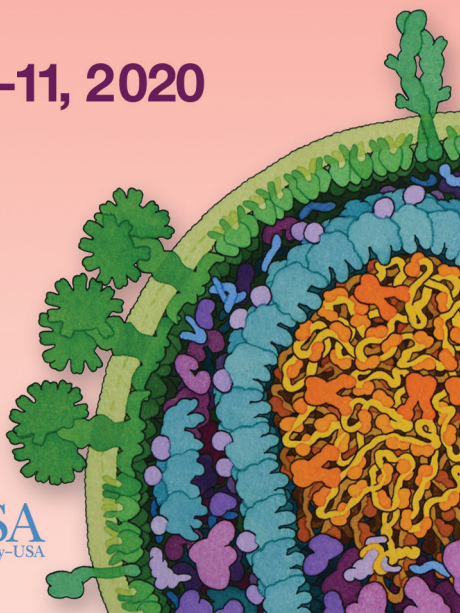


**Program and
Conference
Information**

CROI 2020

**Conference on Retroviruses
and Opportunistic Infections**

**Boston
March 8-11, 2020**



CONTENTS

CROI FOUNDATION	2
IAS—USA	3
CONTINUING MEDICAL EDUCATION	3
CROI 2020 PROGRAM COMMITTEE	6
Scientific Program Committee	6
Community Liaison Subcommittee	8
EXTERNAL REVIEWERS	9
SCHOLARSHIP AWARDEES	11
Activities for New Investigator Awardees	11
New Investigator Awardees	11
International Investigator Awardees	16
Community Educator Awardees	16
CONFERENCE INFORMATION	18
Overview	18
Conference Support	18
Conference Resources	19
WiFi Access at the Conference	19
Mobile App	19
Poster Videos	19
Website	19
Webcasts	19
USB Flashdrive	20
Affiliated and Proximate Activities Policy	20
Conference Badges	20
Conference Etiquette	20
VENUE	
Conference Services	21
Meals	22
Emergency Services	22
Overflow Accommodations	22
Americans With Disabilities Act	22
Child Care	22
CROI HOTELS	23
ABSTRACT PROCESS	25
Abstracts Related to Study Populations	27
PRECONFERENCE SESSIONS	28
SYMPOSIA, ORAL SESSIONS, AND THEMED DISCUSSIONS BY DAY	34
POSTER SESSIONS BY DAY	66
POSTER SESSIONS BY CATEGORY	173
INDEX OF PRESENTING AUTHORS	178
CONFERENCE SCHEDULE	INSIDE BACK COVER
CONVENTION CENTER FLOOR PLANS	BACK COVER

CROI FOUNDATION

The CROI Foundation is a 501(c)(3) not-for-profit professional organization that operates exclusively for the charitable and educational purpose of organizing, promoting, and presenting the annual Conference on Retroviruses and Opportunistic Infections (CROI).

Roles and Responsibilities of the CROI Foundation Volunteer Board of Directors

- Works closely with the CROI Program Committee (CROI PC) and the CROI Organizer to accomplish the mission of CROI
- Approves nominations for members of the CROI PC and the CROI PC Chair and Vice Chairs
- Ensures that the CROI PC is responsible for the scientific program content of CROI
- Enters into and oversees the partner agreement with the CROI Organizer
- Has the sole and absolute discretion to veto any policies, procedures, or actions taken or proposed that would pose a substantial risk of preventing the Foundation at any time from qualifying or continuing to qualify as a 501(c)(3) organization or that might cause the loss of such qualification
- Oversees the long-term financial and administrative integrity of CROI

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IAS–USA

The International Antiviral (formerly AIDS) Society–USA (IAS–USA) serves as the Conference Organizer for the logistical planning and organization for CROI in partnership with the CROI Foundation and Program Committee. The mission of the IAS–USA is to improve the prevention, treatment, care, and quality of life for people with or at risk of HIV or other viral infections and their associated health conditions through high-quality, relevant, balanced, and needs-oriented education and information for practitioners and scientists who are actively involved in medical care and research.

To access primary educational and informational programs sponsored by the IAS–USA, please visit www.iasusa.org for:

- Live CME courses and webinars available for sign up
- Archived webcasts of CME courses and webinars
- *Topics in Antiviral Medicine™*, including the annual CROI review
- Practice guidelines

CONTINUING MEDICAL EDUCATION

Accreditation Statement

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

The IAS–USA designates this live activity for a maximum of **17.50 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



Objectives

After participating in CROI 2020, participants will be able to:

- Describe basic science research advances in HIV
- List the most recent findings from clinical trials in the field of HIV and the implications of these data for state-of-the-art treatment strategies
- Describe current epidemiologic data on the prevalence of HIV infection, transmission, treatment, and linkage to and retention in care in populations worldwide; the implications of these data for public-health program planning; and current advances in biobehavioral prevention

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 researchers working in the field of 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 into different facets of HIV and its complications, as well as selected other emerging infections.

CME Credit Information

Physicians (MD, DO, and international equivalents) are eligible to receive CME credit for participation in CROI. CME credits can be claimed for premeeting workshops, opening session lectures, plenary lectures, and symposia. CME credits cannot be claimed for oral abstract sessions, themed discussion sessions, or poster sessions. For physician attendees certified by the American Board of Internal Medicine (ABIM), Maintenance of Certification (MOC) points are available for participation in CROI. Other researchers, practitioners, and attendees can receive a Certificate of Participation verifying their attendance, as required by the American Medical Association (AMA).

ABIM MOC Points

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to **17.50** MOC points in the ABIM MOC program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.



Claiming CME Credits, ABIM MOC Points, or a Certificate of Participation

During the conference, links to the daily and final evaluations will be available in your CROI profile on the CROI or IAS-USA website. Detailed instructions will be provided. You will need the email address that you **used to register for this conference** and your reference number (on your badge) to access this page. To obtain CME credits, ABIM MOC points, or a Certificate of Participation for CROI, all final evaluations and claim forms must be submitted by April 11, 2020. Once the final evaluation and posttest are submitted, your certificate will be uploaded to your CROI profile on the CROI or IAS-USA website.

To determine the number of CME credits, ABIM MOC points, or hours of participation that can be claimed, calculate time spent attending the conference activities, including premeeting workshops, opening session lectures, plenary lectures, and symposia. For example, if you attended 2 plenary talks (8:30 AM to 9:30 AM), and a symposium (4:00 PM to 6:00 PM), you would have a total of 3 hours to apply toward CME credits or ABIM MOC points (if applicable) for that day. At the end of CROI, please add the total hours you attended.

A CME/ABIM MOC hour worksheet can be found at www.CROIconference.org/sites/default/files/uploads/croi2020-cme-worksheet.pdf.

Disclosure of Financial Relationships

It is the policy of the IAS-USA to ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty members (planners, speakers, presenters, etc) participating in IAS-USA-sponsored activities are required to disclose to the program audience any financial relationships with commercial 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 financial relationships as "those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria for promotional speakers' bureau, ownership interest (eg, stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received, or expected. ACCME considers relationships of the person involved in the CME activity to include financial relationships of a spouse or partner. The ACCME has not set a minimum dollar amount for relationships to be significant. Inherent in any amount is the incentive to maintain or increase the value of the relationship."

The ACCME defines a commercial interest as “any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients. The ACCME does not consider providers of clinical service directly to patients to be commercial interests – unless the provider of clinical service is owned, or controlled by, an ACCME-defined commercial interest.”

The information is intended to make the audience aware of speaker and contributor interests and commitments with commercial interests, enabling the audience members to form their own judgments about such associations.

Each author, contributor, or person in control of content in the CME activity is required to complete this financial relationship 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 is detailed in the Abstract eBook and CROI Mobile App.

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.

The information in this Program and Conference Information Guide is current as of February 14, 2020. Subsequent program changes will be announced on the Mobile App and around the convention center.

CROI 2020 PROGRAM COMMITTEE

The Program Committee (PC) is a team of experts in their given field who volunteer to organize the scientific program for CROI. Members are selected based on their area of scientific expertise and their commitment to the mission of the conference. Initial terms are up to 3 years; subsequent terms are based on previous participation and interest level. Members are nominated by the PC and approved by the CROI Foundation Board of Directors. The PC members are responsible for identifying topics and speakers that will ensure innovative programming; strategic planning; abstract review and program development; and organizing, conducting, or convening workshops, symposia, and special sessions.

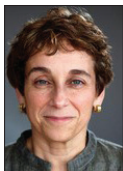
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The Community Liaison Subcommittee is a group of community educators and advocates that provides feedback to the PC about the content and structure of the scientific program in general and specifically related to scientific topics of interest to the HIV/AIDS-affected community.



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The CROI Foundation wishes to thank for their service the following individuals who rotated off the Program Committee in 2019:

Jintanat Ananworanich, MD, PhD

Paul Bieniasz, PhD

Nelly R. Mugo, MBChB, MPH

And our thanks to those who rotated off the Community Liaison Subcommittee in 2019:

Morenike Ukpogon, FWACS, MBA, BChD

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We gratefully acknowledge the contributions of the following, who, in addition to the scientific program committee members, served as volunteer external reviewers of abstract submissions for CROI 2020.

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SCHOLARSHIP AWARDEES

CROI is committed to supporting new and early career investigators working in HIV research to help them further their education and to network with other researchers in the field. New Investigator Scholarship awardees are presenting authors on accepted abstracts and have been highly recommended by their mentors.

In addition, CROI offers scholarships to international investigators and community educators working in resource-limited countries who would otherwise be unable to attend CROI. Through their applications and letters of recommendation, these awardees have shown that they will greatly benefit from the opportunity to participate in CROI.

For more information regarding CROI scholarships, please visit:
www.CROIconference.org/scholarships

CROI features the following special content for New Investigator Scholarship recipients:

Optional Session: The Hitchhiker's Guide to NIH Funding for HIV/AIDS Research

Sunday, March 8, 2020, at 8:00 AM

Ballroom BC

This optional session will assist applicants looking for funding from the National Institutes of Health to better match their fields of science to the standing study sections, anticipate the expectations of reviewers, and seek out information and clarity on review policy changes.

Scientific Program Committee Workshop for New Investigators and Trainees

Sunday, March 8, 2020, at 9:00 AM

Ballroom BC

This **required** workshop for New Investigator scholarship recipients will highlight key presentations at CROI 2020 in basic, translational, and clinical, and epidemiology/public health research.

NEW: Breakfast Networking Sessions for New Investigators

Monday, Tuesday, and Wednesday, at 7:15 AM

Rooms 109, 110, and 111

Each day, 3 leaders in HIV research will briefly preview the content of the day at CROI in basic science, clinical, and epidemiology/public health research. Following the overviews, the speakers will network with attendees in small-group breakouts. Breakfast will be available in the room prior to the start of the session. **Attendance is limited to New Investigator Scholarship awardees who signed up in advance.**

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Gothenburg University

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BC Centre for Excellence in HIV/AIDS

Leticia Kuri Cervantes

University of Pennsylvania

Daniel Kvistad

University of Miami

Abena Kwaa

The Johns Hopkins University

Yen-Ting Lai

National Institutes of Health

Jillian S.Y. Lau

Alfred Hospital

Quentin Le Hingrat

University Paris Diderot

Paul Le Turnier

CHU de Nantes

Chenglei Li

National Cancer Institute

Xiaojun Li

Duke University

Xiaodong Lian

Ragon Institute of MGH, MIT and Harvard

August Andrew Longino

University of Washington

Claire E. Lyons

The Johns Hopkins University

Tongcui Ma

Gladstone Institutes

Jessica L. Maksut

The Johns Hopkins University

Thokozile Rosemary Malaba

University of Cape Town

Jowanna Malone

The Johns Hopkins University

Miguel Angel Marin

IrsiCaixa AIDS Research Institute

Andrea Lynn Martin

University of Washington

Paula Martínez-Román

Instituto de Salud Carlos III

Javier Martínez-Sanz

University Hospital Ramón y Cajal

Núria Massana

Vall d'Hebron Research Institute

Mary Clare Masters

Northwestern University

Sarah Masyuko

National AIDS and STIs Control Programme

Kushagra Mathur

University of California San Diego

Rodrigo Matus-Nicodemos

National Institutes of Health

Padraig McGettrick

University College Dublin

Tara McGinty

University College Dublin

Thembi Mdluli

US Military HIV Research Program

Kate M. Mitchell

Imperial College London

Etiene Moreira Gabriel

Université de Montréal

Nokukhanya Msomi

National Health Laboratory Service

Mohamed Husen Munshi

National Cancer Institute

George Mwinnyaa

The Johns Hopkins University

Ni Gusti Ayu Nanditha

BC Centre for Excellence in HIV/AIDS

Joanita Nangendo

Makerere University

Ashley N. Nelson

Duke Human Vaccine Institute

Ujjwal Neogi

Karolinska Institutet

Thu T.M. Nguyen

Duke University Medical Centre

Thuy Thi Thu Nguyen

University of North Carolina at Chapel Hill

Nadia Nguyen

New York State Psychiatric Institute

Bokani Nleya

University of Cape Town

Maggie Nyirenda Nyang'wa

University of Malawi

Dorothy Chiwoniso Nyemba

University of Cape Town

Veronica Obregon-Perko

Emory University

Jasantha Odayar

University of Cape Town

Doty Achieng Ojwach

University of KwaZulu-Natal

Elizabeth C. Okafor

University of Minnesota

Cassandra Oliver

Vanderbilt University

Matthew T. Ollerton

University of Arizona

Katrina Frances Ortblad

University of Washington

Yolanda María Pacheco

Biomedicine Institute of Seville

Jee Won Park

University of California Los Angeles

Monica Parks

University of California San Francisco

Sean Patro

National Cancer Institute

Catherine Pearson

University of California San Francisco

Michael J. Peluso

University of California San Francisco

Claudia Pinacchio

University of Rome

Cecilia Prator

University of California San Francisco

Henriëke A.B. Prins

Erasmus University Medical Center

Maria Pyra

Howard Brown Health Center

Kendra K. Radtke

University of California San Francisco

Sarath Raju

The Johns Hopkins University

Rayoun Ramendra

McGill University

Cosnet Lerato Rametse

University of Cape Town

Adrià Ramírez Mena

University Hospital of Bern

Tanko F. Ramlá

University of Cape Town

Darcy White Rao

University of Washington

Philippe Rasclé

Institut Pasteur

Stephen Arthur Rawlings

University of California San Diego

Jonathan Rawson

National Cancer Institute

Carlotta Riebensahm

University of Bern

Stefano Rinaldi

University of Miami

Kathryn Amanda Risher

London School of Hygiene and Tropical Medicine

Miguel Rodríguez-Fernández

Hospital Virgen de Valme

Andreas Ronit

Copenhagen University Hospital

Emily Rowlinson

University of Washington

Katherine Rucinski

The Johns Hopkins University

Ruramayi Rukuni

Biomedical Research and Training Institute

Frida Rydberg

Sahlgrenska University Hospital

Prabhu S Arunachalam

Stanford University

Sahar Saeed

Washington University in St Louis

Marta Sanz

Hospital Ramón y Cajal

Stefano Savinelli

University College Dublin

Charlie F. Saylor

The Icahn School of Medicine at Mt Sinai

Samuel Richard Schnittman

University of California San Francisco

Isabella Christina Schoepf

Kantonspital Baselland

Rossana Scutari

University of Rome Tor Vergata

Kennarey Seang

University of California Los Angeles

Shorok Sebaa

University of Cape Town

Sabrina Sevilla

University of Nevada—Reno

Charlotte-Eve Sophia Short

Imperial College London

Brady Jon Sillman

University of Nebraska Medical Center

Richard Silvera

Icahn School of Medicine at Mt Sinai

Britt Skaathun

University of California San Diego

Casey Smiley

Vanderbilt University

Marie-Soleil R. Smith

University of British Columbia

Wipaporn Natalie Songtaweessin

Chulalongkorn University

Hannah Sabeth Sperber

Vitalant Research Institute

Matthew A. Spinelli

University of California San Francisco

Felix Stader

University Hospital Basel

Randy Stalter

University of Washington

Melanie Stecher

University of Cologne

Karl Stefic

Université de Tours

Paula Suanzes

University Hospital Vall d'Hebron

Alfredo Tagarro

Fundación Investigación Biomédica Hospital 12 Octubre

Phillip Tomczsko

Harvard University

Diana M. Tordoff

University of Washington

Milana Vachuska

University of California San Diego

Eugenio Valdano

University of California Los Angeles

Malon Van den Hof

Emma Children's Hospital

Ricardo de Paula Vasconcelos

University of Sao Paulo

Frances Vernon

University of Colorado

Rosanne Verwijs

Erasmus University Medical Center

Lorena Vigón

Instituto de Salud Carlos III

Hylke Waalewijn

Radboud University Medical Centre

Xiao Qian Wang

The Westmead Institute for Medical Research

Zheng Wang

University of Pittsburgh

Catherine J. Wedderburn

London School of Hygiene and Tropical Medicine

Julian Weiss

Yale University

Shamaya Whitby

Oak Ridge Associated Universities

Andrew B. Wilson

George Washington University

Bethel Woldu

The Johns Hopkins Hospital

Colline Wong

Brigham and Women's Hospital

Fei Wu

Tulane University

Jenna Yager

University of Colorado

H Manisha Yapa

University of New South Wales

Yang-Hui Yeh

Yale University

Alexis Yero

Université du Québec à Montréal

Katherine Yu

Western University

Sonia Zicari

Bambino Gesù Children's Hospital

Jerry Simbarashe Zifodya

University of Washington Medical Center

Kathrin Zürcher

University of Bern

International Investigator Awardees

Mahmoud Tareq Abdelwahab

University of Cape Town

Adedayo Olubunmi Adeyemi

Centers for Disease Control and Prevention

Gbolahan Ajibola

Botswana Harvard AIDS Institute Partnership

Kim Anderson

University of Cape Town

Vivian Iida Avelino-Silva

University of Sao Paulo

Mara Biasin

University of Milan

Prossy Bibangambah

Mbarara University of Science and Technology

Michael Terence Boswell

University of Oxford

Johannes Christiaan Botha

Stellenbosch University

Maganizo Chagomerana

University of North Carolina Project—Malawi

Jun Chen

Shanghai Public Health Clinical Center

Veronique De Jager

Task Applied Science

Jose Francis

University of Cape Town

Lisa Frigati

Stellenbosch University

Sivaporn Gatechompol

Thai Red Cross AIDS Research Center

Nduva Makau George

Kenya Medical Research Institute

Sethunya Gotulweng

Botswana Harvard Partnership

Rulan Griesel

University of Cape Town

Kondwani C. Jambo

Malawi-Liverpool-Wellcome Trust Clinical Research Programme

Moses Katbi

US Agency for International Development

Patrick Katoto

Catholic University of Bukavu

Darix Ssebaggala Kigozi

Rakai Health Sciences Program

Tadeo Kandole Kiiza

Makerere University

Stanzi Maria le Roux

University of Cape Town

Kwana Lechiile

Botswana Harvard Partnership

Rory Forseth Leisegang

Uppsala University

Lara Lewis

Centre for the AIDS Programme of Research in South Africa

Hlengiwe Pretty Madlala

University of Cape Town

Neema Makyao

National AIDS Control Program

Ashokkumar Manickam

National Institute for Research in Tuberculosis

Emily Martyn

Makerere University

Gaerolwe Masheto

Botswana Harvard Partnership

Grace McHugh

Biomedical Research and Training Institute

Grace Mongo-Bua

Rakai Health Sciences Program

Muhammed Shiraz Moosa

University of Cape Town

Jorge Salomão Moreira

University of Sao Paulo

Johannes P. Mouton

University of Cape Town

Sikhulile Moyo

Botswana Harvard Partnership

Elton Emmanuel Mukonda

University of Cape Town

Randy George Mungwira

World Health Organization

Hadijja Nakawooya

Rakai Health Sciences Program

Chuanyi Ning

Guangxi Medical University

Samuel Pierre

GHSKIO

Maria Laura Polo

National Scientific and Technical Research Council

Morris Kyoza Rutakingirwa

Infectious Diseases Institute

Theodora Savory

Center for Infectious Disease Research

Pavlo Smyrnov

Alliance for Public Health

Betty Bawuba Tukei

Right to Care

Marta Vasylyev

Lviv Regional Public Health Center

Ly Trieu Vo

Ho Chi Minh City Medicine and Pharmacy University

Elizabeth Wahome

Kenya Medical Research Institute

Beatrice Wamuti

University of Washington

Tanyaporn Wansom

Dreamlopmments

Community Educator Scholarship Awardees

Oluwatosin Bamidele Alaka

New HIV Vaccine and Microbicide Advocacy Society

Giorgio Barbareschi

European AIDS Treatment Group

Devi Leena Bose

International AIDS Vaccine Initiative

Damian Cabrera

SexTEAM

Giulio Maria Corbelli

Plus Onlus

Michael Dorosh

Treatment Education Network

Denis Godlevskiy

AIDS Statistics Health

Ángel L. Hernández

University of Puerto Rico

Rena Janamnuysook

HIV—NAT, Thai Red Cross AIDS Research Centre

Andy H. Kaytes

University of California San Diego

Sandris Klavins

AGIHAS

(continued on next page)

Community Educator Scholarship Awardees (continued)

Grace Kumwenda

Pakachere Institute of Health and
Development Communication

Udom Likhitwonnawut

Thai Red Cross AIDS Research Center

Michael Meulbroek

Asociación para el Transplante de Órganos a Seropositivos

Kennedy Mupeli

Center for Youth of Hope

Kyomuhangi Lilian Mworekom

International Community of Women Living with
HIV Eastern Africa

Shakirah Namwanje

Peer to Peer Uganda

Simon Odiwuor Ondiek

Centre for Health Advocacy, Research and Programs

David A. Palm

University of North Carolina

Ace Robinson

National Minority AIDS Council

Paul Sixpence

Centre Stage Media Arts Foundation

Marcelo Maia Soares

ACT UP New York

Jeff Taylor

HIV+Aging Research Project

Harry Clayton Tembo

Zambia Community Advisory Platform

Mercy Mutonyi Wafula

Bar Hostess Empowerment and Support Program

CONFERENCE INFORMATION

Overview

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 includes up to 4000 HIV research and care leaders internationally. CROI has facilitated the presentation of important discoveries in the field, thereby accelerating progress in HIV and AIDS research.

Conference Support

CROI is largely supported by participant registration fees. CROI registration fees cover all hosted attendee meals (including the welcome reception) and travel expenses for invited participants (eg, speakers, leaders, moderators, and CROI PC members), as well as selected meeting materials and other conference expenses.

CROI seeks grants from 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 CME portions of the program or abstract review and selection processes. Commercial support is used to cover some of the costs of the conference venue, audiovisual services, and other conference expenses.

CROI 2020 received grant support commitments from the following commercial companies:

PLATINUM SUPPORTERS

Gilead Sciences, Inc.

Janssen Therapeutics

Merck & Co., Inc.

ViiV Healthcare

Additional support has been provided by

AbbVie Inc.

Theratechnologies Inc.

Conference Resources

WiFi ACCESS AT THE CONFERENCE

Complimentary WiFi access is provided at the conference venue. Network information is as follows:

Network name: **CROI2020**

The WiFi password will change daily to prevent devices from automatically connecting to the network. Limiting the number of concurrent devices will help maximize the internet speeds for those devices actively in use. The password for each day of the conference is listed below, and is **case sensitive**.

Saturday password: **2020saturday**

Sunday password: **2020sunday**

Monday password: **2020monday**

Tuesday password: **2020tuesday**

Wednesday password: **2020wednesday**

If you are having a problem with WiFi access, please contact an IAS—USA staff member.

MOBILE APP

To access the CROI Mobile App, use your reference number (on your name badge) and the email address you used to register for CROI.

The CROI 2020 Mobile App has many features to enhance your conference experience, including to:

- View abstracts
- Find information about speakers and other CROI attendees
- Contact and communicate with other CROI attendees
- Create a personal calendar of the sessions you plan to attend
- Email session notes
- Receive the latest changes to the CROI program
- View electronic posters and video descriptions of presentations

The Mobile App is compatible with iOS and Android devices. Search “CROI 2020” in your mobile device App store. Access is restricted to registered attendees. Your login information and password are provided with the registration materials.

POSTER VIDEOS

Poster presenters may upload a short video (up to 5-minute description) of their research. Poster presenter videos are available to attendees during the conference via the CROI Mobile App and to the public after the conference on the CROI website.

WEBSITE

For additional information about the conference and to access electronic materials, please visit the website at www.CROIconference.org.

The final Abstract eBook (flip book and PDF versions) will be available for public download following the conference. Abstracts from CROI 2020 can be viewed and downloaded in the searchable database during the conference. Abstracts and electronic posters from CROI 2014 to 2019 are available at www.CROIconference.org/abstracts/search-abstracts/

WEBCASTS

Plenary lectures, symposia, oral abstract sessions, and themed discussions will be available as webcasts within 24 hours of the end of the relevant session. Webcasts are also available as streaming videos for the Apple iPad and iPhone.

Visit www.CROIconference.org or www.CROIwebcasts.org to access the CROI webcasts.

USB FLASH DRIVE

Any registrant who purchased a **USB flash drive** with the Abstract eBook loaded will receive it in their welcome packet at registration. Abstracts can also be found in the **Abstract eBook** and searchable database on the CROI website after the session in which the abstract is presented.

Affiliated or Proximate Activities

The goal of CROI is to promote meaningful, high-level scientific interchange of ideas and debate in order to find better ways to prevent, treat, and cure HIV/AIDS. In keeping with this goal, organizations (commercial companies and their agents, not-for-profit groups, government agencies, etc) have been approved to host Affiliated or Proximate Activities occurring outside CROI session times. Affiliated or Proximate Activities are not sponsored by, endorsed by, or supported by the IAS–USA, the CROI Foundation, or CROI 2020. **An Affiliated or Proximate Activity is one that occurs during or immediately before or after CROI, and involves any CROI attendees.**

If an activity is found to have violated the Guidelines for Affiliated or Proximate Activities, the sponsoring organization, the supporting organization, and the organizer of the meeting may be prohibited from holding an Affiliated or Proximate Activity at future CROI conferences and may have their current registration revoked. Noncompliance may be subject to fines and damages, and could negatively impact the registration status and attendance of those attending an unapproved activity.

In the spirit of CROI and the goal of promoting scientific collaboration among colleagues, if you are invited to or are attending a meeting or activity that you feel may not have been approved by CROI, please contact an IAS–USA staff member in the IAS–USA office.

Conference Badges

Badge pickup is available at the registration lobby; please bring government-issued photo identification that clearly shows your name. The CROI badge must be worn at all times during the conference in order to gain entry to all official meeting activities, including the poster sessions. Attendees will not be admitted into the meeting spaces without their CROI badge. **THE CROI BADGE MAY ONLY BE USED BY THE PERSON NAMED ON THE BADGE AND CANNOT BE TRANSFERRED OR SHARED WITH OTHERS. USING ANOTHER INDIVIDUAL'S BADGE OR GIVING YOUR BADGE TO SOMEONE ELSE TO GAIN ACCESS TO THE CONFERENCE IS STRICTLY PROHIBITED AND IS A VIOLATION OF CROI POLICIES.**

DO NOT LOSE YOUR BADGE. Payment of US \$885 will be required to replace a lost badge.

Conference Etiquette

Please ensure all mobile devices are turned off or set on SILENT mode in session rooms. In consideration for the work of the presenters at CROI and the CROI copyright policy, attendees may not photograph posters, record parts of talks, or post data without the presenter's consent.

VENUE

Conference Services	Location	Hours
Badge Pickup	Registration	Saturday: 3:00 PM – 6:00 PM
Attendee Services	Area on the	Sunday: 7:00 AM – 7:00 PM
Housing Information	Plaza Level	Monday to Wednesday: 7:30 AM – 6:00 PM
Note: Badges and conference materials can be picked up at this location.		
Continental Breakfast	2nd Floor Prefunction Area	Monday to Wednesday: 7:30 AM – 8:30 AM
Boston Visitors Information	Registration Area on the Plaza Level	Saturday: 2:30 PM – 7:30 PM Sunday: 2:00 PM – 9:00 PM Monday to Wednesday: 10:00 AM – 6:00 PM
Note: Local Information and reservations assistance.		
Bag and Coat Check	Plaza Level Room 107	Sunday: 8:00 AM – 9:30 PM Monday to Wednesday: 7:00 AM – 6:30 PM
Note: Bag and coat check are free of charge.		
Cyber Cafe	3rd Floor Boylston Hallway	Saturday: 3:00 PM – 6:00 PM Sunday: 7:00 AM – 7:00 PM Monday to Wednesday: 7:00 AM – 6:00 PM
Note: Computers with internet access are available.		
Media Center	Room 210	Sunday: 10:00 AM – 7:00 PM Monday to Wednesday: 8:00 AM – 6:30 PM
Note: The Media Center is a work space with WiFi and is the location of the daily press conferences open exclusively to registered, accredited media.		
IAS–USA Office	Room 203	Saturday: 3:00 PM – 6:00 PM Sunday to Wednesday: 7:00 AM – 6:00 PM
Note: IAS–USA staff are available to answer questions or concerns regarding the conference.		
Speaker Ready Room	Room 200	Saturday: 3:00 PM – 6:00 PM Sunday to Wednesday: 6:00 AM – 6:00 PM
Note: Oral abstract, invited, and themed discussion session speakers must drop off presentations here at least 24 hours before their presentation. Poster presenters must submit an electronic version of their poster through the abstract submission website before the start of the conference.		
Personal Considerations Room	Room 308	Saturday: 3:00 PM – 6:00 PM Sunday: 9:00 AM – 7:00 PM Monday to Wednesday: 8:00 AM – 6:00 PM
Note: The Personal Considerations Room is set aside for those who require a short-term private space for personal health needs. This room is available on a first-come, first-served basis.		
New Mother's Room	Room 307	Saturday: 3:00 PM – 6:00 PM Sunday: 9:00 AM – 7:00 PM Monday to Wednesday: 8:00 AM – 6:00 PM
Note: The New Mother's Room is set aside for nursing mothers who require a short-term private room. Use of this room is on a first-come, first-served basis. There is also a Mamava Nursing Pod at the Plaza Level Prudential entrance to the convention center.		
Networking Areas	Cafeteria, Rooms 303, 305, and Poster Halls	Saturday: 3:00 PM – 6:00 PM Sunday: 9:00 AM – 7:00 PM Monday to Wednesday: 8:00 AM – 6:00 PM
Note: These areas are set up with tables and chairs for attendees to gather and network with colleagues.		
Convention Center Emergency Medical Services	Registration Area on the Plaza Level	Sunday: 9:00 AM – 9:00 PM Monday to Wednesday: 8:30 AM – 6:00 PM

Meals

Morning coffee and a light continental breakfast will be available to conference registrants from 7:30 AM to 8:30 AM, Monday, Tuesday, and Wednesday, in the 2nd Floor prefunction area outside of the Auditorium. An afternoon snack break will be available at 2:30 PM in the Poster Halls. Attendees are on their own for all other meals, including lunch and dinner, each day. If you have downloaded the CROI Mobile App in your mobile device, you may access a list of food service options located in the conference venue or within a short walking distance.

Emergency Services

In the event of an emergency please contact the convention center command center, open 24 hours daily, or notify CROI staff. The command center can be reached at (617) 954-2111 and is located by the Boylston Street entrance to the convention center. In addition, security desks are located throughout the building at each of the building's entrances.

The convention center Emergency Medical Services are located in the registration area on the plaza level.

Overflow Accommodations

Simultaneous overflow is located in Room 302. Screens will live stream all of the concurrent sessions (Oral Abstracts, Themed Discussions, and Symposia). Headsets with an audio switch will be available for easy transitioning between the concurrent session channels.

Overflow monitors for individual session rooms will become available as needed. CROI staff will direct you to these locations.

Americans with Disabilities Act

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

Child Care

Out of respect for the presenters and conference attendees, children are not permitted in meeting rooms, including the poster halls. If you require child care services, you may refer to the following resources suggested by local hosts. You may also contact the concierge of your hotel. The following list is provided by Signature Boston as a courtesy only.

Boston Sitter Company

www.bostonsitterco.com/services

Care.com

www.care.com

CROI HOTELS

CROI 2020 hotels are listed below. For more detailed housing information, please visit the CROI 2020 conference website: www.CROIconference.org/housing. Conference attendees are required to stay in one of the official conference hotels. The few exceptions to this include registrants who live in the Conference area (ie, within a 50-mile radius of the conference venue) and registrants who are sharing a room with an approved CROI attendee with accommodations booked via the CROI housing system.

Boston Marriott Hotel Copley Plaza

110 Huntington Ave
Boston, MA 02116
Phone: + 1 617 236-5800

Midtown Hotel

220 Huntington Ave
Boston, MA 02115
Phone: + 1 617 262-1000

Boston Park Plaza

50 Park Plaza
Boston, MA 02116
Phone: + 1 617 426-2000

Revere Hotel Boston Common

200 Stuart St
Boston, MA 02116
Phone: + 1 617 482-1800

The Colonnade

120 Huntington Ave
Boston, MA 02116
Phone: + 1 617 424-7000

The Revolution

40 Berkeley St
Boston, MA 02116
Phone: + 1 617 848-9200

Fairmont Copley Plaza

138 St James Ave
Boston, MA 02116
Phone: + 1 617 267-5300

Sheraton Boston

39 Dalton St
Boston, MA 02199
Phone: + 617 236-2000

Hilton Boston Back Bay

40 Dalton St
Boston, MA 02115
Phone: + 1 617 236-1100

Westin Copley Place

10 Huntington Ave
Boston, MA 02116
Phone: + 1 617 262-9600

Mandarin Oriental

776 Boylston St
Boston, MA 02199
Phone: + 1 617 535-8888

* Any hotels added after February 11, 2020, are not reflected.



ABSTRACT PROCESS

Track	Scientific Category
Basic Science	A. Virology B. Pathogenesis: Human Studies and Animal Models C. HIV-Associated Tumor Viruses D. Host Immune Responses to Infection, Vaccines, and Immunotherapy E. HIV Reservoirs, Latency, and All Curative Strategies Including Therapeutic Vaccines and Gene Therapy F. Neuropathogenesis and Neurologic Complications
Clinical	G. Clinical Pharmacology H. Antiretroviral Therapy: Pre-Clinical Data, Randomized Trials, Efficacy and Effectiveness Studies I. HIV Drug Resistance J. Hepatitis Viruses and Liver Complications K. AIDS-Related Malignancies L. Cardiovascular Complications of HIV Infection and Antiretroviral Therapy M. Other Complications of HIV Infection and Antiretroviral Therapy N. Tuberculosis and Other Opportunistic Infections O. Maternal and Fetal HIV P. Pediatrics and Adolescents
Epidemiology/ Public Health	Q. Epidemiology R. Testing S. Prevention Interventions T. Contraception, Sexually Transmitted Infections, and Reproductive Health U. Implementation and Scale-Up of Treatment and Care

Note: The following colors are used throughout the CROI Program and Information Guide and Poster Halls to group abstract poster presentations in their assigned track:

- Basic Science Track = Purple
- Clinical Track = Red
- Epidemiology/Public Health Track = Blue

Abstract Content

Author names, institutions, titles, and abstracts in the CROI Program and Information Guide, Abstract eBook, Mobile App, and other materials are presented largely as submitted by the submitting author. The submitting author is responsible for ensuring that all coauthors have reviewed and approved the abstract before submission and for providing the complete and accurate contact information for all authors, including email address. **THE SUBMITTING AUTHOR MUST ENSURE THAT THE EMAIL ADDRESSES OF ALL LISTED AUTHORS IN THEIR SUBMISSION ARE CORRECT** in order for authors to receive important information regarding dispositions, presentation details, registration and housing information, and other CROI-related announcements.

Special Notes on Abstract Content

Presentations from randomized trials and cohorts should follow the International Committee of Medical Journal Editors (ICMJE) guidelines, including reporting of study designs, (eg, prospective, observational, randomized, double-blind, STROBE, CONSORT, or others), statistical methods, and outcomes by demographic variables.

Appropriate information and correct terminology should be used with regard to **sex and gender**. For human clinical or epidemiologic studies, sex-stratified results should be provided or who was included if the study includes only a single population. Appropriate terminology such as cisgender (people whose gender match the sex assigned at birth) or transgender (people whose gender does not match the sex assigned at birth) should be used. Both sex and gender data should be provided in the presentation. Presentations of preclinical data including use of cell lines and animal studies should include the sex of the animals or the sex of the source of the cell lines. If data are not available on sex and gender, this should be identified as a limitation in your presentation.

Out of respect for their contributions to our scientific advances, avoid calling study volunteers “subjects.” The **preferred terms** are study “participants” or “volunteers.”

Presenting Author Responsibilities

The presenting author is responsible for presenting the abstract at the conference and must be present at the poster during the entire session. **Submitting authors are responsible for ensuring that all coauthors have reviewed and approved the abstract contents before submission.**

Embargo Policies and Social Media

All research presented at CROI 2020 is embargoed until the conclusion of the study’s presentation at the conference. For example, if a study is presented from 2:15 PM to 2:30 PM, as part of a session that begins at 2:00 PM and ends at 3:00 PM, the embargo on that study lifts at 2:30 PM. Embargoes on poster presentations lift at the beginning of the session in which the poster is presented.

If a study to be presented at CROI 2020 is included in an official CROI press conference that takes place before the scheduled presentation of the study, the embargo on that study lifts at the conclusion of the press conference panel in which the study is featured.

No public dissemination of research information from the conference is permitted prior to the lifting of the conference embargo. CROI embargo policies apply to any public dissemination of research information presented at the conference, including electronic publications (eg, blogs) or social media (eg, Twitter, Instagram, Facebook). Individuals or organizations that violate the conference embargo policy may have their conference credentials revoked and may forfeit the opportunity to participate in future conferences.

Abstract Review Process

The PC and a panel of volunteer external reviewers reviewed more than 2000 submitted abstracts. Each abstract was reviewed by 5 to 10 reviewers selected for each abstract category based upon their individual expertise.

Abstracts were reviewed for the quality and originality of the work and were scored numerically. All reviewers were instructed to abstain from scoring any abstract on which they are an author or coauthor, have a financial or personal conflict of interest, or do not have the appropriate expertise to evaluate.

Scores for each abstract were averaged and the standard deviation was calculated to assess variability. If variability was high, outlier scores were discussed. Abstracts were accepted for oral presentations, for poster presentations, or rejected. Late-breaking abstract reviews included an assessment of the late-breaking nature of the work (distinct from a late submission, as they must meet a high threshold of scientific merit).

Common Reasons for Abstract Rejection

- Subject matter is not appropriate for CROI
- All coauthors did not approve the abstract prior to submission
- Information is not novel (new enough)
- Abstract is duplicative of other submissions
- Format does not follow guidelines (eg, data missing, more than 1 table or figure submitted)
- Submission is poorly written and difficult to understand
- Background does not summarize the hypothesis
- Methodology is inadequate or insufficient to support conclusions
- Controls are absent or inadequate
- Statistical evaluation is inadequate or absent
- Summary of essential results is inadequate or absent
- Data are not included or offer inadequate or insufficient support for conclusions
- Submission reports clinical trial data from unplanned analyses or incomplete or ongoing studies

Statistics for Abstracts

General abstract submitted	1852
General abstracts accepted.....	1035
General oral abstracts	85
General poster abstracts	878
Late-breaking abstracts submitted	188
Late-breaking abstracts accepted	46
Late-breaking oral abstracts	17
Late-breaking poster abstracts	29
Total abstracts submitted.....	2040
Total abstract accepted	1081

All Representing Authors on Accepted Abstracts

Region	N	Percent
Africa	84	9%
Asia	17	2%
Australia	19	2%
Central and South America	10	1%
Europe	206	23%
North America	570	63%

Abstracts Related to Study Populations

1. Adolescents	52
2. Men who have sex with men (MSM)	118
3. People who inject drugs (PWID)	38
4. Transgender men or women	19
5. Women.....	114

Authors have noted specific populations as the focus of their study, if applicable. Indexes that list abstracts that relate to specific populations are on the CROI Mobile App and Abstract eBook on the CROI website. These indexes are developed for attendees with an interest in these areas.

PRECONFERENCE SESSIONS

SUNDAY MARCH 8, 2020

Optional Workshop THE HITCHHIKER'S GUIDE TO NIH REVIEW FOR HIV/AIDS RESEARCH

Ballroom BC

8:00 AM – 8:50 PM

Target Audience: This optional workshop is directed toward senior postdoctoral fellows and new investigators. However, it is open to all CROI attendees.

Level of Knowledge: It is assumed that the participants have been conducting active research in the field for fewer than 3 years.

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

- Match their fields of science to the standing study sections
- Explain the expectations of reviewers
- Identify how to seek out information and/or clarity on review policy changes



WELCOME

Guido Silvestri, *Emory University, Atlanta, GA, USA*



OVERVIEW OF HIV/AIDS REVIEW AT CSR

Shiv A. Prasad, *National Institutes of Health, Bethesda, MD, USA*



THE NIH GRANT APPLICATION PROCESS

Dimitrios Vatakis, *National Institutes of Health, Bethesda, MD, USA*



A NEW INVESTIGATOR'S PERSPECTIVE

Sarah Beth Joseph, *University of North Carolina, Chapel Hill, NC, USA*

Workshop W-01 PROGRAM COMMITTEE WORKSHOP FOR NEW INVESTIGATORS AND TRAINEES

CME

Ballroom BC

9:00 AM - 12:25 PM

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). Attendance is mandatory for all scholarship recipients and it is open to all CROI attendees.

Level of Knowledge: It is assumed that participants have been conducting active research in the field for fewer than 3 years.

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

- Describe the current state-of-the-art of selected areas of HIV basic, epidemiologic, and clinical research
- List the leading research themes being presented at CROI 2020
- Navigate CROI 2020, maximize the knowledge gained, and interact with research colleagues
- Clarify their individual research interests in relation to the priorities discussed at the workshop and CROI 2020 overall

Conveners

John W. Mellors, *University of Pittsburgh, Pittsburgh, PA, USA*

Serena S. Spudich, *Yale University, New Haven, CT, USA*



1 PROGRAM COMMITTEE WORKSHOP FOR NEW INVESTIGATORS AND TRAINEES



ADVANCES IN MOLECULAR VIROLOGY

Wesley I. Sundquist, *University of Utah, Salt Lake City, UT, USA*



ADVANCES IN HIV IMMUNOLOGY AND VACCINES

Richard A. Koup, *National Institutes of Health, Bethesda, MD, USA*



ISSUES IN MATERNAL, INFANT, AND CHILD HEALTH

Hermione Lyall, *Imperial College Healthcare NHS Trust, London, UK*



ADVANCES IN HIV PREVENTION

Susan P. Buchbinder, *San Francisco Department of Public Health, San Francisco, CA, USA*



ADVANCES IN HIV CURE

Nicolas Chomont, *Université de Montréal, Montreal, Canada*

LUNCH AND MARTIN DELANEY PRESENTATION

Ballroom BC

CME

12:25 PM - 1:40 PM

Description: The Martin Delaney Presentation is held annually during the workshops for New Investigators, International Investigators, and Community Educator Scholars in honor of pioneering HIV/AIDS activist Martin Delaney (1945–2009). It recognizes the important contributions of community advocacy and engagement in research.

Target Audience: This session is directed toward new trainees (eg, undergraduate students, graduate students, postdoctoral fellows, and physician fellows), new investigators (both international and domestic), and community educators. Attendance is mandatory for all scholarship recipients and is open to all CROI attendees.

Level of Knowledge: It is assumed that participants have been conducting active research in the field for less than 1 year.

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

- Describe the "dying from, living with, thriving despite" trajectory of the HIV epidemic
- Assess the role of stigma in the lives of people living with HIV over the life course
- Describe the physical and mental challenges associated with living with HIV over the life course and how these challenges impact the management of HIV disease and overall holistic health

Moderator

Jim Pickett, *AIDS Foundation of Chicago, Chicago, IL, USA*



Panelists

Martha Tholanah

Just Associates, Harare, Zimbabwe

Gabriel Maldonado, MBA

TruEvolution, Los Angeles, CA, USA

Celeste Watkins-Hayes

Northwestern University, Evanston, IL, USA



2 SHIFTING FROM ACUTE TO CHRONIC, AGING, LONGEVITY AND LIVED EXPERIENCE

Workshop W-02 FRONTIERS IN LABORATORY SCIENCE
Room 304-306

CME

2:00 PM - 4:00 PM

Target Audience: This session is directed to students, researchers, and clinicians who are interested in learning the hot new technologies that are influencing HIV research or hold a substantial potential for research.

Level of Knowledge: It is assumed that the participants are familiar with the main technologic and data analysis approaches used in HIV research.

Objectives: After attending this session, learners will be able to:

- Describe new synthetic vaccine design approaches
- Explain replication-competent latent viruses
- Explain how viral integration is defined
- Describe new EpiTOF approaches to probe the epigenome

Conveners

Galit Alter, *Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, USA*

Frank Kirchhoff, *Ulm University Medical Center, Ulm, Germany*



3 SHAPING VACCINES WITH DNA ORIGAMI

Mark Bathe, *Massachusetts Institute of Technology, Cambridge, MA, USA*



4 CONCEPTS IN RESERVOIR MEASUREMENTS

Janet M. Siliciano, *The Johns Hopkins University School of Medicine, Baltimore, MD, USA*



5 CHARTING GENOME-WIDE INTEGRATION

Mary F. Kearney, *National Cancer Institute, Frederick, MD, USA*



6 SINGLE-CELL EPIGENETICS: COLORING IMMUNE CELLS WITH A RICH PALETTE OF HISTONE MARKS

Alex J. Kuo, *Stanford University, Stanford, CA, USA*



Workshop W-03 CLINICAL TRIAL DESIGN AND ANALYSIS
Ballroom A

CME

2:00 PM - 4:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in designing or interpreting clinical and epidemiologic studies.

Level of Knowledge: It is assumed that participants are familiar with the basic design of randomized and observational clinical trials and of basic HIV epidemiologic studies.

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

- Identify analytic approaches for treatment interventions
- Describe the rationale and structure of phase IIc trials
- Explain the challenges and approaches of non-inferiority trials
- Describe the rationale for the inclusion of diverse populations in studies

Conveners

Susan P. Buchbinder, *San Francisco Department of Public Health, San Francisco, CA, USA*

Richard E. Chaisson, *The Johns Hopkins University, Baltimore, MD, USA*



7 PUTTING ANALYSIS INTO ANALYTICAL TREATMENT INTERRUPTIONS

Lu (Summer) Zheng, *Harvard T. H. Chan School of Public Health, Boston, MA, USA*



8 ADVANCING FROM PHASE II TO PHASE III: NAVIGATING THE LAND OF EXPECTATIONS

Patrick P.J. Phillips, *University of California San Francisco, San Francisco, CA, USA*



9 NONINFERIORITY COMPLEX

Jeffrey S. Murray, *Food and Drug Administration, Silver Spring, MD, USA*



10 INCLUSION OF DIVERSE POPULATIONS IN TRIALS

Mark Harrington, *Treatment Action Group, New York, NY, USA*



Workshop W-04 INTERACTIVE CASE-BASED WORKSHOP: WHAT'S EATING YOUR LIVER?

CME

Ballroom BC

2:00 PM - 4:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in the management of hepatitis C, D, or E virus infections as well as the liver disease associated with HIV infection and treatment.

Level of Knowledge: It is assumed that the participants are familiar with the general principles of hepatitis treatment and the medications used as well as the basics of fatty liver disease.

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

- Diagnose and manage liver disease in HIV coinfection including NASH, and hepatitis A, C, D, and E virus infections
- Describe strategies in treating patients with advanced stages of liver disease

Conveners

Oluwaseun Falade-Nwulia, *The Johns Hopkins University, Baltimore, MD, USA*

Nadine Kronfli, *McGill University Health Centre, Montreal, Canada*



11 WHEN AT THIRD YOU DON'T SUCCEED

David L. Wyles, *Denver Health and Hospital Authority, Denver, CO, USA*



12 "A" CASE TO REMEMBER: HEPATITIS A - MANAGING AN OLD VIRUS IN NEW POPULATIONS AT RISK

Darcy Wooten, *University of California San Diego, San Diego, CA, USA*



Susanna Naggie, *Duke University, Durham, NC, USA*



Kathleen E. Corey, *Massachusetts General Hospital, Boston, MA, USA*



NOTES

[illegible]

OPENING SESSION

Auditorium / Hall C / Auditorium Balcony

CME

5:00 PM - 7:00 PM

Session Hosts



Sharon L. Hillier

University of Pittsburgh, Pittsburgh, PA, USA



Elaine J. Abrams

ICAP at Columbia University, New York, NY, USA



James A. Hoxie

University of Pennsylvania, Philadelphia, PA, USA

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, usually by a basic scientist recognized for his or her important and relevant contributions to the fields of virology and viral pathogenesis.

15 THE ANCIENT AND MODERN ORIGINS OF HIV

Michael Emerman, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*



N'GALY-MANN LECTURE

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

16 TRANSLATING HIV SCIENCE INTO POPULATION IMPACT: A REALITY CHECK FROM THE FRONTLINE

Alex G. Coutinho, *Partners in Health, Kigali, Rwanda*



PERFORMANCE BY THE BOSTON CHILDREN'S CHORUS

The Boston Children's Chorus's (BCC) vibrant, jubilant, and powerful performances showcase the talent and passion of the diverse young people of Boston. In 2013, the BCC was presented with the National Arts and Humanities Youth Program Award by First Lady Michelle Obama.



WELCOME RECEPTION

All registered CROI attendees are invited to the welcome reception immediately following the opening session on Sunday evening. This welcome reception will offer attendees the opportunity to network with colleagues. Light hors d'oeuvres will be served. Each attendee will be given 2 drink tickets with their registration materials to be used for alcoholic or nonalcoholic beverages.

