for Disease Control and Prevention, Atlanta, GA, United States, 'Kenya Medical Research Institute/Centers for Disease Control and Prevention Public Health Collaboration, Kisumu, Kenya, 'Division of Global HIV/AIDS, Centers for Disease Control and Prevention, Kisumu, Kenya, 'Division of Tuberculosis Elimination, Centers for Disease Control and Prevention, Kisumu, Kenya

813 Highly Multiplexed Detection of Antibodies in Whole Blood During Tuberculosis Infection

Charles Greef¹, Greg Husar¹, Christen Gray², David Danks³, Pamela Nabeta², Mark Perkins², **Michael Lochhead**¹ 'MBio Diagnostics, Inc, Boulder, CO, United States, FIND, Geneva, Switzerland, Carnegie Mellon University, Pittsburgh, PA, United States

814 Performance of the World Health Organization Algorithm for Tuberculosis Screening in Kenya Surbhi Modi', Joseph S. Cavanaugh², Ray W. Shiraishi', Barba

Surbhi Modi¹, Joseph S. Cavanaugh², Ray W. Shiraishi¹, Barbara Burmen³, Heather Alexander¹, Kimberly McCarthy², Hellen Muttai⁴, Kevin Cain⁵

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815 Diagnosing Extra Pulmonary Tuberculosis Using Xpert MTB/RIF: A Laboratory Algorithm

Lesley E. Scott', Natalie Beylis², Mark Nicol³, Tintswalo Nkuna¹, Sebaka Molapo¹, Leigh Berrie¹, Adriano Duse², Wendy S. Stevens¹ 'Molecular Medicine and Haematology, University of the Witwatersrand, Johannesburg, South Africa; ²Division of Clinical Microbiology and Infectious Diseases, University of the Witwatersrand, Johannesburg, South Africa; ²Division of Medical Microbiology, Clinical Laboratory Sciences and Institute for Infectious Disease, University of Cape Town, Cape Town, South Africa

Session P-R3 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Latent TB Screening and Treatment

816 Rifapentine Safety and PK With Novel Dosing Strategies To Increase Drug Exposures for TB: ACTG 45311

Kelly E. Dooley¹, Rada Savic², Jeong-Gun Park³, Yoninah Cramer³, Richard Hafner¹, Jennifer Janik³, Mark A. Marzinke!, Marc Weiner⁵, Susan Dorman¹, David W. Haas², and the A5311 Study Team ³Johns Hopkins University School of Medicine, Baltimore, MD, United States, ³Statistical and Data Analysis Center, Harvard School of Public Health, Boston, MA, United States, *Ovision of AIDS, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, *Frontier Science Foundation, Amherst, NY, United States, *Varderbristration Medical Center, San Antonio, TX, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, TN, United States, *Vanderbilt University School of Medicine, Nashville, *Vanderbilt Uni

Three Months of Weekly Rifapentine + INH for
M. tuberculosis Infection in HIV-Infected Persons
Timothy Sterling; Connie Benson, Nigel Scott', Jose Miro',
Guilherme Calvet', Richard Chalsson⁶, Alberto La Rosa', Rosa
Infante', Michael Chen', Elsa Villarino³, TBTC / ACTG
'Medicine/Infectious Diseases, Vanderbilt University, Nashville, TN,
United States, 'University of California at San Diego, San Diego, CA,
United States, 'Centers for Disease Control and Prevention, Atlanta,
GA, United States' Bracelona Department of Health, Barcelona,
Spain, 'Institut de Pesquisa Clinica Evandro Chagas, Rio de
Janeiro, Brazil, 'The Johns Hopkins University, Baltimore, MD, United
States, 'Impacta, Lima, Peru

818 Effect of HIV On Latent TB Screening of Pregnant Women in Pune, India

Jyoti S. Mathad¹, Ramesh Bhosale², Savita Kanade³, Prasad Deshpande³, Vandana Kulkarni³, Neetal Nevrekar³, Vidya Mave³, Nishi Suryavanshi³, Nikhil Gupte⁴, Amita Gupta⁴ 'Weill Cornell Medical College, New York, NY, United States.² Byramjee Jeejeebhoy Government Medical College-Sassoon General Hospital, Pune, India.³ Johns Hopkins University-Byramjee Jeejeebhoy Government Medical College Clinical Trials Unit, Pune, India,⁴ Johns Hopkins University School of Medicine, Baltimore, MD. United States

Session P-R4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Inflammatory and Immune Activation Markers in TB

819 Baseline Inflammatory and Immune Activation Markers Predictive of TB After ART Initiation

Mark Tenforde¹, Nikhil Gupte¹, David Dowdy², David Asmuth³, Ashwin Balagopal¹, Richard Pollard³, James Hakim¹, Richard Semba⁵, Thomas Campbell⁵, Amita Gupta¹, for the ACTG A5175 (PEARLS) and NWCS 319 Study Group

'Medicine, John's Hopkins University, Baltimore, MD, United States, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, *University of California Davis, Medical Center, Sacramento, CA, United States, *University of Zimbabwe College of Health Sciences, Harare, Zimbabwe, *Johns Hopkins University, Baltimore, MD, United States, *University of Colorado Denver, Aurora, CO, United States

820 MAIT Cells Are Highly Enriched in the Bronchoalveolar Lavage Fluid of Patients With TB

Emily B. Wong 1-2, Zuri Sullivan¹, Marielle C. Gold3-4 Umesh G. Lalloo's, Anish Ambaram², Prinita Balijnath², Leon Naidoo's Thumbi Ndung 'u¹-7, William R. Bishal¹-8, David M. Lewinsohn3-4 'kwaZulu Natal Research Institute for Tuberculosis and HIV, Durban, South Africa, ²Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ²Division of Pulmonary and Critical Care Medicine, Oregon Health & Science University, Portland, OR, United States, 'Portland Veterans Administration Medical Center, Portland, OR, United States, 'Department Pulmonology and Critical Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Chile Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Chile Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Chile Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Chile Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mandela School of Medicine, Durban, South Africa, 'Hollow Care, Nelson R. Mande

KwaZulu Natal, South Africa, Division of Infectious Diseases, Johns Hopkins School of Medicine, Baltimore, MD, United States

821 Vitamin D and TMEM16J Host Variants Associated With TB or Death in HIV-Infected and -Exposed Infants

Amita Gupta¹, Jennifer Jubulis², Bret Zeldow³, Grace Montepiedra³, Barbara Detrick⁴, Avy Violari⁵, Shabir A. Madhi⁹, Charles Mitchell⁷, Stephen A. Spector³, for the IMPAACT NWCS113 and P1041 Study Team

'Medicine, Johns Hopkins University, Baltimore, MD, United States, 'Pediatrics, Maine Medical Center/Turts University, Portland, ME, United States, 'Harard School of Public Health, Boston, MA, United States, 'Pathology, Johns Hopkins University, Baltimore, MD, United States, 'PHDU, University of the Witwatersrand, Johannesburg, South Africa, 'University of the Witwatersrand, MRC: Respiratory and Meningeal Pathogens Research Unit, Johannesburg, South Africa, 'University of Miami Miller School of Medicine, Miami, FL, United States, 'Medicine, University of California San Diego, La Jolla, CA, United States

822 Latent and Active TB Infection Increase Harmful Immune Activation in Those Co-Infected With HIV Zuri A. Sullivan¹, Emily B. Wong¹, Thumbi Ndung¹u¹, Victoria O.

Kasprowicz¹, William R. Bishal²
'KwaZilu-Natal Research Institute for Tuberculosis and HIV, Durban, South Africa,*School of Medicine, Johns Hopkins University, Baltimore, MD, United States

823 Ex Vivo Fitness of MTB Correlates With Lysozyme Sensitivity in the East-African Indian lineage

Claire Pardieu¹, Nicola Casali¹, Simon Clark², Ann Rawkins², Richard Hooper³, Preya Velji⁴, Ximena Gonzalo⁴, Jane R. Deayton⁵, Francis A. Drobniewski⁴

'Clinical TB and HIV Group, Queen Mary University of London, London, United Kingdom, 'TB Research Group, Public Health England, Salisbury, United Kingdom,' Centre for Primary Care and Public Health, Barts and The London School of Medicine and Dentistry, London, United Kingdom, National Mycobacterium Reference Laboratory, Public Health England, London, United Kingdom, 'Centre for Immunology and Infectious Disease, Barts and The London School of Medicine and Dentistry, London, United Kingdom

824 Polyfunctionality of TB-Specific CD4+ T-Cells in HIV-TB Co-Infection in Latent and Pulmonary TB

Puja Van Epps^{1,2}, Sankar Sridaran¹, Htin Aung¹, Michael R. Betts³, Zahra Toosi¹, David H. Canaday^{1,2}

Department of Medicine, Division of Infectious Diseases and HIV Medicine, Case Western Reserve University, Cleveland, OH, United States, "Genitar Research Education & Clinical Center (GRECC), Louis Stokes Cleveland VA Medical Center, Cleveland, OH, United States," Department of Microbiology, University of Pennsylvania, Philadelphia, PA, United States

Session P-R5 Poster Session Wednesday March 5, 2014, 2:30 pm-4:00 pm Exhibit Hall D Impact of ART On TB Risk and Disease

825 Increased Risk of TB and Persistent Immune Deficit With Delayed ART: A Randomized Trial From Haiti Sean E. Collins', Marc Antoine Jean Juste', Patrice Severe', Serena P. Keenig', Rode Secours', Oksana Ocheretina', Daphne Bernard', Allison Dunning', Sandra M. Hurtado Rúa', Jean W. Pape'. 2 'Center for Global Health, Department of Medicine, Weili Cornell Medical College, New York, NY, United States, 'Groupe Haitien d'Etude du Sarcome de Kaposi et des Infections Opportunistes, Port au Prince, Haiti, *Division of Global Health Equity, Brigham and Women's Hospital, Boston, MA, United States, 'Department of Public Health, Weili Cornell Medical College, New York, NY, United States

826 Viral Suppression in HIV-Infected Pregnant Women With and Without TB, South Africa

Jennifer Hoffmann', Silvia Cohn', Fildah Mashabela', Reginah Msandiwa', Richard Chaisson', Neil Martinson', Tshepiso Study Team 'The Johns Hopkins University, Baltimore, MD, United States, 'Perinatal HIV Research Unit, Soweto, South Africa

827 Depleted DHEA-S Reserves Are Associated With Early Mortality After ART Initiation in HIV/TB

Shruthi Ravimohan^{1,2}, Neo Tamuhla², Andrew P. Steenhoff^{2,3}, Rona Letlhogile², Kebatshabile Nfanyana², Tumelo Rantleru², Michael Adu⁴, Drew Weissman^{2,4}, Gregory P. Bisson^{2,4}

"Department of Medicine, Division of Infectious Diseases, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, United States, "Botswana-UPenn Partnership, Gaborone, Botswana," Department of Pediatrics, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, United States, "Infectious Diseases, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, United States

829 Impacts of National ART Initiation Policy Change On Integrated TB HIV Practice in Zomba, Malawi

Kevin D. Bezanson¹, **Adrienne K. Chan**¹, Monique van Lettow², Jean Bourgeois², Edson Mwinjiwa², Harry Mbewe³, Martin Kachingwe², Donald Cole⁴, Sumeet Sodhi¹

¹Dignitas International, Toronto, ON, Canada, ²Dignitas International, Zomba, Malawi, ³Zomba Central Hospital, Zomba, Malawi, ⁴Dalla Lana School of Public Health, Toronto, ON, Canada

830 Does Long-Term ART Reduce TB Rates To Background Population Levels? Data From a National HIV Cohort Rishi K. Gupta¹², Marc Lipman¹, Alison Brown², Brian Rice², Anton Pozniak³, Dominik Zenner², Lucy Thomas², Ibrahim Abubakar¹²,

¹University College London, London, United Kingdom,²Public Health England, London, United Kingdom,³Chelsea and Westminster NHS Foundation Trust Hospital, London, United Kingdom

831 Development of Tuberculosis in HIV-Infected Patients Receiving Successful TARGA

Esteban Martin-Echevarria¹, Sergio Serrano Villar², Talía Sainz², Ana Moreno², Jose Luis Casado², Fernando Dronda², Maria Jesus Perez Elias², Enrique Navas², Manuel Rodriguez Zapata¹, **Santiago** Moreno²

¹Hospital Universitario Guadalajara, Guadalajara, Spain,²Hospital Universitario Ramón y Cajal, Madrid, Spain

832 Timeliness of ART Initiation Among HIV-Infected Patients With TB in Sub-Saharan Africa

Suzue Saito^{1,2}, Wafaa El-Sadr^{1,2}, Yael Hirsch-Moverman¹, Faiz A. Khan¹, Veronicah Mugisha¹, Zulmira de Silva¹, Batya Elul^{1,2}, Andrea Howard^{1,2}

¹ICAP, Columbia University, New York, NY, United States, ²Department of Epidemiology, Columbia University, New York, NY, United States

833 Antiretroviral Therapy Initiation and Tuberculosis (TB) Risk in the United States (US) and Canada

April Pettit', Adell Mendes², Sonia Napravnik³, Aimee Freeman², Bryan Shepherd¹, David Dowdy², Anita Rachlis⁴, Richard Moore², Timothy Sterling¹, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD)

Vanderbilt University, Nashville, TN, United States, Johns Hopkins University, Baltimore, MD, United States, YUniversity of North Carolina, Chapel Hill, NC, United States, Sunnybrook Health Sciences Center, Toronto, ON, Canada

Session P-R6 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Cryptococcal Disease

834 Prevalence of Cryptococcal Antigen Positivity Among AIDS Patients, United States From 1986-2012

Jennie L. McKenney¹, Sean Bauman², Brandon Neary³, Roger Detels¹, Audrey French¹, Joseph Margolick², Jeffrey D. Klausner⁶ ¹Epidemiology, University Ocalifornia, Los Angeles, Los Angeles, Los Angeles, CA, United States, ²Immuno-Mycologies, Inc., Norman, OK, United States, ²Immuno-Mycologies, Inc., Norman, OK, USA, ¹Infectious Diseases, John H. Stroger, Jr. Hospital, Chicago, It., United States, ⁵Molecular Microbiology and Immunology, Johns Hopkins University, Baltimore, MD, United States, ⁶Infectious Diseases, University of California, Los Angeles, Los Angeles, CA, United States

835 High Prevalence of Undiagnosed *Cryptococcus* at HIV Diagnosis Across the CD4 Spectrum in Durban

Paul K. Drain¹, Julia M. Kleene², Elena Losina¹, Sharon M. Coleman³, Janey Giddy⁴, Douglas Ross⁵, Jeffrey Katz⁶, Rochelle P. Walensky¹, Kenneth A. Freedberg¹, Ingrid V. Bassett¹

'Massachusetts General Hospital; Harvard Medical School, Boston, MA, United States,'Stony Brook School of Medicine, Stony Brook, NY, United States,'Boston University School of Public Health, Boston, MA, United States,'McCord Hospital, Durban, South Africa, St. Mary's Hospital, Durban, South Africa,'Brigham and Women's Hospital, Harvard Medical School, Boston, MA, United States

836 Monocyte Dysfunction Is Associated With 14-Day Mortality in Cryptococcal Meninigits

James Scriven¹, Lisa Graham¹, Charlotte Schutz¹, Robert Wilkinson¹, Britta Urban², Graeme Meintjes¹, David Lalloo²

*Institute of Infectious Diseases and Molecular Medicine, University

Institute of Infectious Diseases and Molecular Medicine, University of Cape Town, Cape Town, South Africa, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

837 Serum Biomarkers Following Induction Therapy for Cryptococcal Meningitis Predict Survival

Joshua Rhein¹, James Scriven², Kathy Huppler Hullslek², Maximilian von Hohenberg³, David B. Meya¹, Conrad Muzoora⁵, Graeme Meintjes⁵, David R. Boulware³, COAT Trial Team "University of Minnesota, Kampala, Uganda,²Uverpool School of Tropical Medicine, Cape Town, South Africa,²University of Minnesota, Minneapolis, MN, United States,¹Infectious Disease Institute, Kampala, Uganda,²Mbarara University of Science and Technology, Mbarara, Uganda,²University of Cape Town, Cape Town, South Africa.

338 Cryptococcal Antigenemia in Severely Immunocompromised HIV Patients in Rural Tanzania Matthias C. Müller¹. Alex J. Ntamatunoiro². Namyua Kimera².

Hansjakoh Furrer³, Manuel Battegay¹, Marcel Tanner¹, Christoph Hatz¹, David R. Boulware⁵, Tracy R. Glass¹, Emilio Letang¹ Swiss Tropical and Public Health Institute (Swiss TPH), Basel, Switzerland, ²Ifakara Health Institute (IHI), Ifakara, Morogoro, Tanzania, United Republic of ²Division of Infectious Diseases, University Hospital Bern, Bern, Switzerland, ⁵Division of Infectious Diseases and Hospital Epidemiology, University Hospital Basel, Basel, Switzerland, ⁵Division of Infectious Diseases & International Medicine, Department of Medicine, University of Minnesota, Minneapolis, Min, United States

Session P-R7 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Ols Other Than TB and Cryptococcal Disease

839 HSV-2 Serostatus Is Not Associated With Inflammatory or Metabolic Markers in ART-Treated HIV

Darrell Tan¹, Janet Raboud⁴, Leah Szadkowski³, Tae Joon YI⁴, Brett Shannon⁴, Rupert Kaul⁴, W. Conrad Liles³, Sharon Walmsley³ St. Michaels Hospital, Toronto, ON, Canada, ³Tornot General Research Institute, Toronto, ON, Canada, ³University Health Network, Toronto, ON, Canada, ¹University of Toronto, Toronto, ON, Canada, ¹University of Toronto, Toronto, Toronto, ON, Canada, ¹University of Washington, Seattle, WA, United States

840 Latent, Acute, or Neuro-Syphilis Does Not Increase HIV-1 Replication in Central Nervous System

Maximilian Donath¹, Timo Wolf², Annette Haber¹², Markus Bickel², Siri Göpel², Annemarie Berger³, Dimitria Bon⁴, Claudia Brandt⁵, Christoph Stephan²

'Goethe University Hospital, Frankfurt, Germany, Infectious Diseases, Goethe University Hospital, Frankfurt, Germany, Medical Virology Institute, Goethe University Hospital, Frankfurt, Germany, Bedical Microbiology Institute, Goethe University Hospital, Frankfurt, Germany

841 Early Impact of cART On the Risk of Herpes Zoster: Results From the FHDH-ANRS CO4

Sophie Grabar^{1,2}, Pierre Tattevin³, Hana Selinger-Leneman¹, Arnaud de la Blanchardière⁴, Christian Rabaud⁵, David Rey⁶, Vincent Daneluzzi⁷, Samuel Ferret⁸, Dominique Costagliola¹, Odile Launay⁹ "INSERM U943, Paris, France, Phópital Hôtel-Dieu, Unité Biostatistique et Epidémiologie, Université Paris Descartes, Paris, France, "Hôpital Pontchaillou, Rennes, France, CHU Caen, Caen, France, "INSERM U943, Nancy, France "CHU Strasbourg, Strasbourg, France," Hôpital Fourestier, Nanterre, France, "Hôpital St Louis, Paris, France," Hôpital Cochin, Paris, France

842 Antigen-Presenting Cells Ingest Malaria Parasites and Cause an Increase in HIV-1 Replication

Marika Orlov¹, Florin Vaida¹, Kathryn Williamson², Qianqian Deng¹, David Smith¹, Patrick Duffy³, Robert Schooley¹ School of Medicine, University of California San Diego, La Jolla, CA, United States ²Seattle Biomedical Research Institute, Seattle, WA,

United States, NIAID, NIH, Rockville, MD, United States Hocidence of AIDS-Defining Opportunistic Illnesses (ADOIs) Among Patients in North America

Kate A. Buchacz^T, Bryan Lau², Yuezhou Jing², Stephen J. Gange², John T. Brooks¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Johns Hopkins University, Baltimore, MD, United States

Session P-S1 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D
Reproductive Hormones in Women: Impact On Risk
and Barrier Dysfunction

844 Depot-Medroxyprogesterone Acetate Does Not Increase Genital SHIV Shedding in Macaques

Jessica Radzio¹, Krisztina Hanley², Debra Hanson¹, James Mitchell¹, Leecresia Jenkins¹, Shanon Ellis¹, Frank Deyounks¹, Walid Heneine¹, J. Gerardo Garcia-Lerma¹

¹Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Pathology, Emory University, Atlanta, GA, United States

845 Dysregulation of Estradiol Signaling Contributes To Mucosal Barrier Dysfunction HIV+ Women

Sumathi Sankaran-Walters¹, Anne Fenton¹, Chris Gaulke¹, Lauren Nagy¹, Irina Grishina¹, Jason Flamm², Thomas Prindiville³, Satya Dandekar¹

¹Medical Microbiology and Immunology, University of CA, Davis, Davis, CA, United States, ³Internal Medicine, Kaiser Permanente, Sacramento, CA, United States, ³Internal Medicine, University of CA, Davis, Sacramento, CA, United States

846 Hormonal Contraceptives Increase Innate Immune Effector Molecules in Cervicovaginal Secretions

Brandon L. Guthrie¹, Robert Y. Choi², Alison C. Roxby², Rose Bosire³, Barbara Lohman-Payne^{1,2}, Taha Hirbod⁴, Carey Farquhar^{1,2}, Kristina Broliden⁴

¹Department of Global Health, University of Washington, Seattle, WA, United States, ²Department of Medicine, University of Washington, Seattle, WA, United States, ²Center for Public Health Research, Kenya Medical Research Institute, Nairobi, Kenya, ⁴Department of Medicine Solna, Karolinska Institutet, Stockholm, Sweden

847 Injectable Contraception and HIV Acquisition in the VOICE Study (MTN-003)

Lisa M. Noguchi^{1,2}, Barbra Richardson³, Z. Mike Chirenje⁴, Gita Ramjee³, Gonasagrie Nair⁶, Thesla Palanee⁷, Pearl Selepe⁸, Ravindre Panchia⁹, Kailazarid Gomez¹⁰, Jeanne Marrazzo¹¹, on behalf of the VOICE Study Team

'Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, Microbicide Trials Network, Pittsburgh, PA, United States, 'SCHARP, Seattle, WA, United States, 'UZ-UCSF, Harare, Zimbabwe, 'MRC, Durban, South Africa, 'CAPRISA, Durban, South Africa, 'WIST Reproductive Health and HV Institute, Johannesburg, South Africa, 'Aurum Institute, Klerksdorp, South Africa, "PHRU, Soweb, South Africa," "FHI 360, Durham, NC, United States, 'University of Washington, Seattle, WA, United States

Session P-S2 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D

HIV in Women: Pregnancy, Progression, Pap, and Bones

848 Rapid Disease Progression in HIV-1 Subtype C Infected South African Women

Nigel J. Garrett', Lise Werner', Koleka Milsana¹², Lyle McKinnon¹, Francois van Loggerenberg¹³, Thumbi Ndung'u⁴, Clive Gray⁵, Lynn Morris¢, Carolyn Williamson⁵, Salim Abdool Karim¹² 'CAPRISA, Durban, South Africa.²Department of Medical Microbiology, University of KwaZulu-Natal, South Africa.³The Global Health Network, University of Oxford, United Kingdom,⁴HIV Pathogenesis Programme, Durban, South Africa.³Institute of Infectious Diseases and Molecular Medicine, Cape Town, South Africa.°Centre for HIV and STIs, Johannesburg, South Africa.°University of Columbia, New York City, NY, United States

849 Pregnancy Intentions Among HIV-Infected Women Seeking Antenatal Care in Cape Town, South Africa Tammy Phillips¹, Allison Zerbe², James McIntyre³, Greg Petro⁴,

Elaine Åbrams², Landon Myer¹

'Division of Epidemiology & Biostatistics, University of Cape Town, Cape Town, South Africa, ²ICAP, Columbia University, New York, NY, United States, ³Anova Health Institute, Johannesburg, South Africa, 'Division of Obstetrics & Gynaecology, University of Cape Town, Cape Town, South Africa

850 Effect of Antiretroviral Regimens On Bone Mineral Density of HIV Infected Lactating Ugandan Women Carolyne Onyango-Makumbi', Mike Mubiru', Prossy Ethel Namuli', Jane Ssebaggala', Joyce Matovu Namale', Mary Glenn Fowler'.² 'Makerere University - Johns Hopkins University Research Collaboration, Kampala, Uganda, ²Johns Hopkins University, Baltimore, MD, United States

851 Visual Inspection With Acetic Acid Is Good for Follow-Up After Cryotherapy in HIV-Infected Women

Elkanah O. Ömenge¹, Peter M. Itsura¹, Tao Liu², Hillary Mabeya¹, Astrid Christoffersen-Deb³, Sierra Washington⁴, Susan Cu-Uvin⁵ 'Reproductive Health, Moi University School of Medicine, Eldoret, Kenya⁻Biostatistics, Brown University/The Miriam Hospital, Providence, Rl, United States¸ Obstetrics and Gynaecology, University of Toronto, ON, Canada, Toronto, ON, Canada; 'Obstetrics and Gynaecology, Albert Einstein College of Medicine, Bronx, NY, United States, 'Obstetrics and Gynaecology, Brown University/The Miriam Hospital, Providence, Rl, United States

Session P-S3 Poster Session

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall D Immune Mediators and Immune Activation in Women

852 HIV Inhibition and Variation in Anti-Microbial Peptides Associated With Intercourse

J. D. Fortenberry¹, Mary A. M. Rogers², Krystle Fordyce², Steven R. King², David M. Aronoff³, Sari M. Van Anders²
"Pediatrics, Indiana University School of Medicine, Indianapolis, IN, United States, ²University of Michigan, Ann Arbor, MI, United States States, ³University, Nashville, TN, United States

853 Sex-Related Inflammatory Marker Changes Pre- and Post-ART Initiation

Jyoti S. Mathad¹, Nikhil Gupte², Ashwin Balagopal², David Asmuth³, James Hakim¹, Nagalingeswaran Kumarasamy⁵, Thomas Campbell⁵, Judith S. Currier³, Susan E. Cohn³, Amita Gupta², for the NWCS319 and ACTG 5175 PEARLS Study Teams

*Weill Cornell Medical College, New York, NY, United States, *Johns Hopkins University School of Medicine, Baltimore, MD, United States, *University of California Davis Medical Center, Sacramento, CA, United States, *University of Zimbabwe College of Health Sciences, Harare, Zimbabwe, *YRGCARE Medical Centre, Chennai, India, *University of Colorado at Denver, Denver, CO, United States, *David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States, *Northwestern University Feinberg School of Medicine, Chicago, IL, United States

854 Influence of RAL vs Boosted ATZ-based Regimens On Cervical Immune Reconstitution and Activation

Amie L. Meditz¹, Claire Palmer², Julie Predhommme³, Kristina Searls¹, Becky Kerr³, Patricia Caraway¹, Edward M. Gardner⁴, Samantha MaWhinney², Peter L. Anderson³ "Medicine, University of Colorado, Aurora, CO, United States, ²Biostatistics, University of Colorado, Aurora, CO, United States,

"Biostatistics, University of Colorado, Aurora, CO, United States, "Pharmacy, University of Colorado, Aurora, CO, United States, "Pharmacy, University of Colorado, Aurora, CO, United States, Denver Health Medical Center, Denver, CO, United States

Session P-S4 Poster Session Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall D

Immune Response To Vaccination in HIV+ Women

855 AMC 054: Safety and Immunogenicity of the Quadrivalent HPV Vaccine in Indian HIV-Infected Women

> Joel Palefsky¹, Selvamuthu Poongulali², Shelly Lensing³, Jeannette Lee³, Maria Da Costa¹, Arumugham Jeeva², Syed Iqbal², Nagalingeswaran Kumarasamy²

¹University of California San Francisco, San Francisco, CA, United States, ²YRGCARE Medical Centre, Chennai, India, ³University of Arkansas for Medical Sciences, Little Rock, CA, United States

856 B and T Cell Immune Responses To pH1N1 Monovalent Vaccine in HIV+ Pregnant Women in IMPAACT P1086

Adriana Weinberg¹, Petronella Muresan², Kelly Richardson¹, Terrence Fenton², Teresa Dominguez¹, Anthony Bloom³, Mark Abzug⁴, Myron Levin¹, Sharon Nachman⁵

Pediatric Infectious Diseases, University of Colorado Denver, Aurora, CO, United States, "Harvard School of Public Health, Boston, MA, United States," Frontier Science & Technology Research Foundation, Amherst, NY, United States, "The Children's Hospital, Aurora, CO, United States," State University of New York at Stony Brook, Stony Brook, NY, United States

Session P-T1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Clinical Outcomes of HIV-Exposed Uninfected Infants

857 Maternal CD4 and Infectious Risk for Uninfected Infants Born To HIV+ Mothers in a European Country Clement Taron-Brocard¹, Jerome Le Chenadec¹, Albert Faye^{2,3}, Catherine Dollfus⁴, Laurent Mandelbrot^{1,5}, Vincent Gajdos^{6,7}, Anais Perlihou¹, Jean-Marc Labaune⁸, Stephane Blanche^{3,0}, Josiane Warszawski^{3,1}, and the ANRS French Perinatal Cohort (ANRS CO1/

¹CESP INSERM U1018, Université Paris-Sud, Le Kremlin-Bicetre, France, ²Université Paris Diderot - Paris 7, Paris, France, ³AP-HP Hôpital Robert Debré, Paris, France, ⁴AP-HP Hôpital Trousseau, Paris, France, ⁵AP-HP Hôpital Louis Mourier, Colombes, France, ⁴AP-HP Hôpitaux Universitaires Paris-Sud, Clamart, France, ⁷Université Paris-Sud, Paris, France, ⁸Hôpital de la Croix Rousse, Lyon, France, ⁸AP-HP Hôpital Necker, Paris, France, ⁸EA 3620 Université Paris Descartes 5, Paris, France, ⁹AP-HP Hôpital Bicetre, Paris, France

858 Effect of Breastfeeding On Mortality and Morbidity in HIV-Exposed Un-Infected Children in Uganda

Carina Marquez¹, Jaffer Okiring², Gabriel Chamie¹, Jane Achan²³, Theodore Ruel¹, Abel Kakuru², Moses R. Kamya²³, Edwin D. Charlebois¹, Grant Dorsey¹, Diane V. Havlir¹

¹University of California, San Francisco, San Francisco, CA, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³Makerere University College of Health Sciences, Kampala, Uganda

859 Growth Differences in Infants Born To Perinatally vs. Non-Perinatally HIV-Infected Women

Jennifer Jao¹, Allison Agwu², Grace Mhango³, Annie Kim⁴, Kaye Park⁵, Roberto Posada⁶, Elaine J. Abrams⁷, Nancy Hutton⁸, Rhoda S. Sperlino⁹

'Medicine, Obstetrics Gynecology & Reproductive Science, Icahn School of Medicine at Mount Sinal, New York, NY, United States, 'Pediatrics, Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 'Medicine, Icahn School of Medicine at Mount Sinal, New York, NY, United States,' Icahn School of of Medicine at Mount Sinal, New York, NY, United States, 'Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States, Pediatrics, Icahn School of Medicine at Mount Sinai, New York, NY, United States, TCAP-Columbia University, Mailman School of Public Health, New York, NY, United States, Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD, United States, Obstetrics, Gynecology & Reproductive Science, Icahn School of Medicine at Mount Sinai, New York, NY, United States

860LB Four Year Cotrimoxazole Prophylaxis Prevents Malaria in HIV-Exposed Children: A Randomized Trial

Jaco Homsy¹, Grant Dorsey², Emmanuel Arinaitwe³, Humphrey Wanzira³, Abel Kakuru³, Victor Bigira³, Mary Muhindo³, Moses R. Kamya⁴, Taylor G. Sandison³, Jordan W. Tappero⁸ 'Global Health Sciences, University of California San Francisco, Ca. United States³, School of Medicine, University of California San Francisco, Ca. Q. United States infractious Diseases Research Collaboration, Kampala, Uganda, Medicine, Makerere University of School of Medicine, Kampala, Uganda, Medicine, Makerere University of School of Medicine, Kampala, Uganda, Medicine, University of Washington, Seattle, WA, United States⁶, Centers for

861 No Evidence of Neurodevelopmental Delay in HEU Infants Exposed To cART In Utero and Breastfeeding Mary Ngoma', Jessica Harper², Jennifer Hunter², Paige Church², Helene Cote³, Chisomo Selemani¹, Mulla Chandwe¹, Arianne Albert³, Marylou Smith², Michael Silverman²

Disease Control and Prevention, Atlanta, GA, United States

¹University of Zambia, Lusaka, Zambia, ²University of Toronto, Ajax, ON, Canada, ³University of British Columbia, Vancouver, BC, Canada

Session P-T2 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Neonatal Sequelae of In Utero ART Exposure

862 In Utero Exposure To Zidovudine and Neonatal Heart Abnormalities in the ANRS-EPF/PRIMEVA Studies

Jeanne Sibiude 12. Jørome Le Chenadee², Damien Bonnet^{3,4} Roland Tubiana^{2,8}, Laurent Mandelbrott³, Sandrine Delmas², Camille Runel Beliard⁸, Babak Khoshnood⁹, Josiane Warszawski^{10,11}, Stéphane Blanche^{2,13}, for the ANRS-French Perinatal Cohort/PRIMEVA Obstetrics and Gynecology, AP-HP, Höpital Louis Mourier, Colombes, France, CESP, INSERM UT018, Le Kremlin-Bicêtre, France, *Paediatric Cardiology M3C, AP-HP Höpital Necker, Paris, France, *Univ Descartes Paris S, Paris, France, *Infectiology, AP-HP Höpital Pitié Salpérière, Paris, France, *Pediatrics, Centre Hospitalier Pellegrin, Bordeaux, France, *Pediatrics, Centre Hospitalier Pellegrin, Bordeaux, France, *Person, UMR S93-S, Université Paris 6, Paris, France, **OESP, INSERM UT018, Univ Paris Sud, Le Kremlin-Bicêtre, France, **AP-HP Höpital Bicêtre, Le Kremlin-Bicêtre, France, **Pediatrics, AP-HP Höpital Bicêtre, Ice Kremlin-Bicêtre, France, **Pediatrics, AP-HP Höpital Bicêtre, France, **Fance, **Pediatrics, AP-HP Höpital Necker, Paris, France, *

863LB Congenital Anomalies and In Utero Antiretroviral Exposure in HIV-Exposed Uninfected Children

Paige L. Williams¹, Cenk Yildirim², Marilyn Crain³, Rohan Hazra⁴, Russell B. VanDyke⁵, Kenneth Rich®, Jennifer S. Read¹, Emma Stuard®, Mobeen Rathore®, D. Heather Watts®, for the Pediatric HIV/ AIDS Cohort Study

"Departments of Biostatistics and Epidemiology, Harvard School of Public Health, Boston, MA, United States,"Center for Biostatistics of MDS Research, Harvard School of Public Health, Boston, MA, United States, "Department of Pediatric Infectious Diseases, University of Alabama at Birmingham, Birmingham, AL, United States, "Matemal and Pediatric Infectious Disease Branch, National Institute of Child Health and Human Development, Bethesda, MD, United States, "Department of Pediatrics, Tulane University School of Medicine, New Orleans, LA, United States, "Department of Pediatrics, University of Illinois at Chicago, Chicago, IL, United States," Department of Pediatrics, George Washington University School of Medicine, Washington, DC, United States, "Department of Pediatric Infectious Disease, Bromx, Lebanon Hospital, Bronx, NY, United States, "University of Florida at Jacksonville, Acksonville, FL, United States," Office of the U.S. Global AIDS Coordinator, U.S. Department of State, Washington, DC, United States

865 Abnormal Fatty-Acid Oxidation in HIV-Exposed Uninfected Neonates in the United States

Brian Kirmse¹, Tzy-Jyun Yao², Sean Hofherr¹, Paige Williams², Deborah Kacanek², Rohan Hazra³, William Borkowsky⁴, Russell Van Dyke⁵, Marshall Summar¹ 'Genetics & Metabolism, Children's National Medical Center, Washington, DC, United States, 'Harvard School of Public Health, Boston, MA, United States, 'National Institutes of Health, Bethesda, MD, United States, 'Pediatrics, New York University School of Medicine, New York, NY, United States, 'Sulane University School of Medicine, New York, NY, LA, United States

Comparative Genotoxic Signatures in Cord Blood Cells From Neonates Exposed To AZT or TDF In Utero Alexandre Vivanti¹, Wendy Cuccuini^{2,3}, Sonia Luce¹, Tayebeh Soheili¹, Laurent Mandelbrot^{4,5}, Josiane Warszawski⁵, Jean Soulier^{3,6}, Marina Cavazzana^{1,7}, Isabelle André-Schmutz¹, Stéphane Blanche^{8,5} ¹Institut National de la Santé et de la Recherche Médicale (INSERM), U768, Université Paris Descartes, Sorbonne Paris Cité, Institut Imagine, Paris, France, Laboratoire d'hématologie, AP-HP, Hôpital Saint Louis, Paris, France,3 Institut National de la Santé et de la Recherche Médicale (INSERM), U944 and UMR7212, Hôpital Saint-Louis, Paris, France, Service de Gynécologie Obstétrique, Hôpital Louis Mourier, HUPNVS, AP-HP, Colombes, France,5INSERM U1018, CESP Centre for Research in Epidemiology and Population Health, Le Kremlin-Bicêtre, France, Laboratoire d'Hématologie, AP-HP, Hôpital Saint Louis, Paris, France, Département de Biothérapie, Hôpital Necker-Enfants Malades, Paris, France, Unité d'Immunologie-Hématologie Pédiatrique, Hôpital Necker-Enfants Malades, Paris, France, French Perinatal Cohort Substudy, Agence Nationale de Recherche sur le SIDA et les Hépatites

867 Risk Factors for Preterm Birth in Pregnant Women Randomized To Lopinavir - or Efavirenz-Based ART Catherine A. Koss', Paul Natureeba², Albert Plenty³, Flavia Luwedde², Julia Mwesigwa², Edwin Charlebois³, Tamara Clark', Bridget Nzarubara², Moses Kamya⁴, Diane Hawlir¹, Deborah Cohan⁵ 'Division of HIV/AIDS, University of California San Francisco, San Francisco, CA, United States, *Infactious Diseases Research Collaboration, Kampala, Uganda³ Center for AIDS Prevention Studies, University of California San Francisco, San Francisco, CA, United States, *Makerere University College of Health Sciences, Kampala, Uganda, *Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, United States

Virales (ANRS), Paris, France

Session P-T3 Poster Session
Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D
Pregnancy Incidence and Outcomes Among Women
in ART Programs

868 Incidence and Predicting Factors of Pregnancy Post-ART Initiation in 9 West African Countries Juan Burgos-Soto^{1,2} Eric Balestre^{1,2}, Albert Minga³, Samuel Ajayi⁴, Adrien Sawadogo⁵, Marcel D. Zannou⁶, Valériane Leroy^{1,2}, Didier K. Ekouevi^{2,7}, François Dabis^{1,2}, Renaud Becquet^{1,2}, IeDEA West Africa Collaboration

> "INSERM, Centre INSERM U897, Bordeaux, France, "Université Bordeaux Segalen, Institut de Santé Publique Epidémiologie Développement (ISPED), Bordeaux, France, "Centre Médical de Suivi de Donneurs de Sang (CMSDS), Abidjan, Côte d'hoire, 'University of Abuja Teaching Hospital (UATH), Abuja, Nigeria, "Hôpital de Jour, CHU Souro Sanou, Bobo Dioulasso, Burkina Faso," Centre de Prise en Charge des Personnes Vivant avec le VIH, CHNU, Cotonou, Benin, "Département des Sciences Fondamentales et Santé Publique, Faculté Mixte de Médecine et de Pharmacie, Université de Lomé, Lomé, Togo

869 Pregnancy and Retention or Progression To AIDS/ Death Post-ART in 9 West African Countries Albert Minga¹, Juan Burgos-Soto²², Fric Balestre²³, Benson Okwara⁴, Moussa Y. Maiga⁵, Akouda Patassi⁴, Eugène Messou³, Christian Wesje³, François Dabis²³, Renaud Becquet²², IeDEA West Africa Collaboration

'Centre Médical de Suivi de Donneurs de Sang (CMSDS), Abidjan, Côte d'Ivoire, 'INSERM, Centre INSERM U897 'Ejodémiologie disostatistique,'' Bordeaux, France 3 Université Bordeaux Segalen, Institut de Santé Publique Epidémiologie Développement (ISPED), Bordeaux, France, 'University of Benin Teaching Hospital (UBTH), Abuja, Nigeria, 'Service de Gastroenterologie, CHU Gabriel TOURE, Barnako, Mali, 'Centre Hospitalier Universitaire Sylvanus Olympo,

Lomé, Togo, Programme PAC-CI, CHU de Treichville, Abidjan, Abidjan, Côte D'Ivoire, Bandim Health Project, INDEPTH Network, Bissau, Guinea-Rissau

Session P-T4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Cellular and Immune Correlates of MTCT

870 Maternal HIV Envelope V3-Specific IgG Responses Are a Correlate of Risk of Perinatal Transmission Sallie P. Permar', Youyi Fong², Geneveive Fouda¹, Nathan A. Vandergrift¹, Peter Gilbert², Guido Ferrari¹, Munir Alam¹, Georgia D. Tomaras¹, Thomas N. Denny¹, Barton F. Haynes¹, Women and Infant Transmission Study Group