MONDAY MARCH 9, 2019

Plenary PL-01 MONDAY PLENARY SESSION
Auditorium / Hall C / Auditorium Balcony

CME

8:30 AM - 9:30 AM

Session Hosts

Nicolas Chomont, *Université de Montréal, Montreal, QC, Canada*

Adaora Adimora, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



17 HIV CURE FROM BENCH TO BEDSIDE

8:30

Sharon R. Lewin, *University of Melbourne, Melbourne, VIC, Australia*



18 UNIVERSAL TEST AND TREAT (UTT): LESSONS FROM THE PAST AND FOR THE FUTURE

9:00

Kevin M. De Cock, *US CDC Nairobi, Nairobi, Kenya*



Oral Abstract O-01 UNDERSTANDING AND PREVENTING HIV REPLICATION

Room 312

10:00 AM - 12:00 PM

Oral Abstract Moderators

Gilda Tachedjian, *Burnet Institute, Melbourne, Victoria, Australia*

Louis M. Mansky, *University of Minnesota, Minneapolis, MN, USA*



19 MECHANISMS OF PSGL-1 AND CD43 RESTRICTION OF HIV INFECTION OF CD4 T CELLS

10:00

Yajing Fu, **Yuntao Wu**, Sijia He, Abdul A. Waheed, Deemah Dabbagh, Hong Shang, David N Levy, Eric O. Freed

20 STRUCTURAL ANALYSES OF A BOUND ANTI-CD4 ADNECTIN INHIBITOR OF HIV-1

10:15

David Wensel, Shawn William, David P. Dixon, Paris Ward, Patti McCormick, Nestor Concha, Eugene Stewart, Xuan Hong, Shreya Pal, Charles Maxxucco, Bo Ding, Mark Krystal

21 LB SERINC3/5 PERTURB HIV MEMBRANE FUSION POST-HEMIFUSION AT FUSION-PORE DILATION STEPS

10:30

Amanda E. Ward, Volker Kiessling, Judith M. White, Owen Pornillos, Barbie K. Ganer-Pornillos, Lukas K. Tamm

22 CRISPR-INDUCED MUTAGENESIS POINTS TOWARD A ROLE OF TRN-SR2 IN HIV NUCLEAR IMPORT

10:45

Frauke Christ, Julie Janssens, Flore De Wit, Jolien Blokken, Youlia Lampi, Irena Zurnic, Rik Gijssbers, Zeger Debyser

23 NUCLEAR UNCOATING OF HIV-1 OCCURS NEAR SITES OF INTEGRATION

11:00

Ryan C. Burdick, Chenglei Li, Mohamed Husen Munshi, Jonathan Rawson, Kunio Nagashima, Wei-Shau Hu, Vinay K. Pathak

24 LB RECONSTITUTION OF HIV-1 CAPSID-DEPENDENT REPLICATION AND INTEGRATION IN VITRO

11:15

Devin E. Christensen, Barbie K. Ganer-Pornillos, Owen Pornillos, Wesley I. Sundquist

- 25 11:30 STRUCTURAL BASIS OF SECOND-GENERATION HIV INTEGRASE INHIBITOR ACTION AND VIRUS ESCAPE**
 Nicola Cook, Wen Li, Dénes Berta, Magd Badaoui, Allison Ballandras-Colas, Andrea Nans, Abhay Kotecha, Edina Rosta, Alan N. Engelman, **Peter Cherepanov**
- 26 11:45 THE CHROMATIN LANDSCAPE AT THE HIV-1 INTEGRATION SITE DETERMINES VIRAL EXPRESSION**
 Gerlinde Vansant, Julie Janssens, Heng-Chang Chen, Eduard Zorita, Frauke Christ, Guillaume Filion, **Zeger Debyser**

Oral Abstract 0-02 NOVEL ASSESSMENTS OF CENTRAL NERVOUS SYSTEM PATHOGENESIS

Room 304-306

10:00 AM - 12:00 PM

Oral Abstract Moderators

Jaime H. Vera Rojas, *Brighton and Sussex Medical School, Brighton, United Kingdom*

Sara Gianella, *University of California San Diego, La Jolla, CA, USA*



- 27 10:00 SINGLE-CELL GENOMIC ANALYSIS OF BLOOD AND CSF T CELLS IN HIV+ AND HIV- ADULTS**
 Shelli Farhadian, Ofir Lindenbaum, Jun Zhao, Rolando Garcia-Milian, Jennifer Chiarella, Michelle Chintanaphol, Rachela Calvi, Yuval Kluger, Serena S. Spudich
- 28 10:15 GREATER BURDEN OF INTRACRANIAL ARTERIAL-WALL ENHANCEMENT IN PERSONS LIVING WITH HIV**
 Felicia C. Chow, Andrew Callen, Victor Arechiga, David Saloner, Jared Narvid, Priscilla Hsue
- 29 10:30 PET IMAGING OF SYNAPTIC DENSITY IN HIV: PRELIMINARY FINDINGS FROM A PILOT STUDY**
 Julian Weiss, Rachela Calvi, Mika Naganawa, Takuya Toyonaga, Shelli Farhadian, Michelle Chintanaphol, Jennifer Chiarella, Ming-Qiang Zheng, Jim Ropchan, Yiyun Huang, Richard Carson, Serena S. Spudich
- 30 10:45 HIV-INFECTED MACROPHAGES EVADE NK CELL-MEDIATED KILLING WHILE DRIVING INFLAMMATION**
 Kiera L. Clayton, Heather Stuart, Geetha H. Mylvaganam, Alonso Villasmil Ocando, Marcela Maus, Bruce D. Walker
- 31 11:00 HIV DNA DETECTED IN IMMUNE CELL SUBSETS IN CSF DURING ART**
 Shelli Farhadian, **Joshua C. Cyktor**, Asma Naqvi, Michael J. Corley, Jennifer Chiarella, Rachela Calvi, Michelle Chintanaphol, Geoffrey Lyon, Diane Trotta, John W. Mellors, Serena S. Spudich
- 32 11:15 EFFECTS OF HIV AND AGING ON RESTING-STATE NETWORKS**
 Patrick Lockett, Anupama Melam, Sarah A. Cooley, Joshua Shimony, Beau Ances
- 33 11:30 MYELIN CONTENT IS ELEVATED IN VIROLOGICALLY UNSUPPRESSED PEOPLE LIVING WITH HIV**
 Dimitre Tomov, Sarah A. Cooley, Casey Bowen, Jeremy Strain, Beau Ances

**Oral Abstract 0-03 THERAPEUTIC INTERVENTIONS FOR HIV
TREATMENT AND ERADICATION**

Auditorium

10:00 AM - 12:00 PM

Oral Abstract Moderators

María J. Buzón, *Vall d'Hebrón Research Institute, Barcelona*

Aadia Rana, *University of Alabama, Birmingham, AL, USA*



**34 CABOTEGRAVIR + RILPIVIRINE EVERY 2 MONTHS IS
NONINFERIOR TO MONTHLY: ATLAS-2M STUDY**

10:00

Edgar T. Overton, Gary J. Richmond, Giuliano Rizzardini, Hans Jaeger, Catherine Orrell, Firaya Nagimova, Fritz Bredeek, Miguel García-Deltoro, Paul D. Benn, Yuanyuan Wang, Krischan J. Hudson, David A. Margolis, Kimberly Smith, Peter E. Williams, William Spreen

**35 PROSPECTIVE ENHANCED MONITORING OF DOLUTEGRAVIR-
BASED FIRST LINE IN MALAWI**

10:15

Elvis Temfack, Andreas Jahn, Thokozani Kalua, Joseph Bitilinyu-Bangoh, Rose Nyirenda, Anne-Geneviève Marcelin, Vincent Calvez, Diane Descamps, Gilles Peytavin, Sarala Nicholas, David Maman, Sofie Spiers, Elisabeth Poulet, Elisabeth Szumilin, Birgitt Schramm

**36 RANDOMIZED SWITCH TO B/F/TAF IN AFRICAN AMERICAN
ADULTS WITH HIV**

10:30

Debbie P. Hagins, Princy N. Kumar, Michael Saag, Anson K. Wurapa, Indira Brar, Daniel S. Berger, Olayemi Osiyemi, Corri Lynn O. Hileman, Moti Ramgopal, Cheryl McDonald, Christiana Blair, Kristen Andreatta, Sean E. Collins, Diana Brainard, Hal Martin

**37 IMPACT OF ANTI-PD-1 AND ANTI-CTLA-4 ON THE HIV RESERVOIR
IN VIVO: THE AMC-095 STUDY**

10:45

Thomas A. Rasmussen, Laskhmi Rajdev, Ajantha Solomon, Ashanti Dantanarayana, Surekha Tennakoon, Socheata Chea, Rachel L. Rutishauser, Danielle Rigau, Shelly Lensing, Sonia Bakkour, Michael P. Busch, Dirk Dittmer, Steven G. Deeks, Christine Durand, Sharon R. Lewin

**38 A RANDOMIZED TRIAL OF THE IMPACT OF 3BNC117 AND
ROMIDEPSIN ON THE HIV-1 RESERVOIR**

11:00

Henning Gruell, Yehuda Z. Cohen, Jesper D. Gunst, Marie H. Pahus, Clara Lehmann, Katrina Millard, Martin Tolstrup, Julio C. Lorenzi, Michel Nussenzweig, Gerd Fätkenheuer, Florian Klein, Marina Caskey, **Ole S. Søgaard**

**39 SAFETY & PHARMACOKINETICS OF GS-9722 IN HIV-NEGATIVE
PARTICIPANTS AND PEOPLE WITH HIV**

11:15

Peter Ruane, Eric Daar, Kimberly Workowski, Rebecca Begley, Rita Humeniuk, Tariro Makadzange, Steve K. West, Hui Liu, Yizhao Li, John Ling, Luisa M. Stamm, Polina German, Joseph J. Eron, Princy N. Kumar, Edwin DeJesus

**40 SAFETY AND ANALYTIC TREATMENT INTERRUPTION OUTCOMES
OF VESATOLIMOD IN HIV CONTROLLERS**

11:30

Devi Sengupta, Moti Ramgopal, Cynthia Brinson, Edwin DeJesus, Anthony Mills, Peter Shalit, Scott McCallister, Hiba Graham, Heena Patel, Lijie Zhong, Joseph Hesselgesser, Brian Doehle, Susan Guo, Diana Brainard, Steven G. Deeks

41 LB DURABLE HIV-1 ANTIBODY PRODUCTION IN HUMANS AFTER AAV8-MEDIATED GENE TRANSFER

11:45

Joseph P. Casazza, Sandeep Narpala, Laura Novik, Galina Yamshchikov, Evan Cale, Nicole Doria-Rose, Bob C. Lin, Adrian B. McDermott, Mario Roederer, Alejandro B. Balazs, David Baltimore, Richard A. Koup, Julie Ledgerwood, John R. Mascola, for the VRC603 Team

Oral Abstract 0-04 COMMUNITY-AND CLINIC-BASED HIV TREATMENT, PREVENTION INTERVENTIONS, AND INSIGHTS

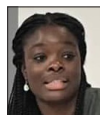
Ballroom B

10:00 AM - 12:00 PM

Oral Abstract Moderators

LaRon E. Nelson, Yale, New Haven, CT, USA

Wame Jallow, International Treatment Preparedness Coalition, Gaborone, Botswana



42 INDEX FACTORS INCREASE PARTNER NOTIFICATION YIELD FOR KENYAN PEOPLE WHO INJECT DRUGS

10:00

Brandon Guthrie, Aliza Monroe-Wise, Loice Mbogo, Natasha Ludwig-Barron, John D. Scott, Bill Sinkele, David Bukusi, Matthew Dunbar, Paul Macharia, Esther Gitau, Betsy Sambai, Helgar Musyoki, Sarah Masyuko, Joshua T. Herbeck, Carey Farquhar

43 COMMUNITY-BASED MULTIMONTH DISPENSING OF ART: A CLUSTER RANDOMISED TRIAL IN LESOTHO

10:15

Betty B. Tukei, Geoffrey Fatti, Appolinaire Tiam, Vincent Tukei, Thapelo Maotoe, Ian Sanne, Thembisile Xulu, Nicky Mabhena, Francis Akpan, Ian Membe, Iyiola Faturiyele, Justine Mirembe, Kgotso Maile, Makatleho Sejana, Charles Chasela

44 AN MHEALTH CHW INTERVENTION TRIAL IN AN HIV HYPERENDEMIC COMMUNITY IN RAKAI, UGANDA

10:30

Larry W. Chang, Ismail Mbabali, Xiangrong Kong, K. Rivet Amico, Caitlin E. Kennedy, Fred Nalugoda, Aggrey Anok, David Serwadda, Joseph Ssekasanvu, Thomas C. Quinn, Steven J. Reynolds, Ronald H. Gray, Maria Wawer, Heidi Hutton, Gertrude Nakigozi

45 IMPROVED TIME IN CARE AND VIRAL SUPPRESSION WITH STREAMLINED CARE IN THE SEARCH STUDY

10:45

Matthew D. Hickey, James Ayieko, Dalsone Kwarisiima, Fredrick J. Opel, Asiphaw Owaraganise, Laura B. Balzer, Gabriel Chamie, Vivek Jain, James Peng, Edwin D. Charlebois, Craig R. Cohen, Elizabeth A. Bukusi, Moses R. Kamya, Maya L. Petersen, Diane V. Havlir

46 COLLABORATIVE DATA-TO-CARE MODEL IMPROVES HIV CARE OUTCOMES IN PLWH IN PHILADELPHIA

11:00

Sindhu Shamasunder, Crystal Lucas, Shedane Shaw, Briana Gibson, Olivia Kirby, Melissa Miller, **Kathleen A. Brady**

47 POPULATION-LEVEL VIREMIA PREDICTS HIV INCIDENCE ACROSS UNIVERSAL TEST & TREAT STUDIES

11:15

Maya L. Petersen, Joseph Larmarange, Kathleen Wirth, Timothy Skalland, Helen Ayles, Moses R. Kamya, Shahin Lockman, Collins C. Iwuji, François Dabis, Joseph Makhema, Diane V. Havlir, Sian Floyd, Richard J. Hayes, for the UT3C

48 DECREASING COMMUNITY VIREMIA IS ASSOCIATED WITH DECREASING HIV INCIDENCE IN AUSTRALIA

11:30

Denton J. Callander, Mark Stoové, Hamish McManus, Andrew Carr, Richard Gray, Jennifer Hoy, Basil Donovan, Margaret Hellard, Andrew E. Grulich, Christopher K. Fairley, Martin Holt, David J. Templeton, Teng Liaw, James McMahon, Rebecca J. Guy, for the TAIPAN Advisory Group

49 LB 11:45 COMMUNITY ART INCREASES VIRAL SUPPRESSION AND ELIMINATES DISPARITIES FOR AFRICAN MEN

Ruanne V. Barnabas, Heidi van Rooyen, Stephen Asiimwe, Alastair van Heerden, Deenan Pillay, Adam Szpiro, Torin Schaafsma, Meighan Krows, Kombi Sausi, Nsika Sithole, Bosco Turyamureeba, Peter Ehrenkranz, Jared Baeten, Connie L. Celum, for The DO ART Study Team

Themed Discussion TD-01 SHARPENING THE CUTTING EDGE: ADDITIONS TO THE MOLECULAR VIROLOGY TOOLKIT

Ballroom A

1:30 PM - 2:30 PM

Themed Discussion Leader

Alan N. Engelman, *Dana-Farber Cancer Institute, Boston, MA, USA*



165 HIV-1 CAPSID-NUCLEAR ENVELOPE INTERACTIONS THAT FACILITATE NUCLEAR IMPORT

Mohamed Husen Munshi, Ryan C. Burdick, Wei-Shau Hu, Vinay K. Pathak

166 REPORTER VIRUSES WITH PROTEIN BARCODES TO ANALYZE HIV LATENCY ESTABLISHMENT

Eun Hye G. Kim, Maria C. Bermúdez-González, Michael Schotsaert, Ana Fernández-Sesma, Lubbertus C. Mulder, Lara Manganaro, Viviana A. Simon

167 GAG DETERMINANTS OF SPECIFIC GENOME PACKAGING IN HIV-1 AND HIV-2

Jonathan Rawson, Olga A. Nikolaitchik, Xayathed Somoulay, Jennifer A. Yoo, Vinay K. Pathak, Wei-Shau Hu

168 EXPLORING THE REQUIREMENTS FOR HIV-1 GENOME PACKAGING THROUGH A NONVIRAL RNA BINDING

Alice Duchon, Steven Santos, Jianbo Chen, Vinay K. Pathak, Wei-Shau Hu

Themed Discussion TD-02 HEARTS AND HORMONES

Ballroom C

1:30 PM - 2:30 PM

Themed Discussion Leader

Markella V. Zanni, *Massachusetts General Hospital, Boston, MA, USA*



642 TESTOSTERONE THERAPY AND SUBCLINICAL ATHEROSCLEROSIS PROGRESSION AMONG MEN WITH HIV

Sabina A. Haberlen, Wendy Post, Matthew Budoff, Jordan E. Lake, Adrian Dobs, Frank J. Palella, Michael Plankey, Anne K. Monroe, Lawrence Kingsley, Todd T. Brown

643 POSTDISCHARGE OUTCOMES FOLLOWING ACUTE CORONARY SYNDROME IN HIV

Monica Parks, Eric A. Secemsky, Changyu Shen, Robert W. Yeh, Eunhee Choi, Dhruv Kazi, Priscilla Hsue

644 INSOMNIA AND RISK OF INCIDENT MYOCARDIAL INFARCTION AMONG PEOPLE LIVING WITH HIV

Bridget M. Whitney, Robin M. Nance, Joseph Delaney, Stephanie A. Ruderman, Matthew Budoff, W. C. Mathews, Richard D. Moore, Matthew J. Feinstein, Greer Burkholder, Michael J. Mugavero, Joseph J. Eron, Michael Saag, Mari M. Kitahata, Heidi M. Crane, for the CNICS Cohort

645 HORMONE USE AND HIV ALTER CARDIOVASCULAR BIOMARKER PROFILES IN TRANSGENDER WOMEN

Jordan E. Lake, Ruibin Wang, Benjamin Barrett, Nicholas Funderburg, Emily Bowman, Paula Debroy, Jury Candelario, Linda Teplin, Jessica McGuinness, Robert Bolan, Heather McKay, Michael Plankey, Todd T. Brown, Judith S. Currier

646 HIV SEVERITY AND INCIDENT HEART FAILURE AMONG PATIENTS IN A LARGE HEALTH CARE SYSTEM

Jennifer O. Lam, Wendy Leyden, Kristi J. Reynolds, Michael A. Horberg, William J. Towner, Rulin Hechter, Suma Vupputuri, Thomas K. Leong, Harshith Avula, Teresa J. Harrison, Keane K. Lee, Sue Hee Sung, Romain Neugebauer, Alan S. Go, Michael J. Silverberg

Themed Discussion TD-03 CHRONIC DISEASES IN MATERNAL HEALTH: PERSISTENT PROBLEMS FOR PREGNANT OR POSTPARTUM WOMEN

Room 312

1:30 PM - 2:30 PM

Themed Discussion Leader

Risa M. Hoffman, *University of California Los Angeles, Los Angeles, CA, USA*



768 CHANGES IN BONE MINERAL DURING AND AFTER LACTATION IN UGANDAN WOMEN ON OPTION B+ ART

Florence Nabwire, Ann Prentice, Matthew M. Hamill, **Mary Glenn Fowler**, Josaphat Byamugisha, Adeodata Kekitiinwa, Gail R. Goldberg

771 POSTPARTUM WEIGHT CHANGES IN WOMEN INITIATING DTG VS EFV IN PREGNANCY: DOLPHIN-2

Thokozile R. Malaba, Tao Chen, Kenneth Kintu, Christiana Papamichael, Helen Reynolds, Jesca Nakibuka, Catriona Waitt, Eva Maria Hodel, Angela Colbers, Catherine Orrell, Duolao Wang, Mohammed Lamorde, Saye Khoo, Landon Myer, for the DOLPHIN-2 Trial Team

772 DOLUTEGRAVIR USE IS ASSOCIATED WITH HIGHER POSTPARTUM WEIGHT COMPARED TO EFAVIRENZ

Jennifer Jao, Shan Sun, Justine Legbedze, Denise Jacobson, Keolebogile N. Mmasa, Samuel W. Kgole, Gosego Masasa, Joseph Makhema, Sikhulile Moyo, Mompoti O. Mmalane, Francis Banda, Bornaparte Nkomo, Mariana Gerschenson, Elaine J. Abrams, Kathleen M. Powis

774 FACTORS ASSOCIATED WITH GESTATIONAL DIABETES IN HIV+ AND HIV- WOMEN IN PUNE, INDIA

Puja Chebrolu, Mallika Alexander, Ramesh Bhosale, Shilpa Naik, Nikhil Patil, Amita Gupta, Jyoti S. Mathad

769 HIGH BLOOD PRESSURE AND ADVERSE BIRTH OUTCOMES IN HIV+ AND HIV- SOUTH AFRICAN WOMEN

Angela Bengtson, Stanzi M. le Roux, Tamsin K. Phillips, Kirsty Brittain, Allison Zerbe, Thoko Malaba, Greg Petro, Hlengiwe Madlala, Elaine J. Abrams, Landon Myer

Themed Discussion TD-04 RAPID ART START: WHERE ARE THE GAPS?
Ballroom B **1:30 PM - 2:30 PM**

Themed Discussion Leader

Izukanji Sikazwe, *Centre for Infectious Disease Research in Zambia, Lusaka, Zambia*



MINI LECTURE: STATE OF THE RAPID ART START

1071 ASSOCIATION BETWEEN TIME TO ART AND LOSS TO CARE AMONG NEWLY DIAGNOSED PLWH IN RWANDA

Jonathan Ross, Gad Murenzi, Donald R. Hoover, Qiuhi Shi, Hae-Young Kim, Benjamin Muhoza, Athanase Munyaneza, Remera Eric, Sabin Nsanzimana, Marcel Yotebieng, Denis Nash, Kathryn Anastos

1072 SAME-DAY ART IN THAILAND: THE IMPACT OF ART INITIATION PERIODS ON TREATMENT OUTCOMES

Pich Seekaew, Sorawit Amatavete, Nipat Teeratakulpisarn, Prattana Leenasirimakul, Suwimon Khusuwan, Teerarat Chuntachon, Ampaipith Nilmanat, Suriyong Boonprachern, Oranuch Nampaisarn, Reshmie Ramautarsing, Stephen Mills, Ravipa Vannakit, Praphan Phanuphak, Nittaya Phanuphak

1073 RAPID START LEADS TO SUSTAINED VIRAL SUPPRESSION IN YOUNG PEOPLE IN THE SOUTH

Lorna Seybolt, Katherine Conner, Isolde Butler, Nicholas Van Sickels, **Jason Halperin**

1069 ASSESSMENT OF IMMEDIATE INITIATION OF ANTIRETROVIRAL THERAPY IN NEW YORK CITY

Daniel Bertolino, Erica D'Aquila, Nadia Nguyen, Denis Nash, Abigail Baim-Lance, Bisrat Abraham

Themed Discussion TD-05 PARTNER NOTIFICATION FOR DETECTING HIV INFECTIONS

Room 304-306

1:30 PM - 2:30 PM

Themed Discussion Leader

Rachel Baggaley, *World Health Organization, Geneva, Switzerland*



937 ASSISTED PARTNER NOTIFICATION SERVICES IN KAMPALA, UGANDA

Florence Namimbi, Faridah Akuju, Martin Ssuuna, Esther Nasuuna, Rhoda Mwondha, Stella Alamo, Madina Apolot, Nelson Kalema, Alice Namale, Joanita Kigozi

938 TARGETED PEER MOBILISATION AND ASSISTED PARTNER NOTIFICATION SERVICES IN KENYA

Maartje Dijkstra, Khamisi Mohamed, Alex Kigoro, Mahmoud Shally, Abdalla Wesonga, Teresia Mumba, Nana Mukuria, Margaret Juma, Evans Gichuru, Shaun Palmer, Susan M. Graham, Elisabeth M. van der Elst, Eduard Sanders

939 SCALE-UP OF ASSISTED PARTNER SERVICES (APS) IN BOTSWANA

Matthew R. Golden, Matias Grande, Shreshth Mawandia, Odirile Bakae, Lenna Tau, Goabaone Mogomotsi, Esther Mmatli, Modise Ngombo, Jenny Ledikwe

940 OPTIMIZING TESTING INCREASES YIELD IN HIV CASE FINDING IN 24 COUNTRIES, 2018–2019

Shahul Hameed Ebrahim, Arielle Lasry, Randy Yee, Wayne A Duffus, John Abellera, Shane T Diekman, Jacqueline Rurangirwa, Bakary Drammeh, Tiffany Ahoulou, Michael Grillo, Vincent Wong, Stephanie Behel

942 COMPARISON OF INDEX TESTING APPROACHES TO IMPROVE HIV-TESTING EFFICIENCY IN RWANDA

Eric Remera, Elyse Tuyishime, Suthar Amithab, Mugwaneza Placidie

Symposium S-01 NOVEL CURE INTERVENTIONS Ballroom B

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding strategies for the cure of HIV infection.

Level of Knowledge: It is assumed that the participants are familiar with stages of the viral life cycle and have a basic understanding of molecular biology.

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

- Explain novel cure interventions in terms of basic mechanisms
- Describe results from pre-clinical animal model studies on HIV cure

Conveners

Michaela Müller-Trutwin, *Institut Pasteur, Paris, France*

Katherine Bar, *University of Pennsylvania, Philadelphia, PA, USA*



50 IN VIVO MODELS FOR THE EVALUATION OF NOVEL HIV CURE INTERVENTIONS

4:00

J. Victor Garcia-Martinez, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



51 LRA 2.0: IMMUNE-BASED LATENCY REVERSAL

4:30

Ann Chahroudi, *Emory University, Atlanta, GA, USA*



52 T-CELL AND HEMATOPOIETIC STEM CELL GENE THERAPIES FOR HIV CURE

5:00

Christopher Peterson, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*



53 TOWARD DURABLE CONTROL OF HIV-1 WITH eCD4-Ig

5:30

Michael Farzan, *The Scripps Research Institute, La Jolla, CA, USA*



Symposium S-02 HISTORY REPEATING ITSELF: SEXUALLY TRANSMITTED INFECTIONS IN WOMEN AND INFANTS Ballroom A

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the interactions between HIV infection and sexually transmitted infections (STIs) in pregnant women and children.

Level of Knowledge: It is assumed that the participants are familiar with basic issues of the treatment and prevention of HIV and STIs as well as mother-to-child transmission.

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

- Describe the global epidemiology of STIs that put the fetus at risk
- Compare screening in low- and high-income settings and links to HIV infection
- Identify treatment dilemmas in women with STIs, including drug resistance
- Identify the interactions between HIV and STIs in pregnancy and in infants
- Assess the prevention of STIs during pregnancy and breastfeeding
- Describe vaccine programs and link to HIV elimination

Conveners

Karin Nielsen-Saines, *University of California Los Angeles, Los Angeles, CA, USA*

Victor Musiime, *Makerere University, Kampala, Uganda*



54 **SYPHILIS CAUSES STILLBIRTH: PENICILLIN IS PREVENTION**

4:00

Melanie Taylor, *World Health Organization, Geneva, Switzerland*



55 **CHLAMYDIA AND GONORRHOEA IN PREGNANCY: SILENCE OF THE GERMS**

4:30

Nicola Low, *University of Bern, Bern, Switzerland*



56 **MOTHER-TO-CHILD TRANSMISSION OF HEPATITIS B: CAN IT BE ELIMINATED?**

5:00

Yusuke Shimakawa, *Institut Pasteur, Paris, France*



57 **BEYOND THE STIGMA: A SORELY NEEDED PERSPECTIVE ON HSV**

5:30

Anna Wald, *University of Washington, Seattle, WA, USA*



Symposium S-03 WHAT MAKES EPIDEMICS RECEDE
Ballroom C

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the current status, challenges, and successes in HIV epidemic control in different global settings.

Level of Knowledge: It is assumed that the participants are familiar with basic epidemiological terms and HIV epidemiology.

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

- Describe the geographic settings where the implementation of public health strategies have decreased HIV incidence
- Describe the strategies that must be implemented to achieve the goals for decreasing HIV incidence

Conveners

Victoria L. Mobley, *North Carolina Department of Health and Human Services, Raleigh, NC, USA*

Maria Prins, *Public Health Service of Amsterdam, Amsterdam, Netherlands*



58 **REFLECTIONS ON THE UK EPIDEMIC**

4:00

Valerie Delpech, *Public Health England, London, UK*



59 **30-PLUS YEARS OF HIV IN RAKAI: THE EPIDEMIC RECEDES**

4:30

Joseph Kagaayi, *Rakai Health Sciences Program, Kalisizo, Uganda*



60 **BATTLING HIV IN THE US RURAL SOUTH**

5:00

Leandro A. Mena, *University of Mississippi Medical Center, Jackson, MS, USA*



Carlos Del Rio, *Emory University, Atlanta, GA, USA*



NOTES

Oral Sessions • Monday

TUESDAY MARCH 10, 2020

Plenary PL-02 TUESDAY PLENARY SESSION
Auditorium / Hall C / Auditorium Balcony

CME

8:30 AM - 9:30 AM

Session Hosts

Jonathan Mermin, *Centers for Disease Control and Prevention, Atlanta, GA, USA*

Peter W. Hunt, *University of California San Francisco, San Francisco, CA, USA*



62
8:30
PREVENTING HIV AMONG PEOPLE WHO INJECT DRUGS: PLUS ÇA CHANGE, PLUS ÇA MÊME CHOSE
Steffanie A. Strathdee, *University of California San Diego, San Diego, CA, USA*



63
9:00
SEX DIFFERENCES IN HIV
Eileen P. Scully, *The Johns Hopkins University School of Medicine, Baltimore, MD, USA*



Oral Abstract O-05 HIV-ASSOCIATED MALIGNANCIES AND TUMOR VIRUSES: AN EXPANDING LANDSCAPE

Room 304-306

10:00 AM - 12:00 PM

Oral Abstract Moderators

Elizabeth A. Stier, *Boston University, Boston, MA, USA*

Ronald T. Mitsuyasu, *University of California Los Angeles, Los Angeles, CA, USA*



64
10:00
TARGETING THE KSHV TYROSINE KINASE AND VIRAL LYTIC REACTIVATION WITH INHIBITORS
Guillaume Beauclair, Eleonora Naimo, Tatyana Dubich, Dagmar Wirth, **Thomas F. Schulz**

65 LB
10:15
A ROLE FOR IRON METABOLISM AND FERROPTOSIS IN KAPOSI SARCOMA HERPESVIRUS PATHOGENESIS
Ashlee V. Moses, Jean Gustin

66
10:30
GENE EXPRESSION PATTERNS IN SKIN VS GASTROINTESTINAL KAPOSI SARCOMA LESIONS
Ramya Ramaswami, Takanobu Tagawa, Vishal Koparde, Kathryn Lurain, Anna Serquina, Anaida Widell, Irene Ekwe, Robert Yarchoan, **Joseph Ziegelbauer**

67 LB
10:45
IMPACT OF VALGANCICLOVIR THERAPY ON SEVERE IRIS-KAPOSI SARCOMA-ATTRIBUTABLE MORTALITY
Patricia Volkow, Beda Daniela Islas Muñoz, Leslie Chávez-Galán, Lucero Ramón-Luing, Dora Patricia Cornejo Juárez, Judith Cruz-Velázquez, for the Kaposi Sarcoma

68
11:00
SURVEILLANCE OF RHESUS MACAQUE TISSUES IDENTIFYING GAMMAHERPESVIRUS INFECTION SITES
Vickie Marshall, **Catherine Brands**, Nazzarena Labo, Vicky Coalter, Jeffrey D. Lifson, Denise Whitby, Claire Deleage, Gregory Q. Del Prete

69
11:15
CONJUNCTIVAL CANCER IN PEOPLE LIVING WITH HIV: THE SAM STUDY
Tafadzwa G. Dhokotera, Mazvita Sengayi, Lina Bartels, Frédérique Chammartin, Serra L. Asangbeh, Victor Olago, Elvira Singh, Matthias Egger, Julia Bohlius

70 CLEARANCE OF HPV ANAL HIGH-GRADE INTRAEPITHELIAL LESIONS WITH LOW-DOSE POMALIDOMIDE

11:30

Mark Polizzotto, David Van Bockel, Carmella Law, Jennifer Roberts, Susanne Just, Griselda Buckland, Simon Comben, Mary Poynten, Richard Hillman, Richard Gilson, Sarah Pett, Anthony Kelleher, Sean Emery, for the SPACE Study Group

71 INCREASED CANCER RISK WITH LOWER CD4/CD8 RATIO AMONG ADULTS WITH HIV IN NA-ACCORD

11:45

Jessica L. Castilho, Aihua Bian, Cathy Jenkins, Chad J. Achenbach, W. C. Mathews, Greer Burkholder, M J. Gill, Janet Tate, Angel M. Mayor, Mari M. Kitahata, Michael J. Silverberg, Richard D. Moore, Keith M. Sigel, Staci Sudenga, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

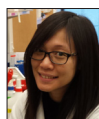
Oral Abstract O-06 TARGETING THE PERSISTENT HIV RESERVOIR Ballroom B

10:00 AM - 12:00 PM

Oral Abstract Moderators

Guinevere Q. Lee, *Weill Cornell Medicine, New York, NY USA*,

Afam Okoye, *Oregon Health and Science University, Beaverton, OR, USA*



72 WHOLE-BODY PET IMAGING OF THE HIV RESERVOIR USING RADIOLABELED VRC01

10:00

Timothy J. Henrich, Denis Beckford-Vera, Enrique Martinez-Ortiz, Maya Aslam, Cassandra Thanh, Shreya Kumar, I-Wei Katherine Wu, Rebecca Hoh, Robert Flavell, Youngho Seo, Marion Pardons, Nicolas Chomont, John R. Mascola, Steven G. Deeks, Henry VanBrocklin

73 ANTIGEN-DRIVEN CLONAL SELECTION SHAPES THE FATE OF HIV-INFECTED CD4+ T CELLS IN VIVO

10:15

Francesco R. Simonetti, Hao Zhang, Garshasb Soroosh, Subul A. Beg, Jiayi Duan, Kyle Rhodehouse, Christopher L. Nobles, Jun Lai, Rebecca Hoh, Steven G. Deeks, Frederic Bushman, Janet Siliciano, Robert Siliciano

74 DISTINCT CHROMOSOMAL INTEGRATION SITE CONFIGURATION IN HIV-1 ELITE CONTROLLERS

10:30

Chenyang Jiang, Ce Gao, Xiaoming Sun, Xiaodong Lian, Stephane Hua, Joshua Chevalier, Kevin Einkauf, Eric Serrao, Alan N. Engelman, Mary Carrington, Bruce D. Walker, Mathias Lichterfeld, Xu G. Yu

75 INTACT PROVIRAL DNA LEVELS DECLINE IN PEOPLE WITH HIV ON ANTIRETROVIRAL THERAPY

10:45

Rajesh T. Gandhi, Joshua C. Cyktor, Ronald Bosch, Hanna Mar, Gregory Laird, Albine Martin, Ann Collier, Sharon Riddler, Bernard J. Macatangay, Charles Rinaldo, Joseph J. Eron, Robert Siliciano, Deborah McMahon, John W. Mellors, for the ACTG A5321 team

76 CHIMERIC ANTIGEN RECEPTOR T CELLS CONTROL SHIV REPLICATION IN POST-ATI MACAQUES

11:00

Blake Rust, Lucrezia Colonna, Katherine Brandenstein, Nikhita H. Poole, Willi Obenza, Colby Maldini, Gavin Ellis, Leslie Kean, James L. Riley, Hans-Peter Kiem, Christopher Peterson

77 DELAY IN VIRAL REBOUND WITH TLR7 AGONIST, N6-LS, AND PGT121 IN SHIV-INFECTED MACAQUES

11:15

Denise C. Hsu, Decha Silsorn, Rawiwan Imerbsin, Amarendra Pegu, Dutsadee Inthawong, Jumpol Sopanaporn, Alexandra Schuetz, James Demarest, Merlin L. Robb, John R. Mascola, Romas Geleziunas, Richard A. Koup, Dan Barouch, Nelson L. Michael, Sandhya Vasan

78 LB COMBINED ACTIVE AND PASSIVE IMMUNIZATION IN SHIV-INFECTED RHESUS MONKEYS

11:30

Dan Barouch, Noe Mercado, Abishek Chandrashekar, Erica Borducchi, Joseph Nkolola, Maria Pau, Hanneke Schuitemaker, Merlin L. Robb, Nelson L. Michael, Romas Geleziunas

79 LB COMBINATION IL-15 THERAPY IN A SHIV NHP MODEL

11:45

So-Yon Lim, Christa E. Osuna, Jina Lee, Daniela Silva-Ayala, Pratik Vikhe, Elsa Chen, Stephanie Lundgren, Margaret Eliot, Dane Schalk, Nancy Schultz-Darken, Michael S. Seaman, Jeffrey T. Safrit, R. Brad Jones, Douglas Nixon, **James Whitney**

Oral Abstract 0-07 CARDIOMETABOLIC AND PULMONARY COMPLICATIONS

Balloom C

10:00 AM - 12:00 PM

Oral Abstract Moderators

Matthew J. Feinstein, *Northwestern University, Chicago, IL, USA*

Susanne Dam Nielsen, *University of Copenhagen Rigshospitalet, Copenhagen, Denmark*



80 A MENDELIAN RANDOMIZATION ANALYSIS OF PROTEIN BIOMARKERS AND CVD IN PERSONS WITH HIV

10:00

Cavan Reilly, James Pankow, Jason V. Baker, Álvaro H. Borges, Mark Polizzotto, Shweta Sharma, Sandra Safo, for the INSIGHT Study Group

81 RISKS OF METABOLIC SYNDROME, DIABETES, AND CARDIOVASCULAR DISEASE IN ADVANCE TRIAL

10:15

Andrew Hill, Kaitlyn M. McCann, Victoria Pilkington, Michelle A. Moorhouse, Simiso Sokhela, Celia M. Serenata, Alinda Vos, Willem D. Venter

82 CYP2B6 GENOTYPE AND WEIGHT-GAIN DIFFERENCES BETWEEN DOLUTEGRAVIR AND EFAVIRENZ

10:30

Rulan Griesel, Gary Maartens, Simiso Sokhela, Godspower Akpomiemie, Willem D. Venter, Michelle A. Moorhouse, Phumla Sinxadi

83 CHANGES IN BODY MASS INDEX AND THE RISK OF CARDIOVASCULAR DISEASE: THE D:A:D STUDY

10:45

Kathy Petoumenos, Locadia Kuwanda, Lene Ryom, Amanda Mocroft, Peter Reiss, Stephane De Wit, Christian Pradier, Andrew N. Phillips, Camilla Ingrid Hatleberg, Antonella D'Arminio Monforte, Rainer Weber, Caroline Sabin, Jens D. Lundgren, Matthew Law, for the D:A:D Study Group

84 LOSARTAN TO REDUCE INFLAMMATION AND FIBROSIS ENDPOINTS IN HIV DISEASE (LIFE-HIV)

11:00

Jason V. Baker, Julian Wolfson, Gary Collins, Caryn G. Morse, Frank S. Rhame, Andelike Liappis, Stacey Rizza, Zelalem Temesgen, Charalampos Mystakelis, Steven G. Deeks, James Neaton, Timothy Schacker, Irini Sereti, Russell Tracy

85 EFFECTS OF HIV INFECTION AND IMMUNE REGULATION ON LONGITUDINAL LUNG FUNCTION DECLINE

11:15

Jing Sun, Jacquie Astemborski, Sarath Raju, M. Brad Drummond, Robert H. Brown, Shruti H. Mehta, Richard D. Moore, Meredith C. McCormack, Gregory D. Kirk, for the Study of HIV Infection in the Etiology of Lung Disease (SHIELD) cohort

86 AZITHROMYCIN FOR TREATMENT OF HIV-RELATED CHRONIC LUNG DISEASE IN AFRICAN CHILDREN

11:30

Rashida A. Ferrand, Grace McHugh, Andrea M. Rehman, Hilda Mujuru, Mark Nicol, Sarah Rowland-Jones, Trond Flaegstad, Tore Gurtteberg, Victoria Simms, Elizabeth L. Corbett, Helen A. Weiss, Edith D. Majonga, Katharina Kranzer, Jon O. Odland, for the BREATHE Trial Group

Oral Abstract O-08 Prevention 2020: Agents, Options, and Outcomes Ballroom A 10:00 AM - 12:00 PM

Oral Abstract Moderators

Lisa Hirschhorn, Northwestern University, Chicago, IL, USA

Kenneth K. Mugwanya, University of Washington, Seattle, WA, USA



87 BIC/FTC/TAF POSTEXPOSURE PROPHYLAXIS PROTECTS MACAQUES AGAINST RECTAL SHIV INFECTION

10:00

Elena Bekerman, Stephanie W. Cox, Scott McCallister, Tomas Cihlar, Christian Callebaut

88 ON-DEMAND HIV POSTEXPOSURE PROPHYLAXIS BY TAF/EVG VAGINAL INSERTS IN MACAQUES

10:15

Charles Dobard, M. Melissa Peet, Kenji Nishiura, Angela Holder, Onkar N. Singh, Timothy J. McCormick, James Mitchell, George Khalil, Gerardo Garcia-Lerma, Vivek Agrahari, Pardeep Gupta, Sriramakamal Jonnalagadda, Walid Heneine, Gustavo Doncel, Meredith Clark

89 LB WEEKLY ORAL ISLATRAVIR PROVIDES EFFECTIVE PEP AGAINST IV CHALLENGE WITH SIVMAC251

10:30

Martin Markowitz, Agegnehu Gettie, Leslie St. Bernard, James Blanchard, Brooke Grasperge, Kerry Fillgrove, Lingling Xue, Neal Dube, Daria Hazuda, Jay Grobler

90 PHASE I PLACEBO-CONTROLLED SAFETY, PK, AND PD STUDY OF MB66 ANTI-HIV AND ANTI-HSV FILM

10:45

Susan Cu-Uvin, Thomas Moench, Joseph A. Politch, Karen T. Tashima, Jai G. Marathe, Kate M. Guthrie, Howard Cabral, Tara J. Nyhuis, Miles Brenna, Larry Zeitlin, Hans M. Spiegel, Kenneth H. Mayer, Kevin Whaley, Deborah Anderson

91 NEAR-PERFECT ACCURACY OF A REAL-TIME URINE TENOFOVIR TEST COMPARED TO LAB-BASED ELISA

11:00

Matthew A. Spinelli, Warren Rodrigues, Guohong Wang, Michael Vincent, David Glidden, Randy Stalter, Patricia A. Defechereux, Madeline Deutsch, Robert M. Grant, Kenneth Ngunjiri, Nelly R. Mugo, Jared Baeten, Monica Gandhi, for the Partners PrEP and IBrEATHe

92 LONGER-TERM SAFETY OF F/TAF AND F/TDF FOR HIV PrEP: DISCOVER TRIAL WEEK-96 RESULTS

11:15

Onyema Ogbuagu, Daniel Podzamczar, Laura C. Salazar, Keith Henry, David M. Asmuth, David Wohl, Richard Gilson, Yongwu Shao, Ramin Ebrahimi, Christoph Carter, Moupali Das, Scott McCallister, Jason M. Brunetta, Gitte Kronborg, Christoph D. Spinner

93 INITIATING PrEP DURING ACUTE HIV INFECTION: WHAT IS THE RISK FOR ARV DRUG RESISTANCE?

11:30

Donn J. Colby, Chanjiraporn Pondet, Tippawan Pankam, Prapaipan Plodkratok, Rapee Trichaviroj, Carlo Sacdalan, Eugène Kroon, Siriawat Akapirat, Jintanat Ananworanich, Mark De Souza, Praphan Phanuphak, Sandhya Vasan, Nittaya Phanuphak, for the RV254/SEARCH010 Research Group

94 PEPFAR DREAMS INTERVENTION AMONG ADOLESCENT GIRLS AND YOUNG WOMEN IN RAKAI, UGANDA

11:45

Hadijja Nakawooya, Victor Ssempijja, Doreen Nabukalu, Anthony Ndyababo, Tom Lutalo, Fred Nalugoda, Ronald H. Gray, Maria Wawer, Steven J. Reynolds, Joseph Kagaayi, Gertrude Nakigozi, Godfrey Kigozi

SPECIAL LUNCH-TIME SESSION ON COVID - 19

Auditorium / Hall C / Auditorium Balcony

12:10 PM - 1:20 PM

(Approximate)

OUTBREAK OF COVID-19 IN CHINA AND THE COUNTRY'S RESPONSES

Zunyou Wu, *Centers for Disease Control and Prevention, Atlanta, GA, USA*

GLOBAL EPIDEMIOLOGY AND PREVENTION OF COVID-19

John T. Brooks, *Centers for Disease Control and Prevention*

VIROLOGY OF CORONAVIRUSES

Ralph S. Baric, *University of North Carolina*

THE RESEARCH RESPONSE TO COVID-19: A VIEW FROM NIAID

Anthony S. Fauci, *National Institutes of Health*

Themed Discussion TD-06 CURATIVE STRATEGIES: TRIALS AND TRIBULATIONS

Ballroom B

1:30 PM - 2:30 PM

Themed Discussion Leader

Pablo Tebas, *University of Pennsylvania, Philadelphia, PA, USA*



333 EFFECT OF TAMOXIFEN ON VORINOSTAT-INDUCED HIV RNA EXPRESSION IN WOMEN ON ART (A5366)

Eileen P. Scully, Athe Tsibris, Evgenia Aga, Qing Ma, Kate Starr, Kathleen E. Squires, Steven G. Deeks, Elizabeth Connick, Monica Gandhi, Ronald Bosch, Nancie Archin, Jonathan Karn, Daniel R. Kuritzkes, Rajesh T. Gandhi, for the ACTG A5366 Study team

334 EFFECTS OF IMMUNE CHECKPOINT THERAPY ON LATENT HIV IN PEOPLE WITH HIV AND MALIGNANCY

Jillian S. Lau, James McMahon, Ajantha Solomon, Chris Y. Chiu, Celine Gubser, Jennifer M. Zerbato, Jill Garlick, Ashanti Dantanarayana, Socheata Chea, Surekha Tennakoon, Vincent Morcilla, Sarah Palmer, Sharon R. Lewin, Thomas A. Rasmussen

335 ABX464 DECREASES THE TOTAL HIV RESERVOIR AND HIV TRANSCRIPTION INITIATION IN VIVO

Sara Moron-Lopez, Silvia Bernal, Jean-Marc Steens, Joseph K. Wong, Javier Martinez-Picado, Steven A. Yukl

336 ATTACKING LATENT HIV WITH CONVERTIBLE CAR-T CELLS, A MODULAR KILLING PLATFORM

Eytan Herzig, Kaman Chan Kim, Thomas A. Packard, Noam Vardi, Roland Schwarzer, Andrea Gramatica, Steven G. Deeks, Steven R. Williams, Kyle Landgraf, Nigel Killeen, David W. Martin, Leor Weinberger, Warner C. Greene

337 CAR-T CELLS AT 15 YEARS: PERSISTENCE OF CD4-ZETA TRANSGENE AND EFFECT ON RESERVOIR

Naomi E. Aronson, James L. Riley, Linda Jagodzinski, Sodsai Tovanabutra, Denise C. Hsu, Lydie Trautmann, Anwar E. Ahmed, David Wallace, Simon Lacey, Bruce L. Levine, Carl H. June, Julie Ake, Wendy B. Bernstein

Themed Discussion TD-07 ALTERNATIVE DIAGNOSTIC TOOLS FOR UNDERSTANDING NEUROHIV

Room 304-306

1:30 PM - 2:30 PM

Themed Discussion Leader

Avindra Nath, *National Institutes of Health, Bethesda, MD, USA*



405 CONSERVED CSF HIV ANTIBODY RESPONSE IN PATIENTS WITH DIVERSE NEUROLOGIC PHENOTYPES

Isobel A. Hawes, Ryan Schubert, Akshaya Ramesh, Gavin Sowa, Joanna Hellmuth, Magnus Gisslén, Richard W. Price, Michael Wilson

424 CNS HIV BEARS ENVELOPE MARKERS CONSISTENT WITH T-CELL ORIGIN IN THE FACE OF ART

Gila J. Lustig, Sandile Cele, Farina Karim, Yashica Ganga, Khadija Khan, Bernadett Gosnell, Mahomed-Yunus Moosa, Rohen Harrichandparsad, Suzaan Marais, Ravindra K. Gupta, Tulio de Oliveira, Katya Govender, John Adamson, Vinod B. Patel, **Alex Sigal**

418 RETINAL THINNING CORRELATES WITH BRAIN ATROPHY IN WELL-CONTROLLED HIV INFECTION

Bryan Smith, Katrina Geannopoulos, Ramiro Maldonado, Tianxia Wu, Elizabeth F. Horne, Lillian Ham, Joseph Snow, Govind Nair, Daniel S. Reich, Chuen-Yen Lau, Emily Chew, Avindra Nath

411 BIOMARKERS OF NUCLEIC ACID OXIDATION AND NEURODEGENERATION IN CSF IN PWH

Ronald J. Ellis, David J. Moore, Erin Sundermann, Robert K. Heaton, Todd Hulgán, David C. Samuels, Sanjay R. Mehta, Scott L. Letendre

412 PREDICTIVE VALIDATION OF AN UGANDAN INFANT EYE-TRACKING TEST OF MEMORY OF HUMAN FACES

Michael J. Boivin, Itziar Familiar-Lopez, Alla Sikorskii, Ronak Chhaya, Kwabena Nkansah-Amankra, Aatirah Holmes, Jonathan Weiss, Victoria Seffren, Ethan G. Arima, Ojuka J. Caesar, Noeline Nakasujja

Themed Discussion TD-08 FAT IN FOCUS

Ballroom C

1:30 PM - 2:30 PM

Themed Discussion Leader

Jacqueline Capeau, *Sorbonne University, Paris, France*



667 FAT GAINS OCCUR AFTER ART WITHOUT CHANGES IN METABOLIC RATE OR CALORIC INTAKE

Allison Ross Eckard, Abdus Sattar, Jiao Yu, Heather Y. Hughes, Danielle Labbato, Theresa O. Rodgers, Julia C. Kosco, Grace A. McComsey

668 GREATER WEIGHT GAIN AFTER SWITCH TO InSTI-BASED REGIMEN FROM NNRTI VS PI REGIMENS

John Koethe, Aihua Bian, Peter F. Rebeiro, Cathy Jenkins, Kassem Bourgi, Richard D. Moore, Michael Saag, Kathryn Anastos, Julia Fleming, Marina Klein, Viviane D. Lima, Joseph B. Margolick, Timothy R. Sterling, Jordan E. Lake, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

669 BODY COMPOSITION CHANGES OVER THE MENOPAUSAL TRANSITION IN HIV+ AND HIV-WOMEN

Thuy Trang J. Nguyen, Yifei Ma, Rebecca Scherzer, Anjali Sharma, Mark H. Kuniholm, Audrey French, Margaret Fischl, Howard Minkoff, Michael

670 RESISTIN GENE POLYMORPHISM RELATED TO WEIGHT GAIN AND PSYCHIATRIC SYMPTOMS ON INSTI
Rumi Minami, Soichiro Takahama, Kazuhiko Koyama, Masahiro Yamamoto

671 ADIPOCYTE DYSFUNCTION DESPITE REDUCED ADIPOSE INFLAMMATION IN DIABETICS WITH HIV
Samuel Bailin, Spyros Kalams, Simon Mallal, Fei Ye, Run Fan, Mona Mashayekhi, Curtis Gabriel, John Koethe, Celestine Wanjalla

Themed Discussion TD-09 NOVEL APPROACHES TO STUDY PEDIATRIC ANTIRETROVIRAL DOSING AND SAFETY

Room 312 1:30 PM - 2:30 PM

Themed Discussion Leader

Adrie Bekker, Stellenbosch University, Cape Town, South Africa



839 IDENTIFICATION OF AGE-APPROPRIATE DOSING STRATEGIES OF BICTEGRAVIR IN NEONATES
Fazila S. Bunglawala, Rajith Kumar Reddy Rajoli, Hannah Kinvig, Nicolas Cottura, Andrew Owen, Marco Siccardi

842 MARAVIROC SAFETY & PHARMACOKINETICS IN HIV-EXPOSED NEONATES
Julia C. Rosebush, Brookie Best, Ellen G. Chadwick, Jack Moye, Elizabeth Smith, Kevin Butler, Sarah Bradford, Kyle Whitson, Sisinyana R. Mathiba, Sherika Hanley, Mariam Aziz, Katy Hayward, Mark Mirochnick, Pearl Samson, for the IMPAACT 2007 Study Team

843 ABACAVIR SAFETY AND PHARMACOKINETICS IN NORMAL AND LOW BIRTH WEIGHT INFANTS WITH HIV
Tim R. Cressey, Adrie Bekker, Mae Cababasay, Jiajia Wang, Firdose Nakwa, Elizabeth Smith, Jack Moye, Avy Violari, Mark Cotton, Bobbie Graham, Lubbe Wiesner, Helena Rabie, Mark Mirochnick, Edmund V. Capparelli, for the IMPAACT P1106 team

847 ADEQUATE DOLUTEGRAVIR EXPOSURE DOSED BID WITH RIFAMPICIN IN CHILDREN 6 TO <18 YEARS
Hylke Waalewijn, Hilda Mujuru, Pauline Amuge, Mark Cotton, Pauline Bollen, Man Chan, Shabinah Ali, Ebrahim Variava, Shafic Makumbi, Angela Colbers, Diana Gibb, Deborah Ford, David M. Burger, Anna Turkova, for the Odyssey trial team

845 ABACAVIR SAFETY AND EFFICACY IN YOUNG INFANTS IN SOUTH AFRICAN OBSERVATIONAL COHORTS
Renee De Waal, Helena Rabie, Karl Technau, Brian Eley, Nosisa Sipambo, Mark Cotton, Andrew Boule, Robin Wood, Frank Tanser, Geoffrey Fatti, Matthias Egger, Mary-Ann Davies

Themed Discussion TD-10 COMING INTO THE LIGHT: HIV IN TRANSGENDER WOMEN AND MEN

Ballroom A

1:30 PM - 2:30 PM

Themed Discussion Leader

Sari L. Reisner, *Harvard T.H. Chan School of Public Health, Boston, MA, USA*



878 PREEXPOSURE PROPHYLAXIS ADHERENCE AND PERSISTENCE IN KENYAN TRANSGENDER WOMEN AND MSM

Makobu Kimani, Elisabeth M. van der Elst, Oscar Chirro, Fauz Ibrahim, Nana Mukuria, Tobias F. Rinke de Wit, Susan M. Graham, Eduard Sanders

879 HIV PREVALENCE AND RISK IN MALE, TRANSMALE, AND TRANSFEMALE SEX WORKERS IN ZIMBABWE

Mariëlle Kloek, Laura Van Noord, Sungai T. Chabata, Sithembile Musemburi, Sake De Vlas, Frances Cowan, **Jan A. Hontelez**

880 FACTORS ASSOCIATED WITH HIV, HCV, AND HSV2 SEROSTATUS AMONG US TRANSGENDER WOMEN

Morgan P. Keruly, Andrea L. Wirtz, George Mwinnyaa, Sari L. Reisner, ScD, Oliver Laeyendecker, for the American Cohort to Study HIV Acquisition among Transgender Women (LITE) Study Group

881 HIV PREVALENCE AMONG TRANSGENDER MEN AT AN NYC COMMUNITY HEALTH CENTER

Asa Radix, Zil Goldstein, Alexander Harris, Rona Vail

882 PROGRESSION THROUGH THE HIV CARE CONTINUUM FOR TRANSGENDER WOMEN IN THE NA-ACCORD

Catherine R. Lesko, Jessie K. Edwards, Yuezhou Jing, Richard D. Moore, Michael A. Horberg, Peter F. Rebeiro, Ashleigh Rich, Michael J. Silverberg, Angel M. Mayor, Joseph J. Eron, Heidi M. Crane, W. C. Mathews, Keri N. Althoff, Tonia Poteat, for the NA-ACCORD of IeDEA

Symposium S-04 HALT, WHO GOES THERE? VIRUS SENSING AND RESTRICTION

CME

Room 304-306

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding virus sensing and restriction.

Level of Knowledge: It is assumed that the participants are familiar with stages of the viral life cycle and have a basic understanding of molecular biology.

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

- Describe how host cells recognize foreign viral components
- Describe how host cells respond with activities that inhibit different stages of HIV replication

Conveners

Theodora Hatzioannou, *The Rockefeller University, New York, NY, USA*

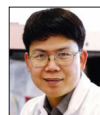
Jeremy Luban, *University of Massachusetts Medical School, Worcester, MA, USA*



95 STING IN THE TAIL: HOW DNA TRIGGERS IMMUNE RESPONSES TO VIRAL INFECTIONS

4:00

Zhijian Chen, *University of Texas Southwestern, Dallas, TX, USA*



96 TRIM5 RECOGNITION AND RESTRICTION OF HIV-1 AND RETROVIRUSES

4:30

Owen Pornillos, *University of Virginia, Charlottesville, VA, USA*



97 HIV-1 AVOIDS BEING ZAPPED

5:00

Janet L. Smith, *University of Michigan, Ann Arbor, MI, USA*



98 SERINC STRUCTURE AND RESTRICTIONS OF HIV-1 INFECTIVITY

5:30

Valerie Pye, *The Francis Crick Institute, London, UK*



**Symposium S-05 HIV IS ON OUR MINDS
Ballroom B**

CME

4:00 PM - 6:00 PM

This session is dedicated to the memory of Dr Kevin Robertson.

Target Audience: This session is directed to clinicians and scientists who are interested in understanding relationship of neurocognitive disorders and HIV infection.

Level of Knowledge: It is assumed that the participants are familiar with the basic principles of neurocognitive disorders and HIV infection.

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

- Describe the global burden of neuroHIV
- Explain the prevalence and management of HIV-associated neurocognitive disorders (HAND) in resource-limited settings
- Describe the burden of mental health complications (eg, depression, suicide, adherence) in Nigeria and other regions
- Describe the burden of cerebrovascular disease and neuroHIV in Asian populations

Conveners

Scott L. Letendre, *University of California San Diego, San Diego, CA, USA*

Matthias Cavassini, *University of Lausanne, Lausanne, Switzerland*



**99 NEUROHIV IN THE GLOBAL CONTEXT:
ADVANCING THE CONTINUUM OF CARE AND
ACHIEVING EQUITY**

4:00

Kiran T. Thakur, *Columbia University, New York, NY, USA*



**100 HIV-ASSOCIATED NEUROCOGNITIVE DISORDERS
AND AGING IN THE GLOBAL SETTING**

4:30

John Joska, *University of Cape Town, Cape Town, South Africa*



**101 HIV AND MENTAL HEALTH: THE IMPACT OF THE
COMORBIDITY IN RESOURCE-CONSTRAINED
SETTINGS**

5:00

Bibilola D. Oladeji, *University of Ibadan, Ibadan, Nigeria*



**102 CEREBROVASCULAR COMPLICATIONS AND
NEUROHIV IN THE GLOBAL SETTING**

5:30

Felicia C. Chow, *University of California San Francisco, San Francisco, CA, USA*



Symposium S-06 B CURED Ballroom A

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the impact of hepatitis B virus and the prospects for cure.

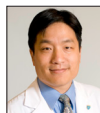
Level of Knowledge: It is assumed that participants are familiar with the general principles of hepatitis treatment and medications.

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

- Describe the global impact of hepatitis B virus
- Evaluate the current prospects for hepatitis B infection

Conveners

Annie F. Luetkemeyer, *University of California San Francisco, San Francisco, CA, USA*



Arthur Y. Kim, *Harvard Medical School, Boston, MA, USA*

103 GLOBAL ELIMINATION OF HEPATITIS B VIRUS
4:00 **Gilles Wandeler**, *University of Bern, Bern, Switzerland*



104 ADAPTING THE IMMUNE RESPONSE TO CURE HEPATITIS B
4:30 **Barbara Rehermann**, *National Institutes of Health, Bethesda, MD, USA*



105 HEPATITIS B VIRUS: NEW AGENTS
5:00 **Raymond T. Chung**, *Harvard University, Cambridge, MA, USA*



106 THE MATHEMATICS OF HEPATITIS B CURE
5:30 **Alan S. Perelson**, *Los Alamos National Laboratory,*



Symposium S-07 CONTRACEPTION AND HIV Ballroom C

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the issues around contraception and HIV.

Level of Knowledge: It is assumed that participants are familiar with contraception use in HIV.

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

- Describe evidence and considerations involved in contraceptive use by women with HIV infection
- Describe state-of-the-art evidence for the association between contraceptive use and the risk of HIV acquisition

Conveners

James Kiarie, *World Health Organization, Geneva, Switzerland*



Yvette Raphael, *Advocacy for Prevention of HIV and AIDS, Durban, South Africa*

107 DRUG-DRUG INTERACTIONS: THE UPS AND DOWNS OF ANTIRETROVIRALS PLUS CONTRACEPTIVES
Kimberly K. Scarsi, *University of Nebraska, Omaha, NE, USA*



108 CONTRACEPTIVE IMPLANT ROLLOUT IN SOUTH AFRICA

Gregory Petro, *University of Cape Town, Cape Town, South Africa*



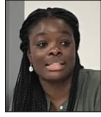
109 CONTRACEPTION AND HIV RISK: A CONUNDRUM NO MORE

Renee Heffron, *University of Washington, Seattle, WA, USA*



110 THE STATE OF SRHR & HIV SERVICES FOR CIS-GENDER WOMEN: A COMMUNITY PERSPECTIVE

Wame Jallow, *International Treatment Preparedness Coalition, Gaborone, Botswana*



LATE-BREAKING NEWS: UPDATE FROM THE HVTN 702 VACCINE (UHAMBO) TRIAL CME

Ballroom B

6:10 PM - 6:45 PM

On February 3, 2020 the HVTN 702 HIV vaccine efficacy trial in South Africa discontinued vaccinations because the interim review by the Data and Safety Monitoring Board reported that the vaccine candidate did not prevent HIV. There were no safety concerns. This session will provide a brief overview of the results available and provide meeting attendees with an opportunity to ask questions of the study team as they prepare for the full analysis of these data.

INTRODUCTION OF HVTN 702 STUDY

Lawrence Corey, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*

PRESENTATION OF HVTN 702 STUDY DATA

Glenda E. Gray, *University of the Witwatersrand, Johannesburg, South Africa*

Moderator

Susan P. Buchbinder, *San Francisco Department of Public Health, San Francisco, CA, USA*

Panelists

Lawrence Corey, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*

Glenda E. Gray, *University of the Witwatersrand, Johannesburg, South Africa*

Steven F. Wakefield, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*

Please refer to the CROI Mobile App for more details.

WEDNESDAY MARCH 11, 2020

Plenary PL-03 WEDNESDAY PLENARY SESSION
Auditorium / Hall C / Auditorium Balcony

CME

8:30 AM - 9:30 AM

Session Hosts

Richard E. Chaisson, *The Johns Hopkins University, Baltimore, MD, USA*

Penelope L. Moore, *University of Witwatersrand, Johannesburg, South Africa*



111 RECENT ADVANCES IN THE DIAGNOSIS, TREATMENT, AND PREVENTION OF TUBERCULOSIS

8:30

Gavin Churchyard, *The Aurum Institute, Johannesburg, South Africa*



112 ENGINEERING VACCINE IMMUNITY

9:00

Shane Crotty, *La Jolla Institute for Allergy and Immunology, La Jolla, CA, USA*



Oral Abstract 0-09 IMMUNOLOGY AND PATHOGENESIS OF LENTIVIRUS INFECTIONS

Room 312

10:00 AM - 12:00 PM

Oral Abstract Moderators

Zaza Ndhlovu, *African Health Research Institute, Durban, South Africa*

Sandhya Vasan, *Military HIV Research Program, Bethesda, MD, USA*



113 IL-6 BLOCKADE DECREASES INFLAMMATION AND INCREASES CD127 EXPRESSION IN HIV INFECTION

10:00

Benigno Rodriguez, Zhengyi Chen, Curtis Tatsuka, Scott F Sieg, Alan Landay, Grace A. McComsey, Brian Claggett, Chris T. Longenecker, Carey Shive, Keith W. Crawford, Daniela Moisi, Michael L. Freeman, Nicholas Funderburg, Leonard Calabrese, Michael M. Lederman

114 NEUTRALIZING ANTIBODIES AND TRMS PROVIDE ENHANCED AND DURABLE RESISTANCE AGAINST HIV

10:15

Prabhu S Arunachalam, Tysheena P. Charles, Vineet Joag, Satish V. Bollimpelli, Madeleine K. Scott, Shakti Gupta, Shankar Subramaniam, Purvesh Khatri, Pamela A. Kozlowski, Cynthia Derdeyn, Eric Hunter, David Masopust, Rama R. Amara, Bali Pulendran, for the Emory Consortium for Innovative AIDS Research

115 LB HUMAN NK CELLS DEVELOP ANTIGEN-SPECIFIC IMMUNOLOGICAL MEMORY OF HIV

10:30

Stephanie Jost, Olivier Lucar, Haley Dugan, Marcus Altfeld, Paul Goepfert, R. Keith Reeves

116 EFFICACIOUS RHCMV/SIV VECTORS ELICIT BROADLY CROSS-REACTIVE SIV-SPECIFIC CD8+ T CELLS

10:45

Benjamin N. Bimber, Shaheed Abdulhaqq, Abigail Ventura, Eric McDonald, Daniel Douek, Scott Hansen, Jonah Sacha, Louis J. Picker

117 PD-1 BLOCKADE AT TIME OF ART WITHDRAWAL FACILITATES EARLY POST-PEAK VIRAL CONTROL

11:00

Afam Okoye, Derick M. Duell, Benjamin Varco-Merth, Morgan Chaunzwa, Matthew Lidell, Hannah Behrens, Jeremy Smedley, Michael K. Axthelm, Scott Hansen, Steven G. Deeks, Nicolas Chomont, Jeffrey D. Lifson, Sharon R. Lewin, Louis J. Picker

- 118
11:15

TRACKING AND PREDICTING REBOUND IN SHIV-INFECTED INFANT MACAQUES AFTER LONG-TERM ART
Veronica Obregon-Perko, Katherine Bricker, Ferzan Uddin, Laura Rotolo, Daryll Vanover, Philip Santangelo, Stella Berendam, Genevieve Fouda, Shan Liang, Thomas Vanderford, Katharine J. Bar, George Shaw, Guido Silvestri, Sallie Permar, Ann Chahroudi
- 119
11:30

PERIPHERAL BLOOD SIV/HIV ORIGINATES FROM INFECTED CELLS IN TISSUES
Leticia Kuri Cervantes, Maria B. Pampena, Marcus Buggert, Meagan Watkins, David S. Khoury, Kevin McCormick, Felicity Mampe, Emily Lindemuth, Ian Frank, Max G. Itkin, Miles Davenport, Brandon F. Keele, Katharine J. Bar, Ronald Veazey, Michael R. Betts
- 120 LB
11:45

CD4+ T-CELL DEPLETION IN AFRICAN GREEN MONKEYS DOES NOT ALTER DISEASE PROGRESSION
Egidio Brocca-Cofano, **Paola Sette**, Ranjit Sivanandham, Cui Ling Xu, Adam J. Kleinman, Sindhuja Murali Kilapandal Venkatraman, Haritha Annapureddy, Colin McAndrews, Tammy Dunsmore, Jason Brenchley, Jacob D. Estes, Cristian Apetrei, Ivona Pandrea

Oral Abstract O-10 GONE BUT NOT FORGOTTEN: HCV AFTER DIRECT-ACTING ANTIVIRAL THERAPY

Ballroom A**10:00 AM - 12:00 PM**

Oral Abstract Moderators

- Vincent Lo Re**, *University of Pennsylvania, Philadelphia, PA, USA*
- Naglaa H. Shoukry**, *Université de Montréal, Montreal, Quebec, Canada*



- 121
10:00

INFERIORITY OF SHORT DURATION SOFOSBUVIR-VELPATASVIR FOR RECENT HCV (REACT STUDY)
Gail Matthews, Sanjay Bhagani, Marc van der Valk, Jürgen K. Rockstroh, Christine Thurnheer, Arthur Kim, Jordan J. Feld, Julie Bruneau, Edward Gane, Margaret Hellard, Tanya Applegate, Marianne Martinello, Kathy Petoumenos, Gregory J. Dore, for the REACT Study Group
- 122
10:15

INDIVIDUAL AND POPULATION-LEVEL IMPACT OF HCV TREATMENT AMONG PEOPLE WHO INJECT DRUGS
Javier Cepeda, David L. Thomas, Rachel E. Gicquelais, Jacquie Astemborski, Gregory D. Kirk, Shruti H. Mehta
- 123 LB
10:30

LARGE HIV OUTBREAK AMONG PEOPLE WHO INJECT DRUGS, WEST VIRGINIA, 2018–2019
Robert P. McClung, Nivedha Panneer, Amy Atkins, Sheryl Lyss, Senad Handanagic, Mi Chen, Michael Kilkenny, Kyle T. Bernstein, Vicki Hogan, Carolyn Wright, Erica Thomasson, Kara Willenburg, David Wills, Alexandra M. Oster, for the West Virginia HIV Response Team
- 124
10:45

HCV TRANSMISSION AMONG MSM: EXTERNAL INTRODUCTIONS COULD COMPLICATE MICRO-ELIMINATION
Jelle Koopsen, Edyth Parker, Colin Russell, Thijs J. Van De Laar, Elske Hoornenborg, Marc Van Der Valk, Janke Schinkel
- 125
11:00

NEWBORN TESTING REVEALS HIGH HCV SEROPREVALENCE IN PREGNANT WOMEN FROM NEW YORK STATE
Linda M. Styer, Erica Miller, Jean Rock, Lea Krein, Monica Martin, Dhanushki Samaranyake, Shu-Yin Leung, Michele Caggana, Colleen Flanagan, Monica Parker

126 HEPATOCELLULAR CARCINOMA RISK AMONG PERSONS WITH HIV IN NORTH AMERICA, 1996-2015
11:15

Jing Sun, Keri N. Althoff, H. Nina Kim, Mari M. Kitahata, Chad J. Achenbach, Gypsyamber D'Souza, Marina Klein, Bryan Lau, Joseph Lim, Vincent Lo Re, Julia L. Marcus, Angel M. Mayor, Michael J. Silverberg, Gregory D. Kirk, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

127 HIV/HCV VS HCV: PLASMA AND LIVER VIRAL DYNAMICS AND IP-10 LEVELS
11:30

Ashwin Balagopal, Jaiprasath Sachithanandham, Julia Leep-Lazar, Jeffrey Quinn, Kenneth Bowden, Kathleen M. Ward, Stephanie Katz, Mark Sulkowski

128 CLINICAL PREDICTORS OF LIVER FIBROSIS PRESENCE & PROGRESSION IN HIV-ASSOCIATED NAFLD
11:45

Lindsay T. Fourman, Takara L. Stanley, Meghan Feldpausch, Julia Purdy, Isabel Zheng, Chelsea S. Pan, Julia Aepfelbacher, Colleen Buckless, Andrew Tsao, Kathleen E. Corey, Raymond T. Chung, Martin Torriani, David E. Kleiner, Colleen Hadigan, Steven K. Grinspoon

Oral Abstract O-11 CRITICAL ISSUES IN MATERNAL AND CHILD HEALTH
Room 304-306 10:00 AM - 12:00 PM

Oral Abstract Moderators

Lisa Lynn. Abuogi, *University of Colorado, Denver, Aurora, CO, USA*

Paula Vaz, *Fundação Ariel Glaser Contra o Sida Pediátrico, Maputo, Mozambique*



129 DOLUTEGRAVIR-CONTAINING ART DOES NOT REDUCE ETONOGESTREL IMPLANT CONCENTRATIONS
10:00

Rena Patel, Randy Stalter, Maricianah Onono, Evelyn Brown, Lilian Adejo, Catherine K. Adhu, Kimberly K. Scarsi

130 LB SAFETY AND EFFICACY OF DTG VS EFV AND TDF VS TAF IN PREGNANCY: IMPAACT 2010 TRIAL
10:15

Lameck Chinula, Sean S. Brummel, Lauren Ziemba, Lynda Stranix-Chibanda, Anne Coletti, Chelsea Krotje, Patrick Jean-Philippe, Lee Fairlie, Tichaona Vhembo, Deo Wabwire, Risa M. Hoffman, Paul E. Sax, Jeffrey S. Stringer, Judith S. Currier, Shahin Lockman

131 LB DIFFERENTIATED CARE FOR POSTPARTUM ART IN SOUTH AFRICAN WOMEN LIVING WITH HIV: AN RCT
10:30

Jasantha Odayar, Maia Lesosky, Thokozile R. Malaba, Siti Kabanda, Joanna Allerton, Nai-Chung Hu, Elton E. Mukonda, Stephanie Fourie, Shahieda Jacobs, David Huang, Cathy D. Kalombo, Nei-Yuan M. Hsiao, Landon Myer, for the Postpartum Adherence Clubs for Antiretroviral Therapy (PACART) Trial

132 POC EID VS CENTRAL LAB TESTING: RESULTS FROM A STEP-WEDGE RCT IN KENYA AND ZIMBABWE
10:45

Emma Sacks, Rhoderick Machezano, Bernard Ochuka, Haurovi Mafaune, Addmore Chadambuka, Collins Otieno, Agnes Mahomva, George Githuka, Jean-Francois Lemaire, Flavia Bianchi, Jennifer Cohn

133 A RANDOMIZED TRIAL OF POINT-OF-CARE EARLY INFANT HIV DIAGNOSIS IN ZAMBIA
11:00

Carla J. Chibwesa, Katie Mollan, Catherine Ford, Aaron Shibemba, Pooja Saha, Benjamin H. Chi, Lloyd Mulenga, Mildred Lusaka, Felistas Mbewe, Jeffrey S. Stringer

134 LB POPULATION-LEVEL HIV-FREE INFANT SURVIVAL IN THE SEARCH TRIAL

11:15

Shalika Gupta, Jane Kabami, Gabriel Chamie, Norton Sang, Dalsone Kwarisiima, Douglas Black, Laura B. Balzer, James Ayieko, Craig R. Cohen, Elizabeth A. Bukusi, Moses R. Kamya, Diane V. Havlir, Maya L. Petersen, **Theodore Ruel**

135 PREDICTORS OF THE PERSISTING VIRAL RESERVOIR IN VERY EARLY TREATED INFANTS

11:30

Louise Kuhn, Maria Paximadis, Bianca Da Costa Dias, Sizanani Mncube, Renate Strehlau, Yanhan Shen, Stephanie Shiao, Faezah Patel, Megan Burke, Karl Technau, Shayne Loubser, Elaine J. Abrams, Caroline Tiemessen, for the LEOPARD Study Team

136 LONG-TERM TREATMENT OUTCOMES: EARLY VERSUS DEFERRED ART IN CHILDREN LIVING WITH HIV

11:45

Thanyawee Puthanakit, Jiratchaya Sophonphan, Wipaporn Natalie Songtaweasin, Thidarat Jupimai, Ly Penh Sun, Pope Kosalaraksa, Rawiwan Hansudewechakul, Suparat Kanjanavanit, Chettra Kea, Chaiwat Ngampiyaskul, Tuangtip Theerawit, Stephen J. Kerr, Claude A. Mellins, Jintanat Ananworanich, for the PREDICT and Resilience Study Group

Oral Abstract 0-12 TUBERCULOSIS, OPPORTUNISTIC INFECTIONS, AND HIV TESTING

Ballroom C

10:00 AM - 12:00 PM

Oral Abstract Moderators

Joshua A. Barocas, *Massachusetts General Hospital, Boston, MA, USA*

Jose Miro, *University of Barcelona, Barcelona, Spain*



137 ANTIMICROBIAL PROPHYLAXIS AMONG AFRICAN ADULTS ON ART: RESULTS OF A RANDOMIZED TRIAL

10:00

Randy G. Mungwira, Ngina Nampota, Oswald M. Nyirenda, Titus H. Divala, Maxwell M. Kanjala, Felix A. Mkandawire, Lufina Tzirizani, Wongani Nyangulu, Edson Mwinjiwa, Terrie Taylor, Jane E. Mallewa, Christopher V. Plowe, Joep J. van Oosterhout, Miriam K. Laufer, Matthew B. Laurens

138 ISONIAZID TO PREVENT MTB INFECTION IN HIV-EXPOSED UNINFECTED INFANTS

10:15

Sylvia LaCourse, Barbra A. Richardson, Lisa M. Cranmer, Elizabeth Maleche Obimbo, Daniel Matemo, Alex J. Warr, Jaclyn Escudero, John Kinuthia, Thomas Hawn, Grace John-Stewart

139 PREDICTORS OF TUBERCULOSIS INFECTION IN MDR-TB HOUSEHOLD CONTACTS ≥15 YEARS OLD

10:30

Soyeon Kim, Amita Gupta, Xingye Wu, Michael D. Hughes, Rodney Dawson, Vidya Mave, Nagalingeswaran Kumarasamy, Elizabeth Smith, Roxana Rustomjee, N. Sarita Shah, Anneke Hesselink, Susan Swindells, Gavin Churchyard, for the A5300/I2003 PHOENIX Feasibility Study Team

140 DIAGNOSTIC AND THERAPEUTIC CHALLENGES ARISE WITH EARLY HIV INFECTION ON PrEP

10:45

Michael J. Peluso, Monica Gandhi, Susa Coffey, Heather Hartig, Susan P. Buchbinder, Michael P. Busch, Christopher D. Pilcher, Hyman Scott, Stephanie E. Cohen, Darpun Sachdev, Pierre Crouch, Diane V. Havlir, Steven G. Deeks, Timothy J. Henrich, Sulggi Lee

141 A RANDOMIZED TRIAL OF INCENTIVES AND DEPOSIT CONTRACTS TO PROMOTE HIV RETESTING

11:00

Dalsone Kwarisiima, Alex Ndyabakira, Kara Marson, Carol S. Camlin, Diane V. Havlir, Moses R. Kamya, Harsha Thirumurthy, **Gabriel Chamie**

142 COMMUNITY-BASED HIV TESTING IN URBAN KENYA: A STRATEGY TO REACH MEN AND YOUTH

11:15

Hong-Ha M. Truong, A. Rain Mocello, David Ouma, Dena Bushman, Kevin Kadede, Eric Ating'A, Dancun O. Obunge, Elizabeth A. Bukusi, Francesca Odhiambo, Craig R. Cohen

143 LB EFFECTIVENESS OF 3HP ANNUALLY VS ONCE FOR HIV-POSITIVE PEOPLE: THE WHIP3TB TRIAL

11:30

Gavin Churchyard, Vicky Cardenas, Violet Chihota, Kathryn Mngadi, Modulakgotla Sebe, William L. Brumskine, Salome Charalambous, Neil A. Martinson, Getnet Yimer, Alberto L. Garcia-Basteiro, Leeanne Masilela, Susan Van Den Hof, Richard E. Chaisson, Alison Grant, Katherine Fielding

144 LB RIFAPENTINE PHARMACOKINETICS AND SAFETY IN PREGNANT WOMEN WITH AND WITHOUT HIV ON 3HP

11:45

Jyoti S. Mathad, Radojka M. Savic, Paula Britto, Lubbe Wiesner, Ellen Townley, Nahida Chakhtoura, Sarah Bradford, Sandesh Patil, Tichaona Vhembo, Dominique Lespinasse, Deborah Langat, Peerawong Werarak, Portia Kamthunzi, Amita Gupta, Kelly E. Dooley

Oral Abstract O-13 THE GOOD, THE BAD, AND THE UGLY: HIV INCIDENCE AND OUTCOMES IN SELECTED POPULATIONS
Ballroom B 10:00 AM - 12:00 PM

Oral Abstract Moderators

Andrew Mujugira, *Makerere University, Kampala, Uganda*

Kate Buchacz, *Centers for Disease Control and Prevention, Atlanta, GA, USA*



145 NO HIV INCIDENCE INCREASE IN FIRST-TIME BLOOD DONORS WITH 12-MONTH DEFERRAL FOR MSM

10:00

Eduard Grebe, Edward P. Notari, Roberta Bruhn, Claire Quiner, Mars Stone, Sonia Bakkour, Hong Yang, Debra Kessler, Rita Reik, Michael P. Busch, Susan Stramer, Simone Glynn, Alan Williams, Brian Custer, for the U.S. FDA Transfusion Transmissible Infections Monitoring System

146 EXPLAINING RACIAL DISPARITIES IN VIRAL SUPPRESSION AMONG MSM LIVING WITH HIV

10:15

Justin R. Knox, Jodie L. Guest, Jeb Jones, Eric Hall, Nicole Luisi, Jennifer Taussig, Mariah Valentine-Graves, Eli Rosenberg, Travis Sanchez, Patrick S. Sullivan

147 EXPLOSIVE HIV AND HCV EPIDEMICS DRIVEN BY NETWORK VIREMIA AMONG PWID

10:30

Steven J. Clipman, Shruti H. Mehta, Aylur K. Srikrishnan, Katie J. Zook, Priya Duggal, Shobha Mohapatra, Shanmugam Saravanan, Nandagopal Paneerselvam, Muniratnam S. Kumar, Elizabeth Ogburn, Allison M. McFall, Gregory M. Lucas, Carl A. Latkin, **Sunil S. Solomon**

148 THE AGING OF HIV-1 INCIDENCE IN HYPERENDEMIC RURAL SOUTH AFRICA

10:45

Adam N. Akullian, Alain Vandormael, Joel Miller, Anna Bershteyn, Edward Wenger, Diego F. Cuadros, Frank Tanser

149 HIGH HIV INCIDENCE IN YOUNG WOMEN IN THE BOTSWANA COMBINATION PREVENTION PROJECT

11:00

Faith Ussery, Pamela J. Bachanas, Mary Grace Alwano, Refeletswe Lebelonyane, Lisa Block, Kathleen Wirth, Gene Ussery, Baraedi W. Sento, Tendani Gaolathe, Etienne Kadima, William Abrams, Shahin Lockman, Janet Moore

150 RAPIDLY DECLINING HIV INCIDENCE AMONG MEN AND WOMEN IN RAKAI, UGANDA

11:15

Gertrude Nakigozi, Larry W. Chang, Steven J. Reynolds, Fred Nalugoda, Godfrey Kigozi, Thomas C. Quinn, Ronald H. Gray, Alice Kisakye, Anthony Ndyababo, Robert Ssekubugu, David Serwadda, Maria Wawer, Joseph Kagaayi, **Mary K. Grabowski**, for the Rakai Health Sciences Program

151 INCREASED OVERALL LIFE EXPECTANCY BUT NOT COMORBIDITY-FREE YEARS FOR PEOPLE WITH HIV

11:30

Julia L. Marcus, Wendy Leyden, Alexandra N. Anderson, Rulin Hechter, Michael A. Horberg, Haihong Hu, Jennifer O. Lam, William J. Towner, Qing Yuan, Michael J. Silverberg

152 LOW-LEVEL VIREMIA DURING ART AND THE RISK OF DEATH, AIDS, AND SERIOUS NON-AIDS EVENTS

11:45

Olof Elvstam, Gaetano Marrone, Patrik Medstrand, Carl Johan Treutiger, Anders Sönnberg, Magnus Gisslén, Per Bjorkman

Themed Discussion TD-11 THE ROAD TO A BETTER VACCINE: CLINICAL TRIALS AND COHORT STUDIES

Room 312

1:30 PM - 2:30 PM

Themed Discussion Leader

Richard A. Koup, *National Institutes of Health, Bethesda, MD, USA*



287 THE RV144 VACCINE PRIMED IgG4 AND V1V2-ADCP RESPONSES IN HIV BREAKTHROUGH INFECTIONS

Thembi Mdluli, Dominic Paquin-Proulx, Bonnie Slike, Gina Donofrio, Sorachai Nitayaphan, Punnee Pitisutthithum, Supachai Rerks-Ngarm, Margaret Ackerman, Merlin L. Robb, Nelson L. Michael, Sandhya Vasan, Michael A. Eller, Shelly J. Krebs, Morgane Rolland, for the RV144 study group

288 PHASE I/II A TRIAL OF HIV CLADE C DNA WITH MF59- OR AS01B-ADJUVANTED CLADE C PROTEIN

Nigel Garrett, Cynthia L. Monaco, Philipp Mann, Julia Hutter, Allan C. deCamp, One Dintwe, Georgia Tomaras, Megan Jones, Giuseppe Pantaleo, Song Ding, Olivier Van Der Meeren, Julie McElrath, Larry Corey, James G. Kublin, for the HVTN 108 Study Team

289 MUCOSAL T AND B CELL RESPONSES INDUCED BY ALVAC-HIV/AIDS VAX B/E LATE BOOST STRATEGIES

Alexandra Schuetz, Siriwat Akapirat, Michael A. Eller, Yuwadee Phuang-Ngern, Punnee Pitisutthithum, Sorachai Nitayaphan, Suwat Chariyalertsak, Nittaya Phanuphak, Carlos A. Diazgranados, Jerome H. Kim, Merlin L. Robb, Nelson L. Michael, Robert J. O'Connell, Sandhya Vasan, for the RV306 Study Group

290 CANDIDATE IMMUNOGENS DIFFERENTIALLY ENGAGE HIV BROADLY NEUTRALIZING PLASMA ANTIBODIES

Irene Abela, Teja Turk, Nikolas Friedrich, Claus Kadelka, Matthias Gloegl, Brano Ivan, Peter Rusert, Merle Schanz, Roger Kouyos, Huldrych F. Günthard, Alexandra Trkola, for the Swiss HIV Cohort Study

291 ACUTE INFECTION B-CELL DETERMINANTS PREDICT DEVELOPMENT OF NEUTRALIZATION BREADTH

Samantha Townsley, Gina Donofrio, Ningbo Jian, David Leggat, Vincent Dussupt, Letzibeth Mendez-Rivera, Nicole Doria-Rose, John R. Mascola, Morgane Rolland, Sodsai Tovanabutra, Adrian B. McDermott, Nelson L. Michael, Merlin L. Robb, **Shelly J. Krebs**, for the RV217 Study Group

Themed Discussion TD-12 ATTACK OF THE CLONES: CLONAL EXPANSION IN THE HIV RESERVOIR

Room 304-306

1:30 PM - 2:30 PM

Themed Discussion Leader

Linus Vandekerckhove, Ghent University, Ghent, Belgium



360 PARALLEL HIV RNA, INTEGRATION SITE, AND PROVIRAL SEQUENCING IN SINGLE RESERVOIR CELLS

Kevin Einkauf, Matthew Osborn, Ce Gao, Jane Blackmer, Chenyang Jiang, Eric Rosenberg, Xu G. Yu, Mathias Lichterfeld

361 SINGLE-CELL ATLAS AND CLONAL EXPANSION DYNAMICS OF CD4+ T CELLS DURING HIV INFECTION

Jack A. Collora, Delia Pinto-Santini, Siavash Pasalar, Ricardo Alfaro, Carmela Ganoza, Jennifer Chiarella, Rachela Calvi, Javier R. Lama, Serena S. Spudich, Ann Duerr, Ya-Chi Ho

362 TCR SEQUENCING REVEALS CLONAL EXPANSIONS OF INDUCIBLE RESERVOIRS IN SPECIFIC SUBSETS

Pierre Gantner, Amelie Pagliuzza, Marion Pardons, Moti Ramgopal, Jean-Pierre Routy, Rémi Fromentin, Nicolas Chomont

363 ONLY A FEW HIV-1 INTEGRATION SITES CONFER GROWTH ADVANTAGE TO INFECTED CELLS IN VIVO

John M. Coffin, Michael J. Bale, Daria W. Wells, Shuang Guo, Brian Luke, Jennifer M. Zerbato, Michele Sobolewski, Twan Sia, Wei Shao, Xiaolin Wu, Frank Maldarelli, Mary F. Kearney, John W. Mellors, Stephen H. Hughes

364 HIV DYNAMICS AND REPOPULATION OF RESERVOIRS IN THE HUMAN BODY

Antoine Chaillon, Sara Gianella, Simon Dellicour, Stephen A. Rawlings, Michelli Faria De Oliveira, Caroline Ignacio, Magali Porrachia, Bram Vrancken, Davey M. Smith

Themed Discussion TD-13 THE LONG AND THE SHORT OF IT: WHAT'S NEXT FOR LONG-ACTING DRUGS

Ballroom B

1:30 PM - 2:30 PM

Themed Discussion Leader

Ethel D. Weld, The Johns Hopkins University, Baltimore, MD, USA



466 CABOTEGRAVIR AND RILPIVIRINE PK FOLLOWING LONG-ACTING HIV TREATMENT DISCONTINUATION

Susan Ford, Herta Crauwels, Kelong Han, Stefaan Rossenu, Feifan Zhang, Jenny O. Huang, David A. Margolis, Kenneth Sutton, Krischan J. Hudson, Peter E. Williams, William Spreen, Parul Patel

467 WITHDRAWN

468 MK-8504 AND MK-8583 (TENOFVIR PRODRUGS) SINGLE-DOSE PK AND ANTIVIRAL ACTIVITY IN HIV INFECTION

Randolph P. Matthews, Sarah J. Hsieh, Jesse C. Nussbaum, Guido H. Jajamovich, Tian Zhao, Diana Selverian, Michaelanne Wasenius, Liesbeth Haspeslagh, Caroline Cilissen, Dirk Schuermann, Sylvie Rottey, Marta Boffito, Deanne J. Rudd, S. Aubrey Stoch, Marian Iwamoto

469 DOSE-RESPONSE RELATIONSHIP OF SUBCUTANEOUS LONG-ACTING HIV CAPSID INHIBITOR GS-6207

Eric Daar, Cheryl McDonald, Gordon Crofoot, Peter Ruane, Gary Sinclair, Edwin DeJesus, Mezgebe Berhe, Moti Ramgopal, Heena Patel, Ya-Pei Liu, Rebecca Begley, Diana Brainard, Robert H. Hyland, Martin Rhee

471 ANTIRETROVIRAL & RIFAMPICIN COTREATMENT AFFECTS DMPA EXPOSURE: DOSING IMPLICATIONS

Jose Francis, Paolo Denti, Helen McIlleron, Michelle A. Kendall, Xingye Wu, Kelly E. Dooley, Cindy Firnhaber, Catherine Godfrey, Susan E. Cohn, Rosie Mngqibisa

Themed Discussion TD-14 NEW DIAGNOSTIC ALGORITHMS FOR TUBERCULOSIS AND OPPORTUNISTIC INFECTIONS
Ballroom A 1:30 PM - 2:30 PM

Themed Discussion Leader

Andrew D. Kerkhoff, *University of California San Francisco, San Francisco, CA, USA*



720 PREVALENCE OF TB SYMPTOMS, DIAGNOSIS, AND TREATMENT AMONG HIV PATIENTS NOT ON ART

Alana T. Brennan, Mhairi Maskew, Bruce Larson, Isaac Tsikhutsu, Margaret Bii, Lungisile Vezi, Matthew P. Fox, Willem D. Venter, Peter Ehrenkranz, Sydney Rosen

755 CHARACTERISATION OF SOUTH AFRICA'S XPERT MTB/RIF ULTRA "TRACE" LABORATORY RESULTS

Lesley Scott, Pedro Da Silva, Kyle Fyvie, Gabriel D. Eisenberg, Silence Ndlovu, Puleng S. Marokane, Wendy Stevens

759 PROMISING COMBINED IMMUNOLOGICAL ASSAYS TO DIAGNOSE CHILDHOOD TUBERCULOSIS

Edouard Tuaillon, Mwiya Mwiya, Laurent Kremer, Melany w. Tonga, Duncan Chanda, Marianne Periès, Amandine Pisoni, Karine Bolloré, Roselyne Vallo, Chipepo Kankasa, Philippe Van de Perre, **Jean-Pierre Molès**, Nicolas Nagot

743 DIAGNOSTIC PERFORMANCE OF A SEMIQUANTITATIVE POINT-OF-CARE ASSAY FOR CRYPTOCOCCOSIS

Tadeo K. Kiiza, Audrey Nimwesiga, Caleb P. Skipper, Richard Kwizera, Lucy Apeduno, Michael Okirwoth, John Bosco Kafufu, Elizabeth Nalintya, Darlisha A. Williams, Joshua Rhein, David B. Meya, David R. Boulware

750 SUPERIOR ACCURACY OF THE Mp1p ANTIGEN ASSAY OVER CULTURES IN DIAGNOSING TALAROMYCOSIS

Ly T. Vo, Thu T. Nguyen, Thanh T. Nguyen, Nguyen Le Nhu Tung, Jasper F. Chan, Patrick C. Woo, Chau V. Nguyen, Nga N. Cao, Kwok-Yung Yuen, Thuy Le

Themed Discussion TD-15 MAKING SENSE OF IT ALL: HIV SUSCEPTIBILITY IN THE FEMALE GENITAL TRACT

Ballroom C 1:30 PM - 2:30 PM

Themed Discussion Leader

Caroline Mitchell, *Harvard Medical School/Massachusetts General Hospital, Boston, MA, USA*



MINI LECTURE: HIV SUSCEPTIBILITY IN THE FEMALE GENITAL TRACT

Caroline Mitchell, *Harvard Medical School/Massachusetts General Hospital, Boston, MA, USA*

1061 GENITAL SECRETIONS FROM WOMEN WITH BACTERIAL VAGINOSIS ENHANCE HIV INFECTION EX VIVO

Marla J. Keller, Richard Hunte, Rebecca Barnett, Joyce Serebrenik, Jessica McWalters, April Dobkin, Jessica Goymer, Laurie Ray, Lilia Espinoza, Jessica M. Atrio, Kerry Murphy, Betsy Herold

1062 DMPA-IM DRIVES CERVICAL TH17 HIV TARGET-CELL ACCUMULATION IN WOMEN IN ECHO TRIAL

Rubina Bunjun, Tanko F. Ramla, Shameem Jaumdally, Hoyam Gamielien, Rushil Harryparsad, Smritee Dabee, Gonasangrie Nair, Thesla Palanee-Phillips, Maricianah A. Onono, Caitlin W. Scoville, Kate Heller, Jared Baeten, Heather Jaspan, Renee Heffron, Jo-Ann Passmore

1063 INCREASED GENITAL INFLAMMATION IN WOMEN RANDOMIZED TO COPPER IUD IN THE ECHO TRIAL

Tanko F. Ramla, Rubina Bunjun, Shameem Jaumdally, Smritee Dabee, Anna-Ursula Happel, Hoyam Gamielien, Rushil Harryparsad, Marisiana A. Onono, Gonasangrie Nair, Thesla Palanee-Phillips, Caitlin W. Scoville, Jared Baeten, Renee Heffron, Heather Jaspan, Jo-Ann Passmore

1059 A COMBINED ESTROGEN/PROGESTIN VAGINAL RING IMPROVES VAGINAL MICROBIAL COMMUNITIES

Nicole H. Tobin, Sarah L. Brooker, Fan Li, Yoninah S. Cramer, Susan L. Rosenkranz, Grace M. Aldrovandi, Robert Coombs, Susan E. Cohn, Carmen D. Zorrilla, Laura E. Moran, Baiba Berzins, Kimberly K. Scarsi, Catherine Godfrey, for the ACTG 5316 Team

Symposium S-08 DOUBLE-EDGED SWORD OF INFLAMMATION

CME

Ballroom A

4:00 AM - 6:00 AM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the role of inflammation in HIV infection.

Level of Knowledge: It is assumed that the participants are familiar with the basic mechanisms of inflammation in HIV infection.

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

- Describe the role of inflammation in driving vaccine immunity
- Identify the early inflammatory signatures that track with early infection
- Explain the drivers of chronic inflammation
- Describe the potential pathways that can be manipulated to reduce inflammation

Conveners

Giulia Marchetti, *University of Milan, Milan, Italy*

Douglas Kwon, *Harvard Medical School, Cambridge, MA, USA*



153 **USING SYSTEM BIOLOGY TO UNDERSTAND THE MECHANISMS OF VACCINE EFFICACY**

4:00

Bali Pulendran, *Emory University, Atlanta, GA, USA*

154 **DECODING THE TRANSCRIPTIONAL INFLAMMATORY CASCADES THAT MAINTAIN HIV RESERVOIR**

4:30

Susan Pereira Ribeiro, *Case Western Reserve University, Cleveland, OH, USA*

155 **DISSECTING THE DRIVERS OF CHRONIC INFLAMMATION**

5:00

Krystelle Nganou, *National Institutes of Health, Bethesda, MD, USA*

156 **DEFINING TREATABLE PATHWAYS IN INFLAMMAGING: IS IT NICE TO FOOL WITH MOTHER NATURE?**

5:30

Michael M. Lederman, *Case Western Reserve University, Cleveland, OH, USA*

Symposium S-09 ANTIRETROVIRAL THERAPY: THE LONG GAME

CME

Ballroom B

4:00 AM - 6:00 AM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding current challenges and questions regarding antiretroviral treatment for people living with HIV.

Level of Knowledge: It is assumed that the participants have an understanding of the principles of antiretroviral therapy and the antiretroviral agents that are commonly used to treat HIV infection.

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

- Describe new antiretroviral agents and how they may be used in treatment
- Identify optimal treatments for metabolic complications
- Describe the benefits and limitations of modern ART in children and adolescents
- Discuss the implications of adherence with modern ARVs and the best use of novel adherence measures

Conveners

Nagalingeswaran Kumarasamy, *Chennai Antiviral Research and Treatment, Tamil Nadu, India*

Angela Colbers, *Radboud University Medical Center, Nijmegen, Netherlands*



157 **NOVEL ANTIRETROVIRAL AGENTS: TRANSFORMING THE CARE OF PEOPLE WITH HIV**

4:00

Rajesh T. Gandhi, *Massachusetts General Hospital, Boston, MA, USA*



158 **PEDIATRIC AND ADOLESCENT ART: A ROAD LESS TRAVELLED**

4:30

Carolyn Bolton Moore, *Centre for Infectious Disease Research in Zambia, Lusaka, Zambia*



159 **METABOLIC COMPLICATIONS OF HIV AND ITS THERAPIES**

5:00

Jordan E. Lake, *University of Texas at Houston, Houston, TX, USA*



160 **GETTING IT RIGHT: PRACTICAL APPROACHES TO ADHERENCE WITH MODERN ARVs**

5:30

Jose R. Castillo-Mancilla, *University of Colorado Denver, Denver, CO, USA*



Symposium S-10 HEPATITIS C: PARALLELS, PITFALLS, AND PROMISE

CME

Ballroom C

4:00 AM - 6:00 AM

Target Audience: This session is directed to clinicians, public health practitioners, and scientists who are interested in understanding the current global epidemiology, clinical interventions, public health implications, prevention, and financing of hepatitis C.

Level of Knowledge: It is assumed that the participants are familiar with basic infectious disease, clinical, and public health terminology and context.

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

- Describe the global epidemiology of hepatitis C infection
- Explain vertical hepatitis C transmission
- Describe examples of successful programs for the elimination of hepatitis C infection

Conveners

Risha Irvin, Johns Hopkins University, Baltimore, MD, USA

Marina Klein, McGill University Health Centre Research Institute, Montreal, QC, Canada



161 GLOBAL EPIDEMIOLOGY OF HEPATITIS C

4:00 **Yvan Hutin**, World Health Organization, Geneva, Switzerland



162 MODELING AND EXAMPLES OF HCV ELIMINATION: POSSIBILITIES, ACHIEVEMENTS, AND NEXT STEPS

4:30 **Natasha Martin**, University of California San Diego, San Diego, CA, USA



163 VERTICAL HEPATITIS C TRANSMISSION: DÉJÀ VU ALL OVER AGAIN?

5:00 **Ali Judd**, University College London, London, UK



164 HEPATITIS C TREATMENT ON A SHOESTRING

5:30 **Isabelle Andrieux-Meyer**, Drugs for Neglected Diseases Initiative, Geneva, Switzerland



POSTER SESSIONS BY DAY

MONDAY MARCH 9, 2020

Poster P-A01 SHARPENING THE CUTTING EDGE

Poster Hall A

2:30 PM - 4:00 PM

- 165 HIV-1 CAPSID-NUCLEAR ENVELOPE INTERACTIONS THAT FACILITATE NUCLEAR IMPORT**
Mohamed Husen Munshi, Ryan C. Burdick, Wei-Shau Hu, Vinay K. Pathak
- 166 REPORTER VIRUSES WITH PROTEIN BARCODES TO ANALYZE HIV LATENCY ESTABLISHMENT**
Eun Hye G. Kim, Maria C. Bermúdez-González, Michael Schotsaert, Ana Fernández-Sesma, Lubbertus C. Mulder, Lara Manganaro, Viviana A. Simon
- 167 GAG DETERMINANTS OF SPECIFIC GENOME PACKAGING IN HIV-1 AND HIV-2**
Jonathan Rawson, Olga A. Nikolaitchik, Xayathed Somoulay, Jennifer A. Yoo, Vinay K. Pathak, Wei-Shau Hu
- 168 EXPLORING THE REQUIREMENTS FOR HIV-1 GENOME PACKAGING THROUGH A NONVIRAL RNA BINDING**
Alice Duchon, Steven Santos, Jianbo Chen, Vinay K. Pathak, Wei-Shau Hu
- 169LB MULTI-OMICS ANALYSES REVEAL IMMUNOMETABOLIC REPROGRAMMING-DEPENDENT HIV-1 REPLICATION**
Haitao Guo, Qi Wang, Li Wang, Khader Ghneim, Elena Rampanelli, Carolina Garrido, Rafick-Pierre Sekaly, Merlin L. Robb, Leigh Anne Eller, David M. Margolis, Xian Chen, Lishan Su, Jenny P. Ting
- 170LB HIGH-RESOLUTION PARTICLE STRUCTURE OF IMMATURE HIV-2**
 Nathaniel L. Talledge, Huixin M. Yang, Luiza Mendonca, Ke Shi, Hideki M. Aihara, Wei Zhang, **Louis M. Mansky**

Poster P-B01 WHERE IS HIV GOING AND WHAT IS IT DOING

Poster Hall A

2:30 PM - 4:00 PM

- 184 HIV ADAPTATION FOLLOWING VERTICAL TRANSMISSION**
Jennifer Currenti, Abha Chopra, Mina John, Shay Leary, Elizabeth McKinnon, Eric Alves, Mark Pilkinton, Ramesh Ram, Becker Law, Francine Noel, Simon Mallal, Joseph Conrad, Spyros Kalams, Silvana Gaudieri
- 185 DAILY IMMUNOLOGICAL/VIROLOGICAL VARIATIONS IN AVIREMIC ART-TREATED HIV PARTICIPANTS**
Debashree Chatterjee, Tomas Raul Wiche Salinas, Yuwei Zhang, Delphine Planas, Amelie Cattin, Augustine Fert, Etienne Moreira Gabriel, Laurence Raymond Marchand, Josee Girouard, Nicolas Cermakian, Daniel E. Kaufmann, Jean-Pierre Routy, Petronela Ancuta
- 186 WITHDRAWN**

- 187 HIGH-THROUGHPUT SINGLE-MOLECULE SEQUENCING TO CHARACTERIZE AB-RESISTANT HIV/SHIV**
Sung Hee Ko, Divya Kilam, Mangaiarkarasi Asokan, Dylan Westfall, Amy Ransier, Sam Darko, Daniel Douek, Richard A. Koup, John R. Mascola, James Mullins, Eli A. Boritz
- 188 ANALYSIS OF COMPARTMENTALIZATION OF HIV-1 IN BONE MARROW**
Thuy T. Nguyen, Jenna Honeycutt, Christopher Nixon, Oksana Zakharova, Christopher Evans, Joann D. Kuruc, Ben Murrell, Cynthia L. Gay, Douglas D. Richman, J. V. Garcia
- 189 INTRAHOST EVOLUTION OF HIV-2 P24 CORRELATES WITH PROGRESSION TO AIDS**
Michael T. Boswell, Angelica Palm, Sara Karlson, Fredrik Månsson, Hans Norrgren, Antonio Biague, Zacarias J. Da Silva, Marianne Jansson, Patrik Medstrand, Sarah Rowland-Jones, Joakim Esbjörnsson
- 190 PLATELETS CARRY INFECTIOUS HIV IN cART-SUPPRESSED PATIENTS IN IMMUNOLOGICAL FAILURE**
Morgane Bomsel, Fernando Real, Claude Capron, Alexis Sennepin, Aiwei Zhu, Jacques Izopet, Eliseo Eugenin, Elisabeth Rouveix, Elisabeth Cramer-Bordé
- 191 FOLLICLE MORPHOLOGY AND HIV RNA DISTRIBUTION IN SPLEEN OF HIV+ HUMANIZED DRAGA MICE**
Joy M. Folkvord, Matthew T. Ollerton, Kristina K. Peachman, Soumya Shashikumar, Elaine B. Morrison, Linda Jagodzinski, Richard D'Aquila, Sofia Casares, Mangala Rao, Elizabeth Connick
- 192 PERMANENT CONTROL OF HIV-1 PATHOGENESIS IN EXCEPTIONAL ELITE CONTROLLERS**
Cristina Gálvez, Concepcion Casado, Maria Pernas, Laura Tarancon-Diez, Carmen Rodriguez, Victor Sánchez-Merino, Mar Vera, Rebeca S De Pablo-Bernal, Alberto Merino-Mansilla, Jorge Del Romero, Ramon Lorenzo-Redondo, Ezequiel Ruiz-Mateos, Maria Salgado, Javier Martinez-Picado, Cecilio Lopez-Galindez
- 193 LACK OF DONOR-DERIVED SUPERINFECTION IN HIV+ TO HIV+ KIDNEY & LIVER TRANSPLANTATION**
Tania S. Bonny, Charles Kirby, Craig Martens, Christine Durand, Niraj Desai, Sander S. Florman, Diane M. Brown, Dorry Segev, Aaron Tobian, Andrew D. Redd
- 194 HIV SUPERINFECTION AMONG MSM AND TGW IN SUB-SAHARAN AFRICA: HPTN 075**
Philip J. Palumbo, Yinfeng Zhang, Mariya V. Sivay, Xu Guo, Vanessa Cummings, Erica Hamilton, Wairimu Chege, Arthur Ogendo, Noel Kayange, Ravindre Panchia, Karen Dominguez, Ying Qing Chen, Theodorus Sandfort, Susan H. Eshleman, for the HPTN 075 Study Team

Poster P-B02 HIV, SIV, AND IMMUNE REGULATION

Poster Hall A

2:30 PM - 4:00 PM

- 195 GENETIC DETERMINANTS OF hsCRP, D-DIMER, AND IL-6 IN 3 MULTIETHNIC HIV COHORTS**
Brad Sherman, Xiaojun Hu, Kanal Singh, Lillian Haine, James Neaton, Jens D. Lundgren, H. Clifford Lane, for the INSIGHT Study Group

- 196 ABNORMAL IMMUNOMETABOLISM AND GENE ACCESSIBILITY IN ALVEOLAR MACROPHAGES IN HIV**
Sara C. Auld, Jolyn Fernandes, Mariam Ahmed, Neel R. Gandhi, Samantha Yeligar, **Bashar Staitieh**
- 197 IMPACT OF EARLY ART ON CD8 T CELLS IN MESENTERIC LYMPH NODES DURING SIV INFECTION**
Alexis Yero, Omar Farnos, Henintsoa Rabezanahary, Ghita Benmadid-Laktout, Julien Clain, Gina Racine, Jerome Estaquier, Mohammad-Ali Jenabian
- 198 ENHANCED MUCOSAL IMMUNITY AND SIV SUPPRESSION AFTER MESENCHYMAL STEM-CELL TRANSFER**
Mariana Guedes Weber, Lauren Hirao, Abigail Mende, Clarissa Rocha, Joy E. Walters, Juan Arredondo, Bipin Balan, Sonny Elizaldi, Smita Iyer, Alice Tarantal, Amir Kol, Satya Dandekar
- 199 IDENTIFYING CENTRAL COMPONENTS OF THE HIV-1+ PREGNANCY IMMUNE NETWORK**
Alexander Cocker, Sarah Dermont, Waheed Khan, Nesrina Imami, Mark Johnson
- 200 CXCR5+ NK CELLS IN THE LYMPH NODE ARE ASSOCIATED WITH CONTROL OF SHIV INFECTION**
Sheikh A. Rahman, James M. Billingsley, Chris C. Ibegbu, Sadia J. Rahman, R. Paul Johnson, Steven E. Bosinger, Rama R. Amara, **Vijayakumar Velu**
- 201LB THE ROLE OF CD101 IN HIV/SIV PATHOGENESIS AND MAINTENANCE OF THE VIRAL RESERVOIR**
Timothy Hoang, Zachary Strongin, Gregory K. Tharp, Justin L. Harper, Zhan Zhang, Steven E. Bosinger, Deanna Kulpa, Mirko Paiardini
- 202 IMMUNE CONTROL OF LIVE ATTENUATED-HIV INFECTION AND DISEASE IN BLTS-HUMANIZED MICE**
Shivkumar Biradar, Moses Bility, Robbie B. Mailliard, for the Bility Lab Group
- 203 FLT3L-MEDIATED EXPANSION OF PLASMACYTOID DCS CONTROLS HIV INFECTION IN HUMANIZED MICE**
Tram Pham, Oussama Meziane, Mohammad Alam Miah, Olga Volodina, Chloé Colas, Kathie Béland, Yuanyi Li, Frédéric Dallaire, Tibor Keler, Jean V. Guimond, Sylvie Lesage, Cheolho Cheong, Élie Haddad, Eric A. Cohen

Poster P-B03 MICROBIOMIC AND METABOLIC MANIFESTATIONS OF HIV INFECTION

Poster Hall A

2:30 PM - 4:00 PM

- 204 EFFECTS OF CMV ON HIV DNA DIVERSITY IN PERIPHERAL BLOOD CELLS DURING EARLY ART**
Antoine Chaillon, Masato Nakazawa, Gemma Caballero, Laura Layman, Brianna Scott, Christy M. Anderson, **Sara Gianella**
- 205 GUT MICROBIOTA FACILITATES HIV ACQUISITION IN THE GUT**
Angela Wahl, Cara Richardson, Wenbo Yao, Allison Rogala, R. Balfour Sartor, J. V. Garcia
- 206 KYNURENINE PATHWAY ACTIVITY REMAINS ABNORMAL DESPITE VERY EARLY ART INITIATION**
Samuel R. Schnittman, Amelia Deitchman, Gabriele B. Beck-Engeser, HaeLee Ahn, Vanessa A. York, Heather Hartig, Rebecca Hoh, Frederick M. Hecht, Jeffrey N. Martin, Steven G. Deeks, Francesca Aweeka, Peter W. Hunt

207 TREHALOSE INHIBITS HIV IN CD4+ LYMPHOCYTES AND MACROPHAGES BY 2 DISTINCT MECHANISMS

Pratima Rawat, Simson Hon, Carmen Teodorof-Diedrich, Stephen A. Spector

208 FECAL MICROVESICLES UNIQUELY INFLUENCE TRANSLOCATING BACTERIA AFTER SIV INFECTION

Alexander Ortiz, Jacob K. Flynn, Jason Brenchley

Poster P-D01 IMMUNOLOGY OF ACUTE HIV INFECTION**Poster Hall A****2:30 PM - 4:00 PM****258 INTEGRATED ANALYSIS OF MULTICELLULAR IMMUNE DYNAMICS DURING HYPERACUTE HIV INFECTION**

Samuel W. Kazer, Toby P. Aicher, Daniel M. Muema, Vincent N. Miao, Carly G. Ziegler, Sarah K. Nyquist, Amber D. Moodley, Krista Dong, Zaza Ndhlovu, Thumbi Ndungu, Bruce D. Walker, Alex K. Shalek

259 UNCOUPLED CELLULAR AND PLASMA MARKERS OF MONOCYTE ACTIVATION IN EARLY HIV INFECTION

Montse Jiménez, Lucia Pastor Palomo, Victor Urrea, Nuria Izquierdo-Useros, Javier Martinez-Picado, Inacio Mandomando, Chenjerai Jairoce, Bonaventura Clotet, Jorge Carrillo, Denise Naniche, Julià Blanco

260 IMMUNOLOGICAL AND CYTOKINE CHANGES IN BLOOD AND GUT MUCOSA FROM PHI BY AN EARLY ART

Nuria Climent, Juan Ambrosioni, David Nicolás, M.J. Maleno, L. Miralles, Carmen Hurtado, Marta Subirana, Carmen Ligeró, Cristina Rodríguez De Miguel, Josep Llach, Michael Meulbroek, Sonsoles Sánchez-Palomino, Jose M. Miro, Montserrat Plana, for the Hospital Clínic PHI Investigators

Poster P-D02 ANTIBODY RESPONSES TO HIV**Poster Hall A****2:30 PM - 4:00 PM****261 IDENTIFICATION OF BROADLY NEUTRALIZING ANTIBODIES FROM SHIV-INFECTED CHINESE MACAQUES**

Nan Gao, Yanxin Gai, Lina Meng, Chu Wang, Tiejun Gu, Wei Wang, Xiaojun Li, Thomas B. Kepler, Chuan Qin, Xianghui Yu, Feng Gao

262 VH GENE POLYMORPHISM ASSOCIATED WITH POTENT ANTI-SIV NEUTRALIZING ANTIBODY INDUCTION

Takeo Kuwata, Hiroshi Ishii, Saori Matsuoka, Tsuyoshi Sekizuka, Makoto Kuroda, Shigeyoshi Harada, Shuzo Matsushita, Yohei Seki, Hiromi Sakawaki, Vanessa Hirsch, Tomoyuki Miura, Hirofumi Akari, Tetsuro Matano

263 POLY/AUTOREACTIVITY AND BROAD NEUTRALIZATION ARE DETERMINED BY DIFFERENT MUTATIONS

Xiaojun Li, Dongmei Liao, Zhengyang Li, Shobhit Srivastava, Jixi Li, Laurent Verkoczy, Feng Gao

264 POLYFUNCTIONAL ANTIBODY RESPONSE TO SHORT-SCHEDULE EBOLA VACCINE IN HIV+/- SUBJECTS

Dominic Paquin-Proulx, Michael A. Eller, Aljawharah Alrubayyi, Jack N. Hutter, Leigh Anne Eller, Lucy Ward, Janice Rusnak, Callie Bounds, Georgi Shukarev, Viki Bockstal, Kerstin Luhn, Macaya Douoguih, Cynthia Robinson, Julie Ake

265 PULMONARY TUBERCULOSIS DISEASE ENHANCES HIV-1 ANTIBODY RESPONSES

Bukola Adeoye, Alex J. Olson, Lydia Nakiyingi, Yukari C. Manabe, Karen R. Jacobson, Jerrold Ellner, Manish Sagar

Poster P-D03 CD8 T CELL RESPONSES

Poster Hall A

2:30 PM - 4:00 PM

- 266 IMPACT OF IMMUNE CHECKPOINT INHIBITORS IN VACCINE-INDUCED ANTI-HIV RESPONSES**
Miguel A. Marin, Alba Ruiz, Esther Jimenez-Moyano, Dan Ouchi, Oscar Blanch-Lombarte, Daniel Gorman, Ruth Penya, Richard Barnard, Christian Manzardo, Tomas Hanke, Christian Brander, Bonnie J. Howell, Bonaventura Clotet, Beatriz Mothe, Julia G. Prado
- 267 CHARACTERIZING “EXCEPTIONAL” CONTROL AMONG HIV ELITE CONTROLLERS**
Michael J. Peluso, Peter Burbelo, Shreya Kumar, Sadie Munter, Rebecca Hoh, Sulggi Lee, Peter W. Hunt, Rachel L. Rutishauser, Timothy J. Henrich, Steven G. Deeks
- 268 HIV-SPECIFIC CD8+ T CELLS EXHIBIT POOR CYTOLYTIC POTENTIAL IN THE HUMAN AIRWAY**
 Raphael Kamng'Ona, Leonard Mvaya, Joseph Phiri, Elizabeth Chimbayo, Rose Malamba, Anstead Kankwatira, Henry Mwandumba, **Kondwani C. Jambo**
- 269LB HIGH FREQUENCY OF CD8 ESCAPE MUTANTS IN ELITE CONTROLLER AS NEW OBSTACLE TO HIV CURE**
 María Ángeles Navarrete, Marcial García, Ricardo Ramos, Africa Holguin, Clara Restrepo, Alfonso Cabello, Juan Carlos López-Bernaldo, Francisco Javier De La Hera, Carlos Barros, Manuel Fernández, Vicente Estrada, Miguel Górgolas Hernández-Mora, José M. Benito, **Norma Rallón**
- 270LB ASSOCIATION OF POLYFUNCTIONAL CMV-SPECIFIC T CELLS WITH FRAILTY IN HIV-INFECTED MEN**
Weiyang Zhang, Jay Bream, Sean X. Leng, Tricia Nilles, Huifen Li, Joseph B. Margolick
- 271 VULNERABLE TARGETS IN HIV-1 POL FOR ATTENUATION-BASED VACCINE DESIGN**
Doty A. Ojwach, Tarylee Reddy, Daniel MacMillan, Vladimir Novitsky, Zabrina Brumme, Mark Brockman, Thumbi Ndungú, Jaclyn Mann

Poster P-E01 MECHANISMS OF HIV LATENCY

Poster Hall A

2:30 PM - 4:00 PM

- 304 EXPRESSION PROFILING OF HIV LATENTLY INFECTED CELLS VIA NANOSTRING AND MASS CYTOMETRY**
Hannah S. Sperber, Tongcui Ma, Nadia R. Roan, Satish K. Pillai
- 305 EPIGENOMIC CHARACTERIZATION OF A PRIMARY CELL MODEL OF HIV LATENCY**
 Barclay T. Pace, Stuart R. Jefferys, Joel Parker, Raghu Dronamraju, Brian D. Strahl, David M. Margolis, **Edward P. Browne**
- 306 SINGLE-CELL ANALYSIS SHOWS MOLECULAR SIGNATURES OF HIV LATENCY IN PRIMARY CELL MODELS**
Sushama Telwatte, Mauricio Montano, Rachel S. Resop, Emilie Battivelli, Sara Moron-Lopez, Eric Verdin, Warner C. Greene, Alberto Bosque, Joseph K. Wong, Steven A. Yukl
- 307 PROVIRAL/HUMAN GENOMIC CROSSTALK IN CELLULAR MODELS FOR HIV INFECTION**
Ulrike C. Lange, Christoph P. Schwarz, Julia K. Bialek, Thomas Walther, Roxane Verdikt, Carine M. Van Lint, Joachim Hauber

Poster P-E02 MEASURING THE HIV RESERVOIR**Poster Hall A****2:30 PM - 4:00 PM**

- 308 DIFFERENTIAL DECAY OF INTACT AND DEFECTIVE PROVIRUS IN INDIVIDUALS ON SUPPRESSIVE ART**
Michael J. Peluso, Peter Bacchetti, Kristen D. Ritter, Subul A. Beg, Jun Lai, Jeffrey Martin, Peter W. Hunt, Timothy J. Henrich, Janet Siliciano, Robert Siliciano, Gregory Laird, Steven G. Deeks
- 309 DISTINCT HIV RESERVOIR MEASURES CORRELATE WITH DEFECTIVE BUT NOT INTACT PROVIRAL DNA**
Emmanouil Papasavvas, Livio Azzoni, Brian Ross, Matthew Fair, Amelie Pagliuzza, Steven Lada, Guoxin Wu, Paul Zuck, Pablo Tebas, Karam Mounzer, Jay Kostman, Douglas D. Richman, Nicolas Chomont, Bonnie J. Howell, Luis Montaner
- 310 RISK AND PREVALENCE OF RESIDUAL VIREMIA AFTER cART IN RESOURCE-LIMITED COUNTRIES**
Sivaporn Gatechompol, Anchalee Avihingsanon, Lu Zheng, Yajing Bao, Stephen J. Kerr, Nagalingeswaran Kumarasamy, James G. Hakim, Frank Maldarelli, Rob Gorelick, Jeffrey D. Lifson, Mina C. Hosseinipour, Joseph J. Eron, Kiat Ruxrungtham, for the ACTG NWCS 425 Team
- 311 A NOVEL DDPCR PROTOCOL TO ESTIMATE COPY NUMBERS OF POTENTIALLY INTACT HIV-1 PROVIRUS**
Claire Levy, Sean Hughes, Pavitra Roychoudhury, Daniel B. Reeves, Chelsea Amstutz, Haiying Zhu, Meei-Li Huang, Yulun Wei, Marta E. Bull, Noah A. Cassidy, Dara Lehman, Jan McClure, Robert Coombs, Keith Jerome, Florian Hladik
- 312 QUANTITATIVE HIV-1 SPECIFIC ANTIBODIES AS PREDICTORS OF BLOOD HIV-1 DNA LEVELS**
Margaret McManus, Brad Karalius, Kunjal Patel, Deborah Persaud, **Katherine Luzuriaga**, for the Pediatric HIV/AIDS Cohort Study
- 313LB LONGITUDINAL QVOA AND IPDA MEASUREMENTS IN CD4 T CELLS FROM ART-SUPPRESSED DONORS**
Shane Falcinelli, Jenna Read, Ross Murtagh, Sam Raines, Morgan Dewey, Nancie Archin, David M. Margolis

Poster P-E03 HIV PERSISTENCE IN TISSUES AND CELLS**Poster Hall A****2:30 PM - 4:00 PM**

- 314 HIV TRANSCRIPTION PROFILE IN BLOOD, GUT, LIVER, AND GENITAL TRACT IN SUPPRESSED WOMEN**
Sara Moron-Lopez, Grace Xie, Peggy Kim, Joseph K. Wong, Jennifer C. Price, Najwa Elnachef, Ruth Greenblatt, Phyllis Tien, Nadia R. Roan, Steven A. Yukl
- 315 INTACT PROVIRUSES FROM NAIVE AND EFFECTOR MEMORY T CELLS MATCH PERSISTENT VIREMIA**
Katie Fisher, Bonnie Hiener, Bethany A. Horsburgh, Timothy E. Schlub, Eunok Lee, Vincent Morcilla, John-Sebastian Eden, Susanne Von Stockenstrom, Jeffrey M. Milush, Rebecca Hoh, Rémi Fromentin, Nicolas Chomont, Steven G. Deeks, Frederick M. Hecht, Sarah Palmer
- 316 HIV Gag p24 PERSISTS IN TISSUE AND CORRELATES WITH IMMUNE RESPONSE**
Guoxin Wu, **Paul Zuck**, Shih Lin Goh, Timothy Schacker, Steven G. Deeks, Daria Hazuda, Peter W. Hunt, Bonnie J. Howell, Schuyler Metzger, Dhruval Patel, Ashley Haase

317 LACK OF COMPARTMENTALIZATION IN THE LATENT RESERVOIR OF BLOOD AND LYMPH NODES

Charles Kirby, Jada Hackman, Alyssa R. Martin, Alexandra M. Bender, Kyungyoon J. Kwon, Craig Martens, Michael J. Bale, Niraj Desai, Sander S. Florman, Dorry Segev, Aaron Tobian, Christine Durand, Robert Siliciano, Andrew D. Redd

318 CHARACTERIZATION OF CD8+ TRM TOWARD THE CONTROL OF THE HIV RESERVOIR IN CERVIX

Núria Massana, Jon Cantero, Judith Grau-Exposito, Laura Luque-Ballesteros, Josep Castellví, Laura Mañalich-Barrachina, Cristina Centeno-Mediavilla, Vicenç Falcó, María J. Buzón, Meritxell Genescà

Poster P-E04 INSIGHTS FROM ANALYTICAL TREATMENT INTERRUPTION

Poster Hall A

2:30 PM - 4:00 PM

319 FACTORS ASSOCIATED WITH VIRAL CONTROL AFTER STRUCTURED TREATMENT INTERRUPTION

Nikolaus Jilg, Behzad Etemad, Ruth Dele-Oni, Colline Wong, Jesse Fajnzylber, Abbas Mohammadi, Evgenia Aga, Ronald Bosch, Daniel R. Kuritzkes, Ian Frank, Jeffrey Jacobson, Jonathan Z. Li

320 VIRAL REBOUND KINETICS FOLLOWING SINGLE AND COMBINATION IMMUNOTHERAPY FOR HIV/SIV

Melanie Prague, Jeffrey Gerold, Irene Balelli, Chloé Pasin, Jonathan Z. Li, Dan Barouch, James Whitney, **Alison L. Hill**

321 FREQUENCY OF POSTTREATMENT CONTROL VARIES BY ART RESTART AND VIRAL LOAD CRITERIA

Jesse Fajnzylber, Radwa Sharaf, Evgenia Aga, Ronald Bosch, Jeffrey M. Jacobson, Elizabeth Connick, Daniel Skiest, Michael Sneller, Ronald T. Mitsuyasu, Keith Henry, Tae-Wook Chun, Ann Collier, Frederick M. Hecht, Jonathan Z. Li, for the CHAMP Study Team

322 NONSTRUCTURED TREATMENT INTERRUPTIONS CONTRIBUTE TO LATENT HIV-1 RESERVOIR IN PWID

Gregory D. Kirk, Shruti H. Mehta, Jacque Astemborski, Kristen D. Ritter, Gregory Laird, Robert Siliciano