'Human Vaccine Institute, Duke University Medical Center, Durham, NC, United States, Fred Hutchinson Cancer Research Center, Seattle, WA. United States

Ontogeny of HIV-Targeted CD4+ T Cells During **Exclusive and Non-Exclusive Breastfeeding** Elizabeth J. McFarland¹, Tina Powell¹, Weiming Zhang², Carolyne Onyango-Makumbi3,4, Kelsey Melander5, Prossy Naluyima6, Samuel Okurut7, Michael A. Eller8,9, Mary Glenn Fowler10,11, Edward N. Janoff12 1Pediatric Infectious Diseases, University of Colorado School of Medicine, Aurora, CO, United States, Biostatistics and Informatics, Colorado School of Public Health, Aurora, CO, United States, MU-JUH Care LTD, Makerere University, Kampala, Uganda, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 5kags School of Pharmacy and Pharmaceutical Sciences, University of Colorado AMC, Aurora, CO, United States, Mulago Hospital Complex, Markerere University Walter Reed Project, Kampala, Uganda, Mulago Hospital Complex, Makerere University Walter Reed Project, Kampala, Uganda, US Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, United States, 10 Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 11 Johns Hopkins University Research Collaboration, Makerere University, Kampala, Uganda, 12 Mucosal and Vaccine Research Colorado (MAVRC), Division of Infectious Diseases, University of Colorado School of Medicine, Aurora, CO, United States

872 Infant Variants Require More CD4 for Entry Than Maternal Variants Regardless of Transmission Route Kyle J. Nakamura¹, Edwin R. Sobrera¹, Vicken Khatchadourian¹, Moses Sinkala², Chipepo Kankasa³, Donald M. Thea⁴, James I. Mullins⁵, Louise Kuhn⁵, Grace M. Aldrovandi¹ ¹Infectious Diseases, Children's Hospital Los Angeles, CA, United States, Catholic Medical Missions Board, Lusaka, Zambia, ³University Teaching Hospital, Lusaka, Zambia, *Boston University School of Public Health, Boston, MA, United States, *Department of Microbiology, University of Washington, Seattle, WA, United States, *Epidemiology, Columbia University, New York, NY, United States

Session P-T5 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Characteristics of Pregnant Women in PMTCT

873 HIV Viral Load and CD4 Cell Count in Untreated Pregnant Women Entering Care in Cape Town, South Africa

Landon Myer', Tamsin Phillips', Marvin Hsiao', Allison Zerbe³, James McIntyre', Linda-Gail Bekker³, Elaine Abrams³ Division of Epidemiology & Biostatistics, University of Cape Town, Cape Town, South Africa, Plvision of Virology, University of Cape Town, Cape Town, South Africa, Plvision of Virology, University, New York, NY, United States, Anova Health Institute, Johannesburg, South Africa, Possmond Tutu HIV Centre, University of Cape Town, Cape Town, South Africa

874 Detectable Viraemia Among Pregnant Women On Antiretroviral Therapy Initiating Antenatal Care Landon Myer', Tamsin Phillips¹, Allison Zerbe², Marvin Hsiao³, James Molntyre⁴, Elaine Abrams² 'Division of Epidemiology & Biostatistics, University of Cape Town, Cape Town, South Africa, 'ICAP, Columbia University, New York, NY, United States, ³Division of Virology, University of Cape Town, Cape Town, South Africa, ⁴Anova Health Institute, Johannesburg, South Africa

875 Steady Decline: Temporal Changes in Substance Use by HIV-Positive Pregnant Women in the US

Káthryn Rough¹, Katherine Tassiopoulos¹, Deborah Kacanek², Raymond Griner³, Ram Yogev⁴, Kenneth C. Rich⁵, George R. Seage¹, for the Pediatric HIV/AIDS Cohort Study

Department of Epidemiology, Harvard Śchool of Public Health, Boston, MA, United States, 'Center for Biostatistics in AIDS Research, Harvard School of Public Health, Boston, MA, United States,'Department of Epidemiology, Biostatistics, and Occupational Health, McGill University School of Medicine, Montreal, OC, Canada, 'Ann & Robert H. Lurie Children's Hospital, Chicago, IL, United States, 'University of Illinois at Chicago, IL, United States

Session P-T6 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Early Infant HIV Diagnosis

876 Modeling the Performance and Cost of Early Infant HIV Diagnosis at Birth

Intira J. Collins¹, Martina Penazzato², Dick Chamla², Anisa Ghadrshenas⁴, Teri Roberts⁵, Jennifer Cohn⁵, Nicole Ngo-Giang-Huong⁵, Nathan Shaffer², Meg Doherty², Lisa J. Nelson² 'MRC Clinical Trials Unit, London, United Kingdom;*HIV Department, World Health Organization, Geneva, Switzerland *JUNCEF, New York, NY, United States,*Clinton Health Access Initiative, Nairobi, Kenya; 'Médèclins sans Frontières, Geneva, Switzerland,'*Programs for HIV Prevention and Treatment (IRD-PHP), Chiang Mai, Thailand

877 Access To Early Infant Diagnosis and Antiretroviral Therapy in Abidjan, Côte d'Ivoire, 2011-2013

Divine Avit¹, Madeleine Folquet-Amorissani², Clarisse Amani-Bosse¹, Jeanne Eliam-Kouakou¹, Véronique Méa-Assandé³, Edmond Aka⁴, Irma Ahoba³, Didier K. Ekouévi³, Marquerite Timité-Konan², Valériane Leroy³. for the MOND ANRS 12206 Study Group 'Programme PACCI, Site AMRS, Projet Mond, Abidjan, Côte d'lvoire,³-Service de Pédiatrie, Centre Hospitalier Universitaire (CHU) Cocody, Abidjan, Côte d'lvoire,³-FSU Abobo-Avocatier, Programme PACCI, Site ANRS, Projet Mondo, Abidjan, Côte d'lvoire,²-Centre de Prise en Charge, de Recherche et de Formation (CePReF), Site Aconda-vs, Yopougn, Abidjan, Côte d'lvoire,³-National Program of HIV Care, Abidjan, Côte d'lvoire,²-Programme PACCI, Site ANRS, Abidjan, Côte d'lvoire,²-Service de Pédiatrie, Centre Hospitalier Universitaire (CHU) Yopougon, Abidjan, Côte d'Ivoire,³-Inserm U897, Bordeaux, France 'Bordeaux University, Bordeaux, France 'Bordeaux University, Bordeaux,

Session P-T7 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Risk Factors for MTCT

878 Impact of Maternal Incident HIV Infection On Early HIV Vertical Transmission, South Africa in 2011

Thu-Ha Dinh¹, Kevin Delaney¹, Debra Jackson², Selam Woldesenbet³, Yogan Pillay¹, Ameena Goga⁵ 'Centers for Disease Control and Prevention, Atlatna, GA, United States,² 3School of Public Health, University of the Western Cape, Cape Town, South Africa, "South Africa Medical Research Council, Cape Town, South Africa, "National Department of Health, Pretoria, South Africa Medical Research Council, Pretoria, South Africa

879 Syphilis in HIV-Infected Mothers and Infants: Results From the NICHD/HPTN 040 Study

Nava Yeganeh¹, Heather Watts², Margaret Camarca³, Esau Joao⁴, Jose Henrique Pilotto⁵, Glenda Gray⁵, Gerhard Theron⁻, Valdllea G. Veloso⁵, Lynne M. Mofenson², Karin Nielsen-Saines¹, NICHD HPTN 040/P1043 Study Team

Department of Pediatrics, David Geffen School of Medicine, Los Angeles, CA, United States, "Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, United States," Westat, Rockville, MD, United States, "Hospital Federal dos Servidores do Estado, Rio De Janeiro, Brazil," Hospital Geral de Nova Iguaçu, Nova Iguaçu and Laboratório de AIDS e Imunologia Molecular, Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, ^sPerinatal HIV Research Unit, Johannesburg, South Africa, ^rStellenbosch University, Cape Town, South Africa, ^sFundacao Oswaldo Cruz, Rio De Janeiro, Brazil

880 Antiretroviral Adherence Associated With Reduced Breastmilk HIV-1 Transmission: The BAN Study

Nicole L. Davis¹, William C. Miller², Michael G. Hudgens³, Charles S. Chasels¹, Dorothy S. Sichali¹, Dumbani Kayira', Altena P. Korutis³, Sascha R. Ellington¹, Denise J. Jamieson¹, Charles M. van der Horst¹ ¹-Epidemiology, University of North Carolina at Chapel Hill, NC, United States, ¹-Ilonsteity of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ¹-Ilonsteity of North Carolina Project, Lilongwe, Malawi, ¹-Division of Reproductive Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, §-Medicine, University of North Carolina at Chapel Hill, NC, United States

881 Cytomegalovirus and Possibly Epstein-Barr Virus in Breast Milk May Facilitate HIV-1 Transmission

Johannes Viljoen¹, Édouard Tuaillon², Nicolas Nagot², Siva Danaviah¹, Marianne Peries², Prevashinee Padayachee¹, Vincent Foulongne², Ruth Bland¹, Nigel Rollins³, Marie-Louise Newell¹, **Philippe Van de Perre**²

¹Africa Centre for Health and Population Studies, University of KwaZulu-Natal, Durban, South Africa, ²CHBU de Montpellier, Département de Bactériologie-Virologie, Université Montpellier 1, Montpellier, France, ³Department of Paediatrics & Child Health, University of KwaZulu-Natal, Durban, South Africa

Session P-T8 Poster Session

Thursday March 6, 2014, 2:30 PM—4:00 PM Exhibit Hall D PMTCT Approaches: Implementation and Outcome

- 882 Programmatic Implementation of WHO Option B in Botswana Associated With Increased Projected MTCT Scott Dryden-Peterson¹2, Sajin Souda³, Rebecca Zash²⁴, Jennifer Chen⁵, Chipo Petlo⁵, Eldah N. Dintwa⁵, Refeltetswe Lebelonyane⁵, Mompati Mmalane², Shahin Lockman¹², Roger L. Shapiro²⁴ 'Department of Medicine, Brigham & Women⁵ Hospital, Boston, MA, United States, Botswana Harvard AIDS Institute, Gaborone, Botswana, 'Department of Medicine, Beth Israel Deaconses Medical Center, Boston, MA, United States, Department of Medicine, Massachusetts General Hospital, Boston, MA, United States, "Ministry of Health, Gaborone, Botswana
- Impact of Option B+ On Uptake, Retention, and Transmission: A Pre/Post Study in Lilongwe, Malawi Maria H. Kimi^{1,2}, Saeed Ahmedi^{1,2}, Peter N. Kazembe², Mina C. Hosseinipour^{3,4}, Thomas P. Giordano⁵, Elizabeth Y. Chiao⁵, Xiaoying Yu⁵, Debora Nanthuru², Mary E. Paul¹, Elaine J. Abrams² 'Baylor College of Medicine, Pexas Children's Hospital, Houston, TX, United States, Baylor College of Medicine-Abbott Fund Children's Clinical Center of Excellence, Lilongwe, Malawi, *UnK Project, Lilongwe, Malawi, *Unkersity of North Carolina School of Medicine, Chapel Hill, NC, United States, *Department of Medicine, Baylor College of Medicine, Houston, TX, United States, *Epidemiology Center, Baylor College of Medicine, Houston, TX, United States, *ICAP, Maliman School of Public Health, Columbia University, New York, NY, United States

884 Home, Antenatal Clinic or VCT: Preferences of Pregnant Women and Their Partners for Male HIV Testing

Alfred Osoti^{1,2}, Grace John-Stewart², James Kairie⁴, John Kinuthia^{4,5}, Barbra Richardson⁴, Daisy Krakowiak¹, Carey Farquhar⁸ 'Epidemiology, University of Washington, Seattle, WA, United States, Obstetrics and gynecology, University of Nairobi, Nairobi, Kenya, 'Epidemiology, Pediatrics, Medicine, Global Health, University of Washington, Seattle, WA, United States, 'Obstetrics and Gynecology, University of Nairobi, Nairobi, Kenya, 'Flesearch, Kenyatta National Hospital, Nairobi, Kenya, 'Epidemiology, Medicine, Global Health, University of Washington, Seattle, WA, United States

885 Early Infection Among Ugandan HIV-Exposed Infants Whose Mothers Received Option B+ vs Option A

Julie N. Mugerwa'. Zikulah Namukwaya', Adeodata Kektilinwa'.a', Albert Maganda', Racheal Ayanga', Ayoub Kakande', Joyce Matovu', Josaphat Byamugisha', Godfrey Esiru', Mary G. Fowler'.a' PMTCT, Makerere University-Johns Hopkins Research Collaboration (MU-JHU), Kampala, Uganda, Baylor College of Medicine Children's Foundation-Uganda, Kampala, Uganda', Pediatrics and Child Health, Makerere University College of Health Sciences, Kampala, Uganda', Obstetrics and Gynaecology, Makerere University College of Health Sciences, Kampala, Uganda, Uganda', Obstetrics and Gynaecology, Makerere University College of Health Sciences, Kampala, Uganda', Dunited States

886 Lay Health Worker Support To Strengthen PMTCT: A Randomised Controlled Trial in South Africa

Kathryn Stinson¹, Debbie van Zyl², Hlengiwe Mdebuka¹, Jean-Pierre Zeelie², Christopher J. Colvin¹, Leigh F. Johnson¹, David Coetzee¹, Helen Schneider³

¹Centre for Infectious Disease Epidemiology & Research, University of Cape Town, Observatory, South Africa, ²Community Media Trust, Cape Town, South Africa, ³University of the Western Cape, Cape Town, South Africa

Session P-T9 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D ART Pharmacokinetics During Pregnancy and Breast-Feeding

887 Low Darunavir Exposure During Pregnancy With 800/100 mg Darunavir/r QD Dosing

Angela Colbers¹, José Moltó², Jelena Ivanovic³, David Hawkins⁴, Tariq Sadiq⁵, Kabamba Kabeya⁶, Andrea Gingelmaier⁷, Katharina Weizsäcker⁸, Graham Taylor⁹, David Burger¹

'Department of Pharmacy, Radboud University Medical Center, Nijmegen, Netherlands, ""Lluita contra la Sida" Foundation, Hospital Universitati Germans Trias i Pujol, Badalona, Spain, "National Institute for Infectious Diseases "L. Spallanzani," Rome, Italy, "Chelsea & Westminster Hospital, London, United Kingdom, "Sti George's Hospital, London, United Kingdom, "Saint-Pierre University Hospital, Brussels, Belgium," Frauenklinik Innenstadt, Klinikum der Universität München, München, Germany, "Klinik für Geburtsmedizin, Charité Universitätsmedizin, Berlin, Germany," Imperial College Healthcare NHS Trust, London, United Kingdom

888 Pharmacogenetics of Efavirenz Excretion Into Human Breast Milk and Transfer To Breastfed Infants

Adeniyi Olagunju^{1,2}, Marco Siccardi¹, Ogechi Okafor³, Oluseye Bolaji², Saye Khoo¹, Andrew Owen¹

¹University´ of Liverpool, Liverpool, United Kingdom,²Obafemi Awolowo University, Ile-Ife, Nigeria,³Bishop Murray Medical Centre, Makurdi, Nigeria

889 Safety, Efficacy, and PK of Atazanavir/Ritonavir (300/100 mg QD) in HIV+ Pregnant Women Cohort Minh P. Lê; Charlotte Charpentier², Cathia Soulie³, Houria Ichou⁴, Julien Potier¹, Roland Tubiana⁸, Sophie Matheron⁶, Roland Landman⁶,

Laurent Mandelbrot', Gilles Peytavin'
'Laboratoire de Pharmacologie, AP-HP, Groupe Hospitalier BichatClaude Bemard, HUPNVS, Paris, France, 'Laboratoire de Virologie, AP-HP, Groupe Hospitalier Bichat-Claude Bemard, HUPNVS, Paris, France, 'Laboratoire de Virologie, AP-HP, Groupe Hospitalier PitiéSalpêtrière, Paris, France, 'Laboratoire de Microbiologie, AP-HP, Hôpital Louis Mourier, HUPNVS, Colombes, France, 'Service de Maladies Infectieuses et Tropicales, AP-HP, Groupe Hospitalier Pitié-Sapétrière, Paris, France, 'Service de Maladies Infectieuses et Tropicales, AP-HP, Groupe Hospitalier Bichat-Claude Bemard, HUPNVS, Paris, France, 'Service de Oprécologie Obstétrique, AP-HP, Hôpital Louis Mourier, HUPNVS, Colombes, France

890 A Comparison of the Pharmacokinetics of Raltegravir During Pregnancy and Postpartum

Maren Blonk[†], Angela Colbers[†], Carmen Hidalgo-Tenorio², Katharina Welzsäcker³, José Moltó[†], David Hawkins[‡], Marchina van der Ende⁵, Andrea Gingelmaier^{*}, Graham Taylor⁸, David Burger[†], PANNA Network [†]Department of Pharmacy, Radboud University Medical Center, Nijmegen, Netherlands, ²Hospital Universitario Virgen de las

Nieves Granada, Granada, Spain ¾Klinik für Geburtsmedizin, Charité Universitätsmedizin, Berlin, Germany, "Lluita contra la Sida" Foundation, Hospital Universitari Germans Trias I Pujol, Badalona, Spaini, "Chelsea & Westminster Hospital, London, United Kingdom "Erasmus Medical Center, Rotterdam, Netherlands, Frauenklinik Innenstadt, Klinikum der Universität München, München, Germany, "Imperial College Healthcare NHS Trust, London, United Kingdom

891 Intensive Etravirine PK and HIV-1 Viral Load in Breast Milk and Plasma in HIV+ Women Receiving HAART LaShonda Y. Spencer¹, Siyu Liu², Chia-Hao Wang¹, Michael Neely¹, Stan Loule², Andrea Kovacs¹

Pediatric Infectious Diseases, Keck School of Medicine at University of Southern California, Los Angeles, CA, United States, University of Southern California School of Pharmacy, Los Angeles, CA, United States

892 Effective Exposure To Atazanavir During Pregnancy, Regardless of Tenofovir Use

Angela Colbers¹, David Hawkins², Carmen Hidalgo-Tenorio³, Marchina van der Ende⁴, Kabamba Kabeya⁵, Andrea Gingelmaier⁵, Katharina Weizsäcker³, John Lambert⁵, Jürgen Rockstroh⁵, David Burder¹⁰

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Session P-U1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D ART in Children and Adolescents

893 P1073: Immune Reconstitution Inflammatory Syndrome - Wide Spectrum and Severity in Children Mark F. Cotton¹, Hilda Mujuru², Raziya Bobat³, Boniface Njau⁴, Avy Violari⁵, Vidya Mave³, Charles Mitchell³, James Oleske³, Bonnie Zimmer³, Savita Pahwa¹o

Pediatrics & Child Health, Stellenbosch University, Tygerberg, South Africa, Pediatrics & Child Health, Stellenbosch University of Natal, Abrica, Pediatrics & Child Health, University of Natal, Durban, South Africa, *(Nilmanjaro Christian Medical Centre, Moshi, Tanzania, United Republic of, Pediatrics & Child Health, Perinatal HIV Research Unit, Tygerberg, South Africa, *BJ Medical College, Pune, India, *Pediatric Immunology, University of Miami, Miami, FL, United States, *Pediatrics & Child Health, New Jersey Medical School, Newark, NJ, United States, *Frontier Science & Technology Research Foundation, Amherst, NY, United States, *Opediatrics & Child Health, University of Miami Miller School of Medicine, Miami, FL, United States

894 sdNVP Exposure and ART Response in Children <3 Years Initiating ART in the ARROW Trial

Philippa Musoke¹, Victor Muslime², Kusum Nathoo³, Patricia Nahirya-Ntege⁴, Alexander J. Szubert⁵, Kuda Mutasa⁶, David E. Williams², Moira Spyer⁵, Ann Sarah Walker⁵, **Diana M. Gibb⁵**, and the ARROW Trial Team

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895 Virologic Response To Efavirenz vs Nevirapine-Containing ART in the ARROW Trial

Adeodata Kekitiinwa¹, Moira Spyer², Richard Katuramu³, Victor Musiime⁴, Tawanda Mhute⁵, Sabrina Kitaka¹, Oscar Senfuma⁴, Marshall Munjoma⁵, Ann Sarah Walker², Diana M. Gibb², and the ARROW Trial Team

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896 Growth Recovery Among HIV+ Children Randomized To Lopinavir/Ritonavir or NNRTI-Based Therapy

Theodore Ruel¹, Abel Kakuru², Gloria Ikilezi², Florence Mwangwa², Albert Plenty³, Edwin Charlebois³, Diane Havlir³, Moses Kamya⁴, Jane Achan⁵