323 PRESENCE MACROPHAGE-TROPIC HIV-1 VARIANTS FOLLOWING ANALYTIC TREATMENT INTERRUPTION

Viviane M. Andrade, **Carla Mavian**, Dunja Babic, Thaissa Cordeiro Alvarado, Mark Sharkey, Labelle Barrios, Christian Brander, Judith Dalmau, Michael S. Seaman, Marco Salemi, Javier Martinez-Picado, Mario Stevenson

324 THE ELUSIVE SOURCE OF HIV-1 REBOUND AFTER TREATMENT INTERRUPTION

Laurens Lambrechts, Basiel Cole, Marie-Angélique D. De Scheerder, Zoe Boyer, Ytse Noppe, Katie Fisher, John-Sebastian Eden, Wim Van Criekinge, Lisa Frenkel, Sarah Palmer, Linos Vandekerckhove

325 HIV POSTTREATMENT CONTROL DESPITE PLASMA VIRAL EVOLUTION AND DUAL INFECTION

Behzad Etemad, Golnaz Namazi, Ying Wen, Nikolaus Jilg, Elmira Esmaeilzadeh, Xin Zhang, Radwa Sharaf, Daniel MacMillan, Ronald Bosch, Evgenia Aga, Jeffrey A. Johnson, Rajesh T. Gandhi, Zabrina Brumme, Mary F. Kearney, Jonathan Z. Li

326 EVALUATING BIOMARKERS FOR HIV REBOUND DURING TREATMENT INTERRUPTION

Marie-Angélique D. De Scheerder, Clarissa Van Hecke, Henrik Zetterberg, Dietmar Fuchs, Nele De Langhe, Sofie L. Rutsaert, Bram Vrancken, Wim Trypsteen, Sarah Palmer, Philippe Lemey, Magnus Gisslén, Linos Vandekerckhove

Poster P-F01 NEUROIMAGING AND ASSOCIATED BIOMARKERS

Poster Hall A

2:30 PM - 4:00 PM

387 REDUCED MEMORY, FUNCTIONAL CONNECTIVITY IN 41- TO 70-YEAR-OLD HIV+ APOE E4 CARRIERS

Fan N. Yang, Margarita Bronshteyn, Sarah A. Flowers, Matthew Dawson, Monica M. Diaz, Harvey R. Fernandez, Princy N. Kumar, G. W. Rebeck, Raymond S. Turner, David J. Moore, Ronald J. Ellis, Xiong Jiang

388 NEUROCOGNITIVE AND VOLUMETRIC CHANGES AFTER 24 WEEKS OF DTG/3TC/ABC DISCONTINUATION

Ignacio Pérez-Valero, Alfonso Cabello, Pablo Ryan, Maria Luisa Montes, Sara De La Fuente Moral, María J. Vivancos-Gallego, Guillermo Cuevas, Alberto Díaz De Santiago, Lucio Jesus Garcia-Fraile Fraile, Mario Gil-Correa, Norberto Malpica, Guadalupe Rua, María Yllescas, Alicia Gonzalez

389 HIV IS INDEPENDENTLY ASSOCIATED WITH BRAIN MRI WHITE MATTER HYPERINTENSITIES

Yair Mina, Tianxia Wu, Hsieh Hsing-Chuan, Brian K. Agan, Dima A. Hammoud, Daniel S. Reich, Govind Nair, Lillian Ham, Joseph Snow, Elizabeth F. Horne, Avindra Nath, Bryan Smith, for the NIH-DOD NeuroHIV Consortium

390 BRAIN AGE BASED ON SLEEP ENCEPHALOGRAPHY IS ELEVATED IN HIV+ ADULTS ON ART

Michael Leone, Haoqi Sun, Christine Boutros, Robert Thomas, Gregory K. Robbins, Shibani S. Mukerji, M. Brandon Westover

391 NEUROINFLAMMATION AND REACTIVE GLIOSIS DURING LONG-TERM cART INITIATED IN ACUTE HIV

Napapon Sailasuta, Phillip Chan, Carlo Sacdalan, Somporn Tipsuk, Duanghathai Suttichom, Nittaya Phanuphak, Shyanne Martin, Nisakorn Ratnaratorn, Mantana Pothisri, Netsiri Dumrongpisutikul, Jintanat Ananworanich, Victor Valcour, Sandhya Vasan, Serena S. Spudich, Robert Paul

392 LOWER PHYSICAL ACTIVITY AND FITNESS LEVELS ARE ASSOCIATED WITH SMALLER BRAIN VOLUMES

Brittany Nelson, Sarah A. Cooley, Dominic Reeds, William T. Cade, Anna Boerwinkle, Christopher J. Sorensen, Beau Ances

393 ACTIVE LIFESTYLE IS ASSOCIATED WITH BETTER BRAIN FUNCTION IN PERSONS LIVING WITH HIV

Jeremy Strain, Collin Killgore, Dimitre Tomov, Sarah A. Cooley, Brittany Nelson, Beau Ances

394 EFFECTS OF PERINATAL HIV INFECTION ON THE CORTICAL THICKNESS IN YOUNG ADULTHOOD

Manuela Martín-Bejarano, Beatriz Ruiz-Saez, Ana Martinez De Aragon, Carlos Velo, Mario Gil-Correa, Sara Guillen, Maria Luisa Lorente, Pablo Rojo Conejo, Berta Zamora, Talía Sainz, José Tomás Ramos, Juan Guzman, Maria Luisa Navarro, María Isabel González-Tomé, for the NeuroCoRISpe

- 395 EFFECT OF ANTICHOLINERGIC MEDICATIONS ON BRAIN INTEGRITY IN OLDER HIV-POSITIVE ADULTS**
Sarah A. Cooley, Beau Ances
- 396 EFFECTS OF VIRAL LOAD ON NEUROIMAGING AND NEUROPSYCHOLOGICAL PERFORMANCE**
Sarah A. Cooley, Jaimie Navid, Julie Wisch, Jane A. O'Halloran, Beau Ances
- 397 MULTIMODAL BRAIN ABNORMALITIES ASSOCIATED WITH COGNITIVE IMPAIRMENT IN HIV INFECTION**
Christina S. Meade, Xiang Li, Sheri L. Towe, Ryan P. Bell, Syam Gadde, Nan-Kuei Chen, Jing Sui
- 398 IMPAIRED COGNITION AND REDUCED BRAIN VOLUMES IN YOUTH WITH BEHAVIORALLY ACQUIRED HIV**
Jennifer McGuire, Robert Brown, Ritobrato Datta, Giulia Fadda, Nichole Tuite, Jacqueline Harrison, Steven D. Douglas, Brenda Banwell
- 399 ALCOHOL USE IS ASSOCIATED WITH DEGRADATION OF BRAIN WHITE MATTER IN HIV INFECTION**
Mollie Monnig, Peter M. Monti, Karen T. Tashima, Joseph Gullett, Eric Porges, Neda Jahanshad, Talia M. Nir, Paul M. Thompson, Ronald Cohen
- 400 MICROSTRUCTURAL MRI CHANGES ASSOCIATED WITH COGNITIVE IMPAIRMENT IN CONTROLLED HIV**
Elizabeth F. Horne, Gina Norato, Lillian Ham, Joseph Snow, Daniel S. Reich, Bryan Smith, Govind Nair, Avindra Nath

Poster P-G01 NOVEL MEASURES OF DRUG ADHERENCE

Poster Hall A

2:30 PM - 4:00 PM

- 443 LONG-TERM ADHERENCE MONITORING OF EMTRICITABINE IN HAIR BY MASS SPECTROMETRY IMAGING**
Elias Rosen, William M. Gilliland, Nicole White, Amanda Poliseno, Heather M. Prince, Angela Kashuba
- 444 CHARACTERIZING TFV-DP IN DBS FOR U=U IN YOUNG ADULTS WITH PERINATAL HIV INFECTION**
Nadia Nguyen, Reuben Robbins, Jose R. Castillo-Mancilla, Peter L. Anderson, Elaine J. Abrams, Andrew Wiznia, Ira B. Wilson, Curtis Dolezal, Seth Kalichman, Rehema Korich, Jeannette Raymond, Claude A. Mellins
- 445 COMPARING TFV-DP & FTC-TP IN PBMC, RBC, NEUTROPHILS, & PLATELETS WITH F/TDF VS F/TAF**
Jenna Yager, Jose R. Castillo-Mancilla, Cricket McHugh, Kristina M. Brooks, Mustafa E. Ibrahim, Ryan P. Coyle, Bethany M. Johnson, Laura Roon, Jia-Hua Zheng, Lane R. Bushman, Jennifer J. Kiser, Peter L. Anderson
- 446 UTILITY OF MINIMALLY INVASIVE SPECIMENS TO INFORM ARV ADHERENCE TEST DEVELOPMENT**
Richard Haaland, Amy Martin, Melkam Mengesha, Chuong Dinh, Jeffrey Fountain, Davis Lupo, LaShonda Hall, Christopher Conway-Washington, Colleen F. Kelley

Poster P-G02 WHAT'S NEW IN DRUG INTERACTIONS

Poster Hall A

2:30 PM - 4:00 PM

- 447 REAL-LIFE MANAGEMENT OF DRUG-DRUG INTERACTIONS BETWEEN ANTIRETROVIRALS AND STATINS**
Perrine Courlet, Francoise Livio, Susana Alves Saldanha, Alexandra Scherrer, Manuel Battegay, Matthias Cavassini, Marcel Stoeckle, Laurent A. Decosterd, Catia Marzolini, for the Swiss HIV Cohort Study

- 448 AGING DOES NOT IMPACT DRUG-DRUG INTERACTION MAGNITUDES INVOLVING ANTIRETROVIRAL DRUGS**
Felix Stader, Perrine Courlet, Hannah Kinvig, Manuel Battegay, Laurent A. Decosterd, Melissa A. Penny, Marco Siccardi, Catia Marzolini
- 449 PLASMA & INTRACELLULAR PK AND RENAL SAFETY OF TAF 25MG WITH BOOSTED PI AND LDV/SOF**
Kristina M. Brooks, Jose R. Castillo-Mancilla, Mary Morrow, Samantha MaWhinney, Joshua Blum, David L. Wyles, Jia-Hua Zheng, Bethany M. Johnson, Joe Gomez, Ye Ji Choi, Francesca Cendali, Hannah Haas, Lane R. Bushman, Peter L. Anderson, Jennifer J. Kiser
- 450 HIGH-DOSE RIFAMPICIN FOR THE TREATMENT OF LEPROSY IN HIV PATIENTS TAKING DOLUTEGRAVIR**
Hannah Kinvig, Felix Stader, Fazila S. Bunglawala, Rajith Kumar Reddy Rajoli, Nicolas Cottura, Alice E. Howarth, Andrew Owen, Catia Marzolini, Marco Siccardi
- 451 TOTAL DOLUTEGRAVIR LEVELS DECREASED BUT FREE FRACTION INCREASED BY VALPROIC ACID**
Henriette A. Prins, Pauline Bollen, Kirsten Velthoven, Bart Rijnders, Theodora de Vries-Sluijs, Els van Nood, Jan Nouwen, Hannelore Bax, Mariana de Mendonca Melo, Annelies Verbon, David M. Burger, Casper Roxk
- 452 PHARMACOKINETICS OF RUXOLITINIB WITH ART IN HIV-SUPPRESSED INDIVIDUALS (ACTG # A5336)**
 Selwyn Hurwitz, Sijia Tao, Yong Jiang, Christina Gavegnano, Charles W. Flexner, Randall Tressler, Athe Tsibris, Steven G. Deeks, Carlos del Rio, Edgar T. Overton, Jeffrey J. Lennox, Vincent C. Marconi, **Raymond F. Schinazi**

Poster P-H01 ANTIRETROVIRAL THERAPY: OUTCOMES IN TREATMENT-NAIVE PATIENTS

Poster Hall A

2:30 PM - 4:00 PM

- 474 CD4/CD8 RECOVERY AND FIRST-LINE ART: GREATEST IMPROVEMENT WITH INTEGRASE INHIBITORS**
 Sergio Serrano-Villar, **Javier Martínez-Sanz**, Raquel Ron, Alba Talavera, Borja Fernández, Francisco Fanjul, Joaquin Portilla, Josefa Muñoz, Concha Amador, Miguel Alberto De Zárraga, Matilde Sanchez-Conde, Sabina Herrera, Pilar Vizcarra, María J. Vivancos-Gallego, Santiago Moreno
- 475 CLINICAL AND LABORATORY OUTCOMES 24 WEEKS AFTER STARTING DTG VERSUS EFV IN ACUTE HIV**
Phillip Chan, Orlanda Goh, Donn J. Colby, Carlo Sacdalan, Camilla Muccini, Nittaya Phanuphak, Suteeraporn Pinyakorn, Praphan Phanuphak, Nitiya Chomchey, Robert Paul, Sandhya Vasan, Serena S. Spudich, Jintanat Ananworanich, Eugène Kroon, for the RV254 Research Group
- 476 RAPID ART IN BLOOD DONORS WITH ACUTE AND RECENT HIV CLADE C INFECTION IN SOUTH AFRICA**
 Karin Van Den Berg, Marion Vermeulen, Sonia Bakkour, Mars Stone, Coreen Barker, Christopher McClure, Darryl Creel, Ute Jentsch, Genevieve Jacobs, Brian Custer, **Michael P. Busch**, Edward Murphy, for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III)
- 477 144-WEEK EFFICACY AND SAFETY OF B/F/TAF IN TREATMENT-NAIVE ADULTS ≥50 YRS**
Anthony Mills, Samir K. Gupta, Cynthia Brinson, Kimberly Workowski, Amanda Clarke, Andrea Antinori, Jeffrey L. Stephens, Ellen Koenig, Jose R. Arribas, David M. Asmuth, Douglas Ward, Jürgen K. Rockstroh, Hailin Huang, Hal Martin, Diana Brainard

- 478 CD4:CD8 NORMALIZATION BY INTEGRASE INHIBITORS AMONG TREATMENT-NAIVE PATIENTS**
Alice Zhabokritsky, Leah Szadkowski, Alison McClean, Robert S. Hogg, Curtis Cooper, Marina Klein, Zabrina Brumme, Sharon Walmsley, for the CANOC Collaboration
- 479 PERSISTENT POOR CLINICAL OUTCOMES FOR AIDS PRESENTATION IN ITALY OVER THE LAST DECADE**
Annalisa Mondì, Patrizia Lorenzini, Alessandro Cozzi-Lepri, Antonella Cingolani, Mariana Farenga, Stefano Rusconi, Gabriella De Girolamo, Andrea Gori, Marta Camici, Cristina Mussini, Antonella D'Arminio Monforte, Andrea Antinori, for the Icona Foundation Study Group
- 480 EMULATION OF AN RCT OF DOLUTEGRAVIR VS BOOSTED-DARUNAVIR IN ADVANCED ART NAIVE**
Andrea Antinori, Franco Maggiolo, Nicola Gianotti, Stephen R. Cole, Jessie K. Edwards, Sergio Lo Caputo, Andrea Calcagno, Cristina Mussini, Pierluigi Blanc, Daniela Francisci, Antonella D'Arminio Monforte, Alessandro Cozzi-Lepri
- 481 FLOW CYTOMETRIC SCREENING OF HLA-B17 IN HIV+ PATIENTS UNDERGOING ABACAVIR THERAPY**
Arianna Gatti, Cristina Ceriani, Bruno Brando, Maurizio Mena, Paolo Viganò, Massimo De Paschale, Pierangelo Clerici
- 482LB LONG-ACTING CABOTEGRAVIR + RILPIVIRINE FOR HIV TREATMENT: FLAIR WEEK 96 RESULTS**
Chloe Orkin, Shinichi Oka, Patrick Philibert, Cynthia Brinson, Ayesha Bassa, Denis Gusev, Olaf Degen, Juan González-García, Ronald D'Amico, David Dorey, Sandy Griffith, David A. Margolis, Marty St Clair, Peter E. Williams, William Spreen

Poster P-101 PREVALENCE OF PRETREATMENT RESISTANCE
Poster Hall A **2:30 PM - 4:00 PM**

- 509 PREEXISTING RESISTANCE AND B/F/TAF SWITCH EFFICACY IN AFRICAN AMERICANS**
Kristen Andreatta, Michelle L. D'Antoni, Silvia Chang, Ross Martin, Christiana Blair, Sean E. Collins, Kirsten L. White
- 510 TRANSMITTED DRUG RESISTANCE IN PEOPLE LIVING WITH DIAGNOSED HIV IN CALIFORNIA**
Jing Feng, Deanna Sykes, **Philip Peters**, Joel O. Wertheim
- 511 TRENDS IN TRANSMITTED DRUG RESISTANCE IN SPAIN THROUGH THE PERIOD 2007-2018**
Carlos Guerrero Beltrán, Marta Alvarez, Antonio Aguilera, María Carmen Vidal Ampurdanes, Marina Martínez, Arkaitz Imaz, Asunción Iborra, Juan L. Gomez-Sirvent, Joaquim Peraire, Joaquin Portilla, Estrella Caballero, Mónica García-Álvarez, José A. Iribarren, Mar Masiá, **Federico García**
- 512 US HIV DRUG RESISTANCE: IMPLICATIONS FOR CURRENT AND FUTURE PrEP REGIMENS**
Robert P. McClung, Cheryl B. Ocfemia, Neeraja Saduvala, Alexandra M. Oster, Dawn K. Smith, Walid Heneine, Jeffrey A. Johnson, Angela L. Hernandez

Poster P-I02 DRIVERS OF VIROLOGIC FAILURE AND RESISTANCE EMERGENCE ON EARLY LINE OF THERAPY

Poster Hall A

2:30 PM - 4:00 PM

- 513 COUNTRY-LEVEL DRIVERS OF NNRTI RESISTANCE IN SOUTHERN AFRICA**
Julien Riou, Carole Dupont, Silvia Bertagnolio, Ravindra K. Gupta, Leigh F. Johnson, Roger Kouyos, Matthias Egger, Christian L. Althaus
- 514 ADVANCE TRIAL: HIGHER RISK OF TREATMENT-EMERGENT RESISTANCE ON FIRST-LINE TDF/FTC/EFV**
Willem D. Venter, Michelle A. Moorhouse, Simiso Sokhela, Bryony Simmons, Andrew Hill
- 515 PRETREATMENT AND ACQUIRED ANTIRETROVIRAL DRUG RESISTANCE IN 4 AFRICAN COUNTRIES**
Trevor A. Crowell, Brook Danboise, Ajay Parikh, Allahna L. Esber, Alex Kasembeli, Samoel Khamadi, Michael Iroezindu, Francis Kiweewa, John Owuoth, Joanna Freeman, Jennifer Malia, Linda Jagodzinski, Julie Ake, Christina Polyak, for the AFRICOS Study Group
- 516 HIV VIROLOGIC FAILURE AND DRUG RESISTANCE AMONG HOSPITAL INPATIENTS IN MALAWI**
Ankur Gupta-Wright, Katherine Fielding, Elizabeth L. Corbett, Joep J. van Oosterhout, Melanie Alufandika-Moyo, Doug K. Wilson, Daniel Grint, Elizabeth Chimbayo, Judith Heaney, Matthew Byott, Eleni Nastouli, Ravindra K. Gupta
- 517 HIGH LEVELS OF DRUG RESISTANCE IN ART-NAIVE AND PLWH FAILING FIRST-LINE ART IN HAITI**
Samuel Pierre, Santiago Avila-Rios, John Wu, Claudia García-Morales, Vanessa A. Rouzier, Gaetane R. Julmiste, Patrice Severe, Alexandra Apollon, David Rice, Gustavo Reyes-Terán, Marie Marcelle Deschamps, Bernard Liautaud, Serena Koenig, Jean William Pape
- 518 PRETREATMENT HIV DRUG RESISTANCE AND 48-WEEK VIROLOGIC OUTCOMES IN THE ADVANCE TRIAL**
Mark J. Siedner, Michelle A. Moorhouse, Andrew Hill, Tulio de Oliveira, Richard Lessells, Bryony Simmons, Godspower Akpomiemie, Celia M. Serenata, Willem D. Venter, Ravindra K. Gupta
- 519 IMPACT OF PREEXISTING DRUG RESISTANCE ON RISK OF VIROLOGIC FAILURE IN SOUTH AFRICA**
Jonathan Z. Li, Natalia Stella-Ascariz, Manish Choudhary, Aneela Javed, Katherine Rodriguez, Heather Ribaud, Mahomed-Yunus Moosa, Jaysingh Brijkumar, Pillay Selvan, Henry Sunpath, Marc Noguera-Julian, Brent Johnson, Alex Edwards, Vincent C. Marconi, Daniel R. Kuritzkes
- 520 TENOFOVIR DIPHOSPHATE IN DRIED BLOOD SPOTS PREDICTS VIROLOGIC FAILURE AND RESISTANCE**
Jose R. Castillo-Mancilla, Yuan Zhao, Jaysingh Brijkumar, Brent Johnson, Alex Edwards, Pillay Selvan, Melendhran Pillay, Pravi Moodley, Mahomed-Yunus Moosa, Daniel R. Kuritzkes, Henry Sunpath, Lane R. Bushman, Lucas Ellison, Peter L. Anderson, Vincent C. Marconi

Poster P-J01 HCV: HEPATIC STEATOSIS AND ITS COMPLICATIONS

Poster Hall B

2:30 PM - 4:00 PM

- 541 INVESTIGATION OF CLASSIC AND HIV-RELATED FACTORS FOR HEPATIC STEATOSIS AMONG PWID**
Eve-Marie A. Benson, Shruti H. Mehta, Jacquie Astemborski, David L. Thomas, Gregory D. Kirk

- 542 RELATIONSHIPS BETWEEN HEPATIC STEATOSIS AND FRAILTY DIFFER BY HIV SEROSTATUS**
Paula Debroy, Benjamin Barrett, Kristine M. Erlandson, Matthew Budoff, Todd T. Brown, Jennifer C. Price, Wendy Post, Valentina Stosor, Carling Lellock, Gypsyamber D'Souza, Jordan E. Lake
- 543 NAFLD AND LIVER FIBROSIS PREDICT HIGH CARDIOVASCULAR RISK IN HIV-MONOINFECTED PATIENT**
Giovanni Mazzola, **Adriana Cervo**, Giovanni Guaraldi, Thomas Krahn, Jovana Milic, Annamaria De Luca, Claudia Gioè, Benedetta Romanin, Marcello Trizzino, Sergio Mazzola, Pietro Colletti, Salvatore Petta, Giada Sebastiani, Antonio Cascio
- 544 "FIB-4 FIRST" STRATEGY IN A NAFLD PATHWAY ASSESSMENT FOR HIV MONOINFECTED PATIENTS**
Adriana Cervo, Thomas Krahn, Jovana Milic, Sahar Saeed, Bertrand Lebouché, Marina Klein, Philip Wong, Marc Deschenes, Peter Ghali, Antonio Cascio, Giovanni Mazzola, Giovanni Guaraldi, Giada Sebastiani
- 545 TRYPTOPHAN CATABOLISM IS ALTERED AMONG PERSONS WITH HIV WHO HAVE STEATOSIS**
Andreas D. Knudsen, Marco Gelpi, Søren Bjørnskov, Ditte M. Kirkegaard-Klitbo, Anne-Mette Lebech, Henrik Ullum, Klaus F. Kofoed, Øivind Midttun, Per M. Ueland, Jens D. Lundgren, Susanne D. Nielsen
- 546 IL-18 IS ASSOCIATED WITH HEPATOSTEATOSIS AND HIGHER LIVER ENZYMES IN PEOPLE WITH HIV**
Jae H. Sim, Julia B. Sherman, Kathleen V. Fitch, Sara E. Looby, Jake A. Robinson, Michael Lu, Steven K. Grinspoon, Tricia H. Burdo, Janet Lo
- 547 EASL BIOMARKERS DIFFER IN PREDICTING NAFLD, NASH, AND FIBROSIS IN HIV +/- INDIVIDUALS**
Ricky Hsu, Laurence Brunet, Jennifer S. Fusco, Gregory Fusco

Poster P-J02 HCV: FIBROSIS, MORTALITY, AND OTHER LONG-TERM COMPLICATIONS

Poster Hall B

2:30 PM - 4:00 PM

- 548 AN RCT OF RALTEGRAVIR- VERSUS EFAVIRENZ-BASED ART IN HIV-HCV COINFECTION**
Thuy Le, Chau V. Nguyen, Thao P. Vu, Ly T. Vo, Thanh T. Nguyen, Thu T. Nguyen, Robert Paul, Lishomwa C. Ndhlovu, Dominic Chow, Cecilia M. Shikuma
- 549 HEPATIC STEATOSIS ASSOCIATED WITH EXPOSURE TO ELVITEGRAVIR AND RALTEGRAVIR**
Thomas Benfield, Jens D. Lundgren, Flemming Bendtsen, Susanne D. Nielsen, **Ditte M. Kirkegaard-Klitbo**
- 550 BENEFITS OF RILPIVIRINE FOR LIVER FIBROSIS IN HIV/HCV COINFECTIONED SUBJECTS**
Maria Luisa Montes, Carmen Busca, Antonio Oliveira, Luz Martin-Carbonero, Eulalia Valencia, Victoria Moreno, Jose I. Bernardino, Ignacio Pérez-Valero, Rocio Montejano, Rafael Micán, Rosa De Miguel, Jose R. Arribas, Juan González-García

- 551 ACCURACY OF FIBROSIS-4 FOR CIRRHOSIS IN HIV+ PATIENTS WITH HEPATOCELLULAR CARCINOMA**
Jessie Torgersen, Michael J. Kallan, Dena M. Carbonari, Lesley S. Park, Rajni Mehta, Kathryn D'Addeo, Janet Tate, Joseph Lim, Matthew B. Goetz, Maria Rodriguez-Barradas, Norbert Bräu, Sheldon T. Brown, Tamar Taddei, Amy C. Justice, Vincent Lo Re
- 552 PLASMA MIR-99A AND MIR-100 PREDICT LIVER FIBROSIS PROGRESSION IN HIV/HCV SUBJECTS**
Miguel Angel Martinez, Sandra Franco, Daniela Buccione, Beatriz Mothe, Patricia Cobarsi, Lidia Ruiz, Maria Nevot, Ana Jordan-Paiz, Raquel Pluvinet, Lauro Sumoy, Cristina Tural
- 553 HEPATIC FIBROSIS DETERMINED WITH MRE SIGNIFICANTLY PREDICTS COGNITIVE IMPAIRMENT**
Marianna K. Baum, Javier Tamargo, Richard L. Ehman, Chrisina S. Meade, Kenneth E. Sherman, Heidi L. Meeds, Jun Chen, Sabrina S. Martinez, Gustavo G. Zarini, Yongjun Huang, Colby Teeman, Jacqueline Hernandez, Angelique Johnson, Raul Mandler, Adriana Campa, for the MASH Team
- 554 CHANGES IN LIVER CANCER SURVIVAL IN HIV INFECTION AFTER MANAGEMENT OPTIMIZATION**
Miguel Rodríguez-Fernández, Nicolás Merchante, Francisco Rodríguez-Arrondo, Boris Revollo, Sofía Ibarra, Esperanza Merino, Maria J. Galindo, Marta Montero, Francisco Téllez, Antonio Rivero-Juárez, Miguel García-Deltoro, Ignacio D. Santos Gil, Marcial Delgado-Fernández, Juan A. Pineda, for the Grupo para el Estudio de las Hepatitis Víricas (GEHEP-002)
- 555 LIVER PATHOLOGY IN HIV-POSITIVE SUBJECTS UNDERGOING LIVER TRANSPLANTATION**
Roberto Rossotti, Marco Merli, Chiara Mazzarelli, Stefano Di Sandro, Mario L. Camozzi, Giovanna Travi, Raffaella Viganò, Andrea Lauterio, Emanuela Bonoldi, Luca S. Belli, Luciano G. De Carlis, Massimo Puoti
- 556 EPIDEMIOLOGICAL TREND OF CHRONIC HEPATITIS C IN SPAIN (2000-2015): NATIONWIDE STUDY**
Irene Maté-Cano, Alejandro Alvaro-Meca, **Paula Martínez-Román**, Óscar Brochado Kith, Pablo Ryan, Salvador Resino, Verónica Briz
- 557 HEPATITIS C COINFECTION AND EXTRAHEPATIC CANCER INCIDENCE AMONG PEOPLE WITH HIV**
Sarah J. Willis, H. Nina Kim, Chad J. Achenbach, Edward R. Cachay, Katerina A. Christopoulos, Heidi M. Crane, Ricardo A. Franco, Christopher B. Hurt, Mari M. Kitahata, Richard D. Moore, Michael J. Silverberg, Phyllis Tien, Daniel Westreich, Julia L. Marcus
- 558 SYNDROMIC OF VIRAL COINFECTIONS AND INCIDENT END-STAGE RENAL DISEASE**
Dahn Jeong, Carmine Rossi, Stanley Wong, Zahid A. Butt, Geoff W. McKee, Jason Wong, Amanda Yu, Mawuena Binka, Maria Alvarez, Prince Adu, Mel Krajden, Naveed Z. Janjua
- 559 CAUSE OF DEATH AMONG THOSE DIAGNOSED WITH HEPATITIS C IN WASHINGTON, DC, 2009-2017**
Jenevieve Opoku, Adam Allston
- 560 CAUSES OF DEATH IN PERSONS WITH AND WITHOUT HCV INFECTION**
Adeel A. Butt, for the ERCHIVES Study Team

Poster P-K01 ANAL AND CERVICAL CANCER

Poster Hall B

2:30 PM - 4:00 PM

- 619 THE ROLE OF E6/E7 mRNA DETERMINATION FOR ANAL CANCER SCREENING IN HIV-POSITIVE MSM**
Ana C. Silva-Klug, Maria Saumoy, Montserrat Torres, Loris Trenti, Sonia Paytubi, Laia Alemany, Isabel Català, Nuria Baixeras, August Vidal, Silvia De Sanjosé, Daniel Podzamczar
- 620 ANAL CANCER SCREENING: IS IT TIME FOR CYTOLOGY AND HIGH-RISK HPV COTESTING?**
Michael Gaisa, Yuxin Liu, John Winters, Ashish A. Deshmukh, Keith M. Sigel
- 621 LOW ADHERENCE TO TREATMENT AND SURVEILLANCE OF HPV-RELATED ANAL PRECANCER**
Richard Silvera, Michael Gaisa, Yuxin Liu, Ashish A. Deshmukh, Keith M. Sigel
- 622 ANAL PRECANCER SCREENING AMONG MSM: WHAT IS THE BEST STRATEGY?**
Jing Sun, Dorothy J. Wiley, Teresa Darragh, Hilary K. Hsu, Nancy Joste, Stephen Young, W. David Hardy, Susheel Reddy, Jeremy J. Martinson, Gypsyamber D'Souza, for the Multicenter AIDS Cohort Study (MACS)
- 623 NEED FOR OPTIMIZATION OF SCREENING METHODS FOR ANAL INTRAEPITHELIAL NEOPLASIA IN PLWH**
Stefan Esser, Alexander Kreuter, Anja Potthoff, Norbert H. Brockmeyer, Mark Oette, Robert Jablonka, Hildegard Lax, Konstantinos Bilbilis, Laven Mavarani, Karl-Heinz Joeckel, Ulrike Wieland
- 624 CERVICAL CANCER KNOWLEDGE AND ATTITUDES AMONG HIV-POSITIVE MEN IN MALAWI**
 Corrina Moucheraud, Samuel W. Lewis, Misheck Mphande, Ben Allan Banda, Hitler Sigauke, Paul Kawale, Aubrey Dkangoma, Kathryn Dovel, Alemayehu Amberbir, Agnes Moses, Sundeep Gupta, **Risa M. Hoffman**

Poster P-L01 INFLAMMATORY BIOMARKERS AND CARDIOVASCULAR OUTCOMES

Poster Hall B

2:30 PM - 4:00 PM

- 635 HOST GLYCOMIC DETERMINANTS OF CORONARY ATHEROSCLEROSIS DURING TREATED HIV INFECTION**
Leila B. Giron, Susan Langan, David B. Hanna, Juan Lin, Mohammad Damra, Qin Liu, Ian Frank, Mallory Witt, Lawrence Kingsley, Frank J. Palella, Wendy Post, Alan Landay, Todd T. Brown, Mohamed Abdel-Mohsen
- 636 ADVANCED GLYCATION END PRODUCTS ASSOCIATED WITH CARDIOMETABOLIC RISK ON ART**
Vanessa El Kamari, Katherine Rodriguez, Carlee Moser, Judith S. Currier, Theodoros Kelesidis, James H. Stein, Scott K. Howell, Paul J. Beisswenger, Todd T. Brown, Grace A. McComsey
- 637 SINGLE-CELL TRANSCRIPTOMICS OF HIV HEART TISSUE IDENTIFIES UNIQUE NK CELL POPULATION**
Thomas C. Martin, Neil C. Chi, Sara Gianella, Sebastian Preissl, Justin Buchanan, Davey M. Smith, Priscilla Hsue

638 CAROTID PLAQUE BURDEN IN HIV IS ASSOCIATED WITH SOLUBLE MEDIATORS AND MONOCYTES

Dominic Chow, Makoa Mau, Howard Hodis, Yanjie Li, Chathura Siriwardhana, Scott A. Souza, Brooks I. Mitchell, Scott Bowler, Louie Mar A. Gangcuangco, Lishomwa C. Ndhlovu, Cecilia M. Shikuma

639 INCREASED LEUKOCYTE/PLATELET INTERPLAY WITH ENDOTHELIUM IN ABC-TREATED HIV PATIENTS

Maria Amparo Blanch-Ruiz, Ainhoa Sanchez-Lopez, Raquel Ortega-Luna, Patricia García-Martínez, Samuel Orden, Maria Angeles Martinez-Cuesta, Ramon Ferrando-Vilata, Maria J. Galindo, **Angeles Alvarez**, Juan V. Esplugues

640 FIBROBLAST GROWTH FACTOR 21: EFFECT OF HIV THERAPY AND ASSOCIATION WITH CVD RISK

Corrilynn O. Hileman, Sarah E. Scott, Beth A. Zavoda-Smith, Grace A. McComsey

641 MONOCYTE ACTIVATION AND CARDIAC-MRI-DERIVED VASCULAR DYSFUNCTION AMONG WOMEN WITH HIV

Mabel Toribio, Magid Awadalla, Evelynne S. Fulda, Adam Rokicki, Takara L. Stanley, Lidia Szczepaniak, Michael D. Nelson, Michael Jerosch-Herold, Tricia H. Burdo, Tomas G. Neilan, Markella V. Zanni

Poster P-L02 HORMONES AND HEART DISEASE**Poster Hall B****2:30 PM - 4:00 PM****642 TESTOSTERONE THERAPY AND SUBCLINICAL ATHEROSCLEROSIS PROGRESSION AMONG MEN WITH HIV**

Sabina A. Haberlen, Wendy Post, Matthew Budoff, Jordan E. Lake, Adrian Dobs, Frank J. Palella, Michael Plankey, Anne K. Monroe, Lawrence Kingsley, Todd T. Brown

643 POSTDISCHARGE OUTCOMES FOLLOWING ACUTE CORONARY SYNDROME IN HIV

Monica Parks, Eric A. Secemsky, Changyu Shen, Robert W. Yeh, Eunhee Choi, Dhruv Kazi, Priscilla Hsue

644 INSOMNIA AND RISK OF INCIDENT MYOCARDIAL INFARCTION AMONG PEOPLE LIVING WITH HIV

Bridget M. Whitney, Robin M. Nance, Joseph Delaney, Stephanie A. Ruderman, Matthew Budoff, W. C. Mathews, Richard D. Moore, Matthew J. Feinstein, Greer Burkholder, Michael J. Mugavero, Joseph J. Eron, Michael Saag, Mari M. Kitahata, Heidi M. Crane, for the CNICS Cohort

645 HORMONE USE AND HIV ALTER CARDIOVASCULAR BIOMARKER PROFILES IN TRANSGENDER WOMEN

Jordan E. Lake, Ruibin Wang, Benjamin Barrett, Nicholas Funderburg, Emily Bowman, Paula Debroy, Jury Candelario, Linda Teplin, Jessica McGuinness, Robert Bolan, Heather McKay, Michael Plankey, Todd T. Brown, Judith S. Currier

646 HIV SEVERITY AND INCIDENT HEART FAILURE AMONG PATIENTS IN A LARGE HEALTH CARE SYSTEM

Jennifer O. Lam, Wendy Leyden, Kristi J. Reynolds, Michael A. Horberg, William J. Towner, Rulin Hechter, Suma Vupputuri, Thomas K. Leong, Harshith Avula, Teresa J. Harrison, Keane K. Lee, Sue Hee Sung, Romain Neugebauer, Alan S. Go, Michael J. Silverberg

Poster P-M03 METABOLIC COMPLICATIONS

Poster Hall B

2:30 PM - 4:00 PM

- 682 RISK FOR INCIDENT DIABETES IS GREATER IN PREDIABETIC MEN WITH HIV THAN WITHOUT HIV**
Laurence Slama, Benjamin Barrett, Alison Abraham, Frank J. Palella, Lawrence Kingsley, Jean-Paul Viard, Jordan E. Lake, Todd T. Brown, for the MACS
- 683 GLYCEMIC STATUS AND PHYSICAL FUNCTION AMONG MEN WITH AND WITHOUT HIV**
Mary Clare Masters, Jingyan Yang, Jordan E. Lake, Alison Abraham, Lawrence Kingsley, Todd T. Brown, Frank J. Palella, Kristine M. Erlandson
- 684 GREATER INCIDENCE OF DIABETES OVER 10 YEARS AMONG DEPRESSED US VETERANS WITH HIV**
Kassem Bourgi, Suman Kundu, Jesse C. Stewart, Matthew Freiberg, Samir K. Gupta
- 685 TRICARBOXYLIC ACID METABOLITES PREDICT METABOLIC COMORBIDITIES AND DEATH IN AGING PWH**
Corryllyn O. Hileman, Sausan Azzam, Daniela Schlatzer, Kunling Wu, Katherine Tassiopoulos, Roger Bedimo, Ronald J. Ellis, Kristine M. Erlandson, Susan L. Koletar, Alan Landay, Frank J. Palella, Muralidhar Pallaki, Babafemi Taiwo, Charles L. Hoppel, Robert Kalayjian
- 686 ISLATRAVIR METABOLIC OUTCOMES IN PHASE II B TRIAL OF TREATMENT-NAIVE ADULTS WITH HIV-1**
Grace A. McComsey, Jean-Michel Molina, Yazdan Yazdanpanah, Edwin DeJesus, Stephanie O. Klopfer, Anjana Grandhi, Karen Eves, Todd A. Correll, Michael N. Robertson, Carey Hwang, George J. Hanna, Peter Sklar
- 687 NONCOMMUNICABLE DISEASES AND RISK FACTORS AMONG PEOPLE LIVING WITH HIV IN CAMBODIA**
Kennarey Seang, Vonthanak Saphonn, Marjan Javanbakht, Sung-Jae Lee, Phearavin Pheng, Phalla Chea, Sovannary Tuot, Siyan Yi, Pheak Chhoun, Pamina M. Gorbach

Poster P-M04 RENAL DISEASE

Poster Hall B

2:30 PM - 4:00 PM

- 688 VALIDATION OF THE D:A:D CHRONIC KIDNEY DISEASE RISK SCORE IN A LARGE AFRICAN COHORT**
 Firmin N. Kabore, Armel Poda, Karen Malateste, Akouda Patassi, Henri Chenal, Eugène Messou, François Dabis, Didier K. Ekouevi, Antoine Jaquet, **Amandine Cournil**, for the leDEA West Africa Collaboration
- 689 eGFR RECOVERY 96 WKS AFTER A TDF TO TAF OR ABC SWITCH FOR TDF-ASSOCIATED eGFR DECLINE**
Rosanne Verwijns, Ingeborg Wijting, Marjo Van Kasteren, Jan G. Hollander, Inge Derdelinckx, Guido Van Den Berk, Saskia Vrouwenraets, Mark Claassen, Wouter Bierman, Casper Rokx, Bart Rijnders
- 690 CHRONIC KIDNEY DISEASE IN PEOPLE WITH HIV OF AFRICAN ANCESTRY IN THE UK**
 Lisa Hamzah, **Rachel Hung**, John Booth, Rachel Hilton, Mark Harber, Catherine Cosgrove, Sarah Pett, Fiona M. Burns, Amanda Clarke, Andrew Ustianowski, Beatriz Santana-Suarez, Elizabeth Binns-Roemer, Caroline Sabin, Frank Post, for the GEN-AFRICA Study Team

691 FERRITIN AND TRANSFERRIN INDEPENDENTLY REFLECT RENAL FUNCTION IN PEOPLE WITH HIV

Harpreet Kaur, Ronald J. Ellis, Donald Franklin, Scott L. Letendre, Asha R. Kallianpur

Poster P-M05 BONE DISEASE

Poster Hall B

2:30 PM - 4:00 PM

692 CHANGE IN TRABECULAR BONE SCORE (TBS) AFTER ZOLEDRONIC ACID INFUSION OR TDF SWITCH

Jennifer Hoy, Stephen J. Kerr, Didier Hans, Nicholas Pocock, Andrew Carr, for the ZeST Study Group

693 LOW BONE MINERAL DENSITY IN OLDER PEOPLE WITH HIV: THE RENAL-BONE AXIS AND ART

Elena Alvarez-Barco, Lucy Campbell, Alejandro A. Garcia, Ian Walsh, Willard Tinago, Jennifer J. Brady, Keith Burling, Sebastian Noe, Marie Neuville, Francois Jouret, Mingjin Yan, Hiba Graham, Martin Rhee, Frank Post, Patrick W. Mallon

694 BONE MINERAL DENSITY IMPROVES IN WOMEN WHO SWITCH FROM TDF/FTC/NNRTI TO ABC/3TC/DTG

Fowzia Ibrahim, Amanda Samarawickrama, Yvonne Gilleece, Julie Fox, Nargis Hemat, Stephen Kegg, Chloe Orkin, Lisa Hamzah, Jonathan Ainsworth, Birgit Barbini, Lucy Campbell, **Frank Post**, for the BESTT Trial Team

695 BONE DENSITY IN ART TREATED HIV+ AND HIV- SUBJECTS IN FOLLOW UP; HIV UPBEAT RESULTS

Tara McGinty, Willard Tinago, Alan Landay, Aoife G. Cotter, Caroline Sabin, Alan Macken, Eoin Kavanagh, Gerard Sheehan, John Lambert, Patrick W. Mallon, for the HIV UPBEAT Study Group

Poster P-M07 MENTAL HEALTH COMPLICATIONS

Poster Hall B

2:30 PM - 4:00 PM

701 START OR SWITCH OF INTEGRASE INHIBITORS ON DEPRESSIVE SYMPTOMS IN WOMEN WITH HIV

Jane A. O'Halloran, Kunbo Wang, Dionna W. Williams, Raha Dastgheyb, Kathryn Fitzgerald, Asante R. Kamkwala, Amanda B. Spence, Anjali Sharma, Deborah Gustafson, Pauline M. Maki, Kathleen M. Weber, Adaora Adimora, Margaret Fischl, Yanxun Xu, Leah H. Rubin

702 PTSD SYMPTOMS AND HYPERAROUSAL INFLUENCED BY CHILDHOOD TRAUMA IN WOMEN WITH HIV

Gretchen Neigh, Vasiliki Michopoulos, Rebecca Hinrichs, Sierra Carter, Igbo Ofotokun, Tanja Jovanovic

703 DYSREGULATED SYNTHESIS OF NEUROTRANSMITTERS IN METHAMPHETAMINE USERS LIVING WITH HIV

Antonio Chahine, Tulay Koru-Sengul, Daniel J. Feaster, Nichole Klatt, Margaret Roach, Suresh Pallikkuth, Mark Sharkey, Jessica Salinas, Mario Stevenson, Savita Pahwa, Dietmar Fuchs, **Adam W. Carrico**

Poster P-N01 INCIDENCE, PREVALENCE, AND RISK FACTORS FOR TB IN PEOPLE LIVING WITH HIV

Poster Hall B

2:30 PM - 4:00 PM

- 717 IMPACT OF TREAT-ALL GUIDELINES ON TB INCIDENCE AMONG PLWH IN RIO DE JANEIRO, BRAZIL**
Lelia H. Chaisson, Valeria Saraceni, Juliana Domenico, Richard D. Moore, Richard E. Chaisson, Jonathan Golub, Betina Durovni
- 718 ESTIMATING TB TRANSMISSION IN PRIMARY CARE CLINICS IN TB/HIV HIGH-BURDEN SETTINGS**
Kathrin Zürcher, Carl Morrow, Julien Riou, Simon Bertschinger, Marie Ballif, Keren Middelkoop, Robin Wood, Matthias Egger, Lukas Fenner, for the leDEA Consortium
- 719 ALARMING TUBERCULOSIS RATE AMONG PWID IN VIETNAM**
Nicolas Nagot, Vu H. Vinh, Khuat T. Oanh, Delphine Rapoud, Hoang T. Giang, Catherine Quillet, Pham M. Khue, Roselyne Vallo, Thanh T. Nham, Jean-Pierre Molès, Don Des Jarlais, Duong T. Huong, Phuong N. Lan, Thuy T. Dong, Didier Laureillard
- 720 PREVALENCE OF TB SYMPTOMS, DIAGNOSIS, AND TREATMENT AMONG HIV PATIENTS NOT ON ART**
Alana T. Brennan, Mhairi Maskew, Bruce Larson, Isaac Tsikhutsu, Margaret Bii, Lungisile Vezi, Matthew P. Fox, Willem D. Venter, Peter Ehrenkranz, Sydney Rosen
- 721 HOUSEHOLD AIR POLLUTION INCREASES RISK FOR PULMONARY TB IN HIV-INFECTED ADULTS**
Patrick Katoto, Bihehe Masemo, Amanda S. Brand, Aline Kusinza, Brian Allwood, Richard Van Zyl-Smit, Nadia A. Sam-Agudu, David Dowdy, John Z. Metcalfe, Grant Theron, Kevin Mortimer, Jeroein Vanoirbeek, Tim Nawrot, Benoit Nemery, Jean B. Nachege
- 722 ALCOHOL USE IS ASSOCIATED WITH INCIDENT TB INFECTION IN HIV+ AND HIV- UGANDAN ADULTS**
Sarah B. Puryear, Atukunda Mucunguzi, Laura B. Balzer, Joel Kironde, Judith A. Hahn, Florence Mwangwa, Dalsone Kwarisiima, Moses R. Kanya, Maya L. Petersen, Edwin D. Charlebois, Diane V. Havlir, Gabriel Chamie, **Carina Marquez**
- 723 TUBERCULOSIS EVALUATION AMONG HIV-POSITIVE PATIENTS ON ANTIRETROVIRAL THERAPY**
Meaghan L. Peterson, Catherine Nichols, Rena Fukunaga, Joseph S. Cavanaugh, Patricia Hall, Erin Rottinghaus, N. Sarita Shah, Adam MacNeil

Poster P-N02 LATENT TB INFECTION: RISK FACTORS, TREATMENT, AND PREVENTION

Poster Hall B

2:30 PM - 4:00 PM

- 724 TUBERCULOSIS PREVENTIVE TREATMENT IN NEW VS EXISTING ANTIRETROVIRAL THERAPY PATIENTS**
Meaghan L. Peterson, Rena Fukunaga, Joseph S. Cavanaugh, Allison Moffitt, Adam MacNeil
- 725 POTENTIAL IMPACT OF LATENT TUBERCULOSIS IN PEOPLE LIVING WITH HIV**
Katharina Kusejko, **Huldrych F. Günthard**, Kyra Zens, Katharine Darling, Nina Khanna, Hansjakob Furrer, Pauline Vetter, Enos Bernasconi, Pietro L. Vernazza, Roger Kouyos, Johannes Nemeth, for the Swiss HIV Cohort Study

- 726 GEOGRAPHIC AND INDIVIDUAL RISK FACTORS FOR TB OR DEATH IN THE BRIEF-TB TRIAL (A5279)**
Cynthia Riviere, Marc Antoine Jean Juste, Ritesh Ramchandani, Amita Gupta, Constance A. Benson, Gaerolwe Masheto, Khuanchai Supparatpinyo, Lerato Mohapi, Rodrigo O. Da Silva Escada, Rosie Mngqibisa, Cecilia Kanyama, Deborah Langat, Susan Swindells, Richard E. Chaisson, for the BRIEF TB/A5279 Study Team
- 727 ADJUSTED ANALYSIS OF EFFECT OF IPT ON ADVERSE PREGNANCY OUTCOMES IN WOMEN WITH HIV**
 Gerhard B. Theron, Nahida Chakhtoura, Grace Montepiedra, Lisa Aaron, Patrick Jean-Philippe, Adriana Weinberg, Katie McCarthy, Teacler Nematadzira, Gaerolwe Masheto, Tsungai Chipato, Carolyne Onyango-Makumbi, **Amita Gupta**
- 728 HIGH LEVELS OF ALCOHOL USE ASSOCIATED WITH LATENT TB INFECTION IN HIV-POSITIVE ADULTS**
Sarah B. Puryear, Robin Fatch, Brian Beesiga, Allen Kekibiina, Sara Lodi, Kara Marson, Nneka I. Emenyonu, Winnie R. Muyindike, Dalsone Kwarisiima, Judith A. Hahn, Gabriel Chamie
- 729 PRAGMATIC DOSING RECOMMENDATIONS OF RIFAPENTINE-CONTAINING REGIMENS FOR LATENT TB**
Kendra K. Radtke, Jennifer E. Hibma, Radojka M. Savic
- 730 INCREASED HLA-DR EXPRESSION IN MONOCYTES OF PERSONS WITH HIV AND LATENT TB INFECTION**
Moises A. Huaman, Steven Juchnowski, David A. Zidar, Cissy Kityo, Sophie Nalukwago, Rashidah Nazzinda, Carl J. Fichtenbaum, Chris T. Longenecker
- 731 INTRAVENOUS BCG VACCINATION IN SIV+ MACAQUES CONFERS HIGH-LEVEL PROTECTION AGAINST TB**
 Erica C. Larson, Mark A. Rodgers, Amy Ellis, Cassaundra A. Ameel, Janelle Gleim, Abigail K. Gubernat, Alexis Balgeman, Ryan Moriarty, Pauline Maiello, Patricia A. Darrah, JoAnne L. Flynn, Mario Roederer, Robert A. Seder, Shelby O'Connor, **Charles A. Scanga**

Poster P-001 VIREMIA AND ADHERENCE IN PREGNANCY AND POSTPARTUM

Poster Hall B

2:30 PM - 4:00 PM

- 763 A NOVEL PHARMACOLOGICAL ADHERENCE MEASURE IN PREGNANT AND POSTPARTUM KENYAN WOMEN**
 Karen Hampanda, Jose R. Castillo-Mancilla, Janet M. Turan, Maricianah Onono, Tobias Odwar, Peter L. Anderson, **Lisa L. Abuogi**
- 764 DETECTABLE HIV RNA IN LATE PREGNANCY ASSOCIATED WITH LOW TFV HAIR LEVELS AT BIRTH**
Jillian Pintye, Yanling Huo, Deborah Kacanek, Karen Kuncze, Kevin Zhang, Hideaki Okochi, Monica Gandhi
- 765 EARLY POSTPARTUM VIREMIA PREDICTS LONG-TERM NONSUPPRESSION AND INFANT TRANSMISSION**
Megan Landes, Monique Van Lettow, Joep J. Van Oosterhout, Erik Schouten, Thokozani Kalua, Andreas Jahn, Beth A. Tippet Barr
- 766 VIRAL LOAD MONITORING IN PREGNANCY TO PREDICT PERIPARTUM VIRAEMIA IN SOUTH AFRICA**
Jasantha Odayar, Siti Kabanda, Thokozile R. Malaba, Maia Lesosky, Landon Myer

767 HIGH VIRAL SUPPRESSION AMONG HIV-POSITIVE POSTPARTUM WOMEN: CLUSTER RANDOMIZED TRIAL

Appolinaire Tiam, Lauren Greenberg, Vincent Tukei, Thabelo Ramatlapeng, Tsietso Mots'oane, Matseliso Masitha, Matsepeli Nchephe, Mammatli Chabela, Laura Guay, Heather Hoffman

Poster P-002 CHRONIC DISEASES AND MATERNAL HEALTH: PERSISTENT PROBLEMS FOR PREGNANT AND POSTPARTUM WOMEN

Poster Hall B

2:30 PM - 4:00 PM

768 CHANGES IN BONE MINERAL DURING AND AFTER LACTATION IN UGANDAN WOMEN ON OPTION B+ ART

Florence Nabwire, Ann Prentice, Matthew M. Hamill, Mary Glenn Fowler, Josaphat Byamugisha, Adeodata Kekitiinwa, Gail R. Goldberg

769 HIGH BLOOD PRESSURE AND ADVERSE BIRTH OUTCOMES IN HIV+ AND HIV- SOUTH AFRICAN WOMEN

Angela Bengtson, Stanzi M. le Roux, Tamsin K. Phillips, Kirsty Brittain, Allison Zerbe, Thoko Malaba, Greg Petro, Hlengiwe Madlala, Elaine J. Abrams, Landon Myer

770 BLOOD PRESSURE TRAJECTORIES AND ASSOCIATED FACTORS IN PREGNANT HIV- AND HIV+ WOMEN

Thokozile R. Malaba, Annibale Cois, Hlengiwe P. Madlala, Mushi Matjila, Landon Myer, Marie-Louise Newell

771 POSTPARTUM WEIGHT CHANGES IN WOMEN INITIATING DTG VS EFV IN PREGNANCY: DOLPHIN-2

Thokozile R. Malaba, Tao Chen, Kenneth Kintu, Christiana Papamichael, Helen Reynolds, Jesca Nakibuka, Catriona Waitt, Eva Maria Hodel, Angela Colbers, Catherine Orrell, Duolao Wang, Mohammed Lamorde, Saye Khoo, Landon Myer, for the DOLPHIN-2 Trial Team

772 DOLUTEGRAVIR USE IS ASSOCIATED WITH HIGHER POSTPARTUM WEIGHT COMPARED TO EFAVIRENZ

Jennifer Jao, Shan Sun, Justine Legbedze, Denise Jacobson, Keolebogile N. Mmasa, Samuel W. Kgole, Gosego Masasa, Joseph Makhema, Sikhulile Moyo, Mompoti O. Mmalane, Francis Banda, Bornaparte Nkomo, Mariana Gerschenson, Elaine J. Abrams, Kathleen M. Powis

773 OBESITY, GESTATIONAL WEIGHT GAIN, AND ADVERSE BIRTH OUTCOMES IN SOUTH AFRICAN WOMEN

Hlengiwe P. Madlala, Thokozile R. Malaba, Marie-Louise Newell, Landon Myer

774 FACTORS ASSOCIATED WITH GESTATIONAL DIABETES IN HIV+ AND HIV- WOMEN IN PUNE, INDIA

Puja Chebrolu, Mallika Alexander, Ramesh Bhosale, Shilpa Naik, Nikhil Patil, Amita Gupta, Jyoti S. Mathad

Poster P-P02 EARLY ANTIRETROVIRAL TREATMENT FOR CHILDREN

Poster Hall B

2:30 PM - 4:00 PM

806 POOR OUTCOME IN EARLY TREATED HIV PERINATALLY INFECTED INFANTS IN AFRICA

Alfredo Tagarro, Sara Dominguez Rodriguez, Avy Violari, Mark Cotton, Tacilta Mhamposha, Nigel Klein, Nastassja Ramsagar, Anita Janse Van Rensburg, Osse Behuhuma, Paula Vaz, Andrea Oletto, Paolo Palma, Paolo Rossi, Pablo Rojo Conejo, for the EPIICAL Consortium

- 807 VIRAL RESPONSE IN HIV-INFECTED INFANTS STARTING ART AT 1 MONTH IN SOUTHERN MOZAMBIQUE**
Maria G. Lain, Paula Vaz, Nalia Ismael, Anna Cantarutti, Gloria Porcu, Paolo Palma, Nicola Cotugno, Dulce Bila, Stefano Rinaldi, Suresh Pallikkuth, Rajendra Pahwa, Elsa Taibo, Esmeralda Karajeane, Carlo Giaquinto, Savita Pahwa
- 808 SEROSTATUS IS A MARKER FOR SUSTAINED VIRAL SUPPRESSION IN EARLY TREATED CHILDREN**
Gbolahan Ajibola, Pilar Garcia Broncano, Kenneth Maswabi, Kara Bennett, Michael D. Hughes, Sikhulile Moyo, Terence Mohammed, Patrick Jean-Philippe, Maureen Sakoi-Mosetlhi, Oganne Batlang, Shahin Lockman, Joseph Makhema, Daniel R. Kuritzkes, Mathias Lichterfeld, Roger L. Shapiro
- 809 NK CELLS ARE PRESERVED BY EARLY ART IN HIV-INFECTED CHILDREN WITH LOWER RESERVOIR**
Sonia Zicari, Margherita Doria, Sara Dominguez Rodriguez, Nicola Cotugno, Alfredo Tagarro, Pablo Rojo Conejo, Eleni Nastouli, Kathleen Gartner, Nigel Klein, Caroline Foster, Savita Pahwa, Anita De Rossi, Carlo Giaquinto, Paolo Rossi, Paolo Palma, for the EPIICAL Consortium

Poster P-P04 PEDIATRIC 90:90:90**Poster Hall B****2:30 PM - 4:00 PM**

- 815 CHILDREN <15 ARE LESS LIKELY TO BE AN INDEX TESTING CONTACT COMPARED TO ADULTS**
Hilary T. Wolf, Melissa Bochnowicz, Kayla Zhang, Teeb Al-Samarrai, Joseph S. Cavanaugh, Shabeen Ally
- 816 THE CASCADE OF HIV CARE FOR CHILDREN AND ADOLESCENTS IN WEST AFRICAN COHORTS**
Désiré L. Dahourou, Karen Malateste, Sophie Desmonde, Tanoh Eboua, Elom Takassi, Lorna Renner, Marcelline D'Almeida, Madeleine Amorissani-Folquet, Mariam Sylla, Valériane Leroy
- 817 HIV VIRAL SUPPRESSION IN ADOLESCENTS AND YOUNG ADULTS: A NATIONAL SURVEY IN KENYA**
Irene Njuguna, Jillian Neary, Caren Mburu, Danae Black, Kristin Beima-Sofie, Anjuli Wagner, Cyrus Mugo, Yolanda Evans, Brandon Guthrie, Janet Itindi, Alvin Onyango, Laura Oyiengo, Barbra A. Richardson, Dalton Wamalwa, Grace John-Stewart
- 818 CAN ADHERENCE INTERVENTIONS BE COST-EFFECTIVE AMONG YOUTH WITH HIV?**
Anne M. Neilan, Audrey Bangs, Michael Hudgens, Kunjal Patel, Allison Agwu, Aditya Gaur, Catherine Crespi, Keith Horvath, Caitlin Dugdale, Kimberly A. Powers, H. Jonathon Rendina, Kenneth Freedberg, Andrea L. Ciaranello

Poster P-P07 MENTAL HEALTH AND BRAIN DEVELOPMENT IN CHILDREN**Poster Hall B****2:30 PM - 4:00 PM**

- 832 DEPRESSION ASSOCIATED WITH LOWER EXECUTIVE FUNCTIONING IN ASIAN YOUTH LIVING WITH HIV**
Wipaporn Natalie Songtaweessin, **Christina Chandra**, Jiratchaya Sophonphan, Ly Penh Sun, Pradthana Ounchanum, Pope Kosalaraksa, Linda Aupibul, Suparat Kanjanavanit, Chaiwat Ngampiyaskul, Kathleen Malee, Robert Paul, Jintanat Ananworanich, Claude A. Mellins, Thanyawee Puthanakit, for the PREDICT and Resilience Study Group

- 833 DEPRESSION, SUBSTANCE USE, AND ADHERENCE AMONG LATIN AMERICAN YOUTH LIVING WITH HIV**
Daisy Machado, Raquel B. De Boni, Fernanda Maruri, Vanessa A. Rouzier, Brenda Crabtree-Ramírez, Denis Padgett, Fernando A. Mejia, M. Fernanda Rodriguez, Jorge Pinto, **Catherine McGowan**
- 834 SUBSTANCE USE IN PERINATALLY INFECTED AND SAME-AGE HIV— ADOLESCENTS IN SOUTH AFRICA**
Kirsty Brittain, Landon Myer, Nicole Phillips, Heather Zar, Dan Stein, Jackie Hoare
- 835 VIRAL SUPPRESSION AND MARIJUANA MODULATE TRANSCRIPTOME BIOPROFILE IN YOUTH WITH HIV**
Li Yin, Ashok R. Dinasarapu, Kai-Fen Chang, John W. Sleasman, Maureen Goodenow
- 836 PROMISING RESULTS FROM A PILOT RCT MENTAL HEALTH INTERVENTION FOR HIV-INFECTED YOUTH**
Dorothy E. Dow, Blandina T. Mmbaga, John A. Gallis, Elizabeth L. Turner, Monica Gandhi, Coleen K. Cunningham, Karen O'Donnell
- 837 LONGITUDINAL STUDY OF NEUROCOGNITIVE DISORDERS AND BRAIN STRUCTURE IN ADOLESCENT HIV**
Jackie Hoare, Landon Myer, Sarah Heany, Jean-Paul Fouche, Nicole Phillips, Heather Zar, Dan Stein
- 838 BRAIN DEVELOPMENT IN TREATED PERINATAL HIV: A LONGITUDINAL NEUROIMAGING STUDY**
Malon Van den Hof, Pien Jellema, Anne Marleen Ter Haar, Henriëtte J. Scherpbier, Anouk Schrantee, Antonia Kaiser, Matthan W. Caan, Peter Reiss, Ferdinand Wit, Henk-Jan M. Mutsaerts, Dasja Pajkrt

Poster P-Q01 HIV INCIDENCE**Poster Hall D****2:30 PM - 4:00 PM**

- 848 RISK FACTORS FOR NEW HIV INFECTIONS IN THE GENERAL POPULATION IN SUB-SAHARAN AFRICA**
Emma Slaymaker, Kathryn A. Risher, Ramadhani Abdul, Milly Marston, Keith Tomlin, Robert Newton, Anthony Ndyababo, Estelle McLean, Tawanda Dadirai, Daniel Kwaro, Kathy Baisley, Coleman Kishamawe, for the ALPHA Network
- 849 METRICS OF MOBILITY BY SEX ARE ASSOCIATED WITH HIV INCIDENCE IN RURAL KENYA & UGANDA**
Carol S. Camlin, Edwin D. Charlebois, Maya L. Petersen, Laura B. Balzer, Torsten B. Neilands, Dalsone Kwarisiima, James Ayieko, Gabriel Chamie, Craig R. Cohen, Elizabeth A. Bukusi, Moses R. Kamya, Diane V. Havlir
- 850 HIV INCIDENCE AND VIRAL BURDEN AT THE COMMUNITY LEVEL IN HPTN 071 (POPART)**
Timothy Skalland, Helen Ayles, Ethan A. Wilson, Ayana Moore, Nomtha Mandla, Justin Bwalya, Nkatya Kasese, Rory Dunbar, Estelle Piwowar-Manning, Susan H. Eshleman, Peter Bock, Sarah Fidler, Richard J. Hayes, Deborah J. Donnell
- 851 AGE-SPECIFIC HIV INCIDENCE PATTERNS AMONG POPULATION COHORTS IN SUB-SAHARAN AFRICA**
Kathryn A. Risher, Georges Reniers, Emma Slaymaker, Alain Vandormael, Mark Urassa, Robert Newton, Tom Lutalo, Louisa Moorhouse, Tawanda Dadirai, Amelia C. Crampin, Christophe Fraser, Anne Cori, Milly Marston, Jeffrey Eaton, for the ALPHA Network

852 HIGH HIV INCIDENCE AND VOLUNTEER RETENTION IN A BANGKOK-BASED COHORT OF MSM AND TGW

Tanyaporn Wansom, Sant Muangnoicharoen, Sorachai Nitayaphan, Suchai Kitsiripornchai, Trevor A. Crowell, Leilani Francisco, Qun Li, Peter Dawson, Merlin L. Robb, Kirsten Smith, Elizabeth A. Heger, Punnee Pitisutthithum, Robert J. O'Connell, Sandhya Vasan, for the RV348 Study Group

Poster P-Q02 HIV IN KEY POPULATIONS

Poster Hall D

2:30 PM - 4:00 PM

853 HIV AMONG FEMALE SEX WORKERS: RISK FACTORS AND LESSONS FROM A NATIONAL SURVEY

Adeyemi O. Adeyemi, Emmanuel Abatta, Olubunmi Fakunle, Ogbonna O. Amanze

854 HIV RISK, BEHAVIOUR, AND SERVICE UPTAKE IN ADOLESCENT GIRLS SELLING SEX IN ZIMBABWE

Mariken M. De Wit, Brian Rice, Elizabeth Fearon, Tendayi Mharadze, Sitholubuhle Magutshwa, Joanna Busza, Sithembile Musemburi, Amon Mpofo, Owen Mugurungi, Dagmar Hanisch, James R. Hargreaves, Frances Cowan

855 TRANSACTIONAL SEX WITH OLDER PARTNERS HEIGHTENS HIV RISKS AMONG AGYW IN TANZANIA

Katherine Rucinski, Gaspar Mbita, Kelly Curran, Albert Komba, Caterina Casalini, Esther Majani, Mary Drake, Anthony Galishi, Yeronimo Mlawa, Upendo Kategile, William Kafura, Sheree Schwartz, Stefan Baral

856 FACTORS ASSOCIATED WITH HIV SEROCONVERSION IN YOUNG WOMEN IN SOUTH AFRICA

Lara Lewis, Ayesha B. Kharsany, Cherie Cawood, Hilton Humphries, Brendan Maughan-Brown, David Khanyile

857 SOCIOECONOMIC DISPARITIES ARE ASSOCIATED WITH HIV IN YOUNG MSM WITHIN LATIN AMERICA

Thiago S. Torres, Lara Coelho, Kelika A. Konda, E. Hamid Vega-Ramirez, Oliver A. Elorreaga, Dulce Diaz-Sosa, Brenda Hoagland, Cristina Pimenta, Marcos Benedetti, Beatriz Grinsztejn, Carlos Carceres, Valdilea Veloso, for the ImPrEP Study Team

858 FORCED SEX IN HAITI: IMPLICATIONS FOR THE HIV EPIDEMIC AMONG MSM AND TRANS WOMEN

Nicole Y. Frascino, Lauren Y. Zalla

859 SEXUAL HEALTH OF RURAL AND URBAN YOUNG MALE COUPLES IN THE UNITED STATES

José Benito, Elissa L. Sarno, Kyle Jozsa, Emily Bettin, Michael E. Newcomb

860 BURDEN OF HIV AMONG MEN ATTENDING EMERGENCY DEPARTMENTS IN SOUTH AFRICA

George Mwinnyaa, Elizabeth Hahn, Aditi Rao, Steven J. Reynolds, Andrew D. Redd, Reinaldo Fernandez, Jernelle Miller, Morgan P. Keruly, Roshen Maharaj, Pamela Mda, David Stead, John Black, Thomas C. Quinn, Oliver Laeyendecker, Bhakti Hansoti

861 ROLE OF KEY POPULATIONS AND PAST INTERVENTIONS ON HIV TRANSMISSION IN CAMEROON

Romain Silhol, Sharmistha Mishra, Anna L. Bowring, Christinah Mukandavire, Amrita Rao, Sheree Schwartz, Ubald Tamoufe, Serge Billong, Peter Vickerman, Stefan Baral, **Marie-Claude Boily**

862 SEX-SPECIFIC ANALYSES IN ORAL ABSTRACTS FROM CROI 2019

William R. Short, Laura M. Smeaton, Sara H. Bares, Susan E. Cohn, Michelle Dalla Piazza, Sharlaa Badal-Faesen, Sara Gianella, Rosie Mngqibisa, Valarie S. Opollo, Anandi N. Sheth, Marije Van Schalkwyk, Selvamuthu Poongulali, Christina Vernon, Elizabeth Connick, Monica Gandhi

Poster P-Q03 VIRAL LOAD AND OUTCOMES**Poster Hall D****2:30 PM - 4:00 PM****863 HIGH PROBABILITY OF SURVIVAL IN PATIENTS WHO MAINTAIN VIRAL LOADS <200 COPIES/ML**

Jennifer S. Lee, Bryan Lau, Joseph J. Eron, Ronald Bosch, Mari M. Kitahata, Julia Fleming, Michael John Gill, W. C. Mathews, Timothy R. Sterling, Viviane D. Lima, Michael J. Silverberg, Michael A. Horberg, Keri N. Althoff, Richard D. Moore, for the NA-ACCORD of IeDEA

864 FIRST HIV VIRAL LOAD REMAINS STRONG PREDICTOR OF TREATMENT SUCCESS IN SOUTH AFRICA

Lauren R. Violette, Jienchi Dorward, Justice Quame-Amaglo, Katherine Thomas, Connie L. Celum, Nigel Garrett, Paul K. Drain

865 POPULATION-LEVEL HIV VIRAL LOAD VARIES BY GENDER, AGE, AND LOCATION IN RAKAI, UGANDA

Imogen Kyle, Joseph Kagaayi, Godfrey Kigozi, Gertrude Nakigozi, Robert Ssekubugu, Fred Nalugoda, Mary K. Grabowski, Larry W. Chang, Maria Wawer, David Serwadda, Ronald H. Gray, **Thomas Quinn**, Steven J. Reynolds, Oliver Ratmann, for the Rakai Health Sciences Program

866 DISPARITIES IN VIRAL SUPPRESSION AMONG US ADULTS WITH RECENTLY DIAGNOSED HIV

Hanna B. Demeke, Stacy M. Crim, Sharoda Dasgupta, John Weiser, R. L. Shouse

867 HIV+ PERSONS IN RURAL UGANDA WITH FEWER SOCIAL CONNECTIONS HAVE LOWER HIV SUPPRESSION

Yiqun Chen, Gabriel Chamie, Dalsone Kwarisiima, Laura B. Balzer, Jane Kabami, Atukunda Mucunguzi, Asiphas Owaraganise, Lillian Brown, Edwin D. Charlebois, Tamara D. Clark, Moses R. Kanya, Diane V. Havlir, Maya L. Petersen

Poster P-Q04 LIFE EXPECTANCY AND MORTALITY**Poster Hall D****2:30 PM - 4:00 PM****868 LIFE EXPECTANCY GAINS WITH ART IN LATIN AMERICA, 2003-2017**

Casey Smiley, Peter Rebeiro, Carina Cesar, Francisco Belanzauran, Brenda Crabtree-Ramírez, Denis Padgett, Eduardo Gotuzzo, Claudia P. Cortes, Jean W. Pape, Valdilea Veloso, Catherine McGowan, Jessica L. Castilho

869 EXCESS MORTALITY AMONG PLWH WITH MULTIMORBIDITY COMPARED TO HIV-NEGATIVE CONTROLS

Ni Gusti Ayu Nanditha, Grace Zheng, Hiwot M. Tafessu, Taylor McLinden, Andreea Bratu, Robert S. Hogg, Julio S. Montaner, Viviane D. Lima

870 EXCESS MORTALITY AFTER CANCER DIAGNOSIS IN PERSONS WITH HIV

Michael J. Silverberg, Varada Sarovar, Derek Satre, Stacey Alexeeff, Wendy Leyden, Jennifer O. Lam, Alexandra N. Anderson, Rulin Hechter, Haihong Hu, Julia L. Marcus, William J. Towner, Qing Yuan, Michael A. Horberg

871 GAINS AND REMAINING CHALLENGES IN MORTALITY AMONG INDIVIDUALS WITH HIV, 1999-2017

Monina Klevens, Maria McKenna

872 A DETAILED LOOK AT HIV MORTALITY IN KING COUNTY, 2016-2018

Andrea L. Martin, Meena Ramchandani, Susan E. Buskin

873 USING MULTISTATE MODELS TO DISENTANGLE MORTALITY & LOSS TO FOLLOW-UP IN HIV+ PATIENTS

Nanina Anderegg, Jonas Hector, Juan Burgos, Laura Jefferys, Michael A. Hobbins, Jochen Ehmer, Matthias Egger

874 INCREASED MORTALITY AMONG PEOPLE AT HIGH RISK FOR HIV IN THE UNITED STATES

Fatma Shebl, Julia H. Foote, Krishna P. Reddy, Yiqi Qian, Kenneth Freedberg, Rochelle P. Walensky, Emily P. Hyle

Poster P-Q05 T CELL PATTERNS**Poster Hall D****2:30 PM - 4:00 PM****875 CD4 COUNT PATTERNS OVER TIME IDENTIFY LONG-TERM HIV CARE TRAJECTORIES IN SOUTH AFRICA**

Ingrid V. Bassett, Ai Xu, Janet Giddy, Sue Candy, Laura M. Bogart, Andrew Boulle, Lucia Millham, Robert A. Parker, Elena Losina

876 PREDICTIVE VALUE OF THE CD8 COUNTS AND CD4/CD8 RATIO AT 2 YEARS OF SUCCESSFUL ART

Sergio Serrano-Villar, **Kunling Wu**, Peter W. Hunt, Judith J. Lok, Talía Sainz, Santiago Moreno, Steven G. Deeks, Ronald Bosch

877 EFFECT OF ERECTILE DYSFUNCTION DRUGS ON T CELLS AND IMMUNE MARKERS IN MEN

Jee Won Park, Adrian Dobs, Ken Ho, Frank J. Palella, Eric C. Seaberg, Onyebuchi A. Arah, Otoniel Martínez-Maza, Roger Detels

Poster P-R01 ASSISTED PARTNER NOTIFICATION**Poster Hall D****2:30 PM - 4:00 PM****937 ASSISTED PARTNER NOTIFICATION SERVICES IN KAMPALA, UGANDA**

Florence Namimbi, Faridah Akuju, Martin Ssuuna, Esther Nasuuna, Rhoda Mwendha, Stella Alamo, Madina Apolot, Nelson Kalema, Alice Namale, Joanita Kigozi

938 TARGETED PEER MOBILISATION AND ASSISTED PARTNER NOTIFICATION SERVICES IN KENYA

Maartje Dijkstra, Khamisi Mohamed, Alex Kigoro, Mahmoud Shally, Abdalla Wesonga, Teresia Mumba, Nana Mukuria, Margaret Juma, Evans Gichuru, Shaun Palmer, Susan M. Graham, Elisabeth M. van der Elst, Eduard Sanders

939 SCALE-UP OF ASSISTED PARTNER SERVICES (APS) IN BOTSWANA

Matthew R. Golden, Matias Grande, Shreshth Mawandia, Odirile Bakae, Lenna Tau, Goabaone Mogomotsi, Esther Mmatli, Modise Ngombo, Jenny Ledikwe

940 OPTIMIZING TESTING INCREASES YIELD IN HIV CASE FINDING IN 24 COUNTRIES, 2018–2019

Shahul Hameed Ebrahim, Arielle Lasry, Randy Yee, Wayne A Duffus, John Abellera, Shane T Diekman, Jacqueline Rurangirwa, Bakary Drammeh, Tiffany Ahoulou, Michael Grillo, Vincent Wong, Stephanie Behel

941 PARTNER TESTING SERVICES TO ACHIEVE HIV EPIDEMIC CONTROL IN 9 PEPFAR COUNTRIES, 2019

Bakary Drammeh, Shahul Ebrahim, Andrew L. Baughman, Arielle Lasry, Randy Yee, Wayne A Duffus, Jacqueline Rurangirwa, Shane T Diekman, Amy M. Medley, Tiffany Michelle Aholou, G. Laissa Ouedraogo, Isabelle Tondoh-Koui, Ismelda Pietersen, Stephanie Behel, for the HIV Testing Services

942 COMPARISON OF INDEX TESTING APPROACHES TO IMPROVE HIV-TESTING EFFICIENCY IN RWANDA

Eric Remera, Elyse Tuyishime, Suthar Amithab, Mugwaneza Placidie

943 EXPANDING HIV IDENTIFICATION BY TESTING CONTACTS OF DECEASED HIV INDEX CLIENTS

Neema Makyao, Angela Ramadhani, Peris L. Urasa, Leonard Subi, Neusta Kwesigabo, Prosper F. Njau

944 NONENROLLMENT AMONG HIV-POSITIVE KENYAN FEMALE INDEX CLIENTS IN PARTNER NOTIFICATION

Beatrice Wamuti, Monisha Sharma, Emily Kemunto, George Otieno, Christopher Obong'O, Judith Onsomu, Cecilia Audo, Dominic Mutai, Paul Macharia, Rose Bosire, Sarah Masyuko, Kariithi Edward, Mary Mugambi, Carey Farquhar

945 SCALING UP ASSISTED PARTNER NOTIFICATION SERVICES IN WESTERN KENYA

Sarah Masyuko, Monisha Sharma, Emily Kemunto, George Otieno, Christopher Obong'o, Judith Onsomu, Cecilia Audo, Dominic Mutai, Paul Macharia, Beatrice Wamuti, Rose Bosire, Mary Mugambi, Kariithi Edward, Carey Farquhar

Poster P-R02 HIV TESTING STRATEGIES**Poster Hall D****2:30 PM - 4:00 PM****946 HIV TESTING AND INTEGRATED HIV/STI/HEPATITIS TESTING, OREGON, 2016**

Tim W. Menza, Lindsay Hixson, Jeff Capizzi

947 AN AGE-ADAPTED, EASY-TO-IMPLEMENT SCORE FOR INTEGRATED BUNDLED, RAPID HIV/HCV TESTING

Maria Jesus Perez-Elias, Javier Martínez-Sanz, Alfonso Muriel, María J. Vivancos-Gallego, Ana Moreno, Margarita Herrero-Delgado, Beatriz Romero, Matilde Sanchez-Conde, Almudena Uranga, Pilar Perez Elias, Yolanda De La Fuente-Cortés, Rafael Barea, Juan Carlos Galán, Santos Del Campo, for the DRIVE03 Study Group

948 HIV TESTING CRITERIA TO REDUCE TESTING VOLUME AND INCREASE POSITIVITY IN BOTSWANA

Emily Rowlinson, Jenny Ledikwe, Shreshth Mawandia, Odirile Bakae, Lenna Tau, Matias Grande, Laura Seckel, Goabaone Mogomotsi, Esther Mmatli, Modise Ngombo, Matthew R. Golden

949 FREQUENT HIV TESTING OF MSM AND TGW OF COLOR RESULTS IN EARLIER DIAGNOSIS

Karen W. Hoover, Weiming Zhu, Kenneth L. Dominguez, Kirk D. Henny, Ya-Lin A. Huang, Kashif Iqbal, Mary Tanner, Kevin P. Delaney

Poster P-S01 PrEP EFFECTIVENESS**Poster Hall D****2:30 PM - 4:00 PM****977 URINE TENOFOVIR LEVELS BY IMMUNOASSAY PREDICT HIV PROTECTION IN A LARGE PrEP TRIAL**

Randy Stalter, Jared Baeten, Deborah J. Donnell, David Glidden, Warren Rodrigues, Guohong Wang, Michael Vincent, Matthew A. Spinelli, Nelly R. Mugo, Kelly Johnson, Andrew Mujugira, Mark A. Marzinke, Craig W. Hendrix, Monica Gandhi, for the Partners PrEP Study Team

978 PUBLICLY FUNDED HIV PrEP IN BRITISH COLUMBIA: PROGRAM RETENTION AND NEW HIV DIAGNOSES

K. Junine Toy, Cora L. Keeney, Jason Trigg, Wendy W. Zhang, Paul Sereda, Viviane D. Lima, Mark Hull, Katherine Lepik, Martin St-Jean, David M. Moore, Silvia Guillemi, Rolando Barrios, Nancy Yu, Julio S. Montaner

979 POPULATION-LEVEL EFFECTIVENESS OF PrEP AMONG MSM AND TRANSGENDER PERSONS WITH STI

Jade Pagkas-Bather, Christine M. Khosropour, Matthew R. Golden, Julia C. Dombrowski

980LB TFV-DP IN DBS FOR PREGNANT/POSTPARTUM ADOLESCENT AND YOUNG WOMEN ON PrEP IN AFRICA

Peter L. Anderson, Lynda Stranix-Chibanda, Sharon Huang, Sybil Hosek, Deborah Kacanek, Teacler Nematadzira, Frank Taulo, Violet Korutaro, Clemensia Nakabiito, Masebola Masenya, Kathryn Lypen, Nahida Chakhtoura, Hans M. Spiegel, Benjamin H. Chi, for the IMPAACT 2009 Team

981 WITHDRAWN**Poster P-S02 PrEP ELIGIBILITY UPDATE AND MODES OF DELIVERY****Poster Hall D****2:30 PM - 4:00 PM****982 WAXING AND WANING HIV RISK: DYNAMICS OF PrEP ELIGIBILITY IN RAKAI, UGANDA**

Victor Ssempijja, Robert Ssekubugu, Godfrey Kigozi, Gertrude Nakigozi, Joseph Kagaayi, Tom Lutalo, Anthony Ndyababo, Anna Mia Ekström, David Serwadda, Thomas C. Quinn, Ronald H. Gray, Maria Wawer, Larry W. Chang, Steven J. Reynolds

983 HIV TESTING PATTERNS AND PrEP INDICATIONS AMONG MSM AND TGW OF COLOR, 2016-2019

Mary Tanner, Weiming Zhu, Kashif Iqbal, Kenneth L. Dominguez, Kirk D. Henny, Karen W. Hoover

984 IMPLEMENTATION OF MOBILE PrEP, STI, AND HIV-PREVENTION SERVICES IN SOUTH FLORIDA

Susanne Doblecki-Lewis, Erin Kobetz, Stefani A. Butts, Katherine Klose, Angela M. McGaugh, Brian B. Leon, Gilianne Narcisse, Jessica Morel, Yue Pan, Gabriel Cardenas, John Byrne, Patrick Whiteside, Marco Torrealba, Daniel J. Feaster, Mario Stevenson

- 985 PrEP USE APPROACHING 50% AMONG HIGH-RISK MSM IN WESTERN WASHINGTON**
Darcy W. Rao, Julia Hood, Rachel Wittenauer, Kelly Naismith, Jonathon Downs, Matthew R. Golden
- 986 OPTIMIZING PrEP CASCADE OUTCOMES FOR SEXUAL HEALTH CLINIC NAVIGATION**
Sarit A. Golub, Zoe D. Unger, Ashanay S. Allen, Chibuzo U. Enemchukwu, Christine M. Borges, Preeti Pathela, Trevor Hedberg, Anisha Gandhi, Zoe R. Edelstein, Julie Myers
- 987 NONDAILY USE OF HIV PREEXPOSURE PROPHYLAXIS IN A LARGE ONLINE SAMPLE IN THE US**
Whitney C. Sewell, Victoria Powell, Douglas Krakower, Kenneth H. Mayer, Aileen Ochoa, **Julia L. Marcus**
- 988 EFFECTIVENESS OF PrEP NAVIGATION MODELS IN THE THRIVE DEMONSTRATION PROJECT**
Kirk D. Henny, Weiming Zhu, Kenneth L. Dominguez, Kashif Iqbal, Mary Tanner, Karen W. Hoover
- 989 TURNING INTENT INTO ACTION: ASSESSING PrEP UPTAKE AT A PUBLIC STI CLINIC**
Kate Drezner, B.W. Furness, Chantil Thomas, Jason Beverley, Adam Allston, Adam Visconti
- 990 DISCOVER: 96-WEEK FOLLOW-UP OF BLACK AND HISPANIC/LATINX STUDY PARTICIPANTS**
Edwin DeJesus, Jason Halperin, Indira Brar, Eric Daar, Jeffrey L. Stephens, Yongwu Shao, Lijie Zhong, Ramin Ebrahimi, Staci Bush, Jonathon Anderson, Moupali Das, Scott McCallister, Jeffrey H. Burack, Michelle landiorio, Gordon Crofoot

Poster P-S03 THE PROBLEM OF PERSISTENCE IN PrEP
Poster Hall D **2:30 PM - 4:00 PM**

- 991 FACTORS ASSOCIATED WITH PrEP PERSISTENCE AND ADHERENCE AMONG MSM IN 4 US CITIES**
Johanna Chapin-Bardales, Amy Martin, Richard Haaland, Catlainn Sionean, Ekow Kwa Sey, Kathleen A. Brady, Henry F. Raymond, Jenevieve Opoku, Irene Kuo, Gabriela Paz-Bailey, Cyprian Wejnert, for the NHBS Study Group
- 992 HIV-1 INCIDENCE, PrEP UPTAKE, AND ADHERENCE AMONG KENYAN MSM**
Elizabeth Wahome, Susan M. Graham, Alexander N. Thiong'O, Khamisi Mohamed, Tony H. Oduor, Evans Gichuru, John Mwambi, Maria Prins, Elisabeth M. Van Der Elst, Eduard Sanders
- 993 HIGH REPORTED ADHERENCE BUT LOW PrEP LEVELS AMONG KENYAN MEN WHO HAVE SEX WITH MEN**
Susan M. Graham, Duncan O. Okall, Supriya D. Mehta, Eve Obondi, Robert C. Bailey, Frederick O. Otieno
- 994 PREEXPOSURE PROPHYLAXIS CASCADE AMONG MEN WHO HAVE SEX WITH MEN IN ZIMBABWE**
Lauren Parmley, Tiffany Harris, Innocent Chingombe, Munyaradzi Mappingure, Owen Mugurungi, John H. Rogers, Tsitsi Apollo, Getrude Ncube, Brian K. Moyo, Perpetua Gozhora, Yingfeng Wu, Elizabeth Gonesse, Sophia Miller, Avi Hakim, Godfrey Musuka

995 CASCADE TO TRICKLE: REASONS FOR SUBOPTIMAL PrEP USE AMONG AT-RISK US MSM (HPTN 078)

Kenneth H. Mayer, Ethan A. Wilson, James Hughes, Julia Raifman, Jason Farley, D. Scott Batey, Carlos del Rio, Lynda Emel, Vanessa Cummings, Susan H. Eshleman, Mark A. Marzinke, Theresa Gamble, Robert H. Remien, Chris Beyrer

Poster P-S04 NEW PREVENTION AGENTS AND ROUTES OF DELIVERY
Poster Hall D
2:30 PM - 4:00 PM**996 SAFETY AND TOLERABILITY OF ONCE-DAILY BIC/FTC/TAF FOR POSTEXPOSURE PROPHYLAXIS**

Kenneth H. Mayer, Johnathon B. Holmes, Marcy Gelman, Jessica C. Kraft, Kathy Melbourne, Douglas Krakower, Matthew J. Mimiaga

997 HYPO-OSMOLAR RECTAL DOUCHE DELIVERED TFV DISTRIBUTES TFV DIFFERENTLY THAN ORAL PrEP

Peng Xiao, Sanjeev Gumber, Mark A. Marzinke, Abhijit Date, Thuy Hoang, Justin Hanes, Laura Ensign, Lin Wang, Lisa C. Rohan, Richard Cone, Edward J. Fuchs, Craig W. Hendrix, **Francois Villinger**

998 THE POTENTIAL FOR A RECTAL MICROBICIDE DOUCHE: FINDINGS FROM AN INTERNATIONAL SURVEY

Rebecca Giguere, Alex Carballo-Diequez, Cody Lentz, Curtis Dolezal, Edward J. Fuchs, Craig W. Hendrix

999 A PHASE I TRIAL OF A RECTALLY ADMINISTERED GEL FORMULATED WITH THE NNRTI IQP-0528

Amer Al-Khouja, Eugenie C. Shieh, Edward J. Fuchs, Mark A. Marzinke, Anthony S. Ham, Karen W. Buckheit, Jennifer Breakey, Ethel D. Weld, Robert W. Buckheit, Craig W. Hendrix

1000 BIODEGRADABLE IMPLANT FOR DELIVERY OF ANTIRETROVIRAL (ARV) AND HORMONAL CONTRACEPTIVE

Linying A. Li, Sai Archana Krovi, Chasity Norton, Ellen Luecke, Zach Demkovich, Pafio Johnson, Christine Areson, Guadalupe Jimenez, Ariane Van Der Straten, Leah M. Johnson

1001 WITHDRAWN
Poster P-T01 SEXUALLY TRANSMITTED INFECTIONS IN SPECIAL POPULATIONS
Poster Hall D
2:30 PM - 4:00 PM**1040 PREVALENCE AND INCIDENCE OF STIs DURING PREGNANCY IN SOUTH AFRICA**

Dorothy C. Nyemba, Phuti P. Ngwepe, Remco P. Peters, Jeffrey D. Klausner, Landon Myer, Dvora Joseph Davey, Andrew Medina-Marino, Leigh F. Johnson

1041 STILLBIRTH AND PREVALENT SYPHILIS IN THE US WOMEN'S INTERAGENCY HIV STUDY, 1994-2016

Kristal J. Aaron, Ilene Brill, Zenoria Causey, Rachel Sinkey, Lisa B. Haddad, Anandi N. Sheth, Michael Augenbraun, Audrey French, Stephen J. Gange, Kerry Murphy, Dominika Seidman, Barbara Van Der Pol, Jeanne M. Marrazzo, Mirjam-Colette Kempf, Jodie Dionne-Odom

- 1042 PREVALENCE OF MYCOPLASMA GENITALIUM AND PERINATAL OUTCOMES IN HIV+ PREGNANT WOMEN**
Dvora Joseph Davey, Remco P. Peters, Carolyn Smullin, Dorothy Nyemba, Hunter Green, Andrew Medina-Marino, Jeffrey D. Klausner, Landon Myer
- 1043 DIAGNOSIS OF SEXUALLY TRANSMITTED INFECTIONS IN PREGNANT WOMEN AND MALE PARTNERS**
Nava Yeganeh, **Regis Kreitchmann**, Jeffrey D. Klausner, Karin Nielsen-Saines, Mei Leng, Pamina M. Gorbach
- 1044 SEXUALLY TRANSMITTED INFECTIONS AMONG HIV SERODISCORDANT SEXUAL PARTNERS: HPTN 052**
Maganizo Chagomerana, Mina C. Hosseinipour, Sharlaa Badal-Faesen, Emily Shava, Sheela Godbole, Victor Akelo, Jose Henrique S. Pilotto, Suwat Chariyalertsak, Ravindre Panchia, Myron S. Cohen, for the HPTN 052 Group
- 1045 HIV TRANSMISSION RISK FACTORS AMONG MEN LIVING WITH HIV WANTING A PREGNANCY IN UGANDA**
Pooja Chitneni, Bosco M. Bwana, Moran Owembabazi, Deogratious Tukwasibwe, Alice Najjuma, Johnmary Tumwine, Patricia Smith, Elijah Musinguzi, Cathy Kyampire, Sylvia Natukynda, Paul Kalyebara, Lynn T. Matthews, Angela Kaida
- 1046 CHANGES IN SEXUAL RISK BEHAVIORS FOLLOWING AN STI DIAGNOSIS AMONG A COHORT OF MSM**
Marjan Javanbakht, Amy Ragsdale, E. India Richter, Steven Shoptaw, **Pamina M. Gorbach**
- 1047 VARIATION IN SYPHILIS AMONG BISEXUAL MEN AND ASSOCIATION WITH SYPHILIS IN WOMEN**
Chase Cannon, Matthew R. Golden, for the CORES Group
- 1048 ASSOCIATION OF STI DIAGNOSIS WITH INCIDENT HIV IN A SOUTHERN STATEWIDE COHORT**
Heather N. Grome, Peter F. Rebeiro, Meredith Brantley, Dyanne Herrera-Vasquez, Samantha Mathieson, April Pettit
- 1049 THE BURDEN OF STIs IN AN HIV HYPERENDEMIC COMMUNITY WITH HIGH ART COVERAGE**
Mary K. Grabowski, Joseph Kagaayi, Robert Ssekubugu, Jade Jackson, Austin Peer, Godfrey Kigozi, Sarah Kalibbala, Ronald H. Gray, Maria Wawer, Josephine Mpagazi, Stephen Kiboneka, Steven J. Reynolds, Aaron Tobian, Charlotte A. Gaydos, Thomas Quinn

Poster P-U01 RAPID ART INITIATION
Poster Hall D

2:30 PM - 4:00 PM

- 1069 ASSESSMENT OF IMMEDIATE INITIATION OF ANTIRETROVIRAL THERAPY IN NEW YORK CITY**
Daniel Bertolino, Erica D'Aquila, Nadia Nguyen, Denis Nash, Abigail Baim-Lance, Bisrat Abraham
- 1070 A STRUCTURED ALGORITHM FOR SAME-DAY ART INITIATION: SLATE II TRIAL PRIMARY OUTCOMES**
Mhairi Maskew, Alana T. Brennan, Matthew P. Fox, Lungisile Vezi, Willem D. Venter, **Peter Ehrenkranz**, Sydney Rosen

1071 ASSOCIATION BETWEEN TIME TO ART AND LOSS TO CARE AMONG NEWLY DIAGNOSED PLWH IN RWANDA

Jonathan Ross, Gad Murenzi, Donald R. Hoover, Qihu Shi, Hae-Young Kim, Benjamin Muhoza, Athanase Munyaneza, Remera Eric, Sabin Nsanzimana, Marcel Yotebieng, Denis Nash, Kathryn Anastos

1072 SAME-DAY ART IN THAILAND: THE IMPACT OF ART INITIATION PERIODS ON TREATMENT OUTCOMES

Pich Seekaew, Sorawit Amatavete, Nipat Teeratakulpisarn, Prattana Leenasirimakul, Suwimon Khusuwan, Teerarat Chuntachon, Ampaipith Nilmanat, Suriyong Boonprachern, Oranuch Nampaisarn, Reshmie Ramautarsing, Stephen Mills, Ravipa Vannakit, Praphan Phanuphak, Nittaya Phanuphak

1073 RAPID START LEADS TO SUSTAINED VIRAL SUPPRESSION IN YOUNG PEOPLE IN THE SOUTH

Lorna Seybolt, Katherine Conner, Isolde Butler, Nicholas Van Sickels, **Jason Halperin**

Poster P-U02 HIV TEST AND TREAT
Poster Hall D
2:30 PM - 4:00 PM**1074 TREAT-ALL HIV POLICIES AND PATIENT ATTRITION IN SOUTH AFRICA: A PROSPECTIVE STUDY**

Dorina Onoya, Cheryl J. Hendrickson, Tembeka Sineke, Mhairi Maskew, Lawrence Long, Matthew P. Fox

1075 IMPACT OF UTT ON VIRAL SUPPRESSION IN SOUTH AFRICA: A NATIONAL COHORT STUDY

Jacob Bor, Matthew P. Fox, Mhairi Maskew, Dorina Onoya, Alana T. Brennan, Noah A. Haber, Till Bärnighausen, Sergio Carmona, Wendy Stevens, Adrian J. Puren, William B. MacLeod

1076 HIV-1 DYNAMICS FOLLOWING UNIVERSAL TESTING-AND-TREATMENT WITHIN HPTN 071 (POPART)

William Probert, Rafael Sauter, Michael Pickles, Anne Cori, Helen Ayles, Peter Bock, Deborah J. Donnell, Sarah Fidler, Richard J. Hayes, Christophe Fraser, for the HPTN 071 (PopART) Study Team

1077 DRAMATIC DECLINE OF NEW HIV DIAGNOSES IN SUBJECTS NATIVE FROM FRANCE

Adrien Le Guillou, André Cabié, Cyrille Delpierre, Pascal Pugliese, Christine Jacomet, Maxime Hentzien, Claudine Duvivier, Olivia Faucher-Zaegel, Laurent Cotte, **François Raffi**, Firouze Bani-Sadr

Poster P-U03 PROGRESS TOWARDS 90-90-90 AND BEYOND
Poster Hall D
2:30 PM - 4:00 PM**1078 MOBILITY, NEW HIV INFECTIONS, AND PROGRESS TOWARD THE 90-90-90 TARGETS IN NAMIBIA**

Andrea Low, Karampreet K. Sachatp, George Rutherford, Anne-Marie Nitschke, Adam Wolkon, Karen M. Banda, Keisha Jackson, Chelsea Solmo, Hetal Patel, Stephen McCracken, Sally Findley, Nicholas Mutenda

1079 PROGRESS TOWARDS THE 90-90-90 HIV TARGETS IN 11 EU COUNTRIES

Georgia Vourli, Teymur Noori, Kholoud Porter, Josip Begovac, Valerie Delpech, Enrico Girardi, Barbara Gunsenheimer-Bartmeyer, Victoria Hernando, Niels Obel, Ard Van Sighem, Anders Sönnernborg, Virginie Supervie, Robert Zangerle, Giota Touloumi, for the European HIV Continuum of Care Working Group

1080 IMPROVING HIV CARE IN WEST AFRICA: EFFECTS OF A COMMUNITY TREATMENT OBSERVATORY

Gemma M. Oberth, **Solange Baptiste**, Wame Mosime, Alain Manouan, Pedro Garcia, Anta M. Traore, Joelle Murara, Raoul M. Boka

Poster P-U04 VIRAL SUPPRESSION, ADHERENCE, AND MORE

Poster Hall D

2:30 PM - 4:00 PM

1081 ROUTINE LABORATORY DATA FOR ESTIMATING POPULATION VIRAL SUPPRESSION IN SOUTH AFRICA

Elton E. Mukonda, Nei-Yuan M. Hsiao, Landon Myer, Maia Lesosky

1082 POPULATION-BASED HIV IMPACT ASSESSMENTS AND VIRAL LOAD RESULTS: IMPLICATIONS FOR U=U

Gregory C. Chang, Trista Bingham, Katrina Sleeman, Irene Benech, Yen T. Duong, Jessica E. Justman, Suzue Saito, Melissa Metz, Anna Awor, Yohannes Mengistu, Judith Shang, Alice Maida, Nzali Kanchea, Optatus Malewo, Bharat S. Parekh

1083 VIRAL SUPPRESSION TRAJECTORIES AMONG HIGH-NEED PATIENTS IN LOW-BARRIER HIV CARE

Julia C. Dombrowski, Meena Ramchandani, McKenna C. Eastment, Matthew R. Golden

1084 ROUTINE PHARMACY REFILLS PREDICT WOMEN'S PLASMA ARV DETECTION AND VIRAL SUPPRESSION

Tamsin K. Phillips, Andrew D. Redd, Steven J. Reynolds, Nei-Yuan M. Hsiao, Gary Maartens, Elaine J. Abrams, **Landon Myer**

1085 HIGHER INCOME INEQUALITY IS ASSOCIATED WITH LOWER CUMULATIVE ANTIRETROVIRAL ADHERENCE

Frances Vernon, Mary Morrow, Samantha MaWhinney, Ryan P. Coyle, Stacey Coleman, Lucas Ellison, Jia-Hua Zheng, Lane R. Bushman, Jennifer J. Kiser, Omar Galarraga, Peter L. Anderson, Jose R. Castillo-Mancilla

1086 OPTIMIZATION OF HIV CLINIC INTAKE PROCESS TO REDUCE TIME TO VIRAL SUPPRESSION

Milana Vachuska, Kari Abulhosn, Craig Ballard, Jennifer Blanchard, Lucas Hill

1087 USE CASE FOR NEAR POINT OF CARE HIV VIRAL LOAD: TARGETED TESTING AT LARGE FACILITIES

Prakash Ganesh, Tom Heller, Boniface Chione, Joe Gumulira, Salem Guga, Shaikat Khan, Seth McGovern, Angellina Nhlema, Lyse Nkoma, Jilian Sacks, Clement Trapence, Hannock Tweya, Peter Ehrenkranz, Sam J. Phiri

1088LB 3- VS 6-MONTHLY DISPENSING OF ART IN COMMUNITY ART GROUPS: A CLUSTER-RANDOMIZED TRIAL

Geoffrey Fatti, Nicoletta Ngorima-Mabheha, **Ashraf Grimwood**, Eula Mothibi, Charles Chasela, Risa M. Hoffman, Owen Mugurungi, Tsitsi Apollo, Kudakwashe Takarinda

1089LB F/TAF VS F/TDF FOR PrEP: HOW MUCH IS "BETTER" WORTH?

Rochelle P. Walensky, Tim Horn, Nicole McCann, Kenneth Freedberg, A. David Paltiel

Poster P-U05 MODELING, COSTING, AND COST-EFFECTIVENESS

Poster Hall D

2:30 PM - 4:00 PM

1090 COST-EFFECTIVENESS OF POINT OF CARE VIRAL LOAD ADOPTION STRATEGIES IN SOUTH AFRICA

Sarah Girdwood, Thomas Crompton, Wendy Stevens, **Brooke E. Nichols**

1091 OUT-OF-POCKET SPENDING ON HEALTH FOR PEOPLE LIVING WITH HIV IN CÔTE D'IVOIRE

Rachel Stelmach, Miriam Rabkin, Kouame Abo, Irma Ahoba, Mahena G. Anago, Rodrigo Boccanera, Hermann Brou, Rebecca M. Flueckiger, Kieran Hartsough, Martin Msukwa, Jennifer M. Zech, Rachel Nugent

1092 ENDING THE HIV EPIDEMIC IN BALTIMORE: A MODELING STUDY

Anthony T. Fojo, Parastu Kasaie, David Dowdy, Maunank Shah

1093 WHAT WILL IT TAKE TO "END THE HIV EPIDEMIC"? AN ECONOMIC MODELING STUDY IN 6 CITIES

Bohdan Nosyk, Xiao Zang, Emanuel Krebs, Czarina N. Behrends, Carlos del Rio, Julia C. Dombrowski, Daniel J. Feaster, Matthew R. Golden, Brandon D. Marshall, Shruti H. Mehta, Lisa R. Metsch, Bruce R. Schackman, Steven Shoptaw, Steffanie A. Strathdee, for the Localized Economic Modeling Study Group

1094 ASSESSING THE IMPACT AND COST-EFFECTIVENESS OF HIV AND NCD INTEGRATED CARE IN KENYA

Parastu Kasaie, Brian Weir, Melissa Schnure, Chen Dun, Jeff Pennington, Yu Teng, Richard Wamai, Kipkoech Mutai, David Dowdy, Chris Beyrer

1095 ACHIEVING 95-95-95 MAY NOT BE ENOUGH TO END THE AIDS EPIDEMIC IN SOUTH AFRICA

Dobromir Dimitrov, James R. Moore, Deborah J. Donnell, Marie-Claude Boily

1096 HOW SHOULD WE PRIORITIZE AND MONITOR INTERVENTIONS TO END HIV EPIDEMIC IN AMERICA?

Kevin P. Delaney, Samuel Jenness, Jordan A. Johnson, Dawn K. Smith, Karen W. Hoover, Norma Harris, Elizabeth DiNenno

TUESDAY MARCH 10, 2020

Poster P-A02 HOST FACTORS AFFECTING HIV REPLICATION

Poster Hall A

2:30 PM - 4:00 PM

- 171 B CELLS DIRECT R5-TROPIC HIV INFECTION OF CCR5^{NEG} NAIVE CD4+ T CELLS**
Abigail D. Gerberick, Nicolas Sluis-Cremer, Paolo A. Piazza, Charles Rinaldo, Giovanna Rappocciolo, Diana Campbell Delucia
- 172 TFR REDUCE HIV-1 INFECTED TFH IN VITRO IN AN IL-2 DEPENDENT MANNER**
Matthew T. Ollerton, Elizabeth Connick
- 173 INCREASED BIRC2 AND BIRC3 TRANSCRIPTION ARE ASSOCIATED WITH INCREASED HIV PRODUCTION**
Joseph P. Casazza, Quang N. Nguyen, Avery N. Sukienik, David R. Ambrozak, Jianfei Hu, Sam Darko, Amy Ransier, Farida Laboune, Daniel Douek, Richard A. Koup
- 174 THE ARYL HYDROCARBON RECEPTOR NEGATIVELY REGULATES HIV REPLICATION IN TH17/TH22 CELLS**
Debashree Chatterjee, Yuwei Zhang, Huicheng Chen, Tomas Raul Wiche Salinas, Yasmine Smail, Jean-Pierre Routy, Petronela Ancuta
- 175 ANTI-HIV ACTIVITIES OF THE 12 INTERFERON-ALPHA SUBTYPES**
Alexandra Tauzin, Armando Espinosa, Olivia Blake, **Fabrizio Mammano**
- 176 LOOP 1 OF HUMAN APOBEC3C REGULATES THE ANTIVIRAL ACTIVITY AGAINST HIV-1**
Ananda A. Jaguva Vasudevan, Zeli Zhang, Kannan Balakrishnan, Christoph Gertzen, Ignacio G. Bravo, Gerald G. Schumann, Dieter Häussinger, Holger Gohlke, **Carsten Münk**
- 177LB IFITM3 REDUCES RETROVIRAL ENV FUNCTION AND IS COUNTERACTED BY GLYCOGAG**
Yadvinder S. Ahi, Diborah Yimer, Guoli Shi, **Saliha Majdoul**, Kazi Rahman, Alan Rein, Alex A. Compton

Poster P-B04 FACTORS AFFECTING HIV TRANSMISSION

Poster Hall A

2:30 PM - 4:00 PM

- 209 CHARACTERISATION OF POTENTIAL HIV TARGET MYELOID CELLS IN FORESKIN EPITHELIA**
Bokani Nleya, Yamkela Qumbelo, Nobomi Dontsa, Christen Da Costa, Kyle O'hagan, Clive M. Gray, Nyaradzo T. Chigorimbo-Tsikiwa
- 210 IMPACT OF CCL27 ON HIV-1 TARGET-CELL ABUNDANCE IN THE FORESKIN EPITHELIUM**
Shorok Sebaa, Kyle O'Hagan, Nyaradzo T. Chigorimbo-Tsikiwa, Sylvie Amu, Ramon Lorenzo-Redondo, Ann M. Carias, Francesca Chiodi, Gianguido C. Cianci, Thomas Hope, Clive Gray
- 211 IMPACT OF PENILE CIRCUMCISION ON HIV SUSCEPTIBILITY MARKERS IN THE URETHRA**
Ronald M. Galiwango, Daniel Park, Sanja Huibner, Abigail Onos, Maliha Aziz, Kelsey Roach, Aggrey Anok, James Nnamutete, Yahaya Isabirye, Deo Male, Godfrey Kigozi, Aaron Tobian, Jessica L. Prodger, Cindy M. Liu, Rupert Kaul, for the Rakai Immunomicrobiome Research Group

- 212 MEDICAL MALE CIRCUMCISION DISCIPLINES THE PENIS: UNDERSTANDING HIV SUSCEPTIBILITY**
Cosnet L. Rametse, Micheal Mndini, Sibulelo Mollie, Kyle O'hagan, Nyaradzo T. Chigorimbo-Tsikiwa, Gianguido C. Cianci, Thomas Hope, Clive M. Gray
- 213 CONDOMLESS RECEPTIVE ANAL INTERCOURSE IS ASSOCIATED WITH MARKERS OF MUCOSAL INJURY**
Colleen F. Kelley, Rama R. Amara, Veronika Fedirko, Yijuan Hu, Ilana Pollack, Rami Yacoub, Zhengyi Zhu, Roberd Bostick
- 214 IMMUNE CORRELATES OF ANORECTAL HIV SHEDDING IN MEN ON ANTIRETROVIRAL THERAPY**
Yoojin Choi, Irving Salit, Sarah Grech, Marie Sano, Edward Weiss, Rupert Kaul
- 215 HIV HIGHLY INFECTS GENITAL CD4+ T CELLS WITH REMODELING FOR SURVIVAL AND MIGRATION**
Tongcui Ma, Xiaoyu Luo, Ashley George, Trimble Spitzer, Linda Giudice, Warner C. Greene, Nadia R. Roan
- 216 VAGINAL BACTERIA REGULATE MICRO-RNAs TARGETING THE HIV-HOST INTERACTOME**
Raina Fichorova, Hidemi Yamamoto, Yashini Govender, Andrea R. Thurman, Sharon Anderson, Jennifer Deese, Charles S. Morrison, Pai-Lien Chen, Jonathan Dreyfuss, Robert Barbieri, Robert A. Salata, Gustavo Doncel
- 217 LONG-TERM SEX-DIFFERENCES IN OUTCOMES FOLLOWING ACUTE HIV-1 INFECTION**
Sophie Novelli, Pierre Delobel, Olivier Bouchaud, Veronique Avettand-Fenoel, Pascale Fialaire, Sylvie Abel, Faouzi Souala, François Raffi, Pilartxo Catalan, Laurence Weiss, Laurence Meyer, Cécile Goujard, for the ANRS Primo Cohort Study Group

Poster P-B05 HIV SUPPRESSION AND IMMUNE ACTIVATION

Poster Hall A

2:30 PM - 4:00 PM

- 218 PERSISTENT IMMUNE ACTIVATION IN HIV-1-TREATED SUBJECTS COMPARED WITH NON-HIV CONTROLS**
Sophie Novelli, Camille Lecuroux, Jacques Reynes, Agnes Villemant, Laurent Blum, Asma Essat, Veronique Avettand-Fenoel, Odile Launay, Jean-Michel Molina, Cécile Goujard, Christine Bourgeois, Laurence Meyer
- 219 SOCS PROTEINS AND JAK-STAT PATHWAY DYSREGULATION IN SIV-INFECTED SUPPRESSED MACAQUES**
Erandi E. Velarde De La Cruz, Lingyun Wang, Anna Aldovini
- 220 EFFECT OF HIV SUPPRESSION ON CYTOKINES IN BLOOD AND SEMINAL PLASMA**
Stephen A. Rawlings, Felix Torres, Andrea Lisco, Leonid Margolis, Sara Gianella, Christophe Vanpouille
- 221 MARKERS OF IMMUNE ACTIVATION AND FUNCTION IN OBESE AND NONOBESE SUBJECTS WITH HIV**
Stefano Savinelli, Emma Haran, Padraig McGettrick, Alejandro A. Garcia, Willard Tinago, Elena Alvarez-Barco, Eoin Feeney, Alan Landay, Patrick W. Mallon

222 RESIDUAL IMMUNE ACTIVATION IN AFRICANS ON ART PREDICTS CD4 RECOVERY AND VIRAL REBOUND

Stefanie Kroeze, Theresa M Rossouw, Helen Steel, Ferdinand Wit, Cissy Kityo, Margaret Siwale, Sulaimon Akanmu, Kishorchandra Mandaliya, Marleen de Jager, Pascale Ondoa, Peter Reiss, Tobias F. Rinke de Wit, Neeltje A. Kootstra, **Raph L. Hamers**, for the PanAfrican Studies to Evaluate Resistance (PASER)

Poster P-B06 HIV AND THE MICROBIOME
Poster Hall A

2:30 PM - 4:00 PM

223 HIV-RELATED MICROBIOME, PREVIOUS IMMUNODEFICIENCY, AND EXCESS METABOLIC RISK

Marco Gelpi, **Beate Vestad**, Simen H. Hansen, Kristian Holm, Ninna Drivsholm, Alexandra Goetz, Hedda Hoel, Nikolai Kirkby, Birgitte Lindegaard, Anne-Mette Lebech, Jan Gerstoft, Jens D. Lundgren, Johannes R. Hov, Susanne D. Nielsen, Marius Trosleid

224 ALTERED GUT MICROBIOTA AND HOST LIPID METABOLITE PROFILES IN HIV INFECTION

Zheng Wang, Mykhaylo Usyk, Yunping Qiu, Simin Hua, Tao Wang, Xiaonan Xue, Irwin J. Kurland, Alan Landay, Kathryn Anastos, Robert C. Kaplan, Robert Burk, Qibin Qi

225 ART REVERSES LOSS OF DIVERSITY & RICHNESS OF INTESTINAL MICROBIOME IN HIV+ NAIVE

Angelica I. Cruz-Lebron, Ramona M. Johnson, Danielle Labbato, Theresa O. Rodgers, Julia C. Kosco, Grace A. McComsey, Alan D. Levine

226 MICROBIOTA MODULATES HIV TARGET-CELL LEVELS AT SITES OF MUCOSAL HIV ACQUISITION

Angela Wahl, Baolin Liao, Cara Richardson, Morgan Chateau, Wenbo Yao, Allison Rogala, R. Balfour Sartor, J. V. Garcia

227 KEY FEATURES OF GUT-MICROBIAL DYSBIOSIS IDENTIFIED IN ALCOHOLIC HIV-1 PATIENTS

Richa Singhal, Kendall Stocke, Smita Ghare, Manicka Vadhanam, Dmitry Lioznov, Elena Blokhina, Evgeny Krupitsky, Kaku So-Armah, Natalia Gnatenko, Jeffrey H. Samet, Kendall J. Bryant, Robert L. Cook, Matthew Freiberg, **Shirish A. Barve**

228 PREVOTELLA IS RELATED TO A DYSREGULATION OF IFN AND T-CELL RESPONSE IN HIV INFECTION

Claudia Pinacchio, Giuseppe P. Innocenti, Letizia Santinelli, Eugenio Nelson Cavallari, Federica Frasca, Carolina Scagnolari, Guido Antonelli, Claudio M. Mastroianni, Gabriella d'Ettorre

229 ANTIINFLAMMATORY EFFECT OF METFORMIN ON MICROBIOTA IN NONDIABETIC PEOPLE WITH HIV

Stéphane Isnard, John Lin, Brandon Fombuena, Thibaut V. Varin, André Marette, Delphine Planas, Meriem Messaoudene, Bertrand Routy, Claude P. Van Der Ley, Ido Kema, Petronela Ancuta, Jonathan Angel, Jean-Pierre Routy

230 FUNCTIONAL RESTORING OF GUT BARRIER AFTER MODULATION OF INTESTINAL MICROBIOTA

Letizia Santinelli, Ranieri Verin, Giuseppe P. Innocenti, Claudia Pinacchio, Eugenio Nelson Cavallari, Gabriella De Girolamo, Anna Maria Pronio, Guido Antonelli, Giancarlo Ceccarelli, Carolina Scagnolari, Vincenzo Vullo, Claudio M. Mastroianni, Giacomo Rossi, Gabriella d'Ettorre

Poster P-C01 TUMOR VIRUSES: HPV, EBV, AND KSHV**Poster Hall A****2:30 PM - 4:00 PM**

- 254 DECREASED EXPRESSION OF MUCOSAL TYPE I IFN RESPONSE IN HPV-INFECTED MSM PATIENTS**
Letizia Santinelli, Alessandra Pierangeli, Eugenio Nelson Cavallari, Paolo Gozzo, Giancarlo Ceccarelli, Claudio M. Mastroianni, Raphael Viscidi, Guido Antonelli, Gabriella d'Ettorre, Carolina Scagnolari
- 255 HIGH-RISK HUMAN PAPILLOMAVIRUS ONCOPROTEINS DYSREGULATE INTERLEUKIN-1 SIGNALING**
 Hee W. Kim, Lk Metthew Lam, Pavithra Rajagopalan, Devraj Basu, **Elizabeth A. White**
- 256 25-HYDROXYCHOLESTEROL INHIBITS HERPESVIRUSES BY ACTIVATING INFLAMMATORY PATHWAYS**
Anna Serquina, Takanobu Tagawa, Joseph Ziegelbauer
- 257 ANAL HPV INFECTIONS DO NOT ASSOCIATE WITH RECTAL HIV-RNA SHEDDING IN HIV+ PATIENTS**
Alberto Borghetti, Matteo B. Whalen, Paola Cattani, Veronica De Simone, Simona Marchetti, Marta Goglia, Francesca Lombardi, Davide Moschese, Gianmaria Baldin, Antonella Cingolani, Carlo Ratto, Maurizio Zazzi, Simona Di Giambenedetto

Poster P-D04 IMMUNOLOGY AND HOST GENETICS**Poster Hall A****2:30 PM - 4:00 PM**

- 272 ASSOCIATION OF HIV AND HOST GENETIC VARIANTS IN ANTIRETROVIRAL THERAPY-NAIVE PERSONS**
Migle Gabrielaite, Adrian G. Zucco, Marc Bennedbaek, Christina Ekenberg, Virginia L. Kan, Giota Touloumi, Linos Vandekerckhove, Dan Turner, James Neaton, H. Clifford Lane, Jens D. Lundgren, Rasmus L. Marvig, for the INSIGHT START Trial Group
- 273 CXCR5 EXPRESSION ON HUMAN CD8+ T CELLS IS TIGHTLY REGULATED BY EPIGENETIC MECHANISMS**
 Funsho Ogunshola, Werner Smidt, Veron Ramsuran, Thumbi Ndungú, Bruce D. Walker, Tulio de Oliveira, **Zaza Ndhlovu**
- 274 ADDITIVE DETRIMENTAL EFFECT OF B*35/39 TYPES IN A LARGE MEXICO/CENTRAL AMERICA COHORT**
Humberto Valenzuela Ponce, Maribel Soto-Nava, Ingrid Y. Escobar-Urias, Rodolfo Pinzón-Meza, Juan Miguel Pascale, Yamitzel Zaldivar, Guillermo Porras-Cortés, Carlos Quant-Durán, Rita Isabel Meza Martínez, Elsa Y. Palou, Marvin Manzanero, Rolando A. Cedillos, Santiago Avila-Rios, Gustavo Reyes-Terán, for the Mesoamerican HIV Project Group
- 275 NATURAL RESISTANCE TO HIV-1 CORRELATES WITH IFNA-CONTROLLED STEROL METABOLISM**
Mara Biasin, Irma Saulle, Salomè Valentina Ibba, Claudio Fenizia, Francesca Vichi, Sergio Lo Caputo, Daria Trabattoni, Mario Clerici