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Session P-U2 Poster Session

Tuesday March 4, 2014, 2:30 PM—4:00 PM Exhibit Hall D HIV Drug Resistance and Tropism in Children and Youth

897 Prevalence and Predictors of HIV Drug Resistance Among US Children and Youth With Perinatal HIV

Russell B. Van Dyke¹, Kunjal Patel², Ron M. Kagan³, Shirley Traite⁴, William A. Meyer⁵, Katherine Tassiopoulos², George R. Seage², Lorna M. Seybolt⁸, Sandra Burchette⁷, Rohan Hazra⁸, and the Pediatric HIV/ AIDS Cohort Study

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898 HIV-1 Resistance After Randomized Virologic Switch at 1000 or 30,000 c/ml in Children

Linda Harrison¹, Diana Gibb², Susan Fiscus³, Yacine Saidi⁴, Eleni Nastouli³, Lynda Harper², Alexandra Compagnucci⁴, Abdel Babiker², Ann Melvin⁵, Gareth Tudor-Williams², and the PENPACT 1 (PENTA 9/PACTG 390) Study Team

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899 Longitudinal Evolution of Tropism in Perinatal HIV-1 Infection: The HICCUP Study

Caroline Foster', Steve Kaye', Colette Smith', Nicola Mackie' 1900 Clinic, Imperial College Healthcare NHS Trust, London, United Kingdom,'-Jefferies Trust Laboratory, Imperial College London, London, United Kingdom, 'Research Department of Infection and Population Health, University College London, London, United Kingdom,' Jefferies Wing, Imperial College Healthcare NHS Trust, London, United Kingdom

Session P-U3 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D ARV Pharmacokinetics, Pharmacogenetics, and Safety in Children and Adolescents

900 Rilpivirine Pharmacokinetics in HIV-1-Infected Adolescents: A Substudy of PAINT (Phase II Trial) Herta Crauwels¹, Annemie Hoogstoel¹, Simon Vanveggel¹, Wayne Yarnall², Marita Stevens¹, Katia Boven²

¹Janssen Infectious Diseases BVBA, Beerse, Belgium, ²Janssen Research & Development, LLC, Titusville, NJ, United States

901 Safety, Pharmacokinetics and Efficacy of Dolutegravir in Treatment-Experienced HIV+ Children

Rolando M. Viani¹, Carmelita Alvero², Terry Fenton², Edward Acosta³, Rohan Hazra⁴, Ellen O'Gara⁵, Barbara Heckman⁶, Debra Steimers⁷, Sherene Min⁷, Andrew Wiznia⁸

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902 Bioequivalence of Two Pediatric Formulations vs Adult Tablet Formulation of Elvitegravir

Joseph M. Custodio¹, Xiang Yin², Hiba Graham³, Mischa Hepner⁴, Lauren Wiser⁵, Erin Quirk³, Brian P. Kearney¹, Srinivasan Ramanathan¹

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903 CYP2B6 Polymorphisms Challenge Generalized FDA Efavirenz Dosing Guidelines in Children < 3 Yrs

Carolyn Bolton Moore', Edmund Capparelli², Pearl Samson³, Mutsa Bwakura-Dangarembizi⁴, Patrick Jean-Philippe⁵, Carol Worrell⁵, Barbara Heckmar², Lynette Purdue⁵, Stephen A. Spector², Ellen G. Chadwick³, IMPAACT P1070 team

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904 High Nevirapine and Low Lopinavir/Efavirenz Exposures in Resource-Poor Ugandan Children

Imke H. Bartelink', Rada M. Savio¹, Grant Dorsey², Henriette J. Scherpbier³, Edmund Capparelli⁴, Jane Achan⁵, Albert Plenty⁵, Moses Kamya⁵, Diane Havlir², Francesca T. Aweeka²

'Bioengineering and Therapeutic Sciences, University of California San Francisco, San Francisco, CA, United States, 'Medicine, University of California San Francisco, CA, United States, 'Pediatrics, Emma Childrens Hospital AMC, Amsterdam, Netherlands,' Center for Immunity, Infection & Inflammation, University of California San Diego, La Jolla, CA, United States, 'Medicine, The Makerere University, Kampala, Uganda,' Center for AlDS Prevention Studies, University of California San Francisco, San Francisco, CA, United States,' Clinical Pharmacy, University of California San Francisco, San Francisco, CA, United States

905 Bone and Renal Safety at 96 Weeks of TDF-Containing Regimens in HIV-Infected Thai Children

Wasana Prasitsuebsai¹, Thanyawee Puthanakit¹², Tanakorn Apornpong¹, Siriwan Keadpudsa¹, Torsak Bunupuradah¹, Thongsuai Chuanjaroen¹, Narukjaporn Thammajaruk¹, Thidarat Jupimai¹, Stephen J. Kerr¹³, Jintanat Anamworanich²² IHV-NAT, TRCARC, Bangkok, Thailand,²Faculty of Medicine, Chulalongkom University, Bangkok, Thailand,²The Kirby Institute,

University of New South Wales, Sdyney, Australia, HIV-NAT, SEARCH,

906LB Safety and Efficacy of Dolutegravir in HIV Treatment-Experienced Adolescents: 48-Week Results

TRCARC, Bangkok, Thailand

Rolando M. Viani*, Carmelita Alvero*, Terry Fenton*, Edward Acosta*, Rohan Hazra*, Ellen O'Gara*, Barbara Heckman*, Debra McCarty-Steimers*, Sherene Min*, Andrew Wiznia* 'University of California San Diego, La Jolla, CA, United States,*Harvard School of Public Health, Boston, MA, United States,*University of Alabama, Birmingham, Birmingham, AL, United States,*Eunice

Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, United States, 5 National Institutes of Health, NIAID, DAIDS, Bethesda, MD, United States, Frontier Science and Technology Research Foundation, Amherst, NY, United States, GlaxoSmithKline, Research Triangle Park, NC, United States, GSK, Research Triangle Park, NC, United States, Jacobi Medical Center, Bronx, NY, United States

907 Simulation and Exposure-Based Assessment of Pediatric Lopinavir Fixed-Dose Combination Product Saïk Urien¹, Naïm Bouazza¹, Frantz Foissac¹, Floris Fauchet¹, David

Burger², Jean-René Kiechel³, Edmund Capparelli⁴, Jean-Marc Tréluyer¹, Marc Lallemant³

Cochin Hospital, Paris, France,2Radboud University, Nijmegen, Netherlands, 3Drugs for Neglected Diseases Initiative, Geneva, Switzerland, University of California San Diego, La Jolla, CA, United States

908 Bioequivalence of Two Pediatric Formulations vs Adult **Tablet Formulation of Cobicistat**

Joseph M. Custodio¹, Xiang Yin², Hiba Graham³, Mischa Hepner⁴, Joanna Koziara⁵, Erin Quirk³, Brian P. Kearney¹, Sriniyasan Ramanathan1

¹Clinical Pharmacology, Gilead Sciences, Foster City, CA, United States, Biometrics, Gilead Sciences, Foster City, CA, United States,3 Clinical Research, Gilead Sciences, Foster City, CA, United States, 4 Clinical Operations, Gilead Sciences, Foster City, CA, United States, Formulations Process Development, Gilead Sciences, Foster City, CA, United States

qnq Pharmacokinetics, Efficacy, and Safety of an Integrase Inhibitor STR in HIV-Infected Adolescents

Aditya Gaur¹, Jan Fourie², Kulkanya Chokephaibulkit³, Linda-Gail Bekker⁴, Xiang Yin⁵, Joseph M. Custodio⁵, Sean R. Bennett⁵, Andrew Cheng⁵, Erin Quirk⁵

St Jude's Children's Research Hospital, Memphis, TN, United States,2 Mpati Medical Centre, Dundee, South Africa,3 Queen Siriraj Hospital, Bangkok, Thailand, Desmond Tutu HIV Centre, Cape Town, South Africa. Gilead Sciences, Inc. Foster City, CA, United States

Session P-U4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Host and Immune Response in Children and

Complex Pattern of Inflammatory Biomarkers After ART Initiation in HIV-Infected African Children

Nigel Klein1, Chipo Berejena2, Godfrey Pimundu3, Pietro Pala4, Tichaona Vhembo², Victor Musiime³, Philip Kasirye⁵, Hannah Poulsom1, Ann Sarah Walker6, Andrew J. Prendergast7, and the ARROW Trial Team

Institute of Child Health, London, United Kingdom, 2University of Zimbabwe, Harare, Zimbabwe, Joint Clinical Research Center, Kampala, Uganda, MRC/UVRI Uganda Research Unit on AIDS. Entebbe, Uganda, 5Baylor-Uganda, Kampala, Uganda, 6MRC Clinical Trials Unit at UCL, London, United Kingdom, Queen Mary University of London, London, United Kingdom

Preferential Preservation of Helios+Foxp3+ Regulatory T Cell Subset in HIV Infected Children

Guenet Degaffe, Ramia Zakhour, Weihe Zhang, German Contreras, Cynthia Bell, Gilhen Rodriguez, Gabriela Del Bianco, James Murphy, Gloria P. Heresi, Dat Q. Tran

Pediatrics, UT Health, Houston, TX, United States

912 Perturbation of Regulatory T Cell Subsets in HIV Infected Children

Alka Khaitan1, Mussa Mwamzuka2, Fatma Marshed2, Adam Kravietz3, Tiina Ilmet1, Swale Said2, Aabid Ahmed2, William Borkowsky1, Derya Unutmaz4

Pediatrics, Division of Infectious Diseases and Immunology, New York University School of Medicine, New York, NY, United States, 2Bomu Hospital, Mombasa, Kenya,3 Microbiology, New York University School of Medicine, New York, NY, United States, Microbiology, Pathology, Medicine, New York University School of Medicine, New York, NY, United States

913 Incomplete Immune Reconstitution in HIV-1-Infected **Children With Virological Suppression**

Paul Krogstad¹, Kunjal Patel², Brad Karalius², Mark Abzug³, James Oleske⁴, George Seage², Andrew Wiznia⁵, Rohan Hazra⁶, Russell Van Dyke7, for The Pediatric HIV/AIDS Cohort Study and NISDIInvestigators

1Pediatrics and Pharmacology, David Geffen School of Medicine, UCLA AIDS Institute, Los Angeles, CA, United States, 2 Harvard School of Public Health, Boston, MA, United States, 3University of Colorado/ Children's Hospital Colorado, Aurora, CO, United States, 4Rutgers University, Newark, NJ, United States, 5 Albert Einstein School of Medicine, Bronx, NY, United States, NICHD, Bethesda, MD, United States, Tulane University Health Sciences Center, New Orleans, LA. United States

914 Lower Inflammatory Biomarkers in Children Randomized To Prolonged Cotrimoxazole Prophylaxis

Andrew J. Prendergast¹, Mutsawashe Bwakura Dangarembizi² Victor Musiime3, Joseph Lutaakome4, Adeodata Kekitiinwa5, Godfrey Pimundu³, Annie Shonhai², Moira Spyer⁶, Nigel Klein⁷, **Ann Sarah Walker**⁶, and the ARROW Trial Team

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915 CD127 Expression On Naive T-Cells and HIV Replication in Youths Infected in the Perinatal Period

Daniel Scott-Algara¹, Jérôme Le Chenadec², Josiane Warszawski², Thomas Montange¹, Jean-Paul Viard³, Catherine Dollfus³, Véronique Avettand-Fenoel⁴, Christine Rouzioux⁴, Stéphane Blanche³, Florence

¹Virology, Institut Pasteur, Paris, France, ²CESP INSERM U1018, Le Kremlin-Bicêtre, France, 3AP-HP, Paris, France, 4EA3620, Université Paris Descartes, Paris, France

Session P-U5 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Complications of HIV and ART in Children and Adolescents

Pediatric HIV Infection and Dental Caries in the Era of Antiretroviral Therapy in West Africa

Noella Rajonson¹, David G. Meless², Boubacar Ba³, Malick Faye⁴, Jean-Serge Diby⁶, Serge N'zoré⁶, Sébastien Datté⁶, François Dabis¹, Shiboski Caroline⁷, **Elise Arrivé**¹

¹ISPED, Université Bordeaux Ségalen, Bordeaux, France, ²PACCI, Abidjan, Côte d'Ivoire,3CHU d'Odonto-Stomatologie, Bamako, Mali, 4Hopital d'Enfants Albert Royer, Dakar, Senegal, 5PMI Yopougon-Attié, Abidjan, Côte d'Ivoire, 6CCTOS, Abidjan, Côte d'Ivoire, Department of Orofacial Sciences, University of California San Francisco, San Francisco, CA, United States

917 Preclinical Atherosclerosis in Eastern Africa: Results From a Pediatric Ethiopian Cohort

Julia C. Rosebush¹, Rudolph L. Gleason², Alexander Caulk², Daniel Seifu3, Allison Eckard1, Workeabeba Taye4 Pediatric Infectious Diseases, Emory University, Atlanta, GA, United States, 2Biomedical Engineering, Georgia Institute of Technology, Atlanta, GA, United States, Biochemistry, Black Lion Hospital, Addis Ababa, Ethiopia, 4Pediatrics, Black Lion Hospital, Addis Ababa, Ethiopia

Insulin Resistance in HIV-Infected Youth Is Associated With Decreased Mitochondrial Respiration

Jody K. Takemoto¹, Jiajia Wang², Denise L. Jacobson², Tracie L. Miller3, Mitchell E. Geffner4, Russell B. Van Dyke5, Daniel E. Libutti Patricia Graham3, Mariana Gerschenson1, for the Pediatric HIV/AIDS

¹Cell and Molecular Biology, University of Hawaii, Honolulu, HI, United States,2 Harvard School of Public Health, Boston, MA, United States, 3University of Miami, Miami, FL, United States, 4Children's Hospital Los Angeles, Los Angeles, CA, United States, 5Tulane University Health Sciences Center, New Orleans, LA, United States

Adolescents

919 The Effect of Long-Term Zidovudine On Hematological Parameters in the ARROW Randomized Trial

Victor Muslime¹, Adrian Cook², Patricia Nahirya-Ntege³, Mutsawashe Bwakura-Dangarembiz¹¹, Adeodata Kekitiinwa⁵, Margaret Thomason², Richard Katuramu³, Philippa Musoke⁵, Ann Sarah Walker², Diana M. Gibb², and the ARROW Trial Team Volont Clinical Research Center, Kampala, Uganda ³MRC Clinical Trials Unit, London, United Kingdom ³MRC/UVRI Uganda Research Unit on AIDS, Enlebbe, Uganda ¹VIniversity of Zimbabwe, Harare, Zimbabwe; ₱3ylor-Uganda, Kampala, Uganda

920 Bone Quality Determination by Ultrasonometry in Young South African HIV-Infected Children

Stephen M. Arpadi', Stephanie Shiau', Jonathan J. Kaufman², Ashraf Coovadia³, Renate Strehlau¹, Francoise Pinillos³, Michael T. Yin' 'Columbia University, New York, NY, United States; Mount Sinai School of Medicine, New York, NY, United States; University of the Wiftwatersrand, Johannesburg, South Africa

Session P-U6 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Response To Early ART Initiation in Infants

922 Routine Antibody Tests Have No Place in Determining HIV Status After Early ART: Evidence From CHER

Helen Payne^{1,2}, Nonhlanhla Mkhize³, Lynn Morris³, Kennedy Otwombe⁴, Ravindre Panchia⁴, Avy Violari⁴, Nigel Klein¹, Abdel G. Babiker⁵, Mark F. Cotton², Diana M. Gibb⁵

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923 Different Profiles of HIV in Early Treated HIV-Infected Children Seronegative by ELISA in Cameroon

Mathurin C. Tejjokem¹, Anfumbom Kfutwah², Francis Ateba Ndongo³, Suzie Tetang Ndiang⁴, Ida Calixte Penda⁵⁵, William Mbanzouna⁻, Félicité Owona¹, Josiane Warszawski⁻³, Christine Rouziouw²³⁰, Alibert Faye¹¹¹¹²2

¹Service d'Épidémiologie et de Santé Publique, Centre Pasteur du Cameroun, Membre du Réseau International des Instituts Pasteur, Yaoundé, Cameroon, 2 Service de Virologie, Centre Pasteur du Cameroun, Membre du Réseau International des Instituts Pasteur. Yaoundé, Cameroon,3Unité de Jour, Centre Mère et Enfant, Fondation Chantal Biya, Yaoundé, Cameroon, Service de Pédiatrie, Centre Hospitalier d'Essos, Yaoundé, Cameroon, 5 Hôpital de Jour, Hôpital Laquintinie de Douala, Douala, Cameroon, Université de Douala, Faculté de Médecine et des Sciences Pharmaceutiques, Douala, Cameroon, EPF, Equipe 4 (VIH et IST), INSERM U1018 (CESP), Le Kremlin Bicêtre, France, Université de Paris Sud 11, Paris, France, Laboratoire de Virologie, Assistance Publique des Hôpitaux de Paris, Hôpital Necker, Paris, France,10 Université Paris Descartes, EA 3620, Paris, France,11 Pédiatrie Générale, Assistance Publique des Hôpitaux de Paris, Hôpital Robert Debré, Paris, France, 12 Université Paris 7 Denis Diderot, Paris Sorbonne Cité, Paris, France

924 Greater Virologic Control in Infants Initiated On ART Before 6 Months of Age

Stephanie Shiau¹, Ashraf Coovadia², Karl-Gunter Technau², Renate Strehlau², Leigh Martens², Francoise Pinillos², Elaine J. Abrams¹, Louise Kuhn¹

¹Columbia University, New York, NY, United States, ²University of the Witwatersrand, Johannesburg, South Africa

925 Early Viral Suppression Improves Neurocognitive Outcomes in HIV-Infected Children

Claudia S. Crowell¹, Yanling Huo², Katherine Tassiopoulos², Kathleen M. Malee³, Ram Yogev³, Rohan Hazra¹, Richard M. Rutstein⁵, Sharon L. Nichols®, Renee A. Smith¹, William J. Muller³, for the IMPAACT 219C Study Team and the PediatricHIV/AIDS Cohort Study "Pediatrics, University of Washington, Seattle, WA, United States," Epidemiology, Harvard School of Public Health, Boston, MA, United States." Northwestem University Feinberg School of Medicine,

Chicago, IL, United States, *National Institute of Child Health and Human Development, Bethesda, MD, United States, *Children's Hospital of Philadelphia, Philadelphia, PA, United States, *University of Califomia San Diego, La Jolla, CA, United States, *University of Illinois at Chicago, Chicago, IL, United States

926 Early Cytomegalovirus Viraemia and Clinical Outcomes of HIV-Infected Children in the Early ART Era

Nei-yuan Hsiao¹, Kennedy Otwombe², Landon Myer³, Avy Violari², Diana Gibb⁴, Ravindre Panchiar², Abdel Babiker⁴, Patrick Jean-Phillipe⁵, Mark Fredric Cotton⁶

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Session P-U7 Poster Session

Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall D Co-Infections and Treatment Responses in Children and Adolescents

927 Risk Factors Associated With TB in Children Receiving ART in a South African Multicenter HIV Cohort

Alana T. Brennan^{1,2}, Mhairi Maskew², Kate Schnippel², Ian Sanne^{1,2}, Lawrence Long², Matt P. Fox^{1,2}

'Center for Global Health & Development, Boston University, Boston, MA, United States, 'Health Economics and Epidemiology Research Office, Department of Internal Medicine, School of Clinical Medicine, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa

928 Hepatitis B Treatment Response To TDF in 3TC-Experienced Perinatally HIV-Infected Adolescents Linda Auroibul¹, Pagakrong Lumbiganon², Poge Kosalaraksa².