Poster P-D05 IMMUNOTHERAPY FOR HIV INFECTION**Poster Hall A****2:30 PM - 4:00 PM**

- 276 BASELINE INDUCIBLE HIV P24 INFORMS VIRAL CONTROL DURING INTERFERON- α MONOTHERAPY**
Livio Azzoni, Emmanouil Papasavvas, Pablo Tebas, Karam Mounzer, Jay Kostman, Ian Frank, Bonnie J. Howell, Daria Hazuda, Daniel Holder, Nicolas Chomont, Costin Tomescu, Michael R. Betts, Leticia Kuri Cervantes, Luis J. Montaner

- 277 LOSARTAN DOES NOT IMPROVE LYMPHATIC TISSUE FIBROSIS OR T-CELL RECOVERY IN HIV**
Jason V. Baker, Julian Wolfson, Caryn G. Morse, Frank S. Rhame, Caitlin David, Jodi Anderson, Gary Collins, Greg Knowlton, Jennifer Czachura, Cavan Reilly, Jeffrey Chipman, Gregory Beilman, Russell Tracy, Irini Sereti, Timothy Schacker
- 278 IL-21 ALTERS TFH DYNAMICS, IMPROVES FLU VACCINE RESPONSE IN OLD SIV+ NHPs UNDER ART**
Daniel Kvistad, Suresh Pallikkuth, Tirupataiah Sirupangi, Kyle Russell, Rajendra Pahwa, Constantinos Petrovas, Francois Villingier, Savita Pahwa
- 279 BUTYROPHILINS: NOVEL IMMUNE CHECKPOINT TARGETS FOR HIV**
Sai Vemula, Morgan Monslow, Guoxin Wu, Luca Micci, Laura Garvin-Queen, Min Xu, Lei Ba, Shuo Quan, Yvonne Meng, Steve Carroll, Hussam Shaheen, Daniel Gorman, Daria Hazuda, **Bonnie J. Howell**
- 280 BISPECIFIC Au NANOPARTICLES FOR THE ENHANCEMENT OF THE NK IMMUNE RESPONSE AGAINST HIV**
Antonio Astorga Gamaza, Mireya L. Borrajo, Carla Serra Peinado, Laura Luque-Ballesteros, Oscar Blanch-Lombarte, Julia G Prado, Juan Lorente, Félix Pumarola, Marc Pellicer, Vicenç Falcó, Meritxell Genescà, Víctor Puentes, María J. Buzón
- 281 INTERFERON- α MODULATES THE HOST GLYCOSYLATION MACHINERY DURING TREATED HIV INFECTION**
Leila B. Giron, Florent Colomb, Emmanouil Papasavvas, Livio Azzoni, Xiangfan Yin, Alitzel Anzurez, Matthew Fair, Karam Mounzer, Jay Kostman, Pablo Tebas, Una O'Doherty, Qin Liu, Michael R. Betts, Luis J. Montaner, Mohamed Abdel-Mohsen
- 282 PHASE I/II RANDOMIZED STUDY: THERAPEUTIC DENDRITIC CELL VACCINE PLUS PEGYLATED INF- α**
Lorna Leal, Elvira Couto Jaime, Yolanda Romero, L Miralles, Tania González, M.J Maleno, Blanca Paño, Pich Judit, Nuria Climent, Sonsoles Sánchez-Palomino, Carlos Nicolau, Jose M. Gatell, Felipe Garcia, **Montserrat Plana**, for the DCV-3/RISVAC04 Study Group
- 283 PERSISTENT ANTIVIRAL EFFECT INDUCED BY TYROSINE KINASE INHIBITORS**
Lorena Vigón, Sara Rodríguez-Mora, Elena Mateos, Valentín García, Juan Ambrosioni, Virginia Sandonís, Guiomar Bautista, Pilar Pérez-Romero, José Alcamí Pertejo, Juan Luis Steegmann, Jose M. Miro, Vicente Planelles, María Rosa López-Huertas, Mayte Coiras
- 284 RATIONAL DONOR FECAL MICROBIOTA TRANSPLANTATION IN HIV (REFRESH STUDY)**
Sergio Serrano-Villar, Alba Talavera, Nadia Madrid-Elena, José A. Pérez-Molina, María José Gosalbes, Shrish Budree, Alejandro Vallejo, Ryan J. Elliott, Fernando Dronda, Carolina Gutiérrez, María J. Vivancos-Gallego, Javier Martínez-Sanz, Sabina Herrera, Raquel Ron, Santiago Moreno
- 285 METHOTREXATE BLOCKS PROLIFERATION NOT INFLAMMATION TO MODULATE IMMUNITY**
Michael L. Freeman, Daniela Moisi, Brian Clagett, Leonard Calabrese, Benigno Rodriguez, Michael M. Lederman
- 286LB ENHANCED COMPLEMENT ACTIVITY DOES NOT IMPROVE PROTECTION IN SHIV-CHALLENGED MACAQUES**
David A. Spencer, Benjamin Goldberg, Jérémy Dufloo, Timothée Bruel, Olivier Schwartz, Margaret Ackerman, **Ann J. Hessel**

Poster P-E05 ESTABLISHMENT OF THE HIV RESERVOIR**Poster Hall A****2:30 PM - 4:00 PM**

- 327 HIV DIRECTLY INFECTS RESTING MEMORY CD4 T CELLS**
Rodrigo Matus-Nicodemos, David R. Ambrozak, Sam Darko, Amy Ransier, Daniel Douek, Richard A. Koup
- 328 ESTABLISHMENT OF THE HIV-1 DNA RESERVOIR MIRRORS THE REPLICATION-COMPETENT RESERVOIR**
Olivia D. Council, Melissa-Rose Abrahams, Sarah B. Joseph, Nigel Garrett, Matthew Moeser, Shuntai Zhou, Lynn Tyers, David Matten, Colin Anthony, Sergei L. Kosakovsky Pond, Nancie Archin, David M. Margolis, Salim S. Abdool Karim, Ronald Swanstrom, Carolyn Williamson
- 329 CD127+ LYMPHOID MEMORY CD4+ T CELLS PREFERENTIALLY SUBJECT TO LATENT HIV INFECTION**
 Feng Hsiao, **Julie Frouard**, Andrea Gramatica, Guorui Xie, Roland Schwarzer, Xiaoyu Luo, Marielle Cavrois, Warner C. Greene, Nadia R. Roan
- 330 UNPRIMED CD8+ LYMPHOCYTES PROMOTE THE ESTABLISHMENT OF HIV LATENCY IN CD4+ T CELLS**
 Lavinia Franchitti, Zhan Zhang, Jack Yoon, Mirko Paiardini, Guido Silvestri, **Deanna Kulpa**
- 331 THE HIV ANTISENSE TRANSCRIPT AST INDUCES VIRAL LATENCY VIA SEVERAL SILENCING PATHWAYS**
Rui Li, Zahra Gholizadeh, Kaveh Daneshvar, Michelle Pleet, Fatah Kashanchi, Luigi Marchionni, Alan Mullen
- 332 LUNG DOUBLE NEGATIVE T CELLS HARBOR HIV IN ACUTE INFECTION AND DURING LONG-TERM ART**
Oussama Meziane, Syim Salahuddin, Tram Pham, Omar Farnos, Amelie Pagliuzza, Nicolas Chomont, Elaine Thomson, Ron Olivenstein, Marianna Orlova, Erwin Schurr, Eric A. Cohen, Cecilia Costiniuk, Mohammad-Ali Jenabian

Poster P-E06 CURE STRATEGIES: HUMAN AND ANIMAL STUDIES**Poster Hall A****2:30 PM - 4:00 PM**

- 333 EFFECT OF TAMOXIFEN ON VORINOSTAT-INDUCED HIV RNA EXPRESSION IN WOMEN ON ART (A5366)**
Eileen P. Scully, Athe Tsibris, Evgenia Aga, Qing Ma, Kate Starr, Kathleen E. Squires, Steven G. Deeks, Elizabeth Connick, Monica Gandhi, Ronald Bosch, Nancie Archin, Jonathan Karn, Daniel R. Kuritzkes, Rajesh T. Gandhi, for the ACTG A5366 Study Team
- 334 EFFECTS OF IMMUNE CHECKPOINT THERAPY ON LATENT HIV IN PEOPLE WITH HIV AND MALIGNANCY**
Jillian S. Lau, James McMahon, Ajantha Solomon, Chris Y. Chiu, Celine Gubser, Jennifer M. Zerbato, Jill Garlick, Ashanti Dantanarayana, Socheata Chea, Surekha Tennakoon, Vincent Morcilla, Sarah Palmer, Sharon R. Lewin, Thomas A. Rasmussen
- 335 ABX464 DECREASES THE TOTAL HIV RESERVOIR AND HIV TRANSCRIPTION INITIATION IN VIVO**
Sara Moron-Lopez, Silvia Bernal, Jean-Marc Steens, Joseph K. Wong, Javier Martinez-Picado, Steven A. Yukl

- 336

ATTACKING LATENT HIV WITH CONVERTIBLE CAR-T CELLS, A MODULAR KILLING PLATFORM
Eytan Herzig, Kaman Chan Kim, Thomas A. Packard, Noam Vardi, Roland Schwarzer, Andrea Gramatica, Steven G. Deeks, Steven R. Williams, Kyle Landgraf, Nigel Killeen, David W. Martin, Leor Weinberger, Warner C. Greene
- 337

CAR-T CELLS AT 15 YEARS: PERSISTENCE OF CD4-ZETA TRANSGENE AND EFFECT ON RESERVOIR
Naomi E. Aronson, James L. Riley, Linda Jagodzinski, Sodsai Tovanabutra, Denise C. Hsu, Lydie Trautmann, Anwar E. Ahmed, David Wallace, Simon Lacey, Bruce L. Levine, Carl H. June, Julie Ake, Wendy B. Bernstein
- 338

PHASE I STUDY OF GENE-MODIFIED CD4+ CELLS AND CD34+ CELLS W/VO BUSULFAN IN HIV+ ADULT
Ronald T. Mitsuyasu, Jay Lalezari, Bryan Burke, Mollie Barrett, Jeremy Casey, Alison Knop, Suparna Mishra, Jeffrey Ahlers, Louis Breton, Orit Wolstein, Jeffrey Bartlett, W. David Hardy, Louise Evans, Geoffrey Symonds
- 339

HIV-SPECIFIC T-CELL RESPONSES IN AN HIV-POSITIVE COHORT POST ALLO-HSCT
Johanna M. Eberhard, Mathieu Angin, Caroline P. Passaes, Maria Salgado, Valérie Monceaux, Gero Hütter, Pascual Balsalobre, Mi Kwon, Jose Luis Diez, Monique Nijhuis, Annemarie Wensing, Javier Martinez-Picado, Julian Schulze Zur Wiesch, **Asier Saez-Cirion**, for the IciStem Study Group
- 340

MYCOPHENOLATE MOFETIL FOR DEPLETION OF THE HIV RESERVOIR
Joshua T. Schiffer, Claire Levy, Sean Hughes, Mel Padullo, Katrina Puckett, Eric Helgeson, Robert D. Harrington, Florian Hladik
- 341

VIRAL RESERVOIR DISRUPTION WITH PANOBINOSTAT AND IFN-A: FIRST RESULTS
Ciputra A. Hartana, Theresa Flynn, Amy Sbrolla, Carina Bannach, Jane Blackmer, Joshua Chevalier, Pilar Garcia Broncano, Xu G. Yu, Rajesh T. Gandhi, Daniel R. Kuritzkes, Mathias Lichterfeld
- 342

IAP ANTAGONISM PROMOTES PD-1 BLOCKADE-MEDIATED ELIMINATION OF HIV IN HUMANIZED MICE
Michael Bobardt, Joseph Kuo, Udayan Chatterji, Norbert Wiedemann, Gregoire Vuagniaux, **Philippe Gallay**
- 343

IMPACT OF GS-986, PGT121 AND N6-LS ON CNS IMMUNE ACTIVATION IN SHIV-INFECTED MACAQUES
Denise C. Hsu, Decha Silsorn, Rawiwan Imerbsin, Amarendra Pegu, Dutsadee Inthawong, Jumpol Sopanaporn, Alexandra Schuetz, James Demarest, Merlin L. Robb, John R. Mascola, Romas Geleziunas, Richard A. Koup, Dan Barouch, Nelson L. Michael, Sandhya Vasan
- 344

BRENTUXIMAB VEDOTIN REDUCES CD30 EXPRESSION AND GUT HIV DNA LEVELS IN HUMANIZED MICE
Cecilia Prator, Louise Hogan, Shreya Kumar, Cassandra Thanh, Serah Tanno, Tony Pan, Erica Gibson, Norman G. Jones, Jeffrey M. Milush, Vladimir Vrbanc, Timothy J. Henrich
- 345LB

PGT121 AND VESATOLIMOD IN CHRONICALLY TREATED SHIV-INFECTED RHESUS MONKEYS
Dan Barouch, Noe Mercado, Abishek Chandrashekar, Erica Borducchi, **Joseph Nkolola**, Brian A. Carr, Nathan D. Thomsen, Romas Geleziunas

346LB SUSTAINED HIV REMISSION IN THE LONDON PATIENT: THE CASE FOR HIV CURE

Ravindra K. Gupta, Dimitra Peppas, Matthew Pace, John P. Thornhill, Eleni Nastouli, Paul Grant, Laura McCoy, Andrew Innes, Simon Edwards, Annemarie Wensing, Monique Nijhuis, Javier Martinez-Picado, John Frater, Eduardo Olavarria, for the CHERUB and IciStem Study Groups

347LB SUSTAINED REMISSION IN A 4-YEAR-OLD HIV-INFECTED CHILD TREATED IN FIRST YEAR OF LIFE

Gloria P. Heresi, Douglas D. Richman, Roukaya Al Hammoud, Gilhen Rodriguez, Norma Perez, James R. Murphy

348LB CCR5Δ32 SCT-INDUCED HIV REMISSION: TRACES OF HIV DNA BUT FADING IMMUNE REACTIVITY

Bjoern-Erik O. Jensen, Dieter Häussinger, Elena Knops, Annemarie Wensing, Javier Martinez-Picado, Monique Nijhuis, Maria Salgado, Jacob D. Estes, Nadine Lübke, Rolf Kaiser, Thomas Harrer, Johannes Fischer, Julian Schulze zur Wiesch, Johanna M. Eberhard, Guido Kobbe

349LB EDITING OF SIV IN NONHUMAN PRIMATES BY CRISPR-CAS9 IN VIRAL RESERVOIRS

Jennifer Gordon, Tricia H. Burdo, Pietro Mancuso, Chen Chen, Rafal Kaminski, Mark G. Lewis, Kamel Khalili

350LB EFFICIENT DELETION OF CCR5 PROVIDES COMPLETE PROTECTION AGAINST HIV IN XENOGRAFT MICE

Daniel Claiborne, Christian L. Boutwell, Zachary Detwiler, Tao Chen, Radiana Trifonova, David T. Scadden, Tony W. Ho, Todd M. Allen

Poster P-E07 HIV CURATIVE STRATEGIES: IN VITRO STUDIES**Poster Hall A****2:30 PM - 4:00 PM****351 ANTAGONISM OF PPARG FOR TH17 MUCOSAL IMMUNITY RESTORATION AND HIV-RESERVOIR PURGING**

Delphine Planas, Yuwei Zhang, **Augustine Fert**, Julia M. Ruiz, Jean-Phillipe Goulet, Laurence Raymond Marchand, Huicheng Chen, Tomas Raul Wiche Salinas, Annie Gosselin, Wilfried-Wenceslas Bazie, Caroline Gilbert, Eric A. Cohen, Jean-Pierre Routy, Nicolas Chomont, Petronela Ancuta

352 A JAK1 INHIBITOR SUPPRESSES HIV-1-DRIVEN ABERRANT HOST GENE TRANSCRIPTION

Yang-Hui Yeh, Katharine Jenike, Rachela Calvi, Jennifer Chiarella, Ya-Chi Ho

353 DEVELOPMENT OF A PSEUDOVIRUS DELIVERY SYSTEM FOR HIV-1 ELIMINATION

Jonathan Herskovitz, Mahmudul Hasan, Wilson Blomberg, Insiya Mukadam, Jatin Machhi, Maxim Oleynikov, Kamel Khalili, Bhavesh D. Kevadiya, Benson Edagwa, Channabasavaiah Gurumurthy, Howard E. Gendelman

354 ROMIDEPSIN COMBINED WITH PRO-APOPTOTIC DRUGS REDUCES INTEGRATED HIV DNA

Youry Kim, Ajantha Solomon, Jennifer M. Zerbato, Paul Cameron, James McMahon, Jenny L. Anderson, Sharon R. Lewin, for the Lewin Laboratory

355 NOD2 AND TLR8 AGONISTS ENHANCE IL-15-MEDIATED ACTIVATION OF HIV EXPRESSION

Jasmine Kaur, Jay Lalezari, Rebecca Hoh, Steven G. Deeks, Wade Blair, Tomas Cihlar, Jeffrey Murry

- 356

HIV-1 GENE EXPRESSION DURING REVERSAL OF LATENCY USING RNA-Seq WITH PROBE ENRICHMENT
Phillip Tomezsko, Silvi Rouskin, Daniel R. Kuritzkes, Athe Tsibris
- 357

SURFACE ENGINEERING OF EXTRACELLULAR VESICLES TO TARGET HIV PERSISTENCE
Pooja Bhardwaj, Rafal Kaminski, Shivani Desai, Ali Danesh, Amir Afshari, Nicholas Yam, Kamel Khalili, Archana Gupta, Satish K. Pillai
- 358

IN VITRO MODEL FOR STUDYING T-CELL PROLIFERATION/ SURVIVAL DRIVEN BY HIV INTEGRATION
Machika Kaku, John K. Yoon, John M. Coffin
- 359LB

AMINOBISPHOSPHONATES REVERSE LATENCY IN HIV-SEROPOSITIVE INDIVIDUALS
Sara Selitsky, Matthew Clohosey, Marie Anne Iannone, Susana Garcia-Recio, Jennifer Kirchherr, Carolina Garrido, Yinyan Xu, Shahryar Samir, Ann Marie Weideman, Michael Hudgens, Nilu Goonetilleke, Joel Parker, Natalia Soriano-Sarabia

Poster P-F02 NEUROCOGNITION: BIOMARKERS, THERAPIES, AND OUTCOMES

Poster Hall A**2:30 PM - 4:00 PM**

- 401

COGNITIVE IMPAIRMENT AMONG HIV-INFECTED MEN WITH LONGITUDINAL FOLLOW-UP
Zheng Wang, Yu Cheng, Eric C. Seaberg, James T. Becker, for the Neuropsychology Working Group of the Multicenter AIDS Cohort Study
- 402

PLASMA CITRATE AND SUCCINATE PREDICT NEUROCOGNITIVE IMPAIRMENT IN OLDER PWH
Corrilynn O. Hileman, Sausan Azzam, Kunling Wu, Katherine Tassiopoulos, Roger Bedimo, Ronald J. Ellis, Kristine M. Erlandson, Asha R. Kallianpur, Susan L. Koletar, Alan Landay, Frank J. Palella, Muralidhar Pallaki, Babafemi Taiwo, Charles L. Hoppel, Robert Kalayjian
- 403

AGE-ASSOCIATED DEMENTIA AMONG OLDER PEOPLE WITH HIV IN THE US: A MODEL-BASED ANALYSIS
Emily P. Hyle, Julia H. Foote, Shibani S. Mukerji, Keri N. Althoff, Paul E. Sax, Krishna P. Reddy, Liyang Yu, Leah H. Rubin, Kenneth Freedberg, Milton C. Weinstein, Anand Viswanathan, Lee H. Schwamm, Fatma Shebl, Rochelle P. Walensky
- 404

A RANDOMISED CONTROLLED TRIAL ON THE EFFECT OF B VITAMINS ON NEURONAL INJURY IN PLHIV
Erika Ahlgren, Lars Hagberg, Lars-Magnus Andersson, Aylin Yilmaz, Åsa Mellgren, Kaj Blennow, Henrik Zetterberg, Magnus Gisslén
- 405

CONSERVED CSF HIV ANTIBODY RESPONSE IN PATIENTS WITH DIVERSE NEUROLOGIC PHENOTYPES
Isobel A. Hawes, Ryan Schubert, Akshaya Ramesh, Gavin Sowa, Joanna Hellmuth, Magnus Gisslén, Richard W. Price, Michael Wilson
- 406

A RANDOMIZED TRIAL OF ADJUNCTIVE TELMISARTAN TO REDUCE CNS INFLAMMATION IN ACUTE HIV
Michael J. Peluso, Eugène Kroon, Phillip Chan, Somporn Tipsuk, Carlo Sacdalan, Jennifer Chiarella, Magnus Gisslén, Henrik Zetterberg, Rob Gorelick, Duanghathai Suttichom, Napapon Sailasuta, Robert Paul, Jintanat Ananworanich, Serena S. Spudich, for the RV408/SEARCH 018 Study Team

- 407 INFLAMMATORY MARKERS SHOW DYNAMIC CHANGES IN ACUTE HIV AND PREDICT COGNITIVE OUTCOMES**
August A. Longino, Javier R. Lama, Peter Brandes, Eduardo Ruiz, Cecilia Correa, Serena S. Spudich, Christopher D. Pilcher, Kevin Robertson, Rachel A. Bender Ignacio, Ann Duerr
- 408 PROTEOMIC CHARACTERIZATION OF CSF EXTRACELLULAR VESICLES IN HIV PATIENTS**
Debjani Guha, David Lorenz, Vikas Misra, Sukrutha Chettimada, Susan Morgello, Dana H. Gabuzda
- 409 EFFECT OF NON-HIV DRUGS ON NEUROCOGNITIVE DOMAINS IN A WELL-TREATED HIV POPULATION**
Bernadette Jakeman, Alexandra Scherrer, Katharine Darling, Isaure Nadin, Barbara Hasse, Christoph Hauser, Philip E. Tarr, Alexandra Calmy, Ursula Kunze, Marcel Stoeckle, Patrick Schmid, Manuel Battegay, Renaud Du Pasquier, Matthias Cavassini, Catia Marzolini
- 410 ANTICHOLINERGIC DRUG USE IN PATIENTS $\geq$ 65 YEARS OLD IN THE SWISS HIV COHORT STUDY**
Bernadette Jakeman, Alexandra Scherrer, Huldrych F. Günthard, Matthias Cavassini, Anna Hachfeld, Alexandra Calmy, Patrick Schmid, Enos Bernasconi, Manuel Battegay, Catia Marzolini, for the Swiss HIV Cohort Study
- 411 BIOMARKERS OF NUCLEIC ACID OXIDATION AND NEURODEGENERATION IN CSF IN PWH**
Ronald J. Ellis, David J. Moore, Erin Sundermann, Robert K. Heaton, Todd Hulgán, David C. Samuels, Sanjay R. Mehta, Scott L. Letendre
- 412 PREDICTIVE VALIDATION OF AN UGANDAN INFANT EYE-TRACKING TEST OF MEMORY OF HUMAN FACES**
Michael J. Boivin, Itziar Familiar-Lopez, Alla Sikorskii, Ronak Chhaya, Kwabena Nkansah-Amankra, Aatirah Holmes, Jonathan Weiss, Victoria Seffren, Ethan G. Arima, Ojuka J. Caesar, Noeline Nakasujja
- 413 LOW NEUROSTEROIDS IDENTIFIES A BIOLOGICAL SUBTYPE OF DEPRESSION IN PEOPLE WITH HIV**
Shibani S. Mukerji, Vikas Misra, David Lorenz, Sukrutha Chettimada, Kiana Keller, Scott L. Letendre, Ronald J. Ellis, Susan Morgello, Robert A. Parker, Dana H. Gabuzda
- 414 ANTICHOLINERGIC BURDEN IS ASSOCIATED WITH DEPRESSIVE SYMPTOMS IN PERSONS WITH HIV**
Asante R. Kamkwala, Qing Ma, Maile Y. Karris, Erin Sundermann, Ronald J. Ellis, David J. Moore, Leah H. Rubin, Scott L. Letendre
- 415 ASSOCIATION BETWEEN LUNG AND COGNITIVE DYSFUNCTION IN MEN WITH HIV INFECTION**
Yoseob J. Hwang, Seyed M. Nouraie, James T. Becker, Dong Chang, Audrey French, Ken M. Kunisaki, Andrew Levine, Eileen Martin, Meredith C. McCormack, Ned Sacktor, Andrea M. Weinstein, Alison Morris
- 416 MITOCHONDRIAL DNA, COGNITIVE FUNCTION, AND FRAILTY IN OLDER ADULTS WITH HIV**
Carrie Johnston, Michelle Rice, Heather Derry, Chelsie Burchett, Eugenia Siegler, Mary Choi, Marshall Glesby
- 417 IMPACT OF WEB-BASED COGNITIVE TRAINING ON WORKING MEMORY IN COCAINE USERS WITH HIV**
Sheri L. Towe, Yunan Xu, Christina S. Meade

418 RETINAL THINNING CORRELATES WITH BRAIN ATROPHY IN WELL-CONTROLLED HIV INFECTION

Bryan Smith, Katrina Geannopoulos, Ramiro Maldonado, Tianxia Wu, Elizabeth F. Horne, Lillian Ham, Joseph Snow, Govind Nair, Daniel S. Reich, Chuen-Yen Lau, Emily Chew, Avindra Nath

Poster P-F03 CNS RESERVOIRS, ESCAPE, AND IMMUNOLOGY

Poster Hall A

2:30 PM - 4:00 PM

419 GUT MICROBIOTA REGULATE IMMUNE CELL HOMEOSTASIS IN THE CNS

Angela Wahl, Baolin Liao, Cara Richardson, Wenbo Yao, Allison Rogala, R. Balfour Sartor, J. V. Garcia

420 CSF1R INHIBITION TARGETS CNS MACROPHAGES IN AN SIV/MACAQUE MODEL OF HIV CNS DISEASE

Audrey C. Knight, Samuel A. Brill, Megan E. McCarron, Suzanne E. Queen, Lisa Mangus, Kelly A. Metcalf Pate, Sarah E. Beck, Joseph Mankowski

421 METAGENOMIC NEXT-GENERATION SEQUENCING FOR DIAGNOSIS OF CNS INFECTION IN PLWH

Jun Chen, Renfang Zhang, Li Liu, Tangkai Qi, Zhenyan Wang, Wei Song, Yang Tang, Jianjun Sun, Hongzhou Lu

422 EXPRESSION OF HIV-1 INTRON-CONTAINING RNA IN MICROGLIA INDUCES INFLAMMATORY RESPONSES

Hisashi Akiyama, Sallieu Jalloh, Seonmi Park, Gustavo Mostoslavsky, Rahm Gummuluru

423 ACCELERATING CELLULAR SENESENCE IN THE BRAIN OF SIV-INFECTED YOUNG RHESUS MACAQUES

Fei Wu, Robert Blair, Binhua Ling

424 CNS HIV BEARS ENVELOPE MARKERS CONSISTENT WITH T-CELL ORIGIN IN THE FACE OF ART

Gila J. Lustig, Sandile Cele, Farina Karim, Yashica Ganga, Khadija Khan, Bernadett Gosnell, Mahomed-Yunus Moosa, Rohen Harrichandparsad, Suzaan Marais, Ravindra K. Gupta, Tulio de Oliveira, Katya Govender, John Adamson, Vinod B. Patel, **Alex Sigal**

425 HIV-1 VIRAL DIVERSITY AND RESISTANCE IN CENTRAL NERVOUS SYSTEM BY DEEP SEQUENCING

Eleni Giatsoy, Basma Abdi, Isabelle Plu, Nathalie Desiré, Romain Palich, Danielle Seilhean, Vincent Calvez, Anne-Geneviève Marcelin, **Aude Jary**

426 HIV DIVERSITY IN CSF AND PLASMA OF INDIVIDUALS WITH HIV AND CRYPTOCOCCAL MENINGITIS

Nametso Kelentse, Sikhulile Moyo, Mompoti L. Mogwele, Kwana Lechiile, Kaelo Seatla, Natasha O. Moraka, Kesaobaka Molebatsi, Tshepo B. Leeme, David Lawrence, Rosemary Musonda, Ishmael Kasvosve, Thomas S. Harrison, Joseph N. Jarvis, Simani Gaseitsiwe

427 HERPES ZOSTER IN HIV: THE ROLE OF PLEOCYTOSIS IN SECONDARY CSF ESCAPE AND DISCORDANCE

Lars Hagberg, Richard W. Price, **Magnus Gisslén**

428 BRAIN HIV LATENCY BIOMARKERS

Thomas Gates, John Ng, Tan-Nia Koh, Selviana Dharmadi, Sarah Palmer, Vincent Morcilla, Tory Johnson, Avindra Nath, Lucette A. Cysique, **Bruce J. Brew**, for the CHIEF Group

429LB HIGH LEVELS OF CELL-ASSOCIATED HIV-1 TRANSCRIPTION IN CSF DESPITE EFFECTIVE cART

Kazuo Suzuki, John Zaunders, Angelique Levert, Chin-Shiou Huang, Takaomi Ishida, Thomas Gates, Caroline Rae, Lauriane Juge, Lucette A. Cysique, John Ng, Bruce J. Brew

430 PLASMA RAMs IN REVERSE TRANSCRIPTASE GENE ASSOCIATE WITH CSF HIV-1 ESCAPE

Mattia Trunfio, Anna Celotti, Francesca Bai, Luigi Celani, Emanuele Focà, Antonella D'Arminio Monforte, Stefano Bonora, Gabriella D'Ettorre, Giovanni Di Perri, Andrea Calcagno

Poster P-G03 PHARMACOKINETICS AND PHARMACODYNAMICS IN SPECIAL POPULATIONS AND BODY SITES
Poster Hall A
2:30 PM - 4:00 PM
453 INFILTRATION OF bNAb VRC01 INTO THE CEREBROSPINAL FLUID IN HUMANS IN THE RV397 STUDY

Madhu Prabhakaran, Sandeep Narpala, Lucio Gama, Donn J. Colby, Phillip Chan, Carlo Sacdalan, Khunthalee Benjapornpong, Jintanat Ananworanich, Nittaya Phanuphak, Suteeraporn Pinyakorn, Trevor A. Crowell, Serena S. Spudich, Adrian B. McDermott, for the RV397 Study Team

454 BICTEGRVIR/FTC/TAF CSF DIFFUSION IN HIV-INFECTED PATIENTS WITH CNS IMPAIRMENT

Antoine Chéret, Thibaut Gelé, Alicia Castro Gordon, Valérie Furlan, Coralie Pallier, Pierre-Hadrien Becker, Pilartxo Catalan, Cécile Goujard, Anne-Marie Taburet, Jacques Gasnault, Hélène Gouget, Aurélie Barrail-Tran

455 A CROSS-SECTIONAL ANALYSIS OF ANTIRETROVIRAL REGIMEN ACTIVITY IN CEREBROSPINAL FLUID

Courtney V. Fletcher, Caitlyn McCarthy, Ronald Bosch, Serena S. Spudich, Anthony Podany, Sean N. Avedissian, Lee Winchester, Timothy Mykris, Jon Weinhold, Bernard J. Macatangay, Joshua C. Cyktor, Joseph J. Eron, John W. Mellors, Rajesh T. Gandhi, Deborah McMahon

456 PRENATAL EFAVIRENZ EXPOSURE INDEPENDENTLY ASSOCIATED WITH FOETAL CYP2B6 GENOTYPE

Adeniyi Olagunju, Damien Anweh, Ogechi Okafor, Alieu Amara, Oluseye Bolaji, Ebunoluwa Adejuyigbe, Saye Khoo, Andrew Owen

457 ASSOCIATION BETWEEN INTEGRASE INHIBITOR HAIR CONCENTRATIONS AND WEIGHT GAIN IN WOMEN

Cecile D. Lahiri, Cyra Christina Mehta, Christine D. Angert, Craig Sykes, Sheri Weiser, Deborah Gustafson, Audrey French, Adaora Adimora, Deborah Konkle-Parker, Anjali Sharma, Hector Bolivar, Seble Kassaye, Igbo Ofotokun, Elizabeth T. Golub, Anandi N. Sheth

458 CLINICAL TRIAL SIMULATION TO IMPROVE HIV PREEXPOSURE PROPHYLAXIS DOSING IN PREGNANCY

Ayyappa Chaturvedula, Rachel K. Scott, Michael J. Fossler, Maria Pyra, Kenneth K. Mugwanya, Nelly R. Mugo, Jared Baeten, Craig W. Hendrix

459 GENITAL INFLAMMATION DOES NOT DECREASE VAGINAL TFV LEVELS IN WOMEN TAKING ORAL PrEP

Jill Blumenthal, Mackenzie L. Cottrell, **Stephen A. Rawlings**, Scott N. Peterson, Eric Ellorin, Alexis Kay, Peter L. Anderson, Sara Gianella, Sheldon Morris

- 460

ARV PENETRATION INTO FEMALE GENITAL TRACT DURING PREGNANCY: EFAVIRENZ AS A CASE STUDY
Oluwasegun I. Eniayewu, Shakir A. Atoyebi, Jacinta Nwogu, Aliou Amara, Oluseye Bolaji, Damien Anweh, Ebunoluwa Adejuyigbe, Marco Siccardi, Saye Khoo, Andrew Owen, Adeniyi Olagunju
- 461

PK/PD STUDY OF RALTEGRAVIR ALONE OR COMBINED WITH LAMIVUDINE AS PrEP: AN RCT
Julie Fox, Carolina Herrera, Laura Else, Julianne Lwanga, Ming Lee, Aliou Amara, Laura Dickinson, Marta Boffito, Robin J. Shattock, Saye Khoo
- 462

MODELING-SUPPORTED ISLATRAVIR DOSE SELECTION FOR PHASE III
Deanne J. Rudd, Youfang Cao, Pavan Vaddady, Jay Grobler, Ernest Asante-Appiah, Tracy Diamond, Stephanie O. Klopfer, Anjana Grandhi, Peter Sklar, Carey Hwang, Ryan Vargo
- 463

FOSTEMSAVIR EXPOSURE-RESPONSE RELATIONSHIPS IN TREATMENT-EXPERIENCED HIV PATIENTS
Ridhi Parasrampur, Navin Goyal, Katy Moore, Peter Ackerman, Cyril C. Llamoso, Keith Barker, Mindy Magee
- 464LB

BICTEGRAVIR DISTRIBUTION AND BICTEGRAVIR/FTC/TAF ACTIVITY IN GENITAL TRACT AND RECTUM
Arkaitz Imaz, Juan M. Tiraboschi, Jordi Niubo, Javier Martinez-Picado, Mackenzie L. Cottrell, Pere Domingo, Ivan Chivite, Eugènia Negredo, Sandra Morenilla, Victor Urrea, Sofia Scevola, Benito Garcia, Angela Kashuba, Daniel Podzamczar
- 465LB

SAFETY AND PHARMACOKINETICS OF INTRAVENOUS VRC01LS AND 10-1074 IN YOUNG CHILDREN
Edmund V. Capparelli, Gbolahan Ajibola, Kenneth Maswabi, Kara Bennett, Michael D. Hughes, Molly Pretorius Holme, Kelly Seaton, Adrian B. McDermott, Marina Caskey, Lucio Gama, Patrick Jean-Philippe, Joseph Makhema, Daniel R. Kuritzkes, Mathias Lichterfeld, Roger L. Shapiro

Poster P-H02 TO THREE OR NOT TO THREE, THAT IS THE QUESTION

Poster Hall A

2:30 PM - 4:00 PM

- 483

DTG+3TC VS DTG+TDF/FTC (GEMINI 1&2): CONFIRMED VIROLOGIC WITHDRAWALS THROUGH WEEK 96
Mark Underwood, Ruolan Wang, Paul Benson, Norma Porteiro, Giuliano Rizzardini, José R. Santos, Rickesh Patel, Justin Koteff, Rimgaile Urbaitye, Joe Horton, Jörg Sievers, Choy Man, Allan Raymond Tenorio, Jean van Wyk
- 484

HIV-1 REPLICATION AT <50 C/ML TO 148 WEEKS FOR SWORD-1/ SWORD-2 STUDIES WITH DTG+RPV
Mark Underwood, Kostas Angelis, Ruolan Wang, Joe Horton, Veerle Van Eygen, Jessica Matthews, Lesley Kahl, Jean van Wyk, Brian Wynne
- 485

LONG-TERM DTG-3TC SWITCH EFFICACY IN PATIENTS WITH ARCHIVED 3TC RESISTANCE
Rosa de Miguel, David Rial, Lourdes Domínguez-Domínguez, Rocio Montejano, Andrés Esteban-Cantos, Otilia Bisbal, Natalia Stella-Ascariz, Paula Aranguren, Mónica García-Álvarez, Belen Alejos, Maria Lagarde, Jose I. Bernardino, Federico Pulido, Jose R. Arribas, for the ART-PRO, P116/00837-P116/00678 Study Group

- 486 EFFECT OF PAST VIROLOGICAL FAILURE ON DOLUTEGRAVIR+LAMIVUDINE AS MAINTENANCE REGIMEN**
Roberta Gagliardini, Patrizia Lorenzini, Alessandro Cozzi-Lepri, Alessandro Tavelli, Vanni Borghi, Laura Galli, Gianmarco Tagliaferri, Franco Maggiolo, Cristina Mussini, Antonella Castagna, Antonella D'Arminio Monforte, Andrea Antinori, for the Icona Foundation Study Group
- 487 CLINICAL OUTCOMES OF 2-DRUG REGIMENS (2DRS) VS 3-DRUG REGIMENS (3DRS) IN HIV**
Lauren Greenberg, for the RESPOND: The International Cohort Consortium of Infectious Diseases
- 488 EFFICACY AND DURABILITY OF 2-DRUG VS 3-DRUG InSTI-BASED REGIMENS: DATA FROM REAL LIFE**
Massimiliano Fabbiani, Barbara Rossetti, Arturo Ciccullo, Maria Letizia Oreni, Filippo Lagi, Luigi Celani, Manuela Colafigli, Andrea De Vito, Maria Mazzitelli, Alex Dusina, Stefano Rusconi, Amedeo Capetti, Gaetana Sterrantino, Gabriella d'Ettorre, Simona Di Giambenedetto
- 489 ASSESSING THE VIROLOGIC IMPACT OF ARCHIVED RESISTANCE IN AN HIV-1 SWITCH STUDY, TANGO**
Ruolan Wang, Jonathan Wright, Mounir Ait-Khaled, Allan Raymond Tenorio, Maria Claudia Nascimento, Thomas Lutz, Daniel Podzamczar, Richard Moore, Miguel Górgolas Hernández-Mora, Clifford Kinder, Jean van Wyk, Mark Underwood
- 490 VIROLOGIC FAILURE AND RESISTANCE IN DOLUTEGRAVIR-BASED MAINTENANCE DUAL REGIMENS**
Colin Deschanvres, François Raffi, Jacques Reynes, Bruno Hoen, David Rey, Romain Palich, Olivier Robineau, Firouze Bani-Sadr, Claudine Duvivier, Laurent Hocqueloux, Lise Cuzin, Véronique Joly, André Cabié, **Clotilde Allavena**, for the the Dat'AIDS Study Group
- 491 2-DRUG REGIMEN COMPARABLE TO 3-DRUG REGIMENS UP TO 18 MONTHS IN A REAL WORLD SETTING**
Gerald Pierone, Kathy L. Schulman, Jennifer S. Fusco, Vani Vannappagari, Michael Aboud, Leigh Ragone, Gregory Fusco
- 492 SHALL WE DANCE? EXTENDING TANGO'S RESULTS TO CLINICAL PRACTICE**
Gianmaria Baldin, Alberto Borghetti, Arturo Ciccullo, Stefano Rusconi, Amedeo Capetti, Gaetana Sterrantino, Manuela Colafigli, Gabriella d'Ettorre, Andrea Giacometti, Maria V. Cossu, William Gennari, Cristina Mussini, Vanni Borghi, Simona Di Giambenedetto
- 493 VIROLOGIC OUTCOMES BY RESISTANCE CATEGORY AND PRETREATMENT IN THE DUALIS STUDY**
Eva Wolf, Christoph Boesecke, Annamaria Balogh, Helen Bidner, Christiane Cordes, Hans Heiken, Ivanka Krznaric, Tim Kummerle, Jochen Schneider, Christoph D. Spinner, for the DUALIS Study Group
- 494 ONCE-DAILY ETRAVIRINE/RALTEGRAVIR (400/800 MG) AS MAINTENANCE REGIMEN**
Romain Palich, Yasmine Dudoit, Gilles Peytavin, Minh Le, Cathia Soulie, Roland Tubiana, Clotilde Allavena, Laurence Weiss, Ana Montoya Ferrer, Claudine Duvivier, Olivier Bouchaud, Julie Bottero, Anne-Geneviève Marcelin, Lambert Assoumou, Christine Katlama

Poster P-H03 ADHERENCE ASSESSMENT AND OTHER ART STRATEGIES

Poster Hall A

2:30 PM - 4:00 PM

495 PATTERNS OF ADHERENCE IN BICTEGRAVIR- AND DOLUTEGRAVIR-BASED REGIMENS

Paul E. Sax, Joseph J. Eron, Andrew Frick, Scott Milligan, Moti Ramgopal, Steven Santiago, Richard A. Elion

496 SOCIAL NORMS AND ART ADHERENCE: POPULATION-BASED STUDY OF PERSONS WITH HIV IN UGANDA

Jessica M. Perkins, Bernard Kakuhiikire, Charles Baguma, Justin D. Rasmussen, Carolyn M. Audet, Mark J. Siedner, Jessica E. Haberer, David R. Bangsberg, Alexander C. Tsai

497 RANDOMIZED STUDY OF AN ART ADHERENCE INTERVENTION USING A SMART-PILL BOTTLE SERVICE

Grant B. Ellsworth, Leah Burke, Martin T. Wells, Satish Mishra, Matthew Caffrey, David W. Liddle, Malika Madhava, Arsalan K. Muhammad, Curtis O'Neal, Peter L. Anderson, Lane R. Bushman, Lucas Ellison, Josh Stein, Roy M. Gulick

498 PHARMACIST-DRIVEN RAPID ART REDUCES TIME TO VIROLOGIC SUPPRESSION IN RHODE ISLAND

Amy L. Brotherton, Rajeev B. Shah, Joseph Garland, Meghan L. McCarthy, Fizza S. Gillani, Martha C. Sanchez

499 DO PRESCRIBING DATA REFLECT ACTUAL TREATMENT IN PEOPLE LIVING WITH HIV (PLWH)?

Joseph J. Eron, Dushyantha Jayaweera, Gregory D. Huhn, Kelsey Milligan, Scott Milligan, Paul E. Sax, Keith Spitz, Richard A. Elion

500 INVESTIGATION OF A POTENTIAL COMPOSITE ENDPOINT FOR IMMUNOLOGIC NONRESPONDER TRIALS

Virginia Sheikh, Therri Usher, Maximilian Rohde, Thamban Valappil, Sarah Connelly, Richard Jefferys, Kimberly Struble, Adam Sherwat, Wendy Carter, Jeffrey S. Murray

501 TREATMENT INTERRUPTION STRATEGIES FOR NNRTI-BASED ART: DOES THE NRTI MATTER?

Alice K. Pau, Jacqueline Neuhaus, Edward M. Gardner, Anna Maria Geretti, Kimberly K. Scarsi, John D. Baxter, Nnakelu Eriobu, Virginia L. Kan, Vidar Ormaasen, Sarah Pett, H. Clifford Lane, Andrew N. Phillips, James Neaton, for the INSIGHT SMART Study Group

502 NO SIGNIFICANT CHANGE ON RESERVOIR IN QUATUOR: A 4/7 DAYS A WEEK MAINTENANCE STRATEGY

Sidonie Lambert-Niclot, Lambert Assoumou, Pierre De Truchis, Djeneba Bocar Fofana, Karine Amat, Jonathan Bellet, François Raffi, Philippe Morlat, Christine Katlama, Cecile Moins, Dominique Costagliola, Pierre-Marie Girard, Roland Landman, Laurence Morand-Joubert, for the ANRS 170 QUATUOR Study Group

Poster P-I03 DRUG RESISTANCE IN EXPERIENCED AND POTENTIAL FOR SUCCESSFUL TREATMENT

Poster Hall A

2:30 PM - 4:00 PM

521 TRENDS AND CHARACTERISTICS OF HIV-1 DRUG RESISTANCE IN THE UNITED STATES (2012-2018)

Cassidy E. Henegar, Mark Underwood, Leigh Ragone, Harmony Garges, **Vani Vannappagari**

- 522 PREVALENCE OF RESISTANCE AND LIMITED THERAPEUTIC OPTIONS IN PATIENTS VIREMIC ON ART**
Olivier Robineau, Elisabeth André-Garnier, Lise Cuzin, Solène Sécher, Félicie Dewulf, Fanny Taudière, Laurence Bocket, Raymond Césaire, Virginie Ferré, Clotilde Allavena, André Cabié, **François Raffi**
- 523 FOUR-CLASS RESISTANCE IS RARE IN TREATMENT-EXPERIENCED PATIENTS ACROSS EUROPE**
Jurgen Vercauteren, Anne-Mieke Vandamme, Barbara Rossetti, Massimiliano Fabbiani, Francesca Incardona, Kristof Theys, Ana Abecasis, Carole Devaux, Rolf Kaiser, Anders Sönnnerborg, **Maurizio Zazzi**, for the EuResist Network Study Group
- 524 PRO 140 IN VITRO ACTIVITY IN HTE SUBJECTS WITH A 4-CLASS DRUG-RESISTANT HIV-1 VIRUS**
Stefano Rusconi, Francesco Saladini, Silvia Barbaliscia, Andrea Poli, Laura Galli, Roberta Gagliardini, Lidia Gazzola, Daniela Francisci, Francesca Vichi, Emanuele Focà, Maurizio Zazzi, Maria M. Santoro, **Arianna Gabrieli**, Antonella Castagna, for the PRESTIGIO Registry Study Group
- Poster P-J03 RESISTANCE TO HCV DRUGS**
Poster Hall B **2:30 PM - 4:00 PM**
- 561 RESOLVING HCV SUBTYPES IN A BELGIAN COHORT BY FULL GENOME NEXT-GENERATION SEQUENCING**
Kasper T. Christensen, Florian Pierard, Kurt Beuselinck, David Bonsall, Rory Bowden, Katrien Lagrou, Frederik Nevens, Peter Simmonds, Anne-Mieke Vandamme, Eric Van Wijngaerden, Lize Cuypers, Kristel Van Laethem
- 562 VIROLOGIC PATTERNS OF HCV PATIENTS WITH FAILURE TO SECOND-GENERATION DAAs**
Mario Starace, Mariantonietta Pisaturo, Carmine Minichini, Stefania De Pascalis, Margherita Macera, Laura Occhiello, Alessandra Di Fraia, Loredana Alessio, Vincenzo Messina, Ernesto Claar, Tiziana Ascione, Aldo Marrone, Ivan Gentile, Giovanni Battista Gaeta, Nicola Coppola
- 563 RESISTANCE-ASSOCIATED SUBSTITUTIONS (RAS) IN “UNUSUAL” HCV SUBTYPES**
Stephanie Popping, Slim Fourati, Anita Howe, Velia C. Di Maio, Adolfo D. Salazar, C. Rodrigo, Midori Kjellin, Johan Lennerstrand, Mark Douglas, Francesca Ceccherini Silberstein, P. Richard Harrigan, Federico García, Charles Boucher, Jean-Michel Pawlotsky
- 564 TRANSMISSION OF THE NSSA-RESISTANT VARIANT M28V AMONG ACUTE HIV/HCV COINFECTED MSM**
Stephanie Popping, Rosanne Verwijs, Lize Cuypers, Mark Claassen, Guido Van Den Berk, Anja De Weggheleire, Joop E. Arends, Anne Boerekamps, Richard Molenkamp, Marion Koopmans, Annelies Verbon, Charles Boucher, Bart Rijnders, **David Van De Vijver**
- 565 RESISTANCE ANALYSIS IN HCV-3–INFECTED PATIENTS WITHIN THE ITALIAN NETWORK VIRONET-C**
Velia Chiara Di Maio, Silvia Barbaliscia, Elisabetta Teti, Caterina Pasquazzi, Stefania Paolucci, Teresa Pollicino, Bianca Bruzzzone, Nicola Coppola, Valeria Micheli, Fausto Baldanti, Giustino Parruti, Mario Angelico, Massimo Andreoni, Carlo Federico Perno, Francesca Ceccherini Silberstein

Poster P-J04 RESISTANCE TO PAYING FOR HCV DRUGS

Poster Hall B

2:30 PM - 4:00 PM

566 BARRIERS TO DIRECTLY ACTING ANTIVIRALS THERAPY AMONG HIV/HCV-COINFECTED ADULTS

Gina M. Simoncini, Qingjiang Hou, Kate Buchacz, Ellen Tedaldi, Frank J. Palella, Jack Fuhrer, Richard M. Novak, Cynthia Mayer, David E. Koren, Linda A. Battalora, Stockton Mayer, Stacey Purinton, Jun Li, for the HIV Outpatient Study (HOPS) Investigators

567 MEDICAID HCV TREATMENT RESTRICTIONS: SPILLOVER TO THE PRIVATE-PAYER HCV CARE CASCADE?

Rachel Epstein, Jianing Wang, Jake R. Morgan, Shashi Kapadia, Yuhua Bao, Laura F. White, Benjamin P. Linas

568 HEALTH INSURANCE AND DIRECT-ACTING HCV ANTIVIRAL INITIATION IN US WOMEN WITH HIV

Andrew Edmonds, Danielle Haley, Jessie K. Edwards, Catalina Ramirez, Audrey French, Phyllis Tien, Michael Plankey, Mardge H. Cohen, Anjali Sharma, Michael Augenbraun, Eric C. Seaberg, Kimberly Workowski, Hector Bolivar, Svenja Albrecht, Adaora Adimora

569 MOBILE HCV SCREENING IN AN AT-RISK URBAN POPULATION IDENTIFIES SIGNIFICANT FIBROSIS

Jennifer C. Price, Rachel Kanner, Emily Valadao, Yesenia S. Laguardia, Maria Duarte, Norah A. Terrault

570 PROGRESS AND REAL-LIFE CHALLENGES FOR HCV ELIMINATION IN PEOPLE LIVING WITH HIV

Edward R. Cachay, Francesca Torriani, Lucas Hill, Craig Ballard, Abigail Aquino, Huifang Qin, Sonia Jain, Natasha Martin, W. C. Mathews

Poster P-J05 HCV THERAPEUTICS: GETTING REAL

Poster Hall B

2:30 PM - 4:00 PM

571 REAL-WORLD EFFECTIVENESS OF GLECAPREVIR/PIBRENTASVIR FOR HEPATITIS C VIRUS INFECTION

Lourdes Domínguez-Domínguez, **Juan Berenguer**, Ángela Gil-Martín, Diego Rincón, Antonio Oliveira, Inmaculada Fernández, Beatriz Álvarez, Laura Benitez, Ignacio Santos, José Barrio Antoranz, Elvira Poves, Juan E. Losa, Inma Jarrin, María J. Calvo, Juan González-García, for the RUA-VCH Study Group

572 REAL-WORLD EFFECTIVENESS OF SOFOSBUVIR/VELPATASVIR FOR HEPATITIS C VIRUS INFECTION

Teresa Aldámiz-Echevarría, **Juan Berenguer**, Ángela Gil-Martín, Javier García-Samaniego, Laura Márquez, José L. Calleja, Luz Martin-Carbonero, Ana Moreno, Benjamín A. Polo Lorduy, Pablo Ryan, Luisa Consuelo García Buey, María J. Devesa, Inma Jarrin, María J. Calvo, Juan González-García

573 A MULTICENTER REGISTRY IN PATIENTS WITH HIV/HCV COINFECTION ON LEDIPASVIR/SOFOSBUVIR

Stefan Mauss, Cody A. Chastain, Nwora L. Okeke, Kristen M. Marks, Kimberly Workowski, Gregory K. Robbins, Kenneth E. Sherman, Chris Woods, Lawrence Park, Jürgen K. Rockstroh, Susanna Naggie

574 EFFECTIVENESS OF LDV/SOF FOR HIV-POSITIVE PATIENTS WITH HCV GENOTYPE 2 INFECTION

Hsin-Yun Sun, Chia-Jui Yang, Bo-Huang Liou, Wen-Chien Ko, Shu-Hsing Cheng, Yu-Lin Lee, Hung-Jen Tang, Guan-Jhou Chen, Chi-Ying Lin, Chien-Ching Hung, for the Taiwan HIV Study Group

575 EFFECTIVENESS OF DAA IN HIV-POSITIVE PATIENTS WITH HCV GENOTYPE 6 INFECTION

Hsin-Yun Sun, Chien-Yu Cheng, Chi-Ying Lin, Chia-Jui Yang, Ming-Jui Tsai, Bo-Huang Liou, Nan-Yao Lee, Hung-Jen Tang, Yi-Chia Huang, Chien-Ching Hung, for the the Taiwan HIV Study Group

576LB ADHERENCE AND 007-TP DBS LEVELS IN ACTIVE DRUG USERS WITH HCV: THE INCLUD TRIAL

Kristina M. Brooks, Jose R. Castillo-Mancilla, Mary Morrow, Samantha MaWhinney, Sarah E. Rowan, David L. Wyles, Joshua Blum, Ryan T. Huntley, Lana M. Salah, Arya Tehrani, Laura Roon, Lane R. Bushman, Peter L. Anderson, Jennifer J. Kiser

Poster P-J06 HCV AFTER THE SVR: GONE BUT NOT FORGOTTEN
Poster Hall B

2:30 PM - 4:00 PM

577 OVERALL SURVIVAL IN HIV-POSITIVE LIVER TRANSPLANT RECIPIENTS AND THE ROLE OF DAAs

Roberto Rossotti, Marco Merli, Chiara Mazzarelli, Stefano Di Sandro, Giovanna Travi, Raffaella Viganò, Andrea Lauterio, Marco Cantone, Maria Cristina Moioli, Luca S. Belli, Luciano G. De Carlis, Massimo Puoti

578 HIV COINFECTION AND RISK OF MORBIDITY AND MORTALITY IN HCV PATIENTS TREATED BY DAA

Mathieu Chalouni, Stanislas Pol, Philippe Sogni, Hélène Fontaine, Karine Lacombe, Jean-Marc Lacombe, Laure Esterle, Camille Gilbert, Céline Dorival, Dominique Salmon, Carrat Fabrice, Linda Wittkop, for the ANRS CO22 HEPATHER cohort and ANRS CO13 HEPAVIH cohort Study Groups

579 EFFECT OF DAA REGIMENS ON MORTALITY IN HIV/HCV-COINFECTED PATIENTS WITH CIRRHOSIS

Nicolás Merchante, Francisco Téllez, Angela Camacho-Espejo, Dolores Merino, Maria J. Rios-Villegas, Marina Villalobos, Mohamed Omar Mohamed Balgahata, Carolina Freyre-Carrillo, Antonio Rivero, Miguel Raffo, Maria Paniagua-Garcia, Rosario Palacios, Juan Macías, Juan A. Pineda, for the HEPAVIR-Cirrhosis Study Group

580 ALL-CAUSE MORTALITY AND CAUSES OF DEATH IN THE SWISS HEPATITIS C COHORT STUDY

Maroussia Roelens, Barbara Bertisch, Darius Moradpour, Andreas Cerny, Nasser Semmo, Patrick Schmid, Beat Muellhaupt, Christoph Junker, Francesco Negro, **Olivia Keiser**

581 KINETICS OF EMERGENCE OF LIVER COMPLICATIONS IN HCV-INFECTED PATIENTS AFTER SVR

Anaïs Corma-Gómez, Juan Macías, Francisco Téllez, Luis Morano, Antonio Rivero-Juárez, Rafael Granados, Marta Santos, Maria Paniagua-Garcia, Francisco Vera, Luis Miguel Real, Jesus Santos, Azucena Bautista, Paloma Geijo, Dolores Merino, Juan A. Pineda, for the RIS-HEP13 and GEHEP 011 Study Groups

582 LIVER STIFFNESS FOR PORTAL HYPERTENSIVE GASTROINTESTINAL BLEEDING AFTER HCV CURE

Anaïs Corma-Gómez, Juan Macías, Francisco Téllez, Luis Morano, Mario Frías, Rafael Granados, Juan C. Alados, Maria Paniagua-Garcia, Francisco Vera, Nicolás Merchante, Rosario Palacios, Ignacio Santos, Paloma Geijo, Dolores Merino, Juan A. Pineda, for the RIS-HEP13 and GEHEP 011 Study Groups

- 583 TREATMENT WITH DIRECT-ACTING ANTIVIRALS REDUCES HEALTH CARE SERVICE UTILIZATION**
Sahar Saeed, Erica E. Moodie, Sharon Walmsley, Curtis Cooper, Michael John Gill, Alexander Wong, Valerie Martel-Laferrriere, Marie-Louise Vachon, Marina Klein, for the Canadian HIV-HCV Co-Infection Cohort Study
- 584 HCV CURE IN HIV COINFECTION DAMPENS INFLAMMATION AND IMPROVES COGNITION**
Lynn Pulliam, Linda Abadjian, Alex Monto, Bing Sun
- 585 TELOMERE LENGTH OF CIRRHOTIC HIV/HCV PATIENTS INCREASES AFTER HCV CLEARANCE WITH DAAs**
Silvia S. Molina Carrión, Óscar Brochado Kith, Juan González-García, Juan Berenguer, Cristina Diez, Juan Carlos López-Bernaldo, Elba L. Herrera, Victor Hontanón, Luis Ibañez-Samaniego, María Luisa Montes, Salvador Resino, **Amanda Fernández-Rodríguez**, María Á. Jimenez-Sousa
- 586 T-CELL AND MONOCYTE ACTIVATION CORRELATE AND DECLINE DURING HCV THERAPY FOR HCV/HIV**
Ann W. Auma, Sofi N. Damjanovska, Corinne N. Kowal, Carey Shive, Laura M. Smeaton, Daniel E. Cohen, Debika Bhattacharya, Beverly Alston-Smith, Ashwin Balagopal, Mark Sulkowski, David L. Wyles, Donald D. Anthony
- 587 IMPACT OF HCV CLEARANCE ON NK CELLS AND HIV TRANSCRIPTION IN COINFECTED SUBJECTS**
Maria L. Polo, Alejandra Urioste, Yanina Ghiglione, Jimena Salido, Ajantha Solomon, Maria J. Rolon, Horacio Salomón, Florencia Quiroga, Gabriela Turk, Sharon R. Lewin, Natalia Laufer
- 588 CHANGES IN IMMUNE-CELL SUBSETS IN HCV AND HCV/HIV PATIENTS UPON VIRALLY EFFECTIVE DAA**
Elvira S. Cannizzo, Camilla Tincati, Esther Merlini, Anna De Bona, Lorena Van Den Bogaart, Roberta Curetti, Spinello Antinori, Antonella D'Arminio Monforte, Giulia Marchetti, Laura Milazzo
- 589 LIVER FIBROSIS HINDERS NORMALIZATION OF SYSTEMIC INFLAMMATION AFTER HCV ERADICATION**
Clara Restrepo, Beatriz Álvarez, Marcial García, María Ángeles Navarrete, Mónica Gutiérrez-Rivas, Laura Prieto, Alfonso Cabello, Sara Nistal, Salvador Resino, Miguel Górgolas Hernández-Mora, Norma Rallón, **José M. Benito**

Poster P-K02 CANCERS: KAPOSI SARCOMA, LUNG, BREAST, AND HEMATOLOGIC

Poster Hall B

2:30 PM - 4:00 PM

- 625 LUNG CANCER INCIDENCE AND RISK FACTORS DIFFER BY HISTOLOGY AMONG HIV+/- VETERANS**
Elizabeth Chiao, Jennifer R. Kramer, Yongquon Dong, Peter A. Richardson, Sarah T. Ahmed, Donna L. White, Christine Hartman, Jose M. Garcia, Suchismita Raychaudhury, Eric A. Engels
- 626 IMPACT OF UNIVERSAL ART ACCESS ON KAPOSI SARCOMA: RESULTS FROM THE ICONA COHORT**
Alessandra Bandera, Alessandro Cozzi-Lepri, Antonella Cingolani, Francesca Ceccherini Silberstein, Giulia Marchetti, Stefano Rusconi, Valentina Svicher, Roberto Cauda, Francesco Castelli, Andrea Gori, Andrea Antinori, Antonella D'Arminio Monforte, for the Icona Foundation Study Group

627LB OUTCOMES AFTER PEGYLATED LIPOSOMAL DOXORUBICIN FOR KAPOSI SARCOMA IN MOZAMBIQUE

Matthew E. Coldiron, Ana Gabriela Gutierrez Zamudio, Rolanda Manuel, Gilda Luciano, Barbara Rusch, Iza Ciglenecki, Rebecca F. Grais, Laurence Toutous Trellu, Lucas Molfino

628 BREAST CANCER RISK AMONG WOMEN WITH HIV IN NORTH AMERICA (2000-2015)

Sally B. Coburn, Michael J. Silverberg, Richard D. Moore, W. C. Mathews, Julia L. Marcus, Jessica L. Castilho, Mari M. Kitahata, Heidi M. Crane, Marina Klein, Sonia Napravnik, Todd T. Brown, Kala Visvanathan, Bryan Lau, Keri N. Althoff, for the NA-ACCORD of IeDEA

629 BREAST CANCER RISK IN WOMEN LIVING WITH HIV IN SOUTH AFRICA: THE SAM STUDY

Maša Davidović, Tafadzwa G. Dhokotera, Lina Bartels, Katayoun Taghavi, Frédérique Chammartin, Victor Olago, Elvira Singh, Matthias Egger, Mazvita Sengayi, Julia Bohlius

630 HIV-ASSOCIATED HEMATOLOGIC MALIGNANCIES IN PEOPLE LIVING WITH HIV IN SWEDEN

Oscar Kieri, Piotr Nowak, Anders Sönnernborg, Gaetano Marrone

Poster P-L03 CLUSTERING OF PREDICTORS AND PREDICTION RULES FOR MI RISK**Poster Hall B****2:30 PM - 4:00 PM****647 PLASMA INFLAMMATORY BIOMARKER SIGNATURE ASSOCIATED WITH CVD IN HIV INFECTION**

Mohamed El-Far, Madeleine Durand, Carl Chartrand-Lefebvre, Rémi Bunet, Hardik Ramani, Jean-Guy Baril, Benoit Trottier, Samer Mansour, Ali Filali, Petronela Ancuta, Nicolas Chomont, Robert C. Kaplan, Alan Landay, Cécile Tremblay, for the Canadian HIV and Aging Cohort Study (CHACS)

648 ASSOCIATION OF INFLAMMATORY MARKERS WITH CARDIAC INDICES IN THE MACS

Bethel Woldu, Henrique Doria De Vasconcellos, Joseph B. Margolick, Heather McKay, Jared Magnani, Matthew J. Feinstein, Roger Detels, Todd T. Brown, Sean Altekruze, Joao Lima, Katherine Wu, Wendy Post

649 PHENOTYPIC CLUSTERING OF HIV-ASSOCIATED ATHEROSCLEROSIS AND AGE-RELATED OUTCOMES

David B. Hanna, Jee-Young Moon, Bryan Lau, Kathryn Anastos, Russell Tracy, Sabina A. Haberen, Caitlin A. Moran, Todd T. Brown, Leah H. Rubin, Lawrence Kingsley, Stephen J. Gange, Wendy Post, Robert C. Kaplan, Howard Hodis, for the MACS/WIHS Combined Cohort Study

650 MYOCARDIAL INFARCTION BY ATHEROSCLEROTIC CARDIOVASCULAR DISEASE (ASCVD) RISK SCORE

Keri N. Althoff, Todd T. Brown, Greer Burkholder, Heidi M. Crane, Joseph Delaney, Richard A. Elion, Karla I. Galaviz, Stephen J. Gange, Michael A. Horberg, Frank J. Palella, Michael J. Silverberg, Janet Tate, Richard D. Moore, for the NA-ACCORD of IeDEA

651 CONTRIBUTION OF TELOMERE LENGTH AND CLINICAL RISK FACTORS TO CORONARY ARTERY DISEASE

Isabella C. Schoepf, Tanja Engel, Marieke Raffenberg, Neeltje A. Kootstra, Peter Reiss, Christian Thorball, Jacques Fellay, Roger Kouyos, Huldrych F. Günthard, Bruno Ledergerber, Philip E. Tarr, for the Swiss HIV Cohort Study

Poster P-L04 STRUCTURAL ISSUES IN HEART DISEASE AND HIV
Poster Hall B **2:30 PM - 4:00 PM**

652 PREVALENCE OF SUBCLINICAL MYOCARDIAL ABNORMALITIES IN HIV: SMASH STUDY RESULTS

Katherine Wu, Sabina A. Haberlen, Michael Plankey, Frank J. Palella, Damani A. Piggott, Gregory D. Kirk, Joseph B. Margolick, **Wendy Post**

653 AORTIC DILATATION IS PRESENT AMONG MEN WITH HIV

Anum S. Minhas, Bin Liu, Henrique Doria De Vasconcellos, Sabina A. Haberlen, Matthew J. Feinstein, Valentina Stosor, Matthew Budoff, Kara W. Chew, Jared Magnani, Todd T. Brown, Sean Altekruze, Wendy Post, Joao Lima, Katherine Wu

654 PREVALENCE OF PULMONARY HYPERTENSION IN HIV-INFECTED PATIENTS AND REDUCED OUTCOME

Nico Reinsch, Hendrik Streeck, Meinhard Mende, Till Neumann, Norbert H. Brockmeyer, Jan Kehrmann, Dirk Schadendorf, Stefan Esser

Poster P-M01 FAT IN FOCUS
Poster Hall B **2:30 PM - 4:00 PM**

667 FAT GAINS OCCUR AFTER ART WITHOUT CHANGES IN METABOLIC RATE OR CALORIC INTAKE

Allison Ross Eckard, Abdus Sattar, Jiao Yu, Heather Y. Hughes, Danielle Labbato, Theresa O. Rodgers, Julia C. Kosco, Grace A. McComsey

668 GREATER WEIGHT GAIN AFTER SWITCH TO InSTI-BASED REGIMEN FROM NNRTI VS PI REGIMENS

John Koethe, Aihua Bian, Peter F. Rebeiro, Cathy Jenkins, Kassem Bourgi, Richard D. Moore, Michael Saag, Kathryn Anastos, Julia Fleming, Marina Klein, Viviane D. Lima, Joseph B. Margolick, Timothy R. Sterling, Jordan E. Lake, for the NA-ACCORD of IeDEA

669 BODY COMPOSITION CHANGES OVER THE MENOPAUSAL TRANSITION IN HIV+ AND HIV- WOMEN

Thuy Trang J. Nguyen, Yifei Ma, Rebecca Scherzer, Anjali Sharma, Mark H. Kuniholm, Audrey French, Margaret Fischl, Howard Minkoff, Michael Plankey, Adaora Adimora, Carl Grunfeld, **Phyllis Tien**

670 RESISTIN GENE POLYMORPHISM RELATED TO WEIGHT GAIN AND PSYCHIATRIC SYMPTOMS ON InSTI

Rumi Minami, Soichiro Takahama, Kazuhiko Koyama, Masahiro Yamamoto

671 ADIPOCYTE DYSFUNCTION DESPITE REDUCED ADIPOSE INFLAMMATION IN DIABETICS WITH HIV

Samuel Bailin, Spyros Kalams, Simon Mallal, Fei Ye, Run Fan, Mona Mashayekhi, Curtis Gabriel, John Koethe, Celestine Wanjalla

672 INCREASED INFLAMMATORY CX3CR1+GPR56+CD57+ CD4+ T CELLS IN FAT FROM HIV+ DIABETICS

Celestine Wanjalla, Wyatt J. McDonnell, Ramesh Ram, Abha Chopra, Rama Gangula, Shay Leary, Beverly O. Woodward, Mark Pilkinton, Mona Mashayekhi, Samuel Bailin, Curtis Gabriel, Alyssa Hasty, Simon Mallal, Spyros Kalams, John Koethe

Poster P-M02 ADIPOSE TISSUE AND OBESITY**Poster Hall B****2:30 PM - 4:00 PM**

- 673 TELMISARTAN DECREASES MONOCYTE CX3CR1 EXPRESSION IN TREATED HIV INFECTION**
Jordan E. Lake, Eunice Yeh, Douglas W. Kitch, Anoma Somasunderam, Michael M. Lederman, Judith S. Currier, Netanya S. Utay, for the A5317 Team
- 674 GUT INTEGRITY MARKERS AND ASSOCIATIONS WITH ADIPOSITY IN PEOPLE WITH AND WITHOUT HIV**
Allison Ross Eckard, Carlee Moser, Judith S. Currier, Todd T. Brown, Emily Bowman, Peter W. Hunt, Nicholas Funderburg, Grace A. McComsey
- 675 CONTRIBUTION OF InSTI, BMI, PHYSICAL ACTIVITY, CALORIC INTAKE TO WEIGHT GAIN IN PWH**
Giovanni Guaraldi, Jovana Milic, Andrea Malagoli, Federica Carli, Marianna Menozzi, Alessandro Raimondi, Giacomo Ciusa, Valentina Masi, Michela Belli, Stefano Guaraldi, Cristina Mussini, Todd T. Brown, Jordan E. Lake, Kristine M. Erlandson
- 676 UNDERSTANDING WHO DOES AND DOES NOT GAIN WEIGHT WITH INTEGRASE INHIBITORS (InSTI)**
Grace A. McComsey, Keri N. Althoff, Todd T. Brown, Joseph J. Eron, Gregory D. Huhn, Anthony Mills, Graeme Moyle, Soodi Navadeh, Janna Radtchenko, Paul E. Sax, Richard A. Elion
- 677 DRUG CONCENTRATIONS AND BODY WEIGHT GAIN IN PLWH SWITCHED TO 3TC & DOLUTEGRAVIR (DTG)**
Charles Burdet, Gilles Peytavin, Minh Le, Roland Landman, Delphine Bachelet, Christine Katlama, François Raffi, André Cabié, Charlotte Charpentier, Aida Benalycherif, Diane Descamps, Yazdan Yazdanpanah, **Véronique Joly**, for the Lamidol Study Group
- 678 RACE IMPACT ON DOLUTEGRAVIR-ASSOCIATED WEIGHT GAIN AMONG PREVIOUSLY ART-NAIVE PLWH**
Stephanie A. Ruderman, Robin M. Nance, Bridget M. Whitney, Kenneth H. Mayer, Richard D. Moore, Joseph J. Eron, W. C. Mathews, Michael Saag, Greer Burkholder, Mari M. Kitahata, Sara Lindström, Brian Wood, Ann Collier, Joseph Delaney, Heidi M. Crane
- 679 DTG PRESCRIBING PATTERNS IN PLWH ≥ 65 YEARS: THE IMPACT OF 2DR AND WEIGHT GAIN**
Giovanni Guaraldi, Stefano Calza, Andrea Calcagno, Jovana Milic, Emanuele Focà, Matteo Rota, Anna Celotti, Benedetto Maurizio Celesia, Stefania Piconi, Annamaria Cattelan, Giuseppe V. De Socio, Giancarlo Orofino, Agostino Riva, Silvia Nozza, Giovanni Di Perri
- 680 DIABETES, WEIGHT GAIN, AND INTEGRASE INHIBITOR USE IN NORTH AMERICAN HIV+ PERSONS**
Peter F. Rebeiro, Cathy Jenkins, Aihua Bian, Jordan E. Lake, Kassem Bourgi, Keri N. Althoff, Michelle Floris-Moore, Michael A. Horberg, Janet Tate, Amanda Willig, Richard D. Moore, Stephen J. Gange, Timothy R. Sterling, John R. Koethe, for the NA-ACCORD of IeDEA
- 681 WEIGHT GAIN AT 18 MONTHS FOR ART-EXPERIENCED PATIENTS WHO SWITCHED TO DTG IN NIGERIA**
Jennifer Campbell, Opeyemi Abudior, Ikechukwu Amamilo, Joseph Harwell, Caroline Middlecote, James Conroy, Williams Eigege, Nere Otubu, Justus Jiboye, Folu Lufadeju, Carolyn Amole, Owens Wiwa, Oche Agbaji, Sulaimon Akanmu, Damien Anweh

Poster P-M10 EPIGENETIC AND MITOCHONDRIAL TOXICITIES
Poster Hall B **2:30 PM - 4:00 PM**

- 714 IMPACT OF ANTIRETROVIRAL THERAPY INITIATION ON EPIGENETIC AGING AND TELOMERE LENGTH**
Andrés Esteban-Cantos, Javier Rodríguez-Centeno, Pilar Barruz, Francisco Gayá, Julián Nevado, Belen Alejos, Natalia Stella-Ascariz, Rocío Montejano, Jose I. Bernardino, Eric Florence, Lars Mathiesen, Cédric Wallet, François Raffi, Berta Rodas, Jose R. Arribas
- 715 IN VITRO IMPACT OF TAF ON MITOCHONDRIAL FUNCTION IN IMMUNE CELLS**
Eleni Ritou, Rachel Heymans, **Theodoros Kelesidis**
- 716 INFLAMMATION AND MITOCHONDRIAL DYSFUNCTION NOT NRTIs DRIVE EVENTS IN ACTG A5241**
Carl J. Fichtenbaum, Timothy M. Stone, Gregory S. Gojanovich, Roman Jandarov, Joseph J. Eron, Rajesh T. Gandhi, Karen T. Tashima, Mariana Gerschenson, for the AIDS Clinical Trials Group

Poster P-N03 EARLY BACTERICIDAL ACTIVITY, PK/PD, AND DRUG INTERACTIONS IN TB TREATMENT
Poster Hall B **2:30 PM - 4:00 PM**

- 732 EARLY BACTERICIDAL ACTIVITY OF MEROPENEM (+ AMOX/CLAV) WITH & WITHOUT RIFAMPIN FOR TB**
Veronique De Jager, Ahmed A. Abufathi, Hannelise Feyt, Nikhil Gupte, Naadira Vanker, Grace Barnes, Elana Van Brakel, Eric Nuermberger, Susan E. Dorman, Elin M. Svensson, Andreas H. Diacon, Kelly E. Dooley, for the COMRADE Study Team
- 733 EFFECT OF RIFAMYCINS ON PRETOMANID EXPOSURE IN PATIENTS WITH PULMONARY TB**
Mahmoud T. Abdelwahab, Elisa Ignatius, Paolo Denti, Kelly E. Dooley, Nikhil Gupte, Rodney Dawson, Grace Barnes, Kim Narunsky, Bronwyn Hendricks, for the APT Study Team
- 734 CLINICAL PHARMACOKINETICS AND TOXICODYNAMICS OF LINEZOLID IN THE NIX-TB TRIAL**
Marjorie Imperial, Jerry Nedelman, **Radojka M. Savic**
- 735 HIV VIROLOGICAL OUTCOMES DURING TENOFOVIR ALAFENAMIDE AND RIFABUTIN COADMINISTRATION**
Shannon Balcombe, Thomas C. Martin, Michael E. Tang, Lucas Hill

Poster P-N04 TB: MORTALITY, OUTCOMES, AND END-ORGAN COMPLICATIONS
Poster Hall B **2:30 PM - 4:00 PM**

- 736 DRUG-RESISTANCE MUTATIONS AND TUBERCULOSIS MORTALITY IN HIGH-BURDEN COUNTRIES**
Veronika Skrivankova, **Matthias Egger**, for the leDEA TB Genomics Group
- 737 CSF TB BACILLARY LOAD PREDICTS 2-WEEK MORTALITY IN HIV-ASSOCIATED TB MENINGITIS**
Emily Martyn, Ananta Bangdiwala, Enock Kagimu, Morris K. Rutakingirwa, John Kasibante, Michael Okirwoth, Gavin Stead, Vincent Wadda, Matt Pullen, Tyler Bold, David B. Meya, David R. Boulware, Nathan C. Bahr, Fiona Cresswell

- 738 MORTALITY IN ADULT HIV/MDR-TB BY ART USE: INDIVIDUAL PATIENT DATA META-ANALYSIS**
Gregory P. Bisson, Mayara Bastos, Jonathon Campbell, Didi Bang, James C. Brust, Petros Isaakidis, Christoph Lange, Giovanni Battista Migliori, Jean William Pape, Domingo Palmero, Stalz C. Vilbrun, Piret Viiklepp, Jonathan W. Walsh, Suzanne Marks
- 739 CD4 COUNT AND VIRAL LOAD DYNAMICS UNDER DIFFERENT ART REGIMENS IN HIV/TB COINFECTION**
 Rosana Elisa G. Pinho, Ana R. Pati Pascom, Kleydson Alves, Patricia B. Oliveira, Ana Izabel Menezes, Filipe Barros Perini, Ronaldo De Almeida Coelho, Gerson F. Pereira, **Vivian I. Avelino-Silva**
- 740 SUBOPTIMAL TUBERCULOSIS TREATMENT COMPLETION: A MULTICENTER OBSERVATIONAL STUDY**
Felipe Ridolfi, Lauren Saag Peetluk, Gustavo Amorin, Megan M. Turner, Marina Cruvinel, Marcelo Cordeiro-Santos, Solange Cavalcante, Afrânio Kritski, Betina Durovni, Bruno Andrade, Timothy R. Sterling, Valéria C. Rolla
- 741 N-ACETYLCYSTEINE FOR ANTI-TB DRUG-INDUCED LIVER INJURY: A RANDOMISED CONTROLLED TRIAL**
Muhammed S. Moosa, Gary Maartens, Hannah Gunter, Shaaazia Allie, Mashiko Setshedi, Mohamed F. Chughlay, Nicole Kramer, Annemie Stewart, Wendy Spearman, Mark Sonderup, Karen Cohen
- 742 HIV, TUBERCULOSIS, AND CHRONIC LUNG DISEASE AMONG KENYAN ADULTS**
Jerry S. Zifodya, Tecla M. Temu, Sarah Masyuko, George Nyale, Jerusha Nyabiage, Dickens Onyango, John Kinuthia, Stephanie Page, Sylvia LaCourse, Carey Farquhar, Kristina Crothers

Poster P-003 NEW PERSPECTIVES IN PMTCT
Poster Hall B

2:30 PM - 4:00 PM

- 775 CABOTEGRAVIR PHARMACOKINETIC TAIL IN PREGNANCY AND NEONATAL OUTCOMES**
Parul Patel, Shanker Thiagarajah, Susan Ford, David A. Margolis, Beth H. Romach, Mark Baker, Kenneth Sutton, Conn M. Harrington, Mark S. Shaefer, William Spreen, Kimberly Smith, Vani Vannappagari
- 776 RILPIVIRINE IN HIV-1-INFECTED WOMEN INITIATING PREGNANCY: TO SWITCH OR NOT TO SWITCH?**
Pierre Frange, Roland Tubiana, Jeanne Sibiude, Ana Canestri, Cedric Arvieux, Cecile Brunet-Cartier, Laurent Cotte, Sophie Matheron, Jacques Reynes, Laurent Mandelbrot, Josiane Warszawski, Jérôme Le Chenadec, for the ANRS EPF C01/C011 Study Group
- 777 COST-EFFECTIVENESS OF BROADLY NEUTRALIZING ANTIBODIES FOR INFANT HIV PROPHYLAXIS**
Caitlin Dugdale, Sallie Permar, Lynda Stranix-Chibanda, Rochelle P. Walensky, Genevieve Fouda, Landon Myer, Coleen K. Cunningham, Milton C. Weinstein, Valériane Leroy, Elizabeth J. McFarland, Kenneth Freedberg, Andrea L. Ciaranello
- 778 WITHDRAWN**

- 779 HIV SEROCONVERSION DURING PREGNANCY AT ROUTINE ANTENATAL CARE CLINICS IN BOTSWANA**
Katrina F. Ortblad, Shreshth Mawandia, Odirile Bakae, Lenna Tau, Matias Grande, Goabaone Mogomotsi, Esther Mmatli, Modise Ngombo, Laura Seckel, Renee Heffron, Jillian Pintye, Jenny Ledikwe
- 780 TRENDS IN MARIJUANA, ALCOHOL, AND OPIOID USE IN PREGNANT AND POSTPARTUM HIV+ WOMEN**
Lynn M. Yee, Deborah Kacane, Chase Brightwell, Lisa B. Haddad, Jennifer Jao, Kathleen M. Powis, Tzy-Jyun Yao, George R. Seage, Ellen G. Chadwick
- 781 TRANSMISSION, VARIATION, AND EVOLUTION OF IN UTERO TRANSMITTED HIV-1**
Manukumar Honnayakanahalli Marichannegowda, Michael Mengual, Amit Kumar, Elena E. Giorgi, David R. Martinez, Joshua J. Tu, Xiaojun Li, Sallie Permar, Feng Gao

Poster P-004 ENHANCING INFANT DIAGNOSIS AND PROPHYLAXIS
Poster Hall B 2:30 PM - 4:00 PM

- 782 MATERNAL RISK STRATIFICATION TO IDENTIFY HIGH-RISK INFANTS FOR HIV BIRTH TESTING**
Haurovi Mafaune, Emma Sacks, Addmore Chadambuka, Emmanuel Tachiwenyika, Francis Simmonds, Reuben Musarandega, Tichaona Nyamundaya, Jennifer Cohn, Agnes Mahomva, Angela Mushavi
- 783 POINT-OF-CARE TESTING IMPROVES EARLY INFANT DIAGNOSIS IN THE PUBLIC HEALTH SECTOR**
Jessica Joseph, Melody Wang, Caroline E. Boeke, Zelalem M. Abate, Charles Atem, Adisu Kebede, Phibeon M. Mangwendeza, Ellen Munemo, Divine Nzuobontane, Shaukat Khan, Trevor Peter, Jilian Sacks
- 784 EVALUATION OF PERFORMANCE AND USABILITY OF CEPHEID XPERT HIV -1 QUAL ASSAY IN MALAWI**
Maggie N. Nyang'Wa, Augustine Choko, Angela Obasi, Chisomo Msefula, Maganizo Chagomerana, Sarah Watters, Kevin Mortimer, Neil Kennedy, Derek Fairley, Nigel Klein, Dagmar Alber
- 785 EARLY INFANT DIAGNOSIS: STRENGTHEN EXISTING SYSTEMS OR INVEST IN POINT-OF-CARE?**
Nicole McCann, Jennifer Cohn, Clare Flanagan, Emma Sacks, Sushant Mukherjee, Addmore Chadambuka, Haurovi Mafaune, Rochelle P. Walensky, Collins O. Odhiambo, Kenneth Freedberg, Oluwarantimi Adetunji, Christopher Panella, Andrea L. Ciaranello
- 786 MOTIVATIONAL INTERVIEWING RETENTION COUNSELING AND CHILD HIV TESTING IN SOUTH AFRICA**
Dorina Onoya, Nelly Jinga, Cornelius Nattey, Constance Mongwenyana, Sithabile Mngadi, Gayle G. Sherman
- 787 MOTHERS' ADHERENCE HELPS IN IDENTIFYING MORE INFANTS IN NEED OF EXTENDED PROPHYLAXIS**
Sara Dominguez Rodriguez, Pablo Rojo Conejo, Maria G. Lain, Afaaf Liberty, Shaun Barnabas, Elisa López Varela, Kennedy N. Otworld, Siva Danaviah, Eleni Nastuoli, Miquel Serna Pascual, Viviana Gianuzzi, Carlo Giaquinto, Louise Kuhn, Alfredo Tagarro, for the EPIICAL Consortium
- 788 IMPROVED HEMATOLOGICAL OUTCOMES WITH NEVIRAPINE FOR INFANT HIV POSTNATAL PROPHYLAXIS**
Catherine Dollfus, Jérôme Le Chenadec, Laurent Mandelbrot, Roland Tubiana, Albert Faye, Stephane Blanche, Pierre Frange, Josiane Warszawski, for the ANRS C01 et C011

Poster P-005 INTEGRASE STRAND TRANSFER INHIBITORS IN PREGNANCY**Poster Hall B****2:30 PM - 4:00 PM****789 TOXICITY OF INTEGRASE INHIBITORS IN A HUMAN EMBRYONIC STEM-CELL MODEL****Marie-Soleil R. Smith**, Hélène C. Côté**790 ESTIMATES OF PERICONCEPTIONAL EXPOSURES TO INTEGRASE INHIBITORS UNITED STATES****Margaret A. Lampe**, Jeff Wiener, Jennita Reefhuis, Steven R. Nesheim**791 OUTCOMES FOLLOWING PRENATAL EXPOSURE TO DOLUTEGRAVIR: THE DOLOMITE-EPPICC STUDY****Claire Thorne**, Virginia Rasi, Karoline Aebi-Popp, Luminita Ene, Marco Florida, Natalia Mendoza Palomar, Luis M. Prieto, Leigh Ragone, Rebecca Sconza, Carlo Giaquinto, Vani Vannappagari, for the Dolomite-EPPICC Study Group**792 CHANGES IN DTG USE FOLLOWING THE NTD SAFETY SIGNAL IN BOTSWANA****Rebecca Zash**, Chelsea Morroni, Gloria K. Mayondi, Modiegi D. Diseko, Judith Mabuta, Mompoti O. Mmalane, Joseph Makhema, Mimi Raesima, Tendani Gaolathe, Tumalano Sekoto, Shahin Lockman, Roger L. Shapiro**Poster P-P03 CHARACTERIZING THE HIV RESERVOIR IN INFANTS AND CHILDREN****Poster Hall B****2:30 PM - 4:00 PM****810 MARKERS OF HIV RESERVOIR SIZE IN INFECTED CHILDREN ON LONG-TERM VIRAL CONTROL****Stefano Rinaldi**, Suresh Pallikkuth, Lesley R. De Armas, Rajendra Pahwa, Nicola Cotugno, Pablo Rojo Conejo, Eleni Nastouli, Kathleen Gärtner, Nigel Klein, Caroline Foster, Anita De Rossi, Carlo Giaquinto, Paolo Rossi, Paolo Palma, Savita Pahwa**811 PROVIRAL LANDSCAPE IN CHILDREN PARALLELS ADULTS AND ENABLES RESERVOIR RECONSTRUCTION****Jenna M. Hasson**, Mary Grace K. Katusiime, Samuel Smith, Michael J. Bale, Liliana Perez-Rodriguez, Divya Kilam, Wei Shao, Mark Cotton, Eli A. Boritz, John M. Coffin, John W. Mellors, Sean Patro, Gert U. van Zyl, Mary F. Kearney**812 CELL-ASSOCIATED HIV-1 DNA/RNA IN CHILDREN: PERFORMANCE OF REAL-TIME AND DIGITAL PCR****Kathleen Gärtner**, Triantafylia Gkouleli, Judith Heaney, Paul Grant, Sara Dominguez Rodriguez, Eloise Busby, Denise O'Sullivan, Moira J. Spyer, Caroline Foster, Pablo Rojo Conejo, Deborah Persaud, Anita De Rossi, Jim Huggett, Eleni Nastouli, for the EPIICAL Consortium**813 ASSESSMENT OF HIV-1 DNA BY SINGLE-GENOME SEQUENCING IN CHILDREN ON SUPPRESSIVE ART****Kathleen Gärtner**, Triantafylia Gkouleli, Matthew Byott, Judith Heaney, Moira J. Spyer, Anita De Rossi, Deborah Persaud, Paolo Palma, Carlo Giaquinto, Pablo Rojo Conejo, Caroline Foster, Anne-Geneviève Marcelin, Paolo Rossi, Eleni Nastouli, for the EPIICAL Consortium**814 DIFFERENCES IN THE INDUCED LATENT HIV RESERVOIR IN PERINATAL AND ADULT INFECTIONS****Adit Dhummakupt**, Jessica Rubens, Thuy Anderson, Laura Powell, Bareng Nonyane, Lilly V. Siems, Aleisha Collinson-Streng, Tricia Niles, Richard Jones, Vicki Tepper, Allison Agwu, Deborah Persaud

Poster P-P06 METABOLIC AND CARDIOVASCULAR COMPLICATIONS IN CHILDREN AND YOUTH

Poster Hall B

2:30 PM - 4:00 PM

- 826 EFFECT OF INTEGRASE INHIBITORS ON WEIGHT GAIN IN CHILDREN AND ADOLESCENTS WITH HIV**
Sahera Dirajlal-Fargo, **Wei Li A. Koay**, Matthew E. Levy, Anne K. Monroe, Amanda D. Castel, Natella Rakhmanina, for the DC Cohort Executive Committee
- 827 BODY FAT AND LIPID PROFILE CHANGES IN HIV-INFECTED YOUTHS SWITCHED TO DOLUTEGRAVIR**
Vania Giacomet, Samuel Lazzarin, Andrea Manzo, Emma Longoni, Katia Maruca, Paola Erba, Federica Forlanini, GianVincenzo Zuccotti, Stefano Mora
- 828 CHER TRIAL COHORT SHOWS GREATER INSULIN RESISTANCE INTO ADOLESCENCE**
Claire Davies, Steve Innes, Mark Cotton, Sara H. Browne, Birhanu Ayele
- 829 CARDIOVASCULAR RISK PROFILE: A CLINIC-BASED SAMPLE OF YOUTH LIVING WITH HIV IN THE US**
Sitaji Gurung, Kit N. Simpson, Christian Grov, H. Jonathon Rendina, Terry T. Huang, Stephen Scott Jones, Marshall Chew, Tyra Dark, Sylvie Naar
- 830 SOLUBLE CD14 IS ASSOCIATED WITH ENDOTHELIAL DYSFUNCTION IN SOUTH AFRICAN YOUTH ON ART**
Sahera Dirajlal-Fargo, Jiao Yu, Abdus Sattar, Sana Mahtab, Jennifer Jao, Landon Myer, Heather Zar, Grace A. McComsey
- 831 VASCULAR DISEASE, IMMUNE ACTIVATION, AND GUT DYSFUNCTION IN HIV+ UGANDAN CHILDREN**
Sahera Dirajlal-Fargo, Emily Bowman, Danielle Labbato, Zainab Albar, Christine Karungi, Rashidah Nazinda, Abdus Sattar, Nicholas Funderburg, Cissy Kityo, Victor Musiime, Grace A. McComsey

Poster P-P08 NOVEL APPROACHES TO PEDIATRIC ANTIRETROVIRAL DOSING AND SAFETY

Poster Hall B

2:30 PM - 4:00 PM

- 839 IDENTIFICATION OF AGE-APPROPRIATE DOSING STRATEGIES OF BICTEGRAVIR IN NEONATES**
Fazila S. Bunglawala, Rajith Kumar Reddy Rajoli, Hannah Kinvig, Nicolas Cottura, Andrew Owen, Marco Siccardi
- 840 SAFETY, PK, AND EFFICACY OF LOW DOSE B/F/TAF IN CHILDREN ≥2 YEARS OLD LIVING WITH HIV**
Carina Rodriguez, Kulkanya Chokephaibulkit, Afaaf Liberty, Renate Strehlau, Riana Van Zyl, Pope Kosalaraksa, Coleen K. Cunningham, Eric J. McGrath, Natella Rakhmanina, Heather Maxwell, Danielle Porter, Sophia R. Majeed, Shaolan S. Xiang, Diana Brainard, Cheryl Pikora
- 841 B/F/TAF LOW-DOSE TABLET RELATIVE BIOAVAILABILITY IN HVs AND PK IN CHILDREN WITH HIV**
Sophia R. Majeed, Polina German, Steve K. West, Shaolan S. Xiang, Deqing Xiao, Michael Keeney, Joanna Koziara, PJ Costales, Jenna Scott, Hiba Graham, Cheryl Pikora, Anita Mathias

- 842 MARAVIROC SAFETY & PHARMACOKINETICS IN HIV-EXPOSED NEONATES**
Julia C. Rosebush, Brookie Best, Ellen G. Chadwick, Jack Moye, Elizabeth Smith, Kevin Butler, Sarah Bradford, Kyle Whitson, Sisinyana R. Mathiba, Sherika Hanley, Mariam Aziz, Katy Hayward, Mark Mirochnick, Pearl Samson, for the IMPAACT 2007 Study Team
- 843 ABACAVIR SAFETY AND PHARMACOKINETICS IN NORMAL AND LOW BIRTH WEIGHT INFANTS WITH HIV**
Tim R. Cressey, Adrie Bekker, Mae Cababasay, Jiajia Wang, Firdose Nakwa, Elizabeth Smith, Jack Moye, Avy Violari, Mark Cotton, Bobbie Graham, Lubbe Wiesner, Helena Rabie, Mark Mirochnick, Edmund V. Capparelli, for the IMPAACT P1106 Team
- 844 ABACAVIR DOSING, EFFECTIVENESS, AND SAFETY IN YOUNG INFANTS LIVING WITH HIV IN EUROPE**
Siobhan Crichton, Intira J. Collins, Anna Turkova, Luminita Ene, Luisa Galli, Magdalena Marczyńska, Maria Luisa Navarro, Lars Naver, Antoni Noguera-Julian, Yulia Plotnikova, Henriëtte J. Scherpbier, Alla Volokha, Evgenly Voronin, Ali Judd, for the European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC)
- 845 ABACAVIR SAFETY AND EFFICACY IN YOUNG INFANTS IN SOUTH AFRICAN OBSERVATIONAL COHORTS**
Renee De Waal, Helena Rabie, Karl Technau, Brian Eley, Nosisa Sipambo, Mark Cotton, Andrew Boule, Robin Wood, Frank Tanser, Geoffrey Fatti, Matthias Egger, Mary-Ann Davies
- 846 PHARMACOKINETICS OF RALTEGRAVIR IN HIV/TB COTREATED INFANTS AND YOUNG CHILDREN**
Paul Krogstad, Pearl Samson, Edward P. Acosta, Jack Moye, Ellen Townley, Sarah Bradford, Emily Brown, Bobbie Graham, Laura Hovind, Hedy Teppler, Sisinyana R. Mathiba, Mark Cotton, Jana L. Winckler, Tammy Meyers, for the IMPAACT P1101 Study Team
- 847 ADEQUATE DOLUTEGRAVIR EXPOSURE DOSED BID WITH RIFAMPICIN IN CHILDREN 6 TO <18 YEARS**
Hylke Waalewijn, Hilda Mujuru, Pauline Amuge, Mark Cotton, Pauline Bollen, Man Chan, Shabinah Ali, Ebrahim Variava, Shafic Makumbi, Angela Colbers, Diana Gibb, Deborah Ford, David M. Burger, Anna Turkova, for the Odyssey Trial Team

Poster P-Q06 HIV IN TRANSGENDER WOMEN AND MEN

Poster Hall D

2:30 PM - 4:00 PM

- 878 PREEXPOSURE PROPHYLAXIS ADHERENCE AND PERSISTENCE IN KENYAN TRANSGENDER WOMEN AND MSM**
Makobu Kimani, Elisabeth M. van der Elst, Oscar Chirro, Fauz Ibrahim, Nana Mukuria, Tobias F. Rinke de Wit, Susan M. Graham, Eduard Sanders
- 879 HIV PREVALENCE AND RISK IN MALE, TRANSMALE, AND TRANSFEMALE SEX WORKERS IN ZIMBABWE**
 Mariëlle Kloek, Laura Van Noord, Sungai T. Chabata, Sithembile Musemburi, Sake De Vlas, Frances Cowan, **Jan A. Hontelez**
- 880 FACTORS ASSOCIATED WITH HIV, HCV, AND HSV 2 SEROSTATUS AMONG US TRANSGENDER WOMEN**
Morgan P. Keruly, Andrea L. Wirtz, George Mwinnyaa, Sari L. Reisner, ScD, Oliver Laeyendecker, for the American Cohort to Study HIV Acquisition among Transgender Women (LITE) Study Group

881 HIV PREVALENCE AMONG TRANSGENDER MEN AT AN NYC COMMUNITY HEALTH CENTER

Asa Radix, Zil Goldstein, Alexander Harris, Rona Vail

882 PROGRESSION THROUGH THE HIV CARE CONTINUUM FOR TRANSGENDER WOMEN IN THE NA-ACCORD

Catherine R. Lesko, Jessie K. Edwards, Yuezhou Jing, Richard D. Moore, Michael A. Horberg, Peter F. Rebeiro, Ashleigh Rich, Michael J. Silverberg, Angel M. Mayor, Joseph J. Eron, Heidi M. Crane, W. C. Mathews, Keri N. Althoff, Tonia Poteat, for the NA-ACCORD of IeDEA

883 HIV CARE AMONG TRANSGENDER WOMEN IN NORTHERN AND WESTERN PARIS: 2008-2018

Lucas Maisonnobe, Florence Michard, Anaenza Freire Maresca, Sylvie Le Gac, Zélie Julia, Juliette Gerbe, Giovanna Rincon Murillo, Elisabeth Rouveix, Yazdan Yazdanpanah

884 IMPROVING DATA ON THE NYC HIV EPIDEMIC BY IDENTIFYING TRANSGENDER PEOPLE ON MEDICAID

Cristina Rodriguez-Hart, Beverly Obeng, Asa Radix, Zil Goldstein, Gagarin Zhao, Lucia V. Torian

**Poster P-Q07 SUBSTANCE USE AND HIV
Poster Hall D**

2:30 PM - 4:00 PM

885 BUPRENORPHINE TREATMENT IS RELATED TO DECREASED HIV RNA LEVELS AMONG PEOPLE WITH HIV

Jongyeon Kim, Geetanjali Chander, Catherine R. Lesko, Anthony T. Fojo, Richard D. Moore, Bryan Lau

886 AFFORDABLE CARE ACT'S IMPACT ON SUBSTANCE-USE TREATMENT IN PEOPLE WHO INJECT DRUGS

Erik M. Hendrickson, Tarik Benmarhnia, Steffanie A. Strathdee, Jazmine Cuevas-Mota, Richard S. Garfein

887 UNMET NEED FOR MEDICATION-ASSISTED TREATMENT AMONG PERSONS WHO INJECT DRUGS

Senad Handanagic, Dita Broz, Cyprian Wejnert, for the NHBS Study Group

888 UNMET NEEDS AND BARRIERS TO CARE SERVICES AMONG HIV-POSITIVE PERSONS WHO INJECT DRUGS

Sharoda Dasgupta, Yunfeng Tie, Linda Beer, Dita Broz, Quan M. Vu, **Hanna B. Demeke**

889 ESTIMATING HIV INCIDENCE AMONG PWID: POPULATION- AND FACILITY-BASED APPROACHES

Allison M. McFall, Sunil S. Solomon, Oliver Laeyendecker, Syed Iqbal, Shanmugam Saravanan, Nandagopal Paneerselvam, Pachamuthu Balakrishnan, Aylur K. Srikrishnan, David D. Celentano, Gregory M. Lucas, Shruti H. Mehta

890 OPTIMIZING SOCIAL-NETWORK SAMPLING TO FIND UNDIAGNOSED HIV-INFECTED PWID

Allison M. McFall, Bryan Lau, Carl A. Latkin, Aylur K. Srikrishnan, Santhanam Anand, Canjeevaram K. Vasudevan, Shruti H. Mehta, Sunil S. Solomon

891 LATENT CLASS ANALYSIS OF SUBSTANCE USE AND HIV VL TRAJECTORY PATTERNS AMONG PWH IN DC

Morgan Byrne, Anne K. Monroe, Lindsey J. Powers Happ, Rupali K. Doshi, Michael A. Horberg, Amanda D. Castel, for the DC Cohort Executive Committee

892 MORTALITY AMONG PERSONS WITH HIV WITH A HISTORY OF INJECTION DRUG USE, NEW YORK CITY**Chitra Ramaswamy**, Sarah L. Braunstein**893 HCV, AIDS, LIVING IN US SOUTH ARE RISK FACTORS FOR MORTALITY IN HIV+ SUBSTANCE USERS****Mamta K. Jain**, Mark A. Vasquez, Lauren Gooden, Rui Duan, C. Mindy Nelson, Daniel J. Feaster, Ank E. Nijhawan, Jonathan Colasanti, Meg Sullivan, Allan Rodriguez, Gerogina Osorio, Robrina Walker, Petra Jacobs, Carlos del Rio, Lisa R. Metsch**894 HIGH MORTALITY RATE AMONGST HIV INFECTED PEOPLE WHO INJECT DRUGS (PWID) IN SCOTLAND****Rebecca Metcalfe**, Andrew McAuley, Saket Priyadarshi, Laura Sills, Sharon Hutchinson**895 ASSOCIATIONS OF ALCOHOL CONSUMPTION WITH VIRAL SUPPRESSION AND ALL-CAUSE MORTALITY****Adam Trickey**, Suzanne Ingle, Lei Zhang, Mario Sarcletti, Matthias Cavassini, Michael Saag, Heidi M. Crane, Derek Satre, Michael J. Silverberg, Amy C. Justice, Jonathan Sterne, for the ART-CC and the COMpAAS Consortium**Poster P-Q08 MENTAL HEALTH AND HIV
Poster Hall D****2:30 PM - 4:00 PM****896 DEPRESSION AND VIROLOGIC REBOUND AMONG PATIENTS WITH HIV IN THE UNITED STATES****Quan M. Vu**, R. L. Shouse, John Weiser**897 PREVALENCE AND FACTORS RELATED TO TRAUMA SYMPTOMS AMONG PEOPLE WITH HIV****Bryan Lau**, Karine Yenokyan, Catherine R. Lesko, Mary McCaul, Richard D. Moore, Heidi Hutton, Geetanjali Chander**898 MENTAL HEALTH AND SUBSTANCE ABUSE SERVICES AND RETENTION IN HIV CARE IN NORTH AMERICA****Cassandra Oliver**, Bryan Lau, Keri N. Althoff, Kate Buchacz, Heidi M. Crane, Michael John Gill, Michael A. Horberg, Kenneth H. Mayer, Angel M. Mayor, Richard D. Moore, Asher Schranz, Timothy R. Sterling, April Pettit, Peter Rebeiro, for the NA-ACCORD of IeDEA**899 MORTALITY IN PEOPLE LIVING WITH HIV AND MENTAL HEALTH DISORDERS IN SOUTH AFRICA****Andreas D. Haas**, Yann Ruffieux, Ernest Mokotoane, Johannes P. Mouton, Mpho Tlali, Mary-Ann Davies, Matthias Egger, Gary Maartens, for the IeDEA Southern Africa Collaboration**Poster P-Q09 METHODS IN EPIDEMIOLOGY
Poster Hall D****2:30 PM - 4:00 PM****900 COMPARING METHODS FOR ESTIMATING SEXUAL TRANSMISSION RISK AMONG US ADULTS WITH HIV****Yunfeng Tie**, Sharoda Dasgupta, Linda Beer, Jennifer Fagan, Qian An, R. L. Shouse**901 USING SURVEILLANCE DATA TO MEASURE TRIAL HIV INCIDENCE OUTCOMES: A MODELLING STUDY****Kate M. Mitchell**, Dobromir Dimitrov, James Hughes, Eric Vittinghoff, Albert Y. Liu, Chris Beyrer, Deborah J. Donnell, Marie-Claude Boily

- 902

PAST BEHAVIOR OUTPERFORMS DEMOGRAPHY AND GEOGRAPHY AS PREDICTOR OF MISSED HIV CARE

April Pettit, Aihua Bian, Cassandra Oliver, Peter F. Rebeiro, Bryan E. Shepherd, Jeanne C. Keruly, Kenneth H. Mayer, W. C. Mathews, Richard D. Moore, Heidi M. Crane, Elvin Geng, Sonia Napravnik, Mari M. Kitahata, Michael J. Mugavero, for the CNICS Group
- 903

THE CD4 DEPLETION MODEL DOES NOT DIFFERENTIATE INCIDENT FROM CHRONIC INFECTION

Michael E. Tang, Sanjay R. Mehta, Susan J. Little, Christy M. Anderson
- 904

ESTIMATING INCIDENCE AT A REGIONAL LEVEL WITH THE CD4 DEPLETION MODEL

Sanjay R. Mehta, Michael E. Tang, Christy M. Anderson, Susan J. Little
- 905

KEY POPULATION SIZE ESTIMATION IN NIGERIA: NOVEL APPROACHES TO SAMPLING AND ANALYSIS

Anne McIntyre, Andrew Mitchell, Samuel Nwafor, Victor Sebastian, Ameer M. Schwitters, Julia Lo, Ibrahim Dalhatu, Mahesh Swaminathan, Kristen Stafford, Man Charurat
- 906

GEOSPATIAL HIV DYNAMICS IN FRANCE: A GRAVITY EFFECT MODEL

Marie-Laure Chaix Baudier, Benoit Visseaux, Lambert Assoumou, Marc Wirден, Lot Florence, Laurence Morand-Joubert, Stephanie Raymond, Laurence Bocket, Constance Delaugerre, Francis Barin, Diane Descamps, Davey M. Smith, **Antoine Chaillon**, for the ANRS AC43 Study Group

Poster P-R03 POINT-OF-CARE TESTING

Poster Hall D

2:30 PM - 4:00 PM

- 950

INDETERMINATE HIV RAPID-TEST RESULTS: OUTCOMES AND RISK FACTORS

George Mwinnyaa, Mary K. Grabowski, Ronald H. Gray, Maria Wawer, Larry W. Chang, Joseph Ssekasanvu, Joseph Kagaayi, Godfrey Kigozi, Ronald M. Galiwango, Anthony Ndyababo, David Serwadda, Thomas C. Quinn, Steven J. Reynolds, Oliver Laeyendecker, for the The Rakai Community Cohort Study
- 951

SIGNIFICANT UNDERQUANTIFICATION OF HIV RNA WITHIN ROUTINE SETTINGS IN SOUTH AFRICA

Ahmad Haeri Mazanderani, Tendesayi Kufa-Chakezha, Tanya Murray, Aurelie Mukendi, Faith Moyo, Kate Braithwaite, Karl Technau, Sergio Carmona, Gayle G. Sherman
- 952

EVALUATION OF A TRUE POC VIRAL LOAD TEST: SAMBA LEUCO-DEPLETED WHOLE BLOOD HIV ASSAY

Gary Brook, Tetiana Stepchenkova, Innocent M. Ali, Sandra Chipuka, Helen Lee
- 953

MODELING POINT-OF-CARE NUCLEIC ACID TESTS (POC NAT) TO MINIMIZE HIV MISDIAGNOSES

Anne M. Neilan, Jennifer Cohn, Emma Sacks, Aditya Gandhi, Patricia Fassinou, Kenneth Freedberg, Marc N. Kouadio, Rochelle P. Walensky, Andrea L. Ciaranello

954 EVALUATION OF QUALITATIVE AND SEMIQUANTITATIVE HIV POINT-OF-CARE NUCLEIC ACID TESTS

Lauren R. Violette, Andy M. Cornelius-Hudson, Madison A. Snidarich, Sonny Michael Assennato, Allyson Ritchie, Neha Goel, Pollyanna R. Chavez, Steven Ethridge, Helen Lee, Kevin P. Delaney, Joanne Stekler

Poster P-R04 HIV SELF-TESTING

Poster Hall D

2:30 PM - 4:00 PM

955 COMMUNITY-LED HIV SELF-TESTING INCREASES TESTING AND LINKAGE TO CARE OF MEN IN UGANDA

Joanita Nangendo, Joan Kalyango, Gloria O. Odei, Jane Kabami, Fred Semitala, Anne Katahoire, Charles Karamagi, Rhoda Wanyenze, Moses R. Kamy

956 UPTAKE OF HIV SELF-TESTING AMONGST YOUTH IN TERTIARY EDUCATION COLLEGES IN ZIMBABWE

Grace McHugh, Andrea L. Koris, Tsitsi Bandason, Katharina Kranzer, Rashida A. Ferrand

957 IS AN UNASSISTED PHARMACY-BASED HIV SELF-TESTING STRATEGY IN MOZAMBIQUE SUFFICIENT?

Caroline De Schacht, Carlota L. Fonseca, Paula Paulo, Noela Chicuecue, Anibal Fernando, Jalilo E. Chinai, Wilson Da Silva, Sofia Viegas, Sara Van Rompaey, Aleny Couto, C. William Wester

958 HIV SELF-TESTING AMONG KEY POPULATIONS AND SEXUAL PARTNERS OF NEW MOTHERS IN UGANDA

Esther M. Nasuuna, Florence Namimbi, James Wanyama, Alice Namale, Martin Ssuuna, Alex Muganzi, Joanita Kigozi

959 ACCEPTABILITY OF HIVST DISTRIBUTION BY PREGNANT WOMEN TO MALE PARTNERS: A CLOSER LOOK

Norma C. Ware, Monique A. Wyatt, Emily E. Pisarski, Andrew Mujugira, Connie L. Celum

960 "FIRST TO KNOW MY STATUS": ACCEPTABILITY OF HIV SELF-TESTING AMONG SOUTH AFRICAN MEN

Monique A. Wyatt, Emily E. Pisarski, Adrienne E. Shapiro, Kombi Sausi, Alastair Van Heerden, Oluwafemi A. Adeagbo, Janet Seeley, Connie L. Celum, Ruanne V. Barnabas, Norma C. Ware, for the DO ART Study Team

961 THE IMPACT AND COST OF HIV SELF-TEST DISTRIBUTION IN WORKPLACES IN SOUTH AFRICA

Cyprian Mostert, Trishanta Kisten, Linda Sande, Marc D'Elbee, Mohammed Majam, Vincent Zishiri, Willem D. Venter, Karin Hatzold, Cheryl Johnson, Joel M. Francis, Thato Chidarikire, Sharon White, Fern Terris-Prestholt, **Gesine Meyer-Rath**

962 COST-EFFECTIVENESS OF HIV SELF-TESTING AMONG LONG-DISTANCE TRUCK DRIVERS IN KENYA

Deo Mujwara, Elizabeth Kelvin, Gavin George, Eva Mwai, **April D. Kimmel**

963 CHARACTERISTICS OF MSM WHO REGISTER FOR HIV SELF-TESTING IN SAO PAULO, BRAZIL

Ricardo D. Vasconcelos, Vivian I. Avelino-Silva, Ivone P. De Paula, Leda Jamal, Maria Clara Gianna, Flavio Santos, Cristina Santos, Robinson Camargo, Eduardo Barbosa, Gilvane Casemiro, Maria Cristina Abbate, Marly M. Cruz, Aluisio C. Segurado, for the A Hora é Agora - SP

964 DOES PROVISION OF FREE HIV SELF-TESTING KITS INCREASE HIV DIAGNOSIS IN MSM?

Alison Rodger, Leanne McCabe, Andrew N. Phillips, Fiona Lampe, Fiona M. Burns, Denise Ward, Valerie Delpech, Peter Kirwan, Peter Weatherburn, T Charles Witzel, Roger Pebody, Roy Trevelion, Yolanda Collaco-Moraes, Sheena McCormack, David Dunn

Poster P-S05 PrEP DRUG RESISTANCE AND RENAL IMPAIRMENT

Poster Hall D

2:30 PM - 4:00 PM

1002 HIV-1 DRUG RESISTANCE IN THE DISCOVER PREEXPOSURE PROPHYLAXIS TRIAL

Stephanie W. Cox, Urvi Parikh, Amy Heaps, Breanna J. Goetz, John W. Mellors, Xinan Liu, Ross Martin, Jenny Svarovskaia, Hadas Dvory-Sobol, Scott McCallister, Christian Callebaut

1003 PrEP SEROCONVERSION-SEGMENTAL HAIR ANALYSIS FOR UNRAVELING TIMING OF VIRAL RESISTANCE

Brentton T. Lowery, Hideaki Okochi, Karen Kuncze, Nhi Phung, Cheryl McDonald, Matthew A. Spinelli, Anthony Mills, Patricia A. Defechereux, Kathryn Jee, Peter L. Anderson, Robert M. Grant, **Monica Gandhi**

1004 RENAL IMPAIRMENT IN A PREEXPOSURE PROPHYLAXIS IMPLEMENTATION COHORT IN AUSTRALIA

Hamish McManus, Douglas Drak, Jack E. Heron, Tobias Vickers, Stefanie Vaccher, Iryna Zablotska, Rebecca J. Guy, Benjamin Bavinton, Fengyi Jin, Andrew E. Grulich, Mark Bloch, Catherine C. O'Connor, David Gracey, for the EPIC Study

Poster P-S06 PrEP SCALE-UP: COST AND SYSTEM-BASED FACTORS

Poster Hall D

2:30 PM - 4:00 PM

1005 DEVELOPMENT OF A PrEP EQUITY INDEX TO SET LOCAL TARGETS FOR PrEP COVERAGE

Julie Myers, Sarah L. Braunstein, Zoe R. Edelstein, Alexis Rivera, Njideka Motanya, Oni J. Blackstock

1006 IMPLEMENTATION OF ON-DEMAND PrEP IN A LARGE INTEGRATED HEALTH CARE SYSTEM

J. Carlo Hojilla, Julia L. Marcus, Rachel Herbers, Charles B. Hare, Leo Hurley, Michael J. Silverberg, Derek Satre, Jonathan E. Volk

1007 USE OF HIV PREDICTION MODEL TO EVALUATE PrEP COVERAGE IN A LARGE HEALTH CARE SYSTEM

Julia L. Marcus, Leo Hurley, Michael J. Silverberg, J. Carlo Hojilla, Jacek Skarbinski, Stacey Alexeeff, Douglas Krakower, Jonathan E. Volk

1008 POPULATION-BASED ESTIMATES OF PrEP ACCESS-TO-NEED IN OREGON, 2012-2016

Tim W. Menza, Jeff Capizzi, Lea Bush

1009 STUDY SUGGESTS PrEP ACCESS ISSUE: DISPARITY IN PRIOR AUTHORIZATIONS ACROSS US REGIONS

Kathleen A. McManus, Samuel Powers, Amy Killelea, Sebastian Tello-Trillo, Elizabeth Rogawski Mcquade

1010 FACTORS ASSOCIATED WITH LOSS TO RETENTION AMONG FREE AND FEE-BASED PrEP IN THAILAND

Tanat Chinbunchorn, Oranuch Nampaisarn, Sita Lujintanon, Surang Janyam, Theeranat Sangprasert, Phongthorn Chanlearn, Akarin Hiransuthikul, Matthew Avery, Stephen Mills, Ravipa Vannakit, Reshmie Ramautarsing, Praphan Phanuphak, Nittaya Phanuphak

1011 COSTS OF PROVIDING PREEXPOSURE PROPHYLAXIS FOR HIV PREVENTION IN US HEALTH CENTERS

Ram K. Shrestha, Nicholas Davis, Megan Coleman, Laura Rusie, Dawn K. Smith

1012 THIRD-PARTY PAYER AND PATIENT OUT-OF-POCKET COSTS FOR PrEP: UNITED STATES, 2017

Nathan W. Furukawa, Weiming Zhu, Ya-Lin A. Huang, Ram K. Shrestha, Karen W. Hoover

Poster P-S07 FACTORS IMPACTING PREVENTION: INTIMATE PARTNER VIOLENCE, WHITE COAT EFFECT, SEX WORK, AND SOCIAL INFLUENCERS

Poster Hall D

2:30 PM - 4:00 PM

1013 SOCIAL MEDIA INFLUENCERS ENHANCE RECRUITMENT OF YOUNG THAI MSM INTO PrEP INTERVENTION

Chris Beyrer, Brian Weir, Andrea L. Wirtz, Hsu Hnin Mon, Midnight Poonsaketwattana, Patrick S. Sullivan, Stefan Baral, Chen Dun, for the COPE4YMSM Study Team

1014 PrEP NONADHERENCE, WHITE COAT DOSING, AND HIV RISK AMONG A HIGH-RISK COHORT OF MSM

Cherie S. Blair, Matthew R. Beymer, Ryan M. Kofron, Robert Bolan, Wilbert C. Jordan, James F. Rooney, Amy R. Wohl, Raphael J. Landovitz

1015 IMPACT OF THE "CHARISMA" INTERVENTION PILOT ON PARTNER DISCLOSURE, IPV, AND ADHERENCE

Elizabeth Montgomery, Sarah T. Roberts, Krishnaveni Reddy, Betsy Tolley, Miriam Hartmann, Ellen Wilson, Florence Mathebula, Danielle Wagner, Seth Zissette, Michele Lanham, Rose Wilcher, Jared Baeten, Thesla Palanee-Phillips