Rawiwan Hansudewechakul³, Pawinee Taeprasert³, Torsak Bunupuradah⁴, Thanyawee Puthanakit^{4,5}, **Khuanchai Supparatoinyo**¹

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929 T-Cell Senescence and CMV Positivity and Viremia Status in Perinatally HIV-Infected Children

Suad Kapetanovic¹, Lisa Aaron², Grace Montepiedra², Andrea Kovacs³

National Institute of Mental Health, National Institutes of Health, Bethesda, MD, United States, School of Public Health, Harvard University, Boston, MA, United States, Reck School of Medicine, University of Southern California, Los Angeles, CA, United States

Session P-U8 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Outcomes Among Adolescents: Perinatally and Behaviorally Acquired HIV Infection

930 Outcomes of Perinatally HIV-Infected Adolescents On Antiretroviral Therapy in Southern Africa

Mary-Ann Davies', Kathryn Stinson', Karl Technau^{2,3}, Sam Phirit', Helena Rabie⁵, Maureen Wellington⁶, Janet Giddy', Robin Wood^{8,3}, Lynne Mofenson¹⁰, Harry Moultrie^{11,2}, for International Epidemiologic Databases to Evaluate AIDS Southern Africa (leDEA-SA) 'School of Public Health and Family Medicine, University of Cape Town, Cape Town, South Africa, *Empliweni Services and Research Unit, Rahima Moosa Mother and Child Hospital, Johannesburg, South Africa, *University of Witwatersrand, Johannesburg, South Africa, *University of Witwatersrand, Johannesburg, South Africa, *University of Stellenbosch, South Africa, *University of Stellenbosch, South Africa, *University of Stellenbosch, South Africa, *Posmond Tutu HIV Centre, University of Cape Town, South Africa, *Tospital, Durban, South Africa, *Posmond Tutu HIV Centre, University of Cape Town, South Africa, *Vesuce Kennedy Shriver National Institute of Child Health and Human Development, Rockville, MD, United States, *University of States, *University of States, *University of States, *University of Cape Town, South Africa, *Vesuce Kennedy Shriver National Institute of Child Health and Human Development, Rockville, MD, United States, *University of States, *Univer

Reproductive Health and HIV Institute, University of Witwatersrand, Johannesburg, South Africa,¹²Harriet Shezi Children's Clinic, Chris Hani Baragwanath Hospital, Soweto, South Africa

931 Greater Early CD4 Responses To cART Initiation Not Maintained for Non-Perinatal Youth

Allison Agwu¹, Guy Mahiane², Bareng A. S. Nonyane³, Keri Althoff², Baligh Yehia⁴, Stephen Berry⁵, Richard Rutstein⁶, Kelly A. Gebo⁵, for the HIV Research Network

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932 Parental Absence From Clinic Predicts Virologic Failure in Adolescents in Botswana

Elizabeth Lowenthal.¹², Tafireyi Marukutira³, Ontibile Tshume³, Jennifer Chapman², Tebo Dipotso³, Omphile Lepodisi³, Keboletse Mokete³, Jean Nachega⁴⁵, Gabriel Anabwani³, Robert Gross^{5,7}
¹Pediatrics and Epidemiology, University of Pennsylvania Perelinan School of Medicine, Philadelphia, PA, United States, ²Ohldreir's Hospital of Philadelphia, Philadelphia, PA, United States, ³Botswana-Baylor Children's Clinical Centre of Excellence, Gaborone, Botswana, ⁵Stellenbosch University, Cape Town, South Africa-EUniversity of Pittsburgh, Pittsburgh, PA, United States, ⁵Medicine and Epidemiology, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, United States, ⁵Botswana-UPenn Partnership, Gaborone, Botswana

933LB ART De-Intensification To ATVr Monotherapy in Adolescents Sustains CD4 and Activation Responses

Bret J. Rudy¹, Bill Kapogiannis², Craig Wilson³, Allison Agwu⁴, Maureen Goodenow⁵, Carol Worell⁶, John W. Sleasman², Sue X. Li², James Bethel⁶, Kathleen Squires⁰

Pediatrics, NYU School of Medicine, New York, NY, United States; Pediatrics, National Institutes of Health, Bethesda, MD, United States; Pediatrics, National Institutes of Health, Bethesda, MD, United States; Division of Infectious Diseases, Johns Hopkins University of School of Medicine, Baltimore, MD, United States; University of Florida College of Medicine, Gainesville, FL, United States; Maternal and Pediatric Infectious Disease Branch, National Institutes of Health, Bethesda, MD, United States (Westat, Rockville, MD, United States; Internal Medicine/Infectious Diseases, Thomas Jefferson University, Philadelphia, PA, United States

934 Factors Associated With Successful Retention Among Non-Perinatally HIV-Infected Youth

Charles Farmer¹, Baligh Yehia², Richard Rutstein³, Stephen Berry⁴, Kelly Gebo², Allison Agwu³, for the HIV Research Network 'Johns Hopkins University School of Medicine, Baltimore, MD, United States, 'Department of Medicine, Division of Infectious Diseases, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States, 'Division of General Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA, United States, 'Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 'Department of Medicine, Division of Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 'Departments of Pediatrics & Medicine, Division of Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD, United States, 'Departments of Pediatrics' & Medicine, Division of Infectious Diseases, Johns Hopkins University School of Medicine, Baltimore, MD, United States

Session P-V1 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Pre-Clinical Studies of Microbicides

935 PCR as a Virological Endpoint for Testing Microbicide Efficacy in the Colorectal Explant Model Laura Janocko¹, Alexiy Nikiforov¹, Ian McGowan² ¹University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Medicine, University of Pittsburgh, Pittsburgh, PA, United States

936 Irreversible Inactivation and Breakdown of HIV1 With Env-gp120 Targeting Peptide Triazole Thiols

Arangassery Rosemary Bastian¹, Lauren D. Bailey², Diogo R. D. Moreira³, Kevin Freedman¹, Karyn McFadden³, Cattlin Dufty³, Ali Emillen³, Jefferey Jacobson', James A. Hoxie³, Irwin Chaiken² ¹Biomedical Engineering and Sciences, Drexel University, Philadelphia, PA, United States, ¹Biochemistry and Molecular Biology, Drexel University, Philadelphia, PA, United States, ¹Biomedical Engineering and Sciences, Federal University of Pernambuco, Refice-PE, Brazil, ¹Department of Mechanical Engineering and Mechanics, Drexel University, Philadelphia, PA, United States, ¹Department of Molecular Genetics and Microbiology, Duke University, Durham, NC, United States, ¹Thayer School of Engineering, Dartmouth College, Hanover, NH, United States, ¹Department of Medicine, Drexel University, Philadelphia, PA, United States, ¹Immunology, University of Pennsylvania, Philadelphia, PA, United States

937 Labyrinthopeptin A1 Demonstrates Potent and Dual Anti-HSV and Anti-HIV Activity

Geoffrey Férir¹, Mariya Petrova², Graciela Andrei¹, Robert Snoeck¹, Jos Vanderleyden², Roderich Süssmuth³, Mark Brönstrup¹, **Dominique Schols**¹

¹Rega Institute, Leuven, Belgium, ²Centre of Microbial and Plant Genetics, Leuven, Belgium, ³Technische Universität Berlin, Berlin, Germany

938 GSK1265744 Demonstrates Robust In Vitro Activity Against Various Clades of HIV-1

Sharon L. Karmon¹, Hiroshi Mohri¹, William Spreen², Zhi Hong², David Ho¹, Martin Markowitz¹

'Aaron Diamond AIDS Research Center, an affiliate of The Rockefeller

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Session P-V2 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Animal Models of Clinical Studies and PrEP

939 Does Tenofovir Gel Alter HIV Disease Progression in CAPRISA 004 Trial Seroconvertors?

Nigel J. Garrett¹, **Lise Werner**¹, Nivashnee Naicker¹, Thabile Mthembu¹, Vivek Naranbhai¹, Sengeziwe Sibeko¹, Natasha Samsunder¹, Carolyn Williamson², Quarraisha Abdool Karim^{1,3}, Salim Abdool Karim^{1,3}

AUGUOI RAIIII - 'CAPRISA, Durban, South Africa, 'Institute of Infectious Diseases and Molecular Medicine & the Division of Medical Virology, Cape Town, South Africa, 'Columbia University, New York City, NY, United States

940 Efficacy of Vaginal Gel Containing Tenofovir and Emtricitabine Against Rectal SHIV Transmission

Charles W. Dobard¹, Natalia Makarova¹, Rolieria West¹, Andrew Taylor¹, Chuong Dinh¹, Amy Martin¹, James Mitchell¹, Debra Hanson², Chou-Pong Pau¹, Walid Heneine¹ "HIV and prevention, Centers for Disease Control, atlanta, GA, United

¹HIV and prevention, Centers for Disease Control, atlanta, GA, United States, ²Quantitative Sciences and Data Management Branch, Centers for Disease Control, atlanta, GA, United States

941LB GSK1265744 Long-Acting Protects Macaques Against Repeated High-Dose Intravaginal Challenges

Chasity D. Andrews¹, William R. Spreen², Yun Lan Yueh², Agegnehu Gettie¹, Kasi Russell-Lodrigue³, Hiroshi Mohri¹, Cecilia Cheng-Mayer¹, Zhi Hong², David D. Ho¹, Martin Markowitz¹

¹Aaron Diamond AIDS Research Center, New York, NY, United States, ²GlaxoSmithKline, Research Triangle Park, NC, United States, ³Tulane National Primate Research Center, Covington, LA, United States

942 SHIV Infection Risk After Rectal Application of a Highly Osmolar Personal Lubricant

Sundaram A. Vishwanathan¹, Monica Morris², Charles Rose¹, Richard J. Wolitski¹, Leecresia Jenkins¹, Shanon Ellis¹, Michael Hendry¹, Janet M. McNicholl¹, Ellen N. Kersh¹ DHAP, CDC, Atlanta, GA, United States,²Total Solutions, Atlanta, GA, United States

Session P-V3 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Identifying and Reducing HIV Risk

943 Controlled Trial of an Internet-Based Risk Reduction Intervention in HIV+ Men Who Have Sex With Men Joel Milam', Sonia Jain', Eric Daar's Michael Dube', Edward Seefreid', Eric Ellorin', Gustavo A. Jimenez-Maggiora', Sheldon R. Morris', Richard H. Haubrich', CCTG 592 Team

'University of Southern California Keck School of Medicine, Los Angeles, CA, United States, ²UC, San Diego, San Diego, CA, United States, ²Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance, CA, United States

944 Changes in the Contribution (PAR%) of STIs To HIV Acquisition Among Kenyan FSWs From 1993 To 2012 Linnet Masese¹, Jared M. Baeten¹, Barbra A. Richardson¹, Susan M. Graham¹, Elizabeth Bukusi², Juma Shafi³, Walter Jaoko³, James Kiarie³, R. Scott McClelland¹

¹University of Washington, Seattle, WA, United States, ²KEMRI, Nairobi, Kenya, ³University of Nairobi, Nairobi, Kenya

945 Intervention To Reduce HIV/STI Among High-Risk Patients in China: Cluster Randomized Trial

Don Operario¹, Debin Wang², Mei-Fen Yang¹, Kathleen Blaney¹, Jing Cheng², Hong Qian², Hongbo Zhang², Gregory Szekeres³, Jerome Galea³, Thomas Coates³

¹School of Public Health, Brown University, Providence, RI, United States, ²Anhui Medical University, Hefei, China, ³University of California Los Angeles. Los Angeles. CA. United States

946 Validation of the Refined Denver HIV Risk Score Using a National HIV Testing Cohort

Jason Haukoos', Emily Hopkins', Meggan Bucossi', Michael Lyons², Richard Rothman³, Douglas White¹, Alia Al-Tayyib⁵, Lucy Bradley-Springer⁵, Allison Sabel², Mark Thrun⁵

Emergency Medicine, Denver Health Medical Center, Denver, CO, United States, Emergency Medicine, University of Cincinnati, Cincinnati, OH, United States, Emergency Medicine, Johns Hopkins University, Baltimore, MD, United States, Emergency Medicine, Highland Hospital, Oakland, CA, United States, Denver Public Health, Denver, CO, United States, University of Colorado School of Nursing, Aurora, CO, United States, Denver Health Medical Center, Denver, CO, United States

Session P-V4 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D PrEP, PEP, TasP

947 Cost Effectiveness of Antiretrovirals in HIV Control in Rural Zambia: A Stochastic League Approach Brooke E. Nichols¹, Rob Baltussen², Janneke H. van Dijk³, Phil E.

Brooke E. Nichols¹, Rob Baltussen², Janneke H. van Dijk², Phil E. Thuma³, Jan L. Nouwen⁴, Charles A. B. Boucher¹, David A. M. C. van de Viiver¹

"Viroscience, Erasmus Medical Center, Rotterdam, Netherlands, "Primary and Community Care, Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, "Macha Mission Hospital and Macha Research Trust, Macha, Zambia, "Medical Microbiology and Infectious Diseases, Erasmus Medical Center, Rotterdam, Netherlands

948 Darunavir(DRV)/r-Based PEP Versus Standard of Care (SOC) - the Randomized PEPDar Study

Gerd Fätkenheuer¹, Norma Jung³, Heiko Jessen³, Albrecht Stoehr⁴, Keikawus Arasteh⁵, Johannes Bogner⁴, Christoph Stephan⁴, Christoph D. Spinner⁴, Olaf Degen⁴, Britta Ranneberg¹o ¹Med. Einrichtungen der Universität Köln, Cologne, Germany²Klinik I für Innere Medizin, Med. Einrichtungen der Universität Köln, Cologne, Germany³Parxis Jessen, Berlin, Germany³Zentrum Infektiologie, iħ-institut für interdisziplinäre Medizin, Hamburg, Germany¸⁵Innere Medizin, Infektiologie und Gastroenterologie, Vivantes Augusteviktoria-Klinikum, Berlin, Germany¸⁵Medizinische Polikinik, Ludwigs-Maximilians-Universität, Munich, Germany¸⁵Zentrum der Inneren Medizin, Klinikum der Johann Wolfgang Goethe-Universität, Frankfurt, Germany¸Ğu, Medizinische Klinik und Polikinik, Klinikum rechts der Isar, München, Germany¸Öereich Infektiologie, Universitätsklinikum Eppendorf, Hamburg, Germany, "Öclinical Research, Janssen-Cilag, Neuss, Germany"

949 High Initiation of PrEP and ART in a Demonstration Project Among African HIV-Discordant Couples

Renée Heffron¹, Connie Celum¹, Nelly Mugo¹². Elly Katabira¹. Elizabeth Bukusi², Elioda Tumwesigye¹, Jessica Haberer³6, Jared Baeten¹, for the Partners Demonstration Project Team 'University of Washington, Seattle, WA, United States. Renya Medical Research Institute, Nairobi, Kempa Makerere University, Kampala, Uganda, Integrated Community Based Initiatives (ICOBI), Bushenyi, Uganda, Massachusetti General Hospital, Boston, MA, United States (Havard University, Boston, MA, United States

950 PrEP Is Efficacious for HIV Prevention Among Women Using DMPA for Contraception

Renee Heffron¹, Nelly Mugo¹², Edwin Were³, James Kiarie⁴⁵, Elizabeth Bukusi², Andrew Mujugira¹, Deborah Donnell¹⁵, Allan Ronald¹, Connie Celum¹, Jared Baeten¹, for the Partners PrEP Study Team

'University of Washington, Seattle, WA, United States, 'Kenya Medical Research Institute, Nairobi, Kenya, 'Mol University, Eldoret, Kenya, 'Kenyatta National Hospital, Nairobi, Kenya, 'University of Nairobi, Nairobi, Kenya, 'Fred Hutchinson Cancer Research Center, Seattle, WA, United States,' University of Manitoba, Winnipeg, MB, Canada

951 PrEP Interest, Uptake, and Adherence Among Young Men Who Have Sex With Men (YMSM) in the United States

Sybil Hosek¹, Jaime Martinez², Kristine Santos³, Megha Mehrotra⁴, Christopher Balthazar¹, Pedro Serrano¹, Kelly Bojan³, Robert Grant⁴, The Adolescent Medicine Trials Network for HIV/AIDS Interventions ¹Psychiatry, Stroger Hospital of Cook County, Chicago, IL, United States, ⁴Stroger Hospital of Cook County, Chicago, IL, United States, *Puth M. Rothstein CORE Center, Chicago, IL, United States, *Gladstone Institutes, San Francisco, CA, United States

952 Early Adopters: Correlates of Chemoprophylaxis Use in an Online Sample of US Men Who Have Sex With Men Kenneth H. Mayer^{1,2}, Catie Oldenberg^{1,3}, David Novak⁴, Douglas Krakower^{1,2}, Matthew Mimiagat^{3,3}

¹The Fenway Institute, Fenway Health/Harvard Medical School, Boston, MA, United States, ²Medicine, Beth Israel Deaconess Medical Center, Boston, MA, United States, ³Epidemiology, Harvard School of Public Health, Boston, MA, United States, ⁴Online Buddies, Cambridge, MA, United States

953 Measuring Intermittent and Daily PrEP Adherence by Hair Levels, Self-Report and MEMS Caps Openings Sanjiv M. Baxi¹, Albert Liu², Peter Bacchetti³, Gaudensia Mutua⁴,

Eduard Joachim Sanders⁶, Freddie M. Kibengo⁶, Jessica E. Haberer⁷, James Rooney⁸, Ennces Priddy⁹, Monica Gandhi¹ inflectious Diseases, University of California San Francisco, San Francisco, CA, United States, San Francisco Department of Public Health, San Francisco, CA, United States, Epidemiology & Biostatistics, University of California San Francisco, San Francisco, CA, United States, Kenya AIDS Vaccine Initiative, Nairobi, Kenya, Centre for Geographic Medicine Research Cost, Kliff, Kenya, Medical Research Council (MRC)/Uganda Virus Research Institute (UVRI), Entebbe, Uganda, Infectious Diseases, Center for Global Health, Boston, MA, United States, Siliead Sciences, Foster City, CA, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initiative, New York, NY, United States, International AIDS Vaccine Initia

954 Implementation of PrEP in STD Clinics: High Uptake and Drug Detection Among MSM in the Demonstration Project

Stephanie E. Cohen¹, Eric Vittinghoff², Peter Anderson³, Susanne Doblecki-Lewis⁴, Oliver Bacon¹, Wairimu Chege⁵, Richard Elion⁶, Susan Buchbinder², Michael Kolber⁴, Albert Liu²

Disease Prevention and Control, San Francisco Department of Public Health, San Francisco, CA, United States, "Department of Epidemiology and Biostatistics, University of Colifornia San Francisco, San Francisco, CA, United States,"University of Miami, Miami, FL, United States, "Prevention States, "University of Miami, Miami, FL, United States," Prevention Sciences Program, National Institutes of Health, Bethesch, MD, United States, "Whitman-Walker Health, Washington, DC, DC, United States, "Bridge HIV, San Francisco Department of Public Health, San Francisco, CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces of CA, United States, "Provinces of CA, United States," Provinces

955 High Medication Adherence Among HIV-1 Uninfected Women Experiencing Pregnancy in a PrEP Trial

Lynn T. Matthews^{1,2} Reinee Heffron³, Nelly R. Mugo^{3,4}, Craig R. Cohen⁵, Craig W. Hendrix⁶, Connie Celum^{3,5}, David R. Bangsberg¹, Jared M. Baeten^{3,7}, for the Partners PrEP Study Team 'Division of Infectious Disease & Center for Global Health, Massachusetts General Hospital, Boston, MA, United States, "Division of Infectious Disease, Beth Israel Deaconess Medical Center, Boston, MA, United States, "Department of Global Health, University of Washington, Seattle, WA, United States, "Department of Obstetrics and Gynecology, Kenyatta National Hospital, Nairobi, Kenya,"Department of Obstetrics, Gynecology, and Reproductive Sciences, University of California San Francisco, San Francisco, CA, United States, "Department of Medicine, Johns Hopkins University, Baltimor, MD, University of Washington, Seattle, WA, United States

956 Willingness To Use Pre-Exposure Prophylaxis Among Community-Recruited Injection Drug Users

Irene Kuo¹, Gregory L. Phillips², Manya Magnus², Jenevieve Opoku³, Anthony L. Rawls², James Peterson², Michael Kharfen³, Alan E. Greenberg²

'George Washington University School of Public Health and Health Services, Washington, DC, United States, 'Department of Epidemiology and Biostatistics, George Washington University School of Public Health and Health Services, Washington, DC, United States, 'HIV/AIDS, Hepatitis, STD and TB Administration, District of Columbia Department of Health, Washington, DC, United States

957 PrEP Does Not Diminish the Pregnancy Prevention Effectiveness of Hormonal Contraception

Pamela M. Murnane¹, Renee A. Heffron¹, Connie Celum¹, Elizabeth Bukusi², Deborah Donnell¹, James Kiarie², Nelly Mugo², Allan Ronald³, Edwin Were⁴, Jared Baeten¹

¹University of Washington, Seattle, WA, United States, ²University of Nairobi, Nairobi, Kenya, ³University of Manitoba, Winnipeg, MB, Canada, ⁴Moi University, Eldoret, Kenya

958 Uptake of Treatment as Prevention and Continuum of Care Among Men Who Have Sex With Men in Nigeria Christopher Akolo¹², Stefan Barai³, Julie Ake⁴, Sara Kennedy¹, Benjamin Emmanuel¹, Ifeanyi Orazulike⁵, Marc Boulay⁶, Babajide Keshinro⁴, William Blattner¹, Manhattan Charurat¹ "Institute of Human Virology - University of Maryland School of Medicine, Baltimore, MD, United States, "Institute of Human Virology -Nigeria, Abuja, Nigeria,"JHSPH, Epidemiology, Baltimore, MD, United

'Institute of Human virology - Unwersity of Manyand School of Medicine, Baltimore, MD, United States, 'Institute of Human Virology - Nigeria, Abuja, Nigeria, JHSPH, Epidemiology, Baltimore, MD, United States, 'U.S Military HIV Research Program, Silver Spring, MD, United States, 'International Centre for Advocacy on Rights to Health, Abuja, Nigeria, JHSPH, Health, Behavior, and Society, Baltimore, MD, United States

959LB FEM-PrEP: Participant Explanations for Non-Adherence

Amy Corneli^{*}, Brian Perry^{*}, Kawango Agot^{*}, Khatija Ahmed^{*}, Kevin McKenna^{*}, Fulufhelo Malamatsho^{*}, Jacob Odhiambo^{*}, Joseph Skhosana^{*}, Lut Van Damme^{*}, FEM-PrEP study team 'Social and Behavioral Health Sciences, FHI 360, Durham, NC, United States, ^{*}Impact Research and Development Organization, Kisumu, Kenya, ^{*}Setshaba Research Centre, Pretoria, South Africa, ⁴The Bill & Melinda Gates Foundation, Seattle, WA, United States

960 Prevention of HIV Transmission With Post-Exposure Prophylaxis After Infected-Blood Transfusion

Sami H. Al Hajjar', Husn H. Frayha', Mohammad Al Hazmi', Reem Batawi', Kenneth McIntosh', Paul E. Sax', Emily Hanhauser', Daniel R. Kuritzkes', Jonathan Z. Lif-, Timothy J. Henrich' 'King Falsal Specialist Hospital & Research Center, Riyadh, Saudi Arabia, 'King Fahad Central Hospital, Jazan, Saudi Arabia, 'Boston Children's Hospital, Harvard Medical School, Cambridge, MA, United States, 'Brigham and Women's Hospital, Harvard Medical School, Daston, MA, United States, 'Brigham and Women's Hospital, Harvard

Medical School, Cambridge, MA, United States 961 Contingency Management Facilitates PEP Completion Among Stimulant-Using MSM

Raphael J. Landovitz¹, Jesse B. Fletcher², Steve Shoptaw³, Cathy J. Reback²

¹Center for Clinical AIDS Research & Education, University of California, Los Angeles, Los Angeles, CA, United States, ²Friends Community Center, Friends Research Institute, Los Angeles, CA, United States, ³Family Medicine, University of California, Los Angeles, Los Angeles, CA, United States

Session P-V5 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Circumcision

962 Male Circumcision: Association With HIV Prevalence, Knowledge, and Attitudes Among Women

Bertran Auwert!, Pascale Lissouba², Dirk Taljaard³, Gilles Peytavin⁴, Beverley Singh⁵, Adrian Purenª 'University of Versailles, Wilejuif, France,²INSERM, Villejuif, France,³CHAPS, Johannesburg, South Africa,⁴APHP, Paris, France,³NHLS-NICD, Johanneburg, South Africa,⁴NHLS-NICD, Johannesburg. South Africa,

963 Lower Odds of HIV Among Circumcised MSM in China and Interaction With Anal Sexual Role

Han-Zhu Qian¹, Yuhua Ruan², Yu Liu¹, Douglas F. Milam¹, Hans M. L. Spiegel³, Lu Yin¹, Yiming Shao², Sten H. Vermund¹ "\anderbit University, Nashville, TN, United States,²Chinese Center for Disease Control and Prevention, Beijing, China,³HJF-DAIDS, Bethesda, MD, United States

964 Client Experiences of Odor Associated With PrePex™ Device Male Circumcision in Botswana

Adrian Musiige¹, Tigistu A. Ashengo², Lesego Busang³, Kenanao Motlhoiwa¹, Alex Chipara⁴, Galina Stolarsky¹, Frank Mwangemi³, Conrad Ntsuape⁵

¹Jhpiego, Gaborone, Botswana, ²Jhpiego and Johns Hopkins University School of Public Health, Baltimore, MD, United States, ²African Comprehensive HIV/AIDS Partnerships (ACHAP), Gaborone, Botswana, ⁴Ministry of Health, Gaborone, Botswana, ⁵Ministry of Health of Botswana, Gaborone, Botswana

965 Penile Cytokines Correlate With HIV Target Cells and Decrease After Circumcision in Rakai, Uganda

Jessica L. Prodger', Brett Shannon', Kamnoosh Šhahabi', Xiangrong Kong', Cindy M. Lius', Lance Pricests, Godfrey Kigozie, David Serwadda', Ronald H. Gray', Rupert Kaul'

'Department of Medicine, University of Toronto, Toronto, ON, Canada, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, Department of Pathology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, Department of Environmental and Occupational Health, George Washington University, Washington, DC, United States, Center for Microbiomics and Human Health, TGen, Flagstaff, AZ, United States, Flakai Health Sciences Program, Rakai,

966 HIV Shedding From Male Circumcision Wounds in Rakai, Uganda

Aaron Å. Ř. Tobian¹, Jordyn G. Manucci¹, Godfrey Kigozi², Mary K. Grabowski¹, David Serwadda², Ronald H. Gray¹, Fred Nalugoda², Anthony Ndyanabo², Thomas C. Quinn³, Maria J. Waver¹ ¹Johns Hopkins University, Baltimore, MD, United States,²Rakai Health Sciences Program, Entebbe, Uganda,²National Institutes of Health, Bethesda, MD, United States

Session P-W1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Cascade of Care and Testing

967 Finding Unawares: High Levels of Undiagnosed HIV Infection Among Moscow Men Who Have Sex With Men Andrea L. Wirtz'a, Carla E. Zelaya*, Noya Galal³, Alena Peryshkina*, Vladimir Moguilnyi⁴, Petr Dzhigun⁴, Irina Kostetskaya*, Carl Latkin⁵,

'Emergency Medicine, Johns Hopkins Medical Institute, Baltimore, MD, United States, 'Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, United States, 'Epidemiology, Johns Hopkins School of Public Health, Johns Hopkins Medical Institute, Baltimore, MD, United States, 'AIDS Infoshare, Moscow, Russian Federation,' Health, Behavior, and Society, Johns Hopkins School of Public Health, Baltimore, MD, United States

968 Increases in HIV Testing Among MSM: US National HIV Behavioral Surveillance System, 2008-2011

Laura A. Cooley, Alexandra M. Öster, Cyprian Wejnert, Binh C. Le, Charles E. Rose, Gabriela Paz-Bailey Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States

Feasibility of HIV Self-Test Vouchers To Raise Community-Level Serostatus Awareness, Los Angeles Robert Marlin', Sean Young', Grey Wilson', Jeffrey P. Rodriguez^a, Joe Montes⁴, Jose Ortiz⁵, Rhea Mathew⁶, Zoe Glick⁶, Jeffrey D.

'David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, United States, 'Reach LA, Los Angeles, CA, United States, 'I-A Gay & Lesbian Center, Los Angeles, CA, United States, 'Bienestar, Los Angeles, CA, United States, 'University of California Los Angeles, Los Angeles, CA, United States, 'Brentwood School, Los Angeles, CA, United States

970 Availability, Accessibility, Price of Rapid HIV Self-Tests, New York City Pharmacies, Summer 2013

Julie E. Myers¹², Olivia El-Sadr Ďavis³, Elliott R. Weinstein³, Molly Remch³, Amy L. Edelstein⁴, Blayne H. Cutler¹, Julia A. Schillinger^{4,5} Elbueau of Hill/AlloS Prevention and Control, New York City Department of Health and Mental Hygiene, Queens, MY, United States; Department of Medicine, Division of Infectious Diseases, Columbia University Medical Center, New York, NY, United States; Health Research Training Program, New York City Department of Health and Mental Hygiene, Queens, NY, United States; New York Medical College, Valhalla, NY, United States; Bureau of STD Prevention and Control, New York City Department of Health and Mental Hygiene, Queens, NY, United States; Pureau of STD Prevention and Control, New York City Department of Health and Mental Hygiene, Queens, NY, United States; Pursion of STD Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States

971 Acceptability & Affordability of Self HIV Testing in an Urban Neighborhood With 3% Seroprevalencee Amy Nunn¹, Philip Chan¹, Caitlin Towey¹, Joanna Poceta¹, Sophie

Feller², Stacey Trooksin³

*Division of Infectious Diseases, Warren Alpert Medical School of Brown University, Providence, RI, United States, *Jefferson Medical Collage, Philadelphia, PA, United States,*Drexel University College of Medicine, Philadelphia, PA, United States

972 Getting To Zero: HIV Testing and Counselling in Kenya -Results From a Population-Based Survey

Anne Nganga¹, Wanjiru Waruiru², Carol Ngare¹, Victor Ssempijja³, Patricia Oluoch⁴, Inviolata Njoroge⁵, Thomas Gachuki⁶, William Maina¹, Rex Mpazanje², Andrea A. Kim³

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973 Counselor Based Versus Integrated Routine HIV Screening in a Urban Emergency Department

Georgina Osorio¹, Anca Giurgiulescu¹, Zachariah Hennessey¹, Andrea Wood², Daniel Egan³, Dan Wiener², Rituparna Pati¹, Victoria Sharr¹

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974 Low Feasibiliy Rate of Self Testing With a Finger-Stick Whole Blood Test

Guillaume Gras¹, Pascal Le Bret², Jean Francois Dailloux², Gwenael Le Moal³, Aurelia Raoult¹, Gaelle Fajole⁵, Penelope Hodges⁵, Claire Poirier¹, Frédéric Bastides¹, Louis Bernard¹

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975 Estimating the Size of the Undiagnosed HIV Population in the Netherlands by Disease Stage

Ard van Sighem¹, Fumiyō Nakagawa², Daniela Bezemer¹, Daniela De Angelis², Eline Op de Coul², Matthias Egger³, Frank de Wolf°, Christophe Fraser², Andrew Phillips² 'Stichting HIV Monitoring, Amsterdam, Netherlands², University College College London, London, Linder Kingdom³, MBC, Biostatistics, Unit

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976 Prenatal HIV Testing Coverage of Medicaid-Insured Women – United States, 2009–2010 Christine E. Ross, Guoyu Tao, Karen W. Hoover

DSTDP, CDC, Atlanta, GA, United States

977 Measuring Late HIV Diagnosis Among Men Who Have Sex With Men: AIDS Diagnosis vs. Testing Frequency David A. Katz¹², Julia C. Dombrowski¹², Amy Bennett², Susan Buskin¹², Christina Thibault², Matthew R. Golden¹ 'University of Washington, Seattle, WA, United States, Public Health - Seattle & King County, Seattle, WA, United States

Session P-W2 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Cascade of Care, Linkage, and Retention

978 Using HIV Surveillance Registry Data To Re-Link Patients To Care: The RSVP Project in San Francisco Kate A. Buchacz¹, Miao-Jung Chen², Maree Kay Parisi², Maya Yoshida², Erin Antunez², Viva Delgado², Nicholas J. Moss³, Susan Scheer²

*Centers for Disease Control and Prevention, Atlanta, GA, United States, San Francisco Department of Public Health, San Francisco, CA, United States, *Alameda County Public Health Department, Oakland, CA, United States

979 Disentangling Roles of Internalized Stigma and Depression in Women's Linkage To Care

Kristi L. Stringer', Bulent Turan², Maricianah Onono³, Elizabeth A. Bukusi³, Craig C. Cohen⁴, Janet M. Turan⁵ 'Medical Sociology, University of Alabama at Birmingham, AL, United States, ²Psychology, University of Alabama at Birmingham, Birmingham, AL, United States, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Department of Obstetrics, Gynecology, and Reproductive Sciences, University of California San Francisco, San Francisco, CA, United States, ⁵Medical Health Care Organization and Policy, University of Alabama at Birmingham, Birmingham, AL, United States

980 Longitudinal Treatment Outcomes in HIV-Infected Prisoners and Influence of Re-Incarceration

Jaimie P. Meyer¹², Javier Cepeda³, Johnny Wu⁴, Robert L.
Trestman⁴, Frederick L. Altice¹³, Sandra A. Springer¹
'Medicine, Yale University School of Medicine, New Haven, CT, United
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Diseases, Yale University School of Public Health, New Haven, CT,
United States, ⁴University of Connecticut Correctional Managed
Healthcare, Farmington, CT, United States

981 Imprisonment Among a Large US Clinical Cohort of HIV-Positive Outpatients

David L. Rosen¹, Carol E. Golin², Catherine A. Grodensky², Samuel Stinnette¹, Becky L. White¹, Sonia Napravnik¹, David A. Wohl⁴ "Institute for Global Health and Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States; "Medicine and Health Behavior, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, "Genter for AIDS Research, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States," Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

982 A Surveillance-Based Risk-Scoring Tool To Prioritize Cases for HIV Care Re-Linkage Efforts

Julia C. Dombrowski^{1,2}, James P. Hughes¹, Amanda D. Castel³, Kathleen A. Brady^{4,5}, Susan Buskin^{1,2}, Amy Bennett², Matthew R. Golden^{1,2}

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983 Beyond Core Indicators of Retention in HIV Care: Added Prognostic Value of Missed Clinic Visits

Michael J. Mugavero¹, Andrew O. Westfall¹, Elvin Geng², Stephen R. Cole³, Heidi M. Crane⁴, Mari M. Kitahata⁴, W. Christopher Mathews⁵, Sonia Napravnik⁴, James L. Raper¹, CFAR Network of Integrated Clinical Systems (CNICS)

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984 National ART Monitoring System Enables Robust Transfer-Adjusted Retention Analyses in Namibia

Anna Jonas', Andrew Maher', Ray W. Shiraishi³, Michael de Klerk', Francina Kaindjee-Tjituka', Gram Mutandi², Sadhna V. Patel², Anne-Marie Nitschke', Alexinah Muadinohamba', David W. Lowrance² 'Directorate of Special Programmes, Ministry of Health and Social Services, Windhoek, Namibia, 2ibixion of Global HIV/AIDS, US Centers for Disease Control and Prevention, Windhoek, Namibia, "Division of Global HIV/AIDS, US Centers for Disease Control and Prevention, Atlanta, 6A, United States

985 Migration After HIV Diagnosis, United States Lorena Espinoza, H. Irene Hall, Aruna Surendera Babu, Tian Tang, Mi Chen

Division of HIV/AIDS Prevention, CDC, Atlanta, GA, United States

986 Early Linkage To HIV Care and Antiretroviral Therapy Use Among MSM — 20 US Cities, 2008 and 2011 Brooke Hoots, Teresa Finlayson, Cyprian Wejnert, Gabriela Paz-Bailey for the NHBS Study Group CDC, Atlanta, GA, United States

987 The Impact of Opioid Substitution Treatment On Highly Active Antiretroviral Treatment Adherence

Bohdan Nosyk, Jeong Min, Viviane Lima, Guillaume Colley, Benita Yip, Evan Wood, Julio Montaner

BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada

988 Correlation Between Community Variables and HIV Linkage To Care and Viral Suppression, Atlanta, GA Neela D. Goswami¹², Sharoda Dasgupta², Patrick Sullivan², Deepali Rane³, Carlos del Rio¹², Travis Sanchez²

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Session P-W3 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Cascade of Care, Community Viral Load, and Viral Suppression

989 Viral Suppression Among Foreign-Born HIV-Infected Persons in the United States

Tanya R. Myers^{1,2}, Jacek Skarbinski¹
¹CDC, Atlanta, GA, United States, ²LSHTM, London, United Kingdom

990 Mapping Community Viral Load and Transmission Potential Prevalence of HIV Among MSM in New York City

Hong Van Tieu^{1,2}, Vijay Nandi¹, James E. Egan³, Victoria Frye⁴, Donald R. Hoover⁵, Eduardo Baez¹, Debbie Lucy¹, Magdalena Cerda⁶, Danielle C. Ompad⁷, Beryl A. Koblin¹ 'Laboratory of Infectious Disease Prevention, New York Blood Center, New York, NY, United States, 'Division of Infectious Diseases, Columbia University Medical Center, New York, NY, United States, 'University of Pittsburgh, PA, United States, 'Laboratory of Social and Behavioral Sciences, New York Blood Center, New York, NY, United States, 'Putgers University, Rutgers, NJ, United States, 'Department of Epidemiology, Columbia University Mailman School of Public Health, New York, NY, United States, 'New York University, New York, NY, United States

991 HIV Care and Viral Suppression Among Persons Living With HIV/AIDS, New York City 2006-2010

Lucia V. Torian, Qiang Xia, Ellen W. Wiewel HIV Epidemiology Program, New York City Department of Health, Long Island City, NY, United States

992LB Low Incidence and High Population Viral Suppression in Malawi: The Chiradzulu HIV Incidence Study

David Maman¹, Sophie Masson¹, Benson Chilema², Charles Masiku³, Elizabeth Szumilin⁴, Ahidjo Ayouba⁵, Benjamin Riche⁶, Etard Jean-Francois^{1,7}

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993 Disparities in Viral Suppression Among a Large Cohort of HIV-Infected Persons in Washington, DC

Amanda D. Castel, Alan E. Greenberg, Heather Young, Mariah M. Kalmin, DC Cohort Executive Committee Dept. of Epidemiology and Biostatistics, The George Washington University, Washington, DC, United States

994 Community Viral Load and HIV Incidence: A Multi-City Study of High-Risk Populations in India

Sunii S. Solomon^{1,2}, Shruti H. Mehta¹, Aylur K. Srikrishnan², Oliver Laeyendecker^{1,3}, Shammugam Saravanan², Allison McFall¹, Pachamuthu Balakrishnan², Suniti Solomon², David D. Celentano¹, Gregory M. Lucas¹

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995 Declines in Community Viral Load in the Context of Population Prevention Strategies in the Bronx

David B. Hanna¹, Uriel R. Felsen¹², Mindy S. Ginsberg¹, Barry S. Zingman¹², Robert S. Beil¹², Donna C. Futterman¹², Howard D. Strickler¹, Kathryn Anastos¹²

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Session P-W4 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D Cascade of Care

996 New Epidemiological Indicator To Estimate the Gap Between WHO Eligibility ART Criteria and Reality

Between WHO Eligibility ART Criteria and Reality Jacques D. A. Ndawinz', Xavier Anglaret^{2,3}, Eric Delaporte^{4,5}, Sinata Koulla-Shiro⁸, Delphine Gabillard^{2,3}, Dominique Costagliola^{7,8}, Virginie Supervie^{7,2}

'Solthis, Paris, France, Centre 897, INSERM, Bordeaux, France, Isped, University of Bordeaux, Bordeaux, France, UMR 145, University of Montpellier Of, Montpellier, France, France, IRD, Montpellier, France, Central Hospital, Yaoundé, Cameroon, UMR S943, UPMC Paris Univ 06, Paris, France, U943, INSERM, Paris, France

997 Trends in Cascade of Care in the Eastern European Country of Georgia: 2008-2012

Nikoloz Chkhartishvili*, Otar Chokoshvili*, Lali Sharvadze¹², Jack A. DeHovitz³, Carlos del Rio¹, Tengiz Tsertsvadze¹⁵.
Infectious Diseases, AIDS and Clinical Immunology Research Center, Tbilisi, Georgia,⁴Faculty of Medicine, Tbilisi State University, Tbilisi, Georgia,⁴State University of New York Downstate Medical Center, Brooklyn, NY, United States,⁴Emory University, Atalnata, GA, United States, †Tbilisi State University, Tbilisi, Georgia

998 Use of National Standards To Monitor HIV Care and Treatment in a High Prevalence City – Washington, DC Amanda D. Castel, Alan E. Greenberg, Mariah M. Kalmin, Heather Young, DC Cohort Executive Committee

Dept. of Epidemiology and Biostatistics, The George Washington University, Washington, DC, United States

999 Potential Impact of Viral Load On ART Eligibility Criteria in Swaziland

Naomi Bock¹, Ruth Emerson², Charles Azih³, Deborah Donnell², George Bicego¹, Velephi Okello³, Neena Philip⁴, Rejoice Nkambule³, Yen Duong¹, Jessica Justman⁴

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1000 Health Insurance for PLWH: Establishing a Baseline To Monitor the Impact of the Affordable Care Act

Baligh R. Yehia¹, Allison A. Agwu², Stephen A. Berry², Joshua P. Metlay³, Kelly Gebo²

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Session P-W5 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Acute Infection

1001 Atypical Clinical Presentations Occur in One Third of 293 Patients With a Primary HIV-1 Infection

Dominique L. Braun, Roger Kouyos, Belinda Balmer, Christina Grube, Rainer Weber, Huldrych Günthard Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, University of Zurich, Zurich, Switzerland

1002 Evaluating New Definitions of Acute and Early HIV Infection From HIV Surveillance Data

Susan E. Buskin^{1,2}, Neway G. Fida¹, Amy B. Bennett¹, Matthew R. Golden^{1,3}, Joanne D. Stekler^{1,4}

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1003 Association Between Number of Acute Retroviral Symptoms and Extended High Viremia by HIV-1 Subtype

Kimberly A. Powers¹, Matthew A. Price^{2,3}, Etienne Karita⁴, Anatoli Kamali⁵, William Kilembe⁶, Susan Allen⁷, Eric Hunter⁷, Omu Anzala⁸, Pat Fast², Eduard J. Sanders^{9,10}

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1004 Targeted Screening of Young Adults for Acute HIV-1 Infection at Care Seeking in Kenya

Eduard J. Sanders¹², Peter Mugo¹, Henrieke A. B. Prins¹, Elizabeth Wahome¹, Alexander Thiong oʻ, Grace Mwasigadi¹, Elisabeth M. Van der Elst¹, Anisa Omar³, Adrian D. Smith⁴, Susan M. Graham¹⁵ 'Clinical Sciences, KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya,²Nuffield Department of Clinical Medicine, University of Oxford, Oxford, United Kingdom,²County Health Department, Ministry of Health, Kilifi, Kenya,⁴Public Health Department, University of Oxford, Oxford, United Kingdom,²University of Washington, Seattle, WA, United States

Session P-W6 Poster Session Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Incidence Assays

1005 Independent Evaluation of Predicate Incidence Assays for HIV Surveillance

Reshma Kassanjee', Christopher Pilcher', Sheila Keating', Shelley Facente', Matt Price', Jeffrey Martin', Susan Little', **Alex Welte**', Michael Busch', Gary Murphy', Consortium for the Evaluation and Performance of HIV Incidence Assays (CEPHIA) The South African DST/MFF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), Stellenbosch University, Stellenbosch, South Africa, 'University of California San Francisco, San Francisco, CA, United States, 'Blood Systems Research Institute, San Francisco, CA, United States, 'Department of Medical Affairs, International AIDS Vaccine Initiative (IAVI), New York City, NY, United States, 'Department of Medical Affairs, Lates, 'Department of Medicine, University of California San Diego, La Jolla, CA, United States, 'Pleatth Public England, London, United Mandaton.

1006 Performance of the Limiting Antigen-Avidity EIA for Use With Dried Blood Spot Specimens

Erin K. Rottinghaus, Trudy Dobbs, Bharat S. Parekh, Yen T. Duong Centers for Disease Control and Prevention, Atlanta, GA, United States

1007 The Impact of HIV Subtype On Specificity of Cross-Sectional HIV Incidence Assays in Rakai, Uganda Andrew F. Longosz¹, David Serwadda²³, Fred Nalugoda³, Godfrey Kigoz³, Veronica Franco¹, Ronald H. Gray³⁵. Thomas C. Quinn¹⁴, Susan H. Eshleman¹, Oliver Laeyendecker¹⁴. NIAID, National Insitutes of Heatth, Battimore, MD, United States.³Makerere University School of Public Heatth, Kampala, Uganda¸¹Abaki Health Sciences Program, Rakai, Uganda¸¹The Johns Hopkins University School of Medicine, Battimore, MD, United States,⁵The Johns Hopkins Bloomberg School of Public Health, Battimore, MD, United States

1008 Incorrect Identification of Recent HIV Infection Using a LAq-Avidity Assay in Adults in the US

Andrew F. Longoszi, Ron Brookmeyer², Shruti Mehta³, Greg D. Kirk³, Joseph B. Margolick⁴, Joelle Brown⁵, Thomas C. Quinn^{11,5}, Susan H. Eshleman⁴, Oliver Laeyendecker^{1,5}

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Session P-W7 Poster Session Thursday March 6, 2014, 2:30 pm-4:00 pm Exhibit Hall D Disease Progression/Mortality

of Medicine, Baltimore, MD, United States

1009 Increasing Viral Suppression and Declining HIV/AIDS and Mortality in the Era of Expanded Treatment

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1010 BMI and CD4+ T-Cell Recovery at 12 Months Among Adults Initiating ART in the United States and Canada John R. Koethe', Cathy Jenkins', Bryan Lus, Bryan E. Shepherd', Michael J. Silverberg⁴, Aaron J. Blashill⁵, Aranka Anema⁶, Amanda Willig', Samuel E. Stinnette⁸, Timothy R. Sterling', North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) 'Infectious Diseases, Vanderbilt University, Nashville, TN, United States, 'Biostatistics, Vanderbilt University, Nashville, TN, United States, 'Plincétious Diseases, Johns Hopkins University, Baltimore, MD, United States, "Kaiser Permanente Northern California, Oakland, CA, United States," Harvard University, Boston, MA, United States, "British Columbia Centre For Excellence in HIV/AIDS, Vancouver, BC, Canada," University of Alabama at Birmingham, Birmingham, AL, United States, "University of North Carolina, Chapel Hill, NC, United States

1011 Impact of Smoking On Life Expectancy Among HIV-Infected Individuals: The ART Cohort Collaboration Marie Helleberg¹, Margaret T. May², Jonathan A. C. Sterne², Niels Obel¹, for the ART-CC

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1012 Standardized Mortality Ratios Among Drug Users in Amsterdam Differ by HCV and HIV Infection Status

Daniela K. van Santen¹, Jannie J. J. van der Helm¹, Bart P. X. Grady^{1,2}, Anneke S. de Vos³, Mirjam E. E. Kretzschmar^{3,4}, Ineke G. Stolte¹, Maria Prins^{1,2}

Research, Public Health Service of Amsterdam, Amsterdam, Netherlands, Center for Infection and Immunology Amsterdam (CIVIIMA), Academic Medical Center (AMC), Amsterdam, Netherlands, University Medical Center Utrecht, Julius Centrum, Utrecht, Netherlands, Centre for Infectious Disease Control, National Institute of Public Health and the Environment, Bilthoven, Netherlands

1013 Prognostic Value of the VACS Index for Mortality in British Columbia, Canada

Angela Cescon¹, Mark Hull¹, Wendy Zhang¹, Thomas Roston², Susan Shurgold¹, Guillaume Colley¹, Viviane D. Lima¹², P. Richard Harrigan¹², Julio S. G. Montaner¹², Robert S. Hogg¹³, ¹BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada,²University of British Columbia, Vancouver, BC, Canada,²Simon Fraser University, Burnaby, BC, Canada

1014 Impact of Low-Level Viremia On Clinical and Virological Outcomes in Treated HIV Infected Patients

Marie-Anne Vandenhende¹, Suzanne Ingle², Margaret May², Matthias Cavassini³, Amanda Mocroft¹, Peter Reiss³, Janet Tate⁵, Heidi Crane², Jonathan Sterne², Geneviève Chéne¹, on behalf of the Antiretroviral Therapy Cohort Collaboration (ART-CC) ¹Epidémiologie-Bisatistique, Université Bordeaux, Centre INSERM U897, ISPED, Bordeaux, France³School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom,³Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland, *Research Department of Infection and Population Health, UCL Medical School, London, United Kingdom,³Academic Medical Center, Amsterdam Institute of Global Health and Development, Amsterdam, Wetherlands; *Valle University School of Medicine, VA Connecticut Healthcare System, New Haven, CT, United States, *Center for AIDS Research; University of Washington, Seattle, WA, United States

1015 Increase in HIV Plasma Viral Load Set-Point Among UK MSM

Victoria Parsons^{1,2}, Andrew Phillips², Richard Gilson², Sarah Fidler³, Martin Fisher¹, Anne Johnson², David Hawkins⁵, Ken McLean⁶, Margaret Johnson⁷, Kholoud Porter¹, for the UK Register of HIV Seroconverters

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Session P-W8 Poster Session

Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Co-Morbidities

1016 HIV, Non-Communicable Chronic Diseases and Associated Factors in Tanzania and Uganda

Saidi H. Kapiga¹, Kathy Baisley², Samuel Biraro⁵, Bazil Baltazar⁴, Fiona Ewings¹, Hashim Ramadhan⁴, Robert Peck⁵, Richard Hayes⁶, Paula Munderi³, Heiner Grosskurth¹

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1017 Female Partner Bacterial Vaginosis and the Penis Microbiota: Rakai. Uganda

Cindy Liu¹, Bruce Hungate², Aaron Tobian¹, Jacques Ravel³, Jessica Prodger⁴, David Serwadda⁵, Fred Nalugoda⁵, Maria Wawer⁶, Ronald Grav⁶, Lance Price²

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1018 Low Viral Suppression and High HIV Diagnosis Rate Among MSM With Syphilis - Baltimore, Maryland Laura A. Cooley', Marcia L. Pearl', Colin Flynn', David S. Blythe', Christine Ross', Geoffrey Hart-Cooper'a, James Morgan', Alexandra M.

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1019 Trends in Comorbid Conditions Mentioned With HIV Disease On Death Certificates, US, 2000-2010 Kpandja Djawe, Kate Buchacz, Charles E. Rose, John T. Brooks Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Epidemiology Branch, Atlanta, 6A, United States

1020 The Association Between HPV and HIV Shedding in Vaginal and Anorectal Specimens

Julia Hood', Geoffrey Gottlieb³, Papa Salif Sow³, Macoumba Toure³, Clinghua Feng⁴, Nancy Kiviat⁴, Stephen Hawes⁵

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1021 Incidence of Sexually Transmitted Diseases Among Persons With HIV, New York City, 2000-2010

Sarah L. Braunstein¹, Preeti Pathela², Laura Kersanske¹, Colin Shepard¹

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1022 Increasing Rates of STI Are Linked To Reduced Condom Use in Patients With Primary HIV-1 Infection Dominique L. Braun, Roger Kouyos, Raffael Ghenzi, Christina Grube,

Rainer Weber, Huldrych Günthard Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, Zurich, Switzerland

1023 Does Substance Use Compromise Depression Treatment? A Randomized Trial of Homeless HIV+ Persons

David J. Grelotti^{1,2}, Gwendolyn P. Hammer³, James W. Dilley⁴, Dan H. Karasic⁴, James L. Sorensen⁴, David R. Bangsberg^{5,6}, Alexander C. Tsai⁷

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Session P-W9 Poster Session Thursday March 6, 2014, 2:30 PM-4:00 PM Exhibit Hall D Transmission/Risk Factors

1024 National Estimates of Key Populations at High Risk of HIV Exposure in Kenya, 2012

George Githuka¹, Wolfgang Hladik², Samuel Mwalili³, Davies Kimanga¹, Mamo Umuro⁴, Mercy Mutui³, Joshua Gitonga⁵, William Maina¹, Andrea A. Kim³

'National AIDS and STI Control Programme, Ministry of Health, Nairobi, Kenya, 'Division of Global HIV/AIDS, US Centers for Disease Control and Prevention, Atlanta, GA, United States, 'Division of Global HIV/ AIDS-Kenya, US Centers for Disease Control and Prevention, Nairobi, Kenya, 'National Public Health Laboratory Services, Ministry of Health, Nairobi, Kenya, 'National AIDS Control Council, Nairobi, Kenya

1025 HIV Incidence in Rural Western Kenya Using Longitudinal Analysis From Home-Based HIV Testing Lisa A. Mills¹², George Olilo², Manase Amolloh², Daniel Kwaro², Victor Ssempija¹, Fredrick Odongo², Fredrick Otieno², Maquins Sewe³, John Williamson¹, Kayla Laserson¹ ¹Centers for Disease Control and Prevention, Kisumu, Kenya,²Kenya Medical Research Institute/Centers for Disease Control and Prevention Research and Public Health Collaboration. Kisumu. Kenya

1026 Temporal Trends in HIV-1 Incidence and Risk Behaviors Among MSM, Bangkok, Thailand, 2006-2013

Timothy H. Holtz¹², Philip Á. Mock¹, Warunee Thienkrua¹, Wannee Chonwattana¹, Wipas Wimonsatle, Supaporn Chalkummao¹, Wichuda Sukwicha¹, Anupong Chitwarakom³, Marcel E. Curlin¹.² 'HII//AIDS Research Program, Thalland MOPH - US CDC Collaboration, Nonthaburi, Thailand², Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, 6A, United States, ¹Department of Disease Control, Thailand MOPH, Nonthaburi, Thailand

1027 The Potential Impact of Targeting Prevention Strategies To HIV-Discordant Households

Ruth Emerson¹, Deborah Donnell¹, George Bicego², Khanya Mabuza³, Stephane Helleringer⁴, Jessica Justman⁵ 'Statistical Center for HIV/AIDS Research & Prevention, Fred Hutchinson Cancer Research Center, Seattle, WA, United States ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³National Emergency Response Council on HIV and AIDS, Kingdom of Swaziland, Manzini, Swaziland, ⁴Department of Population and Family Health, Mallman School of Public Health, Columbia University, New York, NY, United States, ³ICAP-Columbia, Mailman School of Public Health, Columbia University, New York, NY, United States

1028 The Effect of Sexually Transmitted Infections On HIV Incidence Among MSM in Atlanta, GA

Colleen F. Kelley, Adam S. Vaughan, Nicole Luisi, Travis Sanchez, Paula Frew, Carlos del Rio, Patrick S. Sullivan, Eli S. Rosenberg Center for AIDS Research, Emory University, Atlanta, GA, United States

1029 Factors Associated With HIV Discordance Among Couples in Kenya: Results From a Population Survey Wanjiru Waruiru³, Agneta Mbithi², Anthony Waruru³, Jennifer Galbraith³, Timothy A. Kellogg¹, Scott Epperson⁴, Anne Ng'ang'a², Sophie Mwanyumba³, Lucy Kimondo⁴, Andrea A. Kim³ 'University of California, San Francisco, Nairobi, Kenya, "Autional AIDS and STI Control Programme, Nairobi, Kenya,"Centers for Disease Control and Prevention, Nairobi, Kenya, "Centers for Disease Control and Prevention, Alainba, A. United States, "National Public Health

Laboratory Services, Nairobi, Kenya, ⁶National Council for Population and Development, Nairobi, Kenya

1030 Partners of Individuals With Acute HIV Infection Have a High Frequency of Known HIV Infection

Philip J. Peters', Emily Westheimer², Stephanie Cohen³, Charles E. Rose¹, Cynthia L. Gay¹, Charles Fann³, Steve Beagle^{4,5}, Kate Washburn², Tonyka L. Jackson^{1,6}, Lisa B. Hightow-Weidman⁴ "Centers for Disease Control and Prevention, Atlanta, GA, United States, "New York City, NY, United States, "San Francisco Department of Public Health, San Francisco, CA, United States," Worth Carolina at Chapel Hill, Chapel Hill, NC, United States, "North Carolina Department of Health and Human Services, Raleigh, NC, United States States," CF International, Atlanta, GA, United States

1031 Baseline Predictors of HIV-1 Acquisition Among Women Participating in MTN-003 (VOICE)

Gonasagrie Nair', Jennifer E. Balkus^{2,3}, Jeanne M. Marrazzo³, Gita Ramjee⁴, Thesla Palanee⁵, Baning Mikhize⁶, Clemensia Nakabilto⁷, Marthinette Tajjaard⁶, Kailazarid Gomez⁹, Zvavahera M. Chirenje¹⁰
¹CAPRISA/DDRMI, Nelson R Mandela School of Medicine, Durban, South Africa; Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ⁴University of Washington, Seattle, WA, United States, ⁴South Africa Medical Research Council, Durban, South Africa, ⁶Chris Hani Baragwanath Hospital, Johannesburg, South Africa, ⁶Chris Hani Baragwanath Hospital, Johannesburg, South Africa, ⁶Makeeree University, Kampala, Uganda, ⁶The Aurum Institute, Klerksdorp, South Africa, ⁶H1360, Durham, NC, United States, ¹⁰UZ-UCSF, Harare, ⁷Mahabwe

1032 Measuring Purposefully Adopted Seroadaptive Behaviors vs Reported Sexual Behaviors Among MSM Christine M. Khosronouri, Julia C. Dombrowski²³, James P.

Christine M. Khosropour!, Julia C. Dombrowski²³, James P. Hughes⁴, Lisa E. Manhart¹, Jane M. Simoni⁵, Matthew R. Golden^{2,3} "Epidemiology, University of Washington, Seattle, WA, United States, "Medicine, University of Washington, Seattle, WA, United States," Biostatistics, University of Washington, Seattle, WA, United States, "Biostatistics, University of Washington, Seattle, WA, United States," Psychology, University of Washington, Seattle, WA, United States

1033 Prevalence and Predictors of HIV Disclosure Among Adults Receiving Care in the United States

Christine L. Mattson¹, Mark S. Freedman¹, Linda Beer¹, Patrick Sullivan², Jacek Skarbinski¹

¹Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Emory University, Atlanta, GA, United States

1034 Trends in HIV Diagnoses Among Persons Who Inject Drugs – United States, 2008-2011

Andrew J. Mitsch¹, H. I. Halli¹, Amy L. Lansky¹, Aruna Surendera-Babu²

¹National Center for HIV, STD, Tuberculosis, and Viral Hepatitis Prevention, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States.²Macro International, Inc., Atlanta, GA, United States

1035 An Emerging HIV Epidemic Among Injection Drug User Networks During Austerity in Athens, Greece

Ashley Tsang¹, **John Schneider**², Vana Sypsa³, Georgios Nikolopoulos⁴, Dimitrios Paraskevis³, Samuel Friedman⁵, Angelos Hatzakis³

Totalans University of Chicago, Chicago, IL, United States, *Department of Medicine, University of Chicago, Chicago, IL, United States, *National Retrovirus Reference Center, Athens, Greece, *Hellenic Center for Disease Control and Prevention, Athens, Greece, *National Development and Research Institutes, New York, NY, United States

1036 High HIV Prevalence Among Injection Drug Users in India: Women Bear a Disproportionate Burden

Gregory M. Lucas¹, Sunil S. Solomon¹², Aylur K. Srikrishnan², Syed H. Iqbal², Oliver Laeyendecker¹³, Allion McFall¹, Muniratnam S. Kumar², David D. Celentand³, Suniti Solomon², Shrivit H. Mehta⁴
*Johns Hopkins University School of Medicine, Baltimore, MD, United States, ²YR Gaitonde Centre for AIDS Research and Education, Chennal India, ³National Institute of Allergy and Infectious Diseases, National

Institutes of Health, Bethesda, MD, United States, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1037 HIV Prevalence Among Women Who Inject Drugs and Exchange Sex for Money or Drugs: 20 US Cities, 2009 Lina M. C. Nerlander, Kristen L. Hess, Dita Broz, Binh C. Le, Catlainn Sionean, Charles E. Rose, Gabriela Paz-Bailey, for the NHBS Group Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States

1038 Erectile Dysfunction Medication Use Associated With Unprotected Intercourse in HIV-Infected MSM Xia Lin, Christine L. Mattson, Mark S. Freedman, Jacek Skarbinski

Centers for Disease Control and Prevention, Atlanta, GA, United States

1039 A Novel Analytical Approach Confirms Stabilization of HIV Epidemic in Pregnant Women in Namibia Anna Jonas¹, Steven Gutreuter², Sadhna V. Patel³, Andrew Maher³, Michael de Klerk¹, Tuli Nakanyala¹, Francina Kaindjee-Tjituka¹, Ella Shihepo¹, David W. Lowrance³

¹Ministry of Health and Social Services, Windhoek, Namibia, ²US Centers for Disease Control and Prevention, Atlanta, GA, United States, ³US Centers for Disease Control and Prevention, Windhoek, Namibia

1040 Viral Load Strategy: Impact On Risk Behavior and Serocommunication of MSM in Specialized Care Elisabeth Kuhn¹, Anja Potthoff¹², Henrike Dirks³, René Borgmann³, Michael Wolter³, Stefan Esser¹, Norbert Scherbaum²³, Norbert H. Brockmeyer¹²

'Clinic for Dermatology, Venerology and Allergology of the Ruhr-Universität Bochum, Bochum, Garmany, Competence Network HIV/ AIDS, Bochum/Essen, Germany, 'Department of Psychiatry and Psychotherapy, LVR-Klinikum Essen, Hospital of the University of Duisburg-Essen, Essen, Germany, 'Department of Dermatology and Venerology, University Hospital Duisburg-Essen, Essen, Germany

1041 Transmission Rates and Not Sexual Contact Patterns Drive HIV Epidemic Intensity in Africa

Steve E. Bellan¹, Jonathan Dushoff², David Champredon³, Alison P. Galvani⁴, Lauren A. Meyers⁵

'Center for Computational Biology and Bioinformatics, University of Texas at Austin, Austin, TX, United States, 'Biology, McMaster University, Hamilton, ON, Canada, 'Department of Mathematics and Statistics, McMaster University, Hamilton, ON, Canada, 'School of Medicine, Yale University, New Haven, CT, United States, 'Integrative Biology, University of Texas at Austin, Austin, TX, United States

Session P-X1 Poster Session Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D

HIV Testing in Low Income Settings

1042 Community-Based Integrated Family Planning and HIV Testing and Counseling Services in Uganda Aurélie Brunie¹, Patricia Wamala-Mucheri², Jane Harriet Namwebya³, Tricia Petruney¹, Vincent J. Wong³, Benson Tumwesigye⁵, Sarah

Mercer¹, Victor Draman Afayo³, Angela Akol³

'FHI 360, Washington, DC, United States, 'Clinton Health Access Initiative, Kampala, Uganda, 'FHI 360, Kampala, Uganda, 'FHI 360, Durham, NC, United States, 'Office of HIV/AIDS, USAID, 1200
Pennsylvania Ave, DC, United States, 'National HTC Coordinator, Ugandan Ministry of Health, Kampala, Uganda

1043 HTC Campaign in Households Reached the Majority of Women But Only 50% of Men in Botswana Community Vlad Novitsky', Hermann Bussmann', Sikhulille Moyo', Erik van Widenfelt', Mompati Mmalane', Quanhong Lei³, Joseph Makhema', Shahin Lockman', Victor DeGruttola', Max Essex', Ilmmunology & Infectious Diseases, Harvard School of Public Health, Boston, MA, United States is Botswana-Harvard AIDS Institute Partnership, Gaborone, Botswana, Department of Biostatistics, Harvard School of Public Health, Boston, MA, United States

1044 Implementation of Routine, Opt-Out HIV Testing Does Not Increase Loss To Follow-up

Kate Clouse¹, Colleen Hanrahan¹, Jean Bassett², Nandipha Qangule², Lindi Matjeke², Sandra Mokonyane², Ian Sanne³, Annelies Van Rie¹

¹Department of Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States ²Witkoppen Health and Welfare Centre, Johannesburg, South Africa, ³Right to Care, Johannesburg, South Africa

1045 Assessment of the Potential Cost-Effectiveness of HIV Self-Testing in Resource Limited Settings

Valentina Cambiano¹, Debbie Ford², Travor Mabugu³, Sue Napierala Mavedzenge⁴, Alec Miners⁵, Owen Mugurungi⁶, Fumiyo Nakagawa¹, Paul Revill², Andrew Phillips¹

'UCL, London, United Kingdom, 'Medical Research Council Clinical Trials Unit, London, United Kingdom, 'University of Zimbabwe (Till Research Centre, Harare, Zimbabwe, 'RTI International, San Francisco, CA, United States Elondon School of Hygiene and Tropical Medicine, London, United Kingdom, 'Ministry of Health and Child Welfare Zimbabwe, Harare, Zimbabwe, 'University of York, York, United Kingdom

Session P-X2 Poster Session

Tuesday March 4, 2014, 2:30 PM-4:00 PM Exhibit Hall D HIV Treatment and Care

1046 Treatment Outcomes Before and After the Decentralization of ART in an Urban Setting in Mozambique

Jan Walter¹, Marie-Luce Tombo¹, Celeste Gracia Edwards¹, Johnny Lujan², Annick Antierens², Lucas Mofino¹ Médecins sans Frontières, Maputo, Mozambique,²Médecins sans Frontières, Geneva, Switzerland

1047 CD4 Count at ART Initiation and Economic Restoration in Rural Uganda

Atheendar Venkataramani', Harsha Thirumurthy², Jessica Haberer', Yap Boum³, Mark Siedner', Annet Kembabazi², Peter Hunt®, Jeffrey Martin®, David Bangsberg®, Alexander Tsai® 'Department of Medicine and Center for Global Health, Massachusetts General Hospital, Boston, MA, United States, Department of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, Napel Hill

1048 48-Week Outcomes in Adults Starting ART at CD4>350 Using Streamlined Care in Rural Uganda

Vivek Jain¹, Dathan M. Byonanebye², Gideon Amanyire², Douglas Black¹, James Rooney³, Gabrie Chamie¹, Elvin H. Geng¹, Edwin D. Charlebois¹, Moses R. Kamya², Diane V. Havlir¹¹HIV/AIDS Division, University of California, San Francisco, San Francisco, CA, United States.² Makerere University College of Health Sciences, Kampla, Uganda,³ Gilead Sciences, Inc., Foster City, CA, United States

1049 Second-Line Failure and Protease Inhibitor Resistance in a Clinic in Johannesburg, South Africa

Rebecca H. Berhanu¹, Denise Evans², Prudence Ive³, David Spencer¹, Cindy Firnhaber³, Ian Sanne³, Matthew P. Fox³ TIB Focal Point, Right to Care, Johannesburg, South Africa; Health Economics and Epidemiology Research Office, University of the Witwatersrand, Johannesburg, South Africa; *Clinical HIV Research Unit, University of the Witwatersrand, Johannesburg, South Africa; *Helen Joseph Hospital, University of the Witwatersrand, Johannesburg, South Africa; *Center for Global Health and Development Department of Epidemiology, Boston University, Boston, MA, United States

1050 A 5-Year Comparison of Viral Load and CD4 Cell Count Monitoring for ART Patients in Rural Uganda

Jonathan Wangisi', Paul Ekwaru², Stephen Okoboi', James Campbeli³, Rachel King⁴, Aggrey Egessa², Celestin Bakanda³, Emmy Muramuzi⁸, Frank Kaharuza⁸, Sam Malamba⁸, **David M. Moore**^{7,8} 'The AIDS Support Organisation, Kampala, Uganda, ²University of Alberta, Edmonton, AB, Canada, ³University of Maryland, Baltimore, MD, United States, ⁴University of California San Francisco, CA, United States, ⁵Makarere University School of Public

Health, Kampala, Uganda, Makarere University, Kampala, Uganda, BC Centre for Excellence in HIV/AIDS, Vancouver, BC, Canada, University of British Columbia, Vancouver, BC, Canada

1051 Success of Transfer of HIV Care From a PEPFAR Site To Community-Based Clinics in South Africa

Christie Cloete¹, Susan Regan^{2,3}, Janet Giddy¹, Tessa Govender¹, Melanie R. Gaynes⁸, Kenneth A. Freedberg^{1,3}, Jaffrey N. Katz^{1,5}, Rochelle P. Walensky^{3,6}, Elena Losina^{3,4}, Ingrid V. Bassett^{3,8} i³McCord Hospital, Durban, South Africa, ³Massachusetts General Hospital, Department of General Medicine, Boston, MA, United States; ³Massachusetts General Hospital, Medical Practice Evaluation Center, Boston, MA, United States, ⁵Brigham and Women's Hospital, Department of Orthopedic Surgery, Boston, MA, United States, ⁵Brigham and Women's Hospital, Division of Rheumatology, Boston, MA, United States, ⁵Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ⁵Boston University School of Public Health, Departments of Biostatistics and Epidemiology, Boston, MA, United States, ⁵Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States

1052 The Feasibility and Economic Impact of Time Designated Appointment System in a Busy HIV Care Clinic

Zachary A. Kwena¹, Betty Njoroge², Patrick Oyaro¹, Craig R. Cohen³, Elizabeth A. Bukusi²

¹Center for Microbiology Research, Kenya Medical Research Institute, Kisumu, Kenya, ²Center for Microbiology Research, Kenya Medical Research Institute, Nairobi, Kenya, ³Ob/Gyn & RS, University of California, San Francisco, San Francisco, CA, United States

1053 Long-Term Virologic Response in a Cohort of HIV-Infected Patients in South Africa

Kate Shearer¹, Alana T. Brennan², Mhairi Maskew¹, Rebecca Berhanu³, Lawrence Long¹, **Matthew Fox**^{1,2} 'Health Economics and Epidemiology Research Office, Johannesburg, South Africa, 'Center for Global Health & Development, Boston, MA, United States, 'Pilont to Care, Johannesburg, South Africa

1054 CD4 Cell Decline and Time To Reaching ART Eligibility in HIV Patients From Rwanda

Chloe A. Teasdale, Allison Zerbe, Veronicah Mugisha, Ruben Sahabo, Elaine J. Abrams, Wafaa M. El-Sadr, for Identifying Optimal Models of HIV Care in Africa Study ICAP, Columbia University, New York, NY, United States

1055 Predictors of Late Engagement To HIV Care in Western Kenya: A Cross-Sectional Study

Charles M. Kwobah^{1,2}, Paula Braitstein^{3,4}, Julius Koech², Gilbert Simiyu², Ann W. Mwangi^{2,5}, Kara Wools-Kaloustian^{2,6}, **Abraham Siika**^{2,3}

'Medicine, Moi University Clinical Research Centre, Eldoret, Kenya,''Academic Model Providing Access to Healthcare, Eldoret, Kenya,''Medicine, Moi University College of Health Sciences, School of Medicine, Eldoret, Kenya,''University of Toronto, Dalla Lana School of Public Health, Toronto, TN, Canada,''Behavioural Sciences, Moi University College of Health Sciences, School of Medicine, Eldoret, Kenya,''Medicine, Indiana University School of Medicine, Indianapolis, IN. United States

1056 Cost Savings of Viral-Load Testing Before ART Second-Line Switch in a Resource-Limited Setting

Joanita Kigozi¹, Christine Mugasha¹, Alex Muganzi¹, Alex Coutinho¹, Yukari Manabe²

¹Infectious Disease Institute, Kampala, Uganda,²Johns Hopkins University, Baltimore, MD, United States

1057 Peer Support and Engagement, HIV Care and Sexual Behaviors Among PLHIV Not On ART: A Randomized

Larry W. Chang^{1,2}, Gertrude Nakigozi³, Veena Billioux², David Serwadda³, Thomas Quinn⁴, Robert Bollinger^{1,2}, Maria Wawer², Ronald Gray², Steven Reynolds⁴

¹Johns Hopkins School of Medicine, Baltimore, MD, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Rakai Health Sciences Program, Entebbe, Uganda, ¹Laboratory of Immunoregulation, Division of Inframural Research, National Institute for Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1058 Community-Based ART Programs in Resource-Limited Settings

Stephen Okoboi¹, Ding Erin², Steven Persuad³, Jonathan Wangisi¹, Darius Kato¹, Chen YaLin², Maureen Nyonyitono², Celestin Bakanda¹, Josephine Birungi¹, David Moore².³

Research, The AIDS Support Organization, Kampala, Uganda, Research, British Columbia Centre for Excellence in HIV/ AIDS, Vancouver, BC, Canada, Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada

Session P-X3 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D The Treatment Cascade and Loss To Follow-Up

1059 Gender Differences in Loss To Follow-up and Mortality in Older Adults On ART in Sub-Saharan Africa

Mansi Agarwal¹, Matthew R. Lamb¹, Veronicah Mugisha¹, Davies Kimanga², Bonita Kilama³, Andrea A. Howard¹, Elaine J. Abrams¹, Wafaa M. El-Sadr¹, Batya Elul¹

¹ICAP-Columbia University, New York, NY, United States, ²National AIDS and STI Control Programme, Nairobi, Kenya, ³National AIDS Control Programme, Dar es Salaam, Tanzania, United Republic of

1060 Comparative Effectiveness of HIV Care and Treatment Programs in East Africa

Elvin Geng¹, Thomas Odeny², Rita Lyamuya³, Alice Nakiwogga-Muwanga⁴, Mwebesa Bwana², Paula Braitstein⁴, Andrew Kambugu⁴, Elizabeth Buksu³, Geoffrey Somi³, Lameck Diero³, Jeffrey Martin¹o³ ¹Medicine, University of California San Francisco, San Francisco, CA, United States,²≮EMRI, Nairobi, Kenya,³Medicine, NACP, Dar es Salaam, Tanzania, United Republic of,⁴IDI, Kampala, Uganda;³Medicine, MUST, Mbarara, Uganda,⁴AMPATH, Eldort, Kenya,⁵Medicine, KEMRI, Nairobi, Kenya,⁵NACP, Dar es Salaam, Tanzania, United Republic of,²AMPATH, Eldoret, Kenya,⁵University of California San Francisco, San Francisco, CA, United States

1061 Loss To Follow-Up: Determining Outcomes for Adults Enrolled in HIV Services in Kenya

William Reidy¹, Mansi Agarwal¹, Matthew Lamb¹, Mark Hawken¹, Duncan Chege¹, Batya Elul¹, Elaine J. Abrams¹, Elvin Geng² ¹Mailman School of Public Health, ICAP-Columbia University, New York, NY, United States,²School of Medicine, University of California at San Francisco, San Francisco, CA, United States

1062 Community ART Delivery for High Patient Retention -TASO Uganda Operational Research

Denis Mpiima^{1,2}, Birungi Josephine¹, Luzze Ceaser³, Nanfuka¹ Masitula⁴

¹Medical, The AIDS Support Organisation, Kampala, Uganda, ²Medical, International Health Sciences University, Kampala, Uganda, ³Programmes and Strategic Information, The AIDS Support Organisation (TASO), Kampala, Uganda, ⁴Research, Canadian African Prevention Trials Network, Kampala, Uganda

1063 HIV Care Cascade Among Hard To Reach Populations in India: Need To Expand HIV Counseling and Testing

Shruti H. Mehta¹, Gregory M. Lucas², Suniti Solomon³, Aylur K. Srikrishnan³, Allison McFall¹, P. Nandagopal³, Pachamuthu Balakrishnan³, Muniratnam S. Kumar³, David D. Celentano¹, Sunil S. Solomon².3

¹Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University School of Medicine, Baltimore, MD, United States, ³YR Gaitonde Centre for AIDS Research and Education. Chennai. India

1064 Unplanned Interruptions in HIV Care in Nigeria: Rates and Implications

Aima A. Ahonkhai¹, Bolanle Banigbe², Juliet Adeola², Ifeyinwa Onwuatuelo², Ingrid V. Basset¹, Elena Losina¹, Kenneth A. Freedberg¹, Propser Konkwo², Susan Regan¹ 'Massachusetts General Hospital, Boston, MA, United States,² AIDS Prevention Initiative Nigeria, Abuja, Nigeria,³Infectious Disease, Massachusetts General Hospital, Boston, MA, United States,¹ Brigham and Women's Hospital, Boston, MA, United States

1065 Using the Side Door: Non-Linear Patterns Within the HIV Treatment Cascade in Zambia

Charles B. Holmes^{1,2}, Angela Bengtson^{1,2}, Izukanji Sikazwe^{1,2}, Carolyn Bolton-Moore^{1,2}, Lloyd B. Mulenga¹, Patrick Musonda^{1,3}, Benjamin H. Chi^{1,2}

¹Centre for Infectious Disease Research in Zambia, Lusaka, Zambia, ²University of North Carolina School of Medicine, Chapel Hill, NC, United States, ³University of East Anglia, East Anglia, United Kingdom

1066 Effectiveness of Potential Improvements in the Cascade of HIV Treatment and Care in South Africa

Valentina Cambiano¹, Silvia Bertagnolio², Michael Jordan², Jens Lundgren³, Alec Miners⁴, Deenan Pillay¹, Paul Revill⁵, Francois Venter⁶, Andrew Phillips¹

¹UCL, London, United Kingdom, ²WHO, Geneva, Switzerland, ³University of Copenhagen, Copenhagen, Denmark, ¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ³University of York, York, United Kingdom, ³University of the Witwatersrand, Johannesburg, South Africa

Session P-X4 Poster Session

Wednesday March 5, 2014, 2:30 PM-4:00 PM Exhibit Hall D Mental Health in HIV Care

1067 Trends in Depression Among Patients Presenting for ART in Rural Uganda

Brian T. Chan¹², Sheri D. Weiser³₄, Yap Boum⁵, Jessica Haberer²-6, Annet Kembabazi², Peter W. Hunt¹, Jeffrey N. Martin³, David R. Bangsberg²-6, Alexander C. Tsai²-6

Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, "Harvard Medical School, Boston, MA, United States," Flarvard Medical School, Boston, MA, United States, "Center for AIDS Prevention Studies, University of California San Francisco, CA, United States," Division of HIV/AIDS, University of California San Francisco, CA, United States, "Epicentre, Mbarara, Uganda, "Center for Global Health, Massachusetts General Hospital, Boston, MA, United States," Mbarara University of Science and Technology, Mbarara, Uganda, "Epidemiology and Biostatistics, University of California San Francisco, San Francisco, CA, United States

1068 Mental Health and Mortality in an HIV Treatment Cohort in Rural Uganda

Alexander C. Tsai¹, Brian T. Chan¹, Yap Boum², Jessica E. Haberer¹, Annet Kembabazi³, Peter W. Hunt⁴, Jeffrey N. Martin⁴, David R. Bangsberq¹

Massachusetts General Hospital, Boston, MA, United States, Medicins San Frontieres, Mbarara, Uganda, Mbarara University of Science and Technology, Mbarara, Uganda, University of California San Francisco, San Francisco. OA, United States

Conference Schedule Overview

	Monday, March 3, 2014	Tuesday, March 4, 2014	Wednesday, March 5, 2014	Thursday, March 6, 2014
8:30 ам		Plenary: HPV Vaccines: Progress to Date and Future Worldwide Directions Auditorium	Plenary: B-Cell Responses to HIV Infection: Challenges and Opportunities Auditorium	Plenary: HIV-1 Infection and Type-1 Interferon Auditorium
9:00 AM	Program Committee Workshop for New Investigators and Trainees Ballroom B/C	Plenary: HIV in People Who Use Drugs Auditorium	Plenary: NeuroHIV in 2014: Beyond Dementia Auditorium	Plenary: PEPFAR/Global Fund at 10 Years: Past, Present and Future Auditorium
9:30 ам				
10:00 ам		ORAL ABSTRACT CONCURRENT SESSIONS Hepatitis Ballroom B/C NeuroHIV: Developments in Treatment and Pathogenesis RM 304 Prevention and Epidemiology: Evolving Trends Ballroom A Host Factors and HIV/SIV Replication RM 312	ORAL ABSTRACT CONCURRENT SESSIONS Critical Issues in MTCT: Maternal Health and HIV Treatment in Children RM 304 HIV/SIV Pathogenesis RM 312 Randomized Controlled Trials and Antiretroviral Resistance Ballroom B/C TB and Other Coinfections Ballroom A	ORAL ABSTRACT CONCURRENT SESSIONS Interferon and Antibody at the Interface of Innate and Adaptive Immunity to HIV RM 312 CV and Other Complications Ballroom B/C Persistence Ballroom A Antiretroviral Scale-Up in Sub-Saharan Africa: Challenges and Opportunities RM 304
12:15 рм		LUNCH	LUNCH	LUNCH
1:15 рм				
1:30 рм	Martin Delaney Panel: Hepatitis C Virus: From Trials and Tribulations to Triumph Ballroom B/C	THEMED DISCUSSION CONCURRENT SESSIONS Acute HCV Infection RM 309 Restriction Factors Ballroom A Heart Failure, Cardiac Steatosis, and HIV RM 304 Response to Early ART Initiation in Infants RM 312 Treatment Cascade and Loss to Follow-Up RM 311	THEMED DISCUSSION CONCURRENT SESSIONS Frailty and Functional Impairment RM 309 Clinical Pharmacology in Patient Care Ballroom A How Transmission Networks Drive Epidemics RM 304 Gut and Immune Activation RM 312 Reproductive Hormones in Women: Impact on Risk and Barrier Dysfunction RM 311 Real-World Experiences with Hepatitis C Ballroom B/C	THEMED DISCUSSION CONCURRENT SESSIONS Kaposi Sarcoma RM 309 Pulmonary Complications of HIV Infection Ballroom A Incidence Assays RM 304 What We Learn From Bone Marrow Transplants RM 312 CNS Viral Escape and Neuroinflammation on ART RM 311
2:30 РМ	CONCURRENT WORKSHOPS	POSTER SESSIONS	POSTER SESSIONS	POSTER SESSIONS
4:00 рм	Clinical Trial Design and Analysis Frontiers in Laboratory Science Workshop Ballroom A Workshop for Clinicians Who Are New to Hepatitis C Management: A Case-Based Interactive Session RM 304	CONCURRENT SYMPOSIA Toward a Cure: A Challenging Game of Hide and Seek Ballroom B/C HCV and Beyond Ballroom A PrEP: Use It or Lose It RM 304	CONCURRENT SYMPOSIA TB: Looking to the Future: Resistance, Persistence, Monitoring, and Control Ballroom B/C Visualizing the Virus Ballroom A Know Your Epidemic: From Data to Action RM 304	CONCURRENT SYMPOSIA Interferon: Whatever Turns You On RM 304 The Road to Elimination: Preventing and Treating HIV Infection in Infants RM 311 Intimate Infections: What's Love Got to Do With It? RM 312
4:30 рм			ORAL ABSTRACT SESSION Malignancies and Pharmacology RM 312	
5:00 рм	Opening Session Bernard Fields Lecture: Making and Breaking Barriers to Cross-Species HIV-1 Transmission Auditorium		iviangnations and Filannacology Introle	
	N'Galy-Mann Lecture: Application of Scientific Knowledge and Evidence to Limit the Progression of HIV/AIDS and Fight Other Endemic Diseases in West Africa Close Auditorium Close			
7:00 рм	Welcome Reception			