1016 REDUCED RELIANCE ON SEX WORK: RESULTS OF AN INTERVENTION FOR YOUNG WOMEN IN TANZANIA

Jenny Tiberio, **Susie Welty**, Joel Ndayongeje, Christen Said, Ritha Mboneko, Tania Reza, Willi McFarland

Poster P-S08 PrEP IN TRANSWOMEN

Poster Hall D

2:30 PM - 4:00 PM

1017 TRANSPREP: SOCIAL NETWORK–BASED PrEP ADHERENCE FOR TRANSGENDER WOMEN IN LIMA, PERU

Jesse L. Clark, Sari L. Reisner, ScD, Amaya G. Perez-Brumer, Leyla Huerta Castillo, Hugo Sanchez, Hideaki Okochi, Maria Mamani Luque, Ximena Salazar, Matthew Mimiaga, Monica Gandhi, Kenneth H. Mayer, Javier R. Lama

1018 PrEP CONTINUUM OF CARE AMONG MSM AND TGW OF COLOR IN THE THRIVE DEMONSTRATION PROJECT

Kashif Iqbal, Weiming Zhu, Kenneth L. Dominguez, Mary Tanner, Kirk D. Henny, Karen W. Hoover

1019 PrEP INDICATION AND CARE CONTINUUM AMONG TRANSGENDER WOMEN IN THE UNITED STATES

Jowanna Malone, Sari Reisner, Andrea L. Wirtz, for the American Cohort to Study HIV Acquisition among Transgender Women (LITE) Study Group

- 1020 DISCOVER: NO EFFECT OF HORMONES ON F/TAF OR F/TDF PK, EFFICACY & SAFETY IN TRANSWOMEN**
Michelle S. Cespedes, Sophia R. Majeed, Maria Prins, Ivanka Krznaric, Anita Mathias, Deqing Xiao, Pamela Wong, Jason Hindman, Christoph Carter, Diana Brainard, Moupali Das, Elske Hoornenborg, Peter Ruane, John Phoenix, Jason Halperin
- 1021 ASSOCIATIONS BETWEEN HORMONE USE, PrEP USE, AND STIGMA IN US TRANSGENDER WOMEN**
Jessica L. Maksut, John Mark L. Wiginton, Maria Zlotorzynska, Carrie E. Lyons, Travis Sanchez, Ayden Scheim, Stefan Baral
- 1022 HIGH PrEP ADHERENCE AND PERSISTENCE IN A NATURALISTIC COHORT OF TRANSGENDER WOMEN**
Sarit A. Golub, Augustus Klein, Lila A. Starbuck, Alexander Harris, Amiyah Guerra, Christopher A. Rincon, Pedro Carneiro, Asa Radix

Poster P-S12 MALE CIRCUMCISION AND THE PENILE MICROBIOME
Poster Hall D **2:30 PM - 4:00 PM**

- 1037 LONG-TERM EFFECTIVENESS OF VOLUNTARY MEDICAL MALE CIRCUMCISION FOR HIV PREVENTION**
Gideon Loevinsohn, Godfrey Kigozi, Joseph Kagaayi, Fred Nalugoda, Larry W. Chang, David Serwadda, Steven J. Reynolds, Gertrude Nakigozi, Robert Ssekubugu, Maria Wawer, Aaron Tobian, Ronald H. Gray, **Mary K. Grabowski**, for the Rakai Health Sciences Program
- 1038 “STYLISH MAN” CLUSTER RCT TO INCREASE MALE CIRCUMCISION FOR ADULT MEN ≥19, UGANDA**
Maria Wawer, Godfrey Kigozi, Stephen Mugamba, Amos Zikusooka, Joseph Kagaayi, David Serwadda, Anthony Ndyanaabo, Joseph Ssekasanvu, Larry W. Chang, Ronald H. Gray
- 1039 SEX AND THE PENILE MICROBIOME: POTENTIAL SHARING OF HIV RISK—ASSOCIATED ANAEROBES**
Cindy M. Liu, Jessica L. Prodger, Ronald M. Galiwango, Godfrey Kigozi, Aggrey Anok, James Nnamutete, Mathias Agaba, Deo Male, Yahaya Isabirye, Maliha Aziz, **Daniel Park**, Tom De Man, Abigail Onos, Rupert Kaul, Aaron Tobian

Poster P-T02 SEXUALLY TRANSMITTED INFECTIONS: DIAGNOSIS AND PROGNOSIS
Poster Hall D **2:30 PM - 4:00 PM**

- 1050 A POINT-OF-CARE ASSAY FOR DIAGNOSIS OF NEUROSYPHILIS**
Hemil Gonzalez, Christina Marra, Igor Koralnik, Lauren Tantalo, Zachary Orban, Gregory D. Huhn
- 1051 IDENTIFYING AN HIV AND NEURO/OCULAR SYPHILIS CLUSTER IN VERMONT**
Devika Singh, Roy Belcher, Daniel Daltry, Abigail Crocker, Jennifer Read
- 1052 GYRASE A SERINE 91 GENOTYPING PREDICTS GONORRHEA CIPROFLOXACIN TREATMENT OUTCOME**
Jeffrey D. Klausner, Sheldon Morris, Claire C. Bristow, for the NIH/NIAID STAR STI CTG Ciprofloxacin Gyrase A Serine 91 Neisseria Gonorrhoeae Study Group
- 1053 IMPROVING DIAGNOSIS OF CT/NG AMONG PrEP USERS WITH MULTIPLE SITE SCREENING**
Jorge S. Moreira, Ricardo d. Vasconcelos, Vivian I. Avelino-Silva

1054 THE PERFORMANCE OF POOLED 3-ANATOMIC-SITE CHLAMYDIA AND GONORRHEA TESTING

Claire C. Bristow, Sanjay R. Mehta, Martin Hoenigl, Susan J. Little

1055 NO EVIDENCE OF CLINICAL IMPACT OF STIs ON SEMINAL HIV BURDEN DURING SUCCESSFUL ART

Christof Stingone, **Rossana Scutari**, Elisabetta Teti, Lorenzo Piermatteo, Vincenzo Malagnino, Marta Brugneti, Mirko Compagno, Ada Bertoli, Valentina Svicher, Maria M. Santoro, Carlo Federico Perno, Claudia Alteri, Loredana Sarmati, Massimo Andreoni, Francesca Ceccherini Silberstein

Poster P-T03 ISSUES IN CONTRACEPTION

Poster Hall D

2:30 PM - 4:00 PM

1056 RISK OF PELVIC INFLAMMATORY DISEASE WITH CONTRACEPTIVE METHOD USE IN THE ECHO TRIAL

Kavita Nanda, James Kiarie, Khatija Ahmed, Tsungai Chipato, Margaret P. Kasaro, Cheryl M. Louw, Charles S. Morrison, Susan Morrison, Nelly R. Mugo, Maricianah Onono, Thesla Palanee-Phillips, Katherine Thomas, Irina Yacobson, Valentine Wanga, for the ECHO Consortium

1057 VALIDATING INCIDENT PREGNANCIES AMONG WOMEN USING CONTRACEPTIVES AND ANTIRETROVIRALS

Rena Patel, Beatrice Jakait, Gustavo Amorin, Bryan E. Shepherd, Caitlin Bernard, A. Rain Mocello, Beverly Musick, Marisiana A. Onono, Craig R. Cohen, Elizabeth A. Bukusi, Kara K. Wools-Kaloustian, Constantin T. Yiannoutsos

1058 AN EVALUATION OF AN ENHANCED MODEL OF FP/HIV SERVICE INTEGRATION IN LUSAKA, ZAMBIA

Amy M. Medley, Fatima Tsiouris, Sherri Pals, Brenda Senyana, Susan Hanene, Shadrick Kayeye, Rocio R. Casquete, Arielle Lasry, Mollie Braaten, Meagan Cain, Tiffiany Michelle Aholou, Prisca Kasonde, Tina Chisenga, Keith Mweebo, Tiffany Harris

1059 A COMBINED ESTROGEN/PROGESTIN VAGINAL RING IMPROVES VAGINAL MICROBIAL COMMUNITIES

Nicole H. Tobin, Sarah L. Brooker, Fan Li, Yoninah S. Cramer, Susan L. Rosenkranz, Grace M. Aldrovandi, Robert Coombs, Susan E. Cohn, Carmen D. Zorrilla, Laura E. Moran, Baiba Berzins, Kimberly K. Scarsi, Catherine Godfrey, for the ACTG 5316 Team

Poster P-U06 HIV CARE CONTINUUM

Poster Hall D

2:30 PM - 4:00 PM

1097 HIV CARE CASCADE: MEN WHO HAVE SEX WITH MEN & TRANSGENDER WOMEN/GENDERQUEER, ZIMBABWE

Tiffany Harris, Lauren Parmley, Munyaradzi Mapingure, Owen Mugurungi, John H. Rogers, Tsitsi Apollo, Getrude Ncube, Elizabeth Gonesse, Brian K. Moyo, Perpetua Gozhora, Godfrey Musuka, Sophia Miller, Yingfeng Wu, Avi Hakim, Innocent Chingombe

1098 IMPACT OF HIV CONTINUUM OF CARE INTERVENTIONS AND PREEXPOSURE PROPHYLAXIS IN KENYA

Liem Binh Luong, Stephen S. Wanjala, Elisabeth Szumilin, Pierre Mendiharat, Yazdan Yazdanpanah, Kenneth Freedberg

1099 DIFFERENCES IN HIV CARE OUTCOMES: US HISPANICS/LATINOS WITH DIAGNOSED HIV INFECTION

Sonia Singh, Yonggang Li, Alexandra Balaji

- 1100

IMPROVEMENTS ACROSS NAIROBI COUNTY'S HIV CARE CONTINUUM : CASE OF A FAST-TRACK CITY

Sindhu Ravishankar, Erlyn Macarayan, Caroline Ngunu, **Molly Pezzulo Collier**, Harriet Kongin, Jose M. Zuniga, Ingrid Katz
- 1101

HIV CARE CONTINUUM AMONG NEWLY DIAGNOSED INDIVIDUALS IN MEXICO

Lorena Guerrero-Torres, Yanink Caro-Vega, Erika Barlandas, Brenda Delgado-Avila, Juan Sierra-Madero, José Sifuentes-Osornio, Pablo F. Belaunzaran-Zamudio, Brenda Crabtree-Ramírez
- 1102

CHALLENGES TO HIV CARE ENGAGEMENT AMONG MOBILE POPULATIONS IN RURAL KENYA AND UGANDA

James Ayieko, Edwin D. Charlebois, Monica Getahun, Irene Maeri, Patrick Eyul, Pamela M. Murnane, Moses R. Kamya, Elizabeth A. Bukusi, Monica Gandhi, Diane V. Havlir, Carol S. Camlin
- 1103

PUBLIC HEALTH REFERRALS IMPROVE RE-ENGAGEMENT FOR ART INTERRUPTED PATIENTS

Jon H. Kremer, Lu Wang, Katherine Lepik, Jenny Li, David M. Moore, Kate Salters, Julio S. Montaner, Trevor Corneil, Rolando Barrios
- 1104

MONITORING PROGRESS OF CARE IN PERSONS NEWLY DIAGNOSED WITH HIV IN SPAIN, 2004-2018

Belen Alejos, Cristina Diez, Maria J. Galindo, Ana Delgado, Santiago Moreno, Federico Pulido, Victor Asensi, Vicente Estrada, Gloria Samperiz, Ines Suárez-García, Angeles Castro, Robert Muga, Inma Jarrin, Juan Berenguer, for the CoRIS
- 1105

A FIELD-BASED SAMPLING STRATEGY TO REVISE HIV TREATMENT PROGRAM RETENTION ESTIMATES

Theodora Savory, Masuzyo Chitala, Paul Elish, Jake Pry, Cynthia Lupenga, Jacob Mutale, Walusiku Muyunda, Mwansa Lumpa, Kaala Moomba, Carolyn Bolton Moore, Izukanji Sikazwe, Michael Herce
- 1106

LOSS-TO-FOLLOW-UP RISK FACTORS AFTER ANTIRETROVIRAL THERAPY INITIATION IN UGANDA

Barbara Castelnovo, Frank Mubiru, Grace Banturaki, Joseph Musaaizi, Joseph Kabanda, Michelle Adler, Alice Namale, Rhoda Mwondha, Joanita Kigozi, Agnes Kiragga
- 1107

HIV STIGMA PREDICTS RETENTION IN CARE AMONG US PATIENTS IN CARE

Catherine Pearson, Mallory Johnson, Torsten B. Neilands, Samantha E. Dilworth, John Saucedo, Michael J. Mugavero, Heidi M. Crane, Rob Fredericksen, W. C. Mathews, Richard D. Moore, Sonia Napravnik, Kenneth H. Mayer, Katerina A. Christopoulos
- 1108

HOSPITALIZATIONS & MORTALITY DIFFER BY GENDER AMONG LONG-TERM ART PATIENTS IN UGANDA

David Moore, Golshan Massah, Wendy W. Zhang, Josephine Birungi, Mastula Nanfuka, Julia Zhu, Stephen Okoboi, Pontiano Kaleebu, Baker Tibenganas
- 1109

ALCOHOL USE AND THE HIV CARE CONTINUUM IN ZAMBIA: NATIONALLY REPRESENTATIVE SURVEY

Michael J. Vinikoor, Izukanji Sikazwe, Anjali Sharma, Lloyd Mulenga, John Mayeya, Ravi Paul, Geetanjali Chander, Jenala Chipungu, Laura Murray, Jeremy Kane

Poster P-U07 DIFFERENTIAL SERVICE DELIVERY**Poster Hall D****2:30 PM - 4:00 PM****1110 RCT OF EARLY REFERRAL OF HIV+ ADULTS STARTING ART TO COMMUNITY-BASED ADHERENCE CLUBS**

Jasantha Odayar, Joanna Allerton, Siti Kabanda, Thoko Malaba, Maia Lesosky, Zodwa Mamanzi, Cathy Kalombo, Landon Myer

1111 DIFFERENTIATED SERVICE DELIVERY FOR HIV CARE: THE FAST-TRACK EXPERIENCE FROM ZAMBIA

Samuel Bosomprah, Isaac Zulu, **Michael Herce**, Lloyd Mulenga, Minesh P. Shah, Izukanji Sikazwe, Annie Mwila, Helen B. Mulenga, Muhau Mubiana, Mwansa Lumpa, Pamela J. Bachanas, Simon Agolory

1112 DIFFERENTIATED CARE: TIME SPENT IN DIFFERENT ART DELIVERY MODELS IN RURAL ZIMBABWE

Benedikt Christ, Janneke van Dijk, Wesley R. Mukondwa, Cordelia Kunzekwenyika, Ronald Manhibi, David Tasunga, Frédérique Chammartin, Matthias Egger, Marie Ballif, for the International epidemiology Databases to Evaluate AIDS (IeDEA)

1113 PROSPECTIVE STUDY ON IMPACT OF DIFFERENTIATED CARE ON HIV RETENTION IN KEY POPULATION

George Eluwa, Lung Vu, Scott Geibel, Isa Iyortim, Abiye Kalaiwo, Osasuyi Dirisu, Ellen Weiss, sylvia B. Adebajo

1114 COMMUNITY PRIVATE PHARMACY ANTIRETROVIRAL THERAPY REFILL IN KAMPALA, UGANDA

Martin Ssuuna, Shamim Nakade, Joseph Kabanda, Sarah Zalwango, Daniel A. Okello, Christopher Mugara, Donna Kabatesi, Alice Namale, Alex Muganzi, Nelson Kalema, Joanita Kigozi

Poster P-U08 COMMUNITY ART**Poster Hall D****2:30 PM - 4:00 PM****1115 COMMUNITY-BASED SERVICE DELIVERY OF HIV TREATMENT IN ZAMBIA: COSTS AND OUTCOMES**

Brooke E. Nichols, Refiloe Cele, Lise Jamieson, Lawrence Long, Zumbe Siwale, Patrick Banda, Crispin Moyo, Sydney Rosen

1116 HIV+ PATIENTS RECEIVING ANTIRETROVIRAL DRUGS THROUGH HOME DELIVERY: A CAUSAL ANALYSIS

Rory F. Leisegang, Keri Calkins, Susan Cleary, Sumanth Karamchand, Felix Hammann, Poobalan Naidoo, Mark Cotton, Jane Ball, David Dowdy, Jean B. Nachega

1117 OUTCOMES OF COMMUNITY-BASED ANTIRETROVIRAL TREATMENT PROGRAM IN NAMIBIA

Naemi Shoopala, Andrew L. Baughman, Assegid T. Mengistu, **Kiren Mitruka**, Godfrey Woelk, Graham Mutandi, Michael B. De Klerk, Isaac Zulu, Steven Hong, Nicholas Mutenda, Linea Hans, Simon Agolory, Leigh Ann Miller, Eric J. Dziuban, Ndapewa Hamunime

1118 PATIENTS EXPERIENCING VIRAEMIA IN ADHERENCE CLUBS: IS BACK-TO-CLINIC ALWAYS BEST?

Tali Cassidy, Jonathan Euvrard, Claire Keene, Erin Roberts, Rodd Gerstenhaber, Andrew Boule

Jesus Ramirez, Manoj Maddali, Saman Nematollahi, Jonathan Z. Li,
Maunank Shah

Moses Katbi, Adefisayo Adedoyin, Kent Klindera, Bartholomew Ochonye, Iyiola Faturiyeye, Michele Russell, Oluwatosin Adeoye, Adeoye Adegboye, Tolu A. Alamu

NOTES

WEDNESDAY MARCH 11, 2020

Poster P-A03 VIRUS-CELL INTERACTION AND GENETICS**Poster Hall A****2:30 PM - 4:00 PM**

- 178 SEQUENCE CHANGES CAUSING REV ACTIVITY DIFFERENCES IN HIV-1 PRIMARY ISOLATES**
Patrick E. Jackson, Jordan Holsey, Godfrey Dzhivhuho, David Rekosh, Marie-Louise Hammarskjöld
- 179 COMPLEMENTATION MAINTAINS QUASISPECIES OF DRUG-SENSITIVE AND -RESISTANT HIV WITH ART**
Laurelle A. Jackson, Sandile Cele, Tulio de Oliveira, Jennifer Giandhari, Gila J. Lustig, Fabio Zanini, Richard Neher, Alex Sigal
- 180 DISRUPTION OF A RNA SECONDARY STRUCTURE IN HIV-1 gp41 INDUCES VIRAL LETHALITY**
Ana Jordan-Paiz, Maria Nevot, Kevin Lamkiewicz, Marie Lataretu, Sandra Franco, Manja Marz, Miguel Angel Martinez
- 181 GENETIC IDENTITY AND BIOLOGICAL PHENOTYPE OF EARLY TRANSMITTED FOUNDER HIV-1 VIRUSES**
Ashokkumar Manickam, Aanand Sonawanne, Shambhu G. Aralaguppe, Srikanth Tripathy, Ujjwal Neogi, Luke Elizabeth Hanna
- 182 NEW HIV-1 CAPSID LABELING SYSTEM DOES NOT SUPPORT UNCOATING DURING NUCLEAR IMPORT**
Chenglei Li, Ryan C. Burdick, Mohamed Husen Munshi, Ferri Soheilian, Wei-Shau Hu, Vinay K. Pathak
- 183 THE HIV ANTISENSE PROTEIN ASP IS A TRANSMEMBRANE PROTEIN OF THE VIRAL ENVELOPE**
Zahra Gholizadeh, Yvonne Affram, Juan C. Zapata, Hongshuo Song, Rui Li, Maria Iglesias-Ussel, Krishanu Ray, Olga Latinovic

Poster P-B07 BARRIERS TO TRANSLOCATION**Poster Hall A****2:30 PM - 4:00 PM**

- 231 CELLULAR STRESS BIOMARKERS ARE ASSOCIATED WITH MARKERS OF MICROBIAL TRANSLOCATION**
Carol Vinton, Carly E. Starke, Alexandra Ortiz, Ornella Sortino, Kenneth Knox, Irini Sereti, Jason Brenchley
- 232 CMV SEROPOSITIVITY AND MICROBIAL TRANSLOCATION IN HIV ELITE CONTROLLERS**
Rayoun Ramendra, Stéphane Isnard, John Lin, Brandon Fombuena, Jing Ouyang, Franck P. Dupuy, Yonglong Zhang, Malcolm Finkelman, Ido Kema, Cécile Tremblay, Nicole Bernard, Jean-Pierre Routy, for the Canadian cohort of HIV+ Slow Progressors and Montreal Primary HIV Infection Study Groups
- 233 FROM GUT TO BLOOD: REDISTRIBUTION OF ZONULIN IN HIV+ PATIENTS**
Max Augustin, Carola Horn, Meryem S. Ercanoglu, Vincent Bondet, Isabelle Suarez, Seung-Hun Chon, Dirk Nierhoff, Elena Knops, Eva Heger, Gerd Fätkenheuer, Jan Rybníček, Darragh Duffy, Michaela Müller-Trutwin, Clara Lehmann
- 234 GUT BARRIER PROTECTANT INTESTINAL ALKALINE PHOSPHATASE IS REDUCED IN PEOPLE WITH HIV**
Charlie F. Saylor, Jae H. Sim, Lediya Cheru, Yang Liu, Paul Cavallaro, Fatemeh Adiliaghdam, Kiana Keller, Shibani S. Mukerji, Peter Carolan, Kyle Staller, James Richter, Rich Hodin, Janet Lo

235 IMPACT OF INTRAVENOUS HEROIN AND HIV ON GUT INTEGRITY AND IMMUNE ACTIVATION

Corrylynn O. Hileman, Emily Bowman, Janelle Gabriel, Aaren Kettelhut, Julia C. Kosco, Danielle Labbato, Theresa O. Rodgers, Cheryl A. Smith, Nicholas Funderburg, Grace A. McComsey

236 VALGANCICLOVIR EFFECTS ON GUT AND PULMONARY EPITHELIAL BARRIER MARKERS IN TREATED HIV

Sabrina Sevilla, Gabriele B. Beck-Engeser, Vanessa A. York, Rebecca Hoh, Steven G. Deeks, Jeffrey N. Martin, Barbara L. Shacklett, Laurence Huang, Ma Somsouk, Peter W. Hunt

Poster P-B08 NON-AIDS CONSEQUENCES OF HIV INFECTION

Poster Hall A

2:30 PM - 4:00 PM

237 LIPID ABNORMALITIES MAY CONTRIBUTE TO ALTERED MACROPHAGE PHENOTYPE IN PEOPLE WITH HIV

Emily Bowman, Brian Richardson, Manjusha Kulkarni, Aaren Kettelhut, Janelle Gabriel, Morgan Cichon, Kenneth Riedl, Subha Raman, Susan L. Koletar, Cheryl A. Cameron, Mark Cameron, Nicholas Funderburg

238 LIPIDOME ALTERATIONS WITH EXERCISE AMONG PEOPLE WITH AND WITHOUT HIV

Emily Bowman, Melissa P. Wilson, Samantha MaWhinney, Catherine M. Jankowski, Nicholas Funderburg, Kristine M. Erlandson

239 FECAL CALPROTECTIN IS ELEVATED IN HIV AND RELATED TO SYSTEMIC INFLAMMATION

Allison Ross Eckard, Nancy L. Hagood, Heather Y. Hughes, Mary Ann O'Riordan, Danielle Labbato, Sarah E. Scott, Grace A. McComsey

240 LONG-TERM ELEVATED IL-6 AND D-DIMER AFTER DELAYED ART INITIATION IN THE START TRIAL

Jason V. Baker, Birgit Grund, Shweta Sharma, Keith Henry, Jennifer Hoy, Stefan Esser, Silvia Nozza, Kiat Ruxrungham, Adam Rupert, H. Clifford Lane, Jens D. Lundgren, James Neaton, for the INSIGHT START Study Group

241 NON-AIDS—DEFINING EVENTS IN HIV CONTROLLERS VS ART-CONTROLLED PATIENTS

Carmelite Audrey Manto Kuidjo, Alicia Castro Gordon, Cécile Goujard, Laurence Meyer, Olivier Lambotte, Asma Essat, Arnoo Shaiykova, Faroudy Boufassa, **Nicolas Noel**, for the ANRS CO21 CODEX and CO6 PRIMO Study Groups

242 TOTAL HIV DNA LEVELS DO NOT PREDICT NON-AIDS-DEFINING EVENTS

Colline Wong, Ashley McKhann, Carlee Moser, Alan Landay, Michael M. Lederman, Sara Gianella, Jonathan Z. Li

243 PRINCIPAL COMPONENTS ANALYSIS TO IDENTIFY BIOMARKERS PREDICTIVE OF NON-AIDS EVENTS

Carlee Moser, Peter W. Hunt, Martin Hoenigl, Ashley McKhann, Christophe Vanpouille, Alan Landay, Nicholas Funderburg, Michael M. Lederman, Ronald Bosch, Sara Gianella

244 AGING, TRENDS IN CD4/CD8 RATIO, AND CLINICAL OUTCOMES WITH HIV SUPPRESSION

Richard M. Novak, Carl Armon, Kate Buchacz, Jun Li, Douglas Ward, Frank J. Palella, for the CDC HOPS

245 SYSTEMIC AND VASCULAR INFLAMMATION PREDICT COMORBIDITIES IN TREATED HIV INFECTION

Padraig McGettrick, Willard Tinago, Alejandro A. Garcia, Stefano Savinelli, Emma Haran, Aoife G. Cotter, Eoin Feeney, John Lambert, Gerard Sheehan, Alan Landay, Patrick W. Mallon

Poster P-B09 GUT PATHOGENESIS

Poster Hall A

2:30 PM - 4:00 PM

246 GUT MUCOSAL IL22+ T CELLS ARE RELATED WITH INCOMPLETE CD4 RESTORATION DESPITE cART

Isaac Rosado-Sánchez, Ines Herrero-Fernández, Salvador Sobrino, Ana E. Carvajal, Miguel Genebat, Rocío M. De Pablo, Rocio Ruiz, Jorge Sanchez-Villegas, Manuel Leal, **Yolanda M. Pacheco**

247 INCREASED GUT AND BLOOD CD4+ T-CELL EXHAUSTION IN IMMUNOLOGICAL NONRESPONDERS

Kristina B. Lørvik, Malin H. Meyer-Myklestad, Asle W. Medhus, Marius Lund-Iversen, Birgitte Stiksrud, Dag Kvale, Anne Ma D. Riise, **Dag Henrik Reikvam**, Kjetil Taskén

248 NOVEL MECHANISM OF HIV-1 ELITE CONTROL BY ENRICHING GUT DIPEPTIDES AS CCR5-ANTAGONIST

Ujjwal Neogi, Maike Sperk, Flora Mikaeloff, Ashokkumar Manickam, Anoop T. Ambikan, Kamalendra Singh, Jan Vesterbacka, Anders Sönnernborg

249 OVERT GUT IL-32 ISOFORM EXPRESSION DURING TREATED HIV INFECTION: REGULATION BY IL-17A

Etiene Moreira Gabriel, Tomas Wiche Salinas, Mohamed El-Far, Etienne Larouche-Anctil, Annie Gosselin, Madeleine Durand, Jean-Pierre Routy, Cécile L. Tremblay, Petronela Ancuta

250 DISTINCT INTERFEROMES ASSOCIATE WITH CHRONIC HIV PATHOGENESIS IN THE GUT

Stephanie Dillon, Kejun Guo, Guannan Shen, Harry Smith, Miranda E. Kroehl, Katerina Kechris, Cara Wilson, Mario Santiago

251 OPPOSING ASSOCIATIONS OF NK AND MZ B CELLS IN RECTAL EXPLANT MODEL OF HIV INFECTION

S. Abigail Smith, Praveen Kumar Amancha, Phillip M. Murray, Cassie Grimsley-Ackerley, Rama R. Amara, Colleen F. Kelley

252 IgA PRESERVATION IN GUT IN SIVagm INFECTION IS ASSOCIATED WITH INFLAMMATION CONTROL

Philippe Rasle, Cyril Planchais, Beatrice Jacquelin, Marie Lazzerini, Vanessa Contreras, Hugo Mouquet, Nicolas Huot, Michaela Müller-Trutwin

253 ALTERED DNA METHYLATION OF CCR5 IN SIGMOID MUCOSAL TISSUES OF TRANSGENDER THAI WOMEN

Michael J. Corley, Alexandra Schuetz, Alina P. Pang, Carlo Sacdalan, Suchada Sukhumvittaya, Nitiya Chomchey, Nisakorn Ratnaratorn, Yuwadee Phuang-Ngern, Jintanat Ananworanich, Eugène Kroon, Nittaya Phanuphak, Sandhya Vasan, Lishomwa C. Ndhlovu, for the SEARCH013/RV304 Study Group

Poster P-D06 THE ROAD TO A BETTER VACCINE: CLINICAL TRIALS AND COHORT STUDIES

Poster Hall A

2:30 PM - 4:00 PM

287 THE RV144 VACCINE PRIMED IgG4 AND V1V2-ADCP RESPONSES IN HIV BREAKTHROUGH INFECTIONS

Thembi Mdluli, Dominic Paquin-Proulx, Bonnie Slike, Gina Donofrio, Sorachai Nitayaphan, Punnee Pitisutthithum, Supachai Rerks-Ngarm, Margaret Ackerman, Merlin L. Robb, Nelson L. Michael, Sandhya Vasan, Michael A. Eller, Shelly J. Krebs, Morgane Rolland, for the RV144 Study Group

288 PHASE I/IIA TRIAL OF HIV CLADE C DNA WITH MF59- OR AS01B-ADJUVANTED CLADE C PROTEIN

Nigel Garrett, Cynthia L. Monaco, Philipp Mann, Julia Hutter, Allan C. deCamp, One Dintwe, Georgia Tomaras, Megan Jones, Giuseppe Pantaleo, Song Ding, Olivier Van Der Meeren, Julie McElrath, Larry Corey, James G. Kublin, for the HVTN 108 Study Team

289 MUCOSAL T AND B CELL RESPONSES INDUCED BY ALVAC-HIV/AIDSVA B/E LATE BOOST STRATEGIES

Alexandra Schuetz, Siriwat Akapirat, Michael A. Eller, Yuwadee Phuang-Ngern, Punnee Pitisutthithum, Sorachai Nitayaphan, Suwat Chariyalertsak, Nittaya Phanuphak, Carlos A. Diazgranados, Jerome H. Kim, Merlin L. Robb, Nelson L. Michael, Robert J. O'Connell, Sandhya Vasan, for the RV306 Study Group

290 CANDIDATE IMMUNOGENS DIFFERENTIALLY ENGAGE HIV BROADLY NEUTRALIZING PLASMA ANTIBODIES

Irene Abela, Teja Turk, Nikolas Friedrich, Claus Kadelka, Matthias Gloegl, Brano Ivan, Peter Rusert, Merle Schanz, Roger Kouyos, Huldrych F. Günthard, Alexandra Trkola, for the Swiss HIV Cohort Study

291 ACUTE INFECTION B-CELL DETERMINANTS PREDICT DEVELOPMENT OF NEUTRALIZATION BREADTH

Samantha Townsley, Gina Donofrio, Ningbo Jian, David Leggat, Vincent Dussupt, Letzibeth Mendez-Rivera, Nicole Doria-Rose, John R. Mascola, Morgane Rolland, Sodsai Tovanabutra, Adrian B. McDermott, Nelson L. Michael, Merlin L. Robb, **Shelly J. Krebs**, for the RV217 Study Group

Poster P-D07 PRECLINICAL VACCINE STUDIES

Poster Hall A

2:30 PM - 4:00 PM

292 TARGETING HIV ENV TO CD40 LEADS TO HIV-SPECIFIC POLYCLONAL B CELLS IN HUMANIZED MICE

Veronique Godot, Colas Tcherakian, Laurine Gil, Iñaki Cervera-Marzal, Hugo Mouquet, Guangming Li, Liang Cheng, Jean Daniel Lelievre, Giuseppe Pantaleo, Mireille Centlivre, Sandy Zurawski, Gerard Zurawski, Pierre Milpied, Lishan Su, Yves Levy

293 CD40-TARGETED VACCINE INCREASES MAGNITUDE OF HIV-ENV SPECIFIC RESPONSES

Romain Marlin, Sabine Tricot, Francis Relouzat, Christiane Moog, Laëtitia Bossevoit, Sandy Zurawski, Gerard Zurawski, Andrés Salazar, Catherine Chapon, Nathalie Dereuddre-Bosquet, Mireille Centlivre, Yves Levy, **Roger Le Grand**

294 HARNESSING ORIGINAL ANTIGENIC SIN FOR PREVENTING MTCT OF HIV

Ashley N. Nelson, Maria Dennis, Jesse F. Mangold, Katherine N. Li, Riley J. Mangan, George Shaw, Katharine J. Bar, Barton F. Haynes, M. Anthony Moody, Justin Pollara, Koen Van Rompay, Kristina De Paris, Sallie Permar

295 TBK-1-DC VACCINE INDUCES POLYFUNCTIONAL T CELLS AND CONTROL OF HIV-1 IN THE BLT MOUSE

Marta Calvet-Mirabent, Maud Deruaz, Serah Tanno, Cristina Delgado-Arévalo, Ildefonso Sánchez-Cerrillo, Carla Serra Peinado, María J. Buzón, Ignacio Santos, Jesús Sanz, Lucio Jesus Garcia-Fraile Fraile, M Ángeles Muñoz-Fernández, Alejandro Balazs, Vladimir Vrbancac, **Enrique Martin-Gayo**

296 CMV VACCINE VECTOR-INDUCED PROTECTION AGAINST SIV IN MAURITIAN CYNOMOLGUS MACAQUES

Justin Greene, Daniel Malouli, Nicholas Maier, Abigail Ventura, Roxanne Gilbride, Whitney Weber, Helen Wu, Junwei Gao, Michael K. Axthelm, Jeremy Smedley, Jeffrey D. Lifson, Klaus Fruh, Louis J. Picker, Scott Hansen, Jonah Sacha

297LB SUPERIOR PROTECTION AGAINST SHIV INFECTION BY SAME SITE DNA-PROTEIN COIMMUNIZATION

Barbara K. Felber, Zhongyan Lu, Xintao Hu, Antonio Valentin, Margherita Rosati, Joshua A. Weiner, Xiaoying Shen, Georgia Tomaras, Celia C. Lebranche, David Venzon, George Shaw, Guido Ferrari, Margaret Ackerman, Barton F. Haynes, George N. Pavlakis

Poster P-D08 IMPACT OF ANTIRETROVIRALS ON THE IMMUNE RESPONSE
Poster Hall A
2:30 PM - 4:00 PM
298 DOLUTEGRAVIR INCREASES B CELLS AND RESTING MEMORY B CELLS IN RV254

Supranee Buranapraditkun, Eugène Kroon, Hiroshi Takata, Suthat Chottanapund, Carlo Sacdalan, Duanghathai Suttichom, Ratchapong Kanaprach, Somporn Tipsuk, Khunthalee Benjapornpong, Bessara Nuntapinit, Merlin L. Robb, Jintanat Ananworanich, Sandhya Vasan, Lydie Trautmann, for the on behalf of the SEARCH010/RV254/SEARCH013/RV304 Study Group

299 CHARACTERIZING ANTIBODY RESPONSES IN ART-TREATED INDIVIDUALS

Andrew B. Wilson, Yanqin Ren, Eva M. Stevenson, R. Brad Jones, Rebecca Lynch

300 NEAR NORMALIZATION OF IMMUNE ACTIVATION IN PLWH ON LONG-TERM SUPPRESSIVE ART

Óscar Brochado Kith, Isidoro Martínez, Juan Berenguer, Luz M. Medrano, Juan González-García, Pilar García-Broncano, María Á. Jimenez-Sousa, Ana Carrero, Victor Hontanón, M Ángeles Muñoz-Fernández, Juan Carlos López-Bernaldo, Amanda Fernández-Rodríguez, Salvador Resino

301 REVERSION OF CD4+ T-CELL EXHAUSTION MEDIATED BY PLASMACYTOID DENDRITIC CELLS

M Reyes Jimenez-Leon, M. Carmen Gasca-Capote, Macarena López-Verdugo, Laura Tarancon-Diez, María Trujillo Rodríguez, Cristina Roca, Nuria Espinosa, Alicia Gutiérrez-Valencia, Pompeyo Viciano, Luis López-Cortés, Ezequiel Ruiz-Mateos

302 CD8+ SUBSET-DEPENDENT OVEREXPRESSION OF TIGIT AND TIGIT+TIM3 BY HIV DESPITE ART

Oscar Blanch-Lombarte, Esther Jimenez-Moyano, Dan Ouchi, Adam Pelletier, Aarthi Talla, Ashish Sharma, Ruth Penya, Judith Dalmau, José R. Santos, Rafick-Pierre Sekaly, Bonaventura Clotet, Julia G Prado

303 DYNAMICS OF HIV-SPECIFIC T CELLS ON DURABLE ART DIFFER BY ANTIGEN RECOGNIZED & BY SEX

Eva M. Stevenson, Adam R. Ward, Thomas R. Dilling, John W. Mellors, Rajesh T. Gandhi, Deborah McMahon, Joseph J. Eron, Ronald Bosch, Christina Lalama, Joshua C. Cyktor, R. Brad Jones, for the A5321 Team

Poster P-E08 ATTACK OF THE CLONES: CLONAL EXPANSION IN THE HIV RESERVOIR

Poster Hall A

2:30 PM - 4:00 PM

360 PARALLEL HIV RNA, INTEGRATION SITE, AND PROVIRAL SEQUENCING IN SINGLE RESERVOIR CELLS

Kevin Einkauf, Matthew Osborn, Ce Gao, Jane Blackmer, Chenyang Jiang, Eric Rosenberg, Xu G. Yu, Mathias Lichterfeld

361 SINGLE-CELL ATLAS AND CLONAL EXPANSION DYNAMICS OF CD4+ T CELLS DURING HIV INFECTION

Jack A. Collora, Delia Pinto-Santini, Siavash Pasalar, Ricardo Alfaro, Carmela Ganoza, Jennifer Chiarella, Rachela Calvi, Javier R. Lama, Serena S. Spudich, Ann Duerr, Ya-Chi Ho

362 TCR SEQUENCING REVEALS CLONAL EXPANSIONS OF INDUCIBLE RESERVOIRS IN SPECIFIC SUBSETS

Pierre Gantner, Amelie Pagliuzza, Marion Pardons, Moti Ramgopal, Jean-Pierre Routy, Rémi Fromentin, Nicolas Chomont

363 ONLY A FEW HIV-1 INTEGRATION SITES CONFER GROWTH ADVANTAGE TO INFECTED CELLS IN VIVO

John M. Coffin, Michael J. Bale, Daria W. Wells, Shuang Guo, Brian Luke, Jennifer M. Zerbatto, Michele Sobolewski, Twan Sia, Wei Shao, Xiaolin Wu, Frank Maldarelli, Mary F. Kearney, John W. Mellors, Stephen H. Hughes

364 HIV DYNAMICS AND REPOPULATION OF RESERVOIRS IN THE HUMAN BODY

Antoine Chaillon, Sara Gianella, Simon Dellicour, Stephen A. Rawlings, Michelli Faria De Oliveira, Caroline Ignacio, Magali Porrachia, Bram Vrancken, Davey M. Smith

365 LONGITUDINAL CHARACTERIZATION OF HIV PROVIRUSES IN PEOPLE ON SUPPRESSIVE ART

Anukka Antar, Katharine M. Jenike, Sunyoung Jang, Danielle Rigau, Daniel B. Reeves, Rebecca Hoh, Jeanne C. Keruly, Richard D. Moore, Joshua T. Schiffer, Bareng Nonyane, Frederick M. Hecht, Steven G. Deeks, Janet Siliciano, Ya-Chi Ho, Robert Siliciano

366 IDENTICAL HIV PROVIRUSES ARISE FROM CELL EXPANSION AND INFECTION BY COMMON ANCESTOR

Sean Patro, Aurelie Niyongabo, Shuang Guo, Jason W. Rausch, Michael J. Bale, Andrew Musick, Xiaolin Wu, Liliana Perez-Rodriguez, Wei Shao, Eli A. Boritz, Steven G. Deeks, Frank Maldarelli, Stephen H. Hughes, John M. Coffin, Mary F. Kearney

367 HIGH-THROUGHPUT SEQUENCING OF INTEGRATED HIV-1 REVEALS NOVEL PROVIRAL STRUCTURES

Kevin W. Joseph, Elias K. Halvas, Leah D. Brandt, Sean Patro, Jason W. Rausch, Mary F. Kearney, John M. Coffin, John W. Mellors

368 CELL PROLIFERATION CONTRIBUTES TO THE INCREASE OF GENETICALLY INTACT HIV OVER TIME

Bethany A. Horsburgh, Bonnie Hiener, Katie Fisher, John-Sebastian Eden, Eunok Lee, Susanne von Stockenstrom, Lina Odevall, Jeffrey M. Milush, Teri Liegler, Rebecca Hoh, Rémi Fromentin, Nicolas Chomont, Steven G. Deeks, Frederick M. Hecht, Sarah Palmer

369LB WITHDRAWN

370LB ANTIGEN RESPONSIVE CLONES OF CD4+ T CELLS CONTRIBUTE TO THE INTACT LATENT RESERVOIR

Pilar Mendoza, Julia Jackson, Thiago Oliveira, Christian Gaebler, Victor Ramos, Mila Jankovic, Marina Caskey, Michel Nussenzweig, Lillian B. Cohn

Poster P-E09 CHARACTERIZING LATENT HIV RESERVOIRS

Poster Hall A

2:30 PM - 4:00 PM

371 SINGLE-CELL ANALYSIS OF IN VIVO HIV RESERVOIR UNCOVERS NOVEL MARKERS OF LATENT CELLS

Jason Neidleman, Xiaoyu Luo, Julie Frouard, Feng Hsiao, Grace Xie, Vincent Morcilla, Katherine Sholtis, Rebecca Hoh, Ma Somsouk, Peter W. Hunt, Steven G. Deeks, Nancie Archin, Sarah Palmer, Warner C. Greene, **Nadia R. Roan**

372 INTACT HIV GENOMES ARE ENRICHED IN MEMORY T CELLS WITH SHORT HALF-LIVES

Vincent Morcilla, Charline Bacchus-Souffan, Katie Fisher, Xiao Qian Wang, Bethany A. Horsburgh, Timothy E. Schlub, Mark Fitch, Rebecca Hoh, Frederick M. Hecht, Jeffrey Martin, Steven G. Deeks, Marc Hellerstein, Joseph M. McCune, Peter W. Hunt, Sarah Palmer

373 “FALSE ART FAILURE” FROM IDENTICAL HYPERMUTATED HIV NUCLEIC ACID IN PLASMA

Johannes C. Botha, Kim Steegen, Lucia Hans, Alan Karstaedt, Sergio Carmona, Denasha Reddy, Mary F. Kearney, John W. Mellors, Gert U. van Zyl

374 ART-TREATED SUBJECTS WITH LOW VIRAL RESERVOIR SHOW UNUSUAL HIV LATENCY DISTRIBUTION

Cristina Gálvez, Victor Urrea, Susana Benet, Lucia Bailon, Andrea Martinez, Beatriz Mothe, Judith Dalmau, Lorna Leal, Felipe Garcia, Javier Martinez-Picado, Maria Salgado

375 A NEW LONG-READ NGS METHOD TO SEQUENCE HIV1 INSERTION SITES AND ASSOCIATED PROVIRUSES

Maria Artesi, Vincent Hahaut, Basiel Cole, Laurens Lambrechts, Ambroise Marçais, Olivier Hermine, Philip Griebel, Natasa Arsic, Dominique Bron, Carole Charlier, Linos Vandekerckhove, Michel Georges, Anne Van den Broeke, **Keith Durkin**

376 COMBINED ASSAYS SHED NEW LIGHT ON HIV-1 PROVIRAL SEQUENCE AND LINKED INTEGRATION SITE

Basiel Cole, Laurens Lambrechts, Maria Artesi, Vincent Hahaut, Wojciech Witkowski, Ytse Noppe, Annemieke Dhondt, Keith Durkin, Anne Van Den Broeke, Linos Vandekerckhove

377 ULTRADEEP ANALYSIS OF PRETHERAPY HIV PREDICTS GENETICALLY COMPLEX RESERVOIRS

Kristi Huik, Junko Hattori, Valerie F. Boltz, Jason W. Rausch, Wei Shao, Mary F. Kearney, John M. Coffin, Frank Maldarelli

- 378

HIV CONTROLLERS HAVE LOW FREQUENCIES OF INTACT PROVIRAL DNA

Abena Kwaa, Caroline Garliss, Kristen D. Ritter, Gregory Laird, Joel Blankson
- 379

EARLY THERAPY OF YOUTH WITH ACUTE/RECENT HIV: EFFECT ON HIV DNA & ANTIBODY (ATN 147)

Ruth Cortado, Tara Kerin, Justine Ceballos, Eduardo Saad, Kate Mitchell, Jasmine Fournier, Brenda Andrews, Manuel Ocasio, Sue Ellen Abdalian, Robert Bolan, Risa Flynn, Brittany Juhlmann, Mary Jane Rotheram-Borus, Karin Nielsen-Saines, Yvonne Bryson
- 380

WIDE ANATOMIC DISTRIBUTION OF HIV-INFECTED CELLS IN INDIVIDUALS WITH COMORBID CANCER

Monica A. Gouzoulis, Daria W. Wells, James Q. Virga, Camille M. Lange, Kristi Huik, Shawn Hill, Stephen M. Hewitt, Rob Gorelick, Thomas S. Uldrick, Joseph A. Kovacs, Robert Yarchoan, Xiaolin Wu, Stephen H. Hughes, **Frank Maldarelli**

Poster P-E10 IMMUNE PRESSURE ON THE HIV RESERVOIR

Poster Hall A

2:30 PM - 4:00 PM

- 381

LOW FREQUENCY OF CTL ESCAPE MUTATIONS IN INTACT PROVIRUSES FROM ELITE CONTROLLERS

Xiaodong Lian, Chenyang Jiang, Ce Gao, Joshua Chevalier, Ben S. Rhee, Jane Blackmer, Kevin Einkauf, Xiaoming Sun, Mary Carrington, Bruce D. Walker, Mathias Lichterfeld, Xu G. Yu
- 382

TH2 CYTOKINES ARE ASSOCIATED WITH HIGHER LEVELS OF INTACT PROVIRUSES ON ART

Joshua C. Cyktor, Hanna Mar, Gregory Laird, Ronald Bosch, Albine Martin, Joseph J. Eron, Bernard J. Macatangay, Deborah McMahon, Rajesh T. Gandhi, John W. Mellors
- 383

HIV-1 ENVELOPES FROM PERSISTENT VIREMIA ON ART SHOW REDUCED ANTIBODY SENSITIVITY

Savrina Manhas, Joseph P. Brooker, **Elias K. Halvas**, John W. Mellors
- 384

MODELING HIV RESERVOIR DECLINE AFTER ART INITIATION AS A FUNCTION OF NK CELL FEATURES

Elena Vendrame, Geoffrey T. Ivison, Rosemary Vergara, Nancy Q. Zhao, Giovanni J. Martínez-Colón, R. Brad Jones, Joshua C. Cyktor, Hanna Mar, Deborah McMahon, Joseph J. Eron, John W. Mellors, Ronald Bosch, Susan Holmes, Rajesh T. Gandhi, Catherine A. Blish
- 385

HIV-1 RESERVOIR SIZE CORRELATES TO PD-1 EXPRESSION IN MEN, BUT NOT WOMEN, IN UGANDA

Katherine Yu, Jessica L. Prodger, Eileen P. Scully, Adam Capoferri, Steven J. Reynolds, Jingo Kasule, Taddeo Kityamuweesi, Paul Buule, David Serwadda, Yun-Hee Choi, Andrew D. Redd, Thomas Quinn
- 386

EFFECT OF TIM-3 BLOCKADE ON T CD8+ AND NK CELLS IN ART-TREATED HIV-INFECTED PATIENTS

Carolina Gutiérrez, **Marta Sanz**, Nadia Madrid-Elena, Sergio Serrano-Villar, María J Vivancos, Alejandro Vallejo, Francisco J. Hernández-Walias, Santiago Moreno

Poster P-F04 ACUTE HIV INFECTION AND CNS RESPONSES**Poster Hall A****2:30 PM - 4:00 PM****431 PLASMA AND CSF SCD30 DYNAMICS BEFORE AND AFTER ART INITIATED IN ACUTE HIV**

Michael J. Peluso, Bonnie Slike, Phillip Chan, Carlo Sacdalan, Siriwat Akapirat, Linda Jagodzinski, Victor Valcour, Nittaya Phanuphak, Eugène Kroon, Jintanat Ananworanich, Sandhya Vasani, Timothy J. Henrich, Serena S. Spudich, Shelly J. Krebs, for the RV254/SEARCH 010 Study Team

432 QUANTITATION OF CEREBROSPINAL FLUID PLEOCYTOSIS AND HIV-1 RNA DURING ACUTE INFECTION

Phillip Chan, Camilla Muccini, Carlo Sacdalan, Eugène Kroon, Donn J. Colby, Nitiya Chomchey, Peeriya Prueksakaew, Suteeraporn Pinyakorn, Nittaya Phanuphak, Linda Jagodzinski, Victor Valcour, Sandhya Vasani, Jintanat Ananworanich, Serena S. Spudich, for the RV254 Study Team

433 EVOLUTION OF IMMUNE ACTIVATION BIOMARKERS IN CSF IN FIEBIG I-V ACUTE HIV INFECTION

Julian Weiss, Phillip Chan, Carlo Sacdalan, Eugène Kroon, Siriwat Akapirat, Jennifer Chiarella, Victor Valcour, Nittaya Phanuphak, Ningbo Jian, Sandhya Vasani, Jintanat Ananworanich, Bonnie Slike, Shelly J. Krebs, Serena S. Spudich, for the RV254/SEARCH 010 Study

434 ROLE FOR PLATELET ACTIVATION AND ENDOTHELIAL ASSOCIATION IN HIV ENTRY INTO THE BRAIN

Claire E. Lyons, Hannah Schneider, Elizabeth L. Engle, Kevin M. Najarro, Suzanne E. Queen, Craig N. Morrell, Joseph Mankowski, Kelly A. Metcalf Pate

Poster P-F05 ART RESPONSES, SWITCHES, AND TOXICITY RELEVANT TO THE CNS**Poster Hall A****2:30 PM - 4:00 PM****435 HIV SUPPRESSION AND CHANGES IN CSF MARKERS IN PATIENTS RANDOMLY SWITCHED TO DTG + 3TC**

Juan M. Tiraboschi, Jhon Rojas, Henrik Zetterberg, Jordi Niubo, Johanna Gostner, Antonio Navarro-Alcaraz, Camila Piatti, Dietmar Fuchs, Magnus Gisslén, Esteban Martinez, Daniel Podzamczar

436 BILIRUBIN AS A SURROGATE MARKER OF DOLUTEGRAVIR-ASSOCIATED CNS ADVERSE EVENTS

Elena Alvarez-Barco, Fergal Moran, Ciara Levey, Willard Tinago, Patrick W. Mallon

437 ART INITIATED AT HIGH CD4 NADIR DOES NOT NORMALIZE CSF MARKERS OF IMMUNE ACTIVATION

Frida Rydberg, Aylin Yilmaz, Lars Hagberg, Dietmar Fuchs, Magnus Gisslén, for the HIV Clinical Research Center, University of Gothenburg

438 INTEGRASE INHIBITOR START OR SWITCH IMPACTS LEARNING IN WOMEN WITH HIV

Jane A. O'Halloran, Kunbo Wang, Dionna W. Williams, Raha Dastgheyb, Kathryn Fitzgerald, Asante R. Kamkwala, Amanda B. Spence, Anjali Sharma, Pauline M. Maki, Deborah Gustafson, Kathleen M. Weber, Adaora Adimora, Margaret Fischl, Yanxun Xu, Leah H. Rubin

439 HIV RNA IN CEREBROSPINAL FLUID OFF ART PREDICTS MORE DEPRESSIVE SYMPTOMS ON ART

Oluwakemi Okwuegbuna, Albert Anderson, Jennifer Iudicello, Josue Perez-Santiago, Florin Vaida, Rachel Schrier, Allen McCutchan, Ronald L. Ellis, Scott L. Letendre

440 CSF CXCL-10 IS ASSOCIATED WITH THE PRESENCE OF LOW-LEVEL CNS HIV DURING ART

Albert Anderson, Bin Tang, Florin Vaida, Oluwakemi Okwuegbuna, Daniel McClernon, Reena Deutsch, Suprateek Kundu, Mariana Cherner, Debralee Cookson, Melanie Crescini, Igor Grant, Ronald J. Ellis, Scott L. Letendre

441 USE OF D/C/F/TAF WITH NEUROLOGIC/PSYCHIATRIC COMORBIDITIES: AMBER SUBGROUP ANALYSIS

Keith J. Dunn, Richard Simonson, Donghan Luo, Jiyun Cai, David Anderson

442 CLINICAL FEATURES AND OUTCOMES OF PATIENTS STOPPING DTG FOR NEUROPSYCHIATRIC SYMPTOMS

Andrea Calcagno, Alberto Borghetti, Maurizio Milesi, Jessica Cusato, Mariacristina Tettoni, Antonio D'Avolio, Giovanni Di Perri, Simona Di Giambenedetto, Stefano Bonora

Poster P-G04 THE LONG AND THE SHORT OF IT: WHAT IS NEXT FOR LONG ACTINGS

Poster Hall A

2:30 PM - 4:00 PM

466 CABOTEGRAVIR AND RILPIVIRINE PK FOLLOWING LONG-ACTING HIV TREATMENT DISCONTINUATION

Susan Ford, Herta Crauwels, Kelong Han, Stefaan Rossenu, Feifan Zhang, Jenny O. Huang, David A. Margolis, Kenneth Sutton, Krischan J. Hudson, Peter E. Williams, William Spreen, Parul Patel

467 WITHDRAWN

468 MK-8504 AND MK-8583 (TENOFVIR PRODRUGS) SINGLE-DOSE PK AND ANTIVIRAL ACTIVITY IN HIV INFECTION

Randolph P. Matthews, Sarah J. Hsieh, Jesse C. Nussbaum, Guido H. Jajamovich, Tian Zhao, Diana Selverian, Michaelanne Wasenius, Liesbeth Haspeslagh, Caroline Cilissen, Dirk Schuermann, Sylvie Rottey, Marta Boffito, Deanne J. Rudd, S. Aubrey Stoch, Marian Iwamoto

469 DOSE-RESPONSE RELATIONSHIP OF SUBCUTANEOUS LONG-ACTING HIV CAPSID INHIBITOR GS-6207

Eric Daar, Cheryl McDonald, Gordon Crofoot, Peter Ruane, Gary Sinclair, Edwin DeJesus, Mezgebe Berhe, Moti Ramgopal, Heena Patel, Ya-Pei Liu, Rebecca Begley, Diana Brainard, Robert H. Hyland, Martin Rhee

470 PK, FOOD EFFECT, AND SAFETY OF ORAL GS-6207, A NOVEL HIV-1 CAPSID INHIBITOR

Rebecca Begley, Martin Rhee, Steve K. West, Angela Worth, John Ling, Polina German

471 ANTIRETROVIRAL & RIFAMPICIN COTREATMENT AFFECTS DMPA EXPOSURE: DOSING IMPLICATIONS

Jose Francis, Paolo Denti, Helen McIlleron, Michelle A. Kendall, Xingye Wu, Kelly E. Dooley, Cindy Firnhaber, Catherine Godfrey, Susan E. Cohn, Rosie Mngqibisa

472 A LONG-ACTING NANOFORMULATED TENOFVIR PRODRUG

Denise A. Cobb, Zhiyi Lin, Nathan Smith, Aditya N. Bade, Nagsen Gautam, JoEllyn McMillan, Howard E. Gendelman, Benson Edagwa

473LB SAFETY AND PK STUDY OF VM-1500A-LAI, A NOVEL LONG-ACTING INJECTABLE THERAPY FOR HIV

Elena Yakubova, Alexey Mazus, Alexey V. Kravchenko, Evgenia Ejova, Elena Smolyarchuk, Vasily Kazey, Saranya Sankar, Igor Nikoulin, Sergey Baranovskiy, Alex Khvat, Jenny Remeeva, Suzana Corritori, Nikolay Savchuk, Iain Dukes, **Robert Murphy**

Poster P-H04 ANTIRETROVIRAL TREATMENT: NEW AGENTS, NEW TARGETS**Poster Hall A****2:30 PM - 4:00 PM****503 CLINICAL SIGNIFICANCE OF GP120 POLYMORPHISMS, TMR IC₅₀ FC, AND HIV-1 SUBTYPE IN BRIGHT**

Margaret Gartland, Peter Ackerman, Frank Mannino, Louise K. Garside, Andrew Clark, Amy Pierce, Mark Krystal, Cyril C. Llamoso, Max Lataillade

504 A HIGHLY POTENT AND SAFE ALLOSTERIC HIV-1 INTEGRASE INHIBITOR, STP0404

Seohyun Ahn, Uk-II Kim, Won Young Seo, Seongmi Choi, Tatsuya Maehigashi, Jared Lindenberger, Mamuka Kvaratskhelia, Baek Kim, Kyungjin Kim

505 PRECLINICAL DEVELOPMENT OF SECOND GENERATION HIV-1 MATURATION INHIBITORS

Sherimay Ablan, KC Yuvraj, Dibya Ghimire, T.J. Nitz, David E. Martin, Ritu Gaur, Eric O. Freed, Carl Wild

506 PHASE 2 TRIAL OF VPU INHIBITOR BIT225 IN COMBINATION WITH ANTIRETROVIRAL THERAPY

Anchalee Avihingsanon, **Carolyn A. Luscombe**, Gary D. Ewart, Audrey S. Thomson, Khuanchai Supparatpinyo, Sivaporn Gatechompol, Win Min Han, Michelle Miller, Robert Murphy

507 COMPARABLE EFFICACY OF IBALIZUMAB IN COMBINATION WITH 1 OR 2 FULLY ACTIVE AGENTS

Edwin DeJesus, Colleen S. McGary, Pedro Mesquita, Steven Weinheimer, Zvi Cohen

508 A PHASE I DOSE-ESCALATION TRIAL OF HUMAN MONOCLONAL ANTIBODY N6LS IN HEALTHY ADULTS

Alicia T. Widge, Katherine V. Houser, Martin R. Gaudinski, Grace Chen, Cristina Carter, Somia P. Hickman, Jamie Saunders, Lasonji Holman, Ingelise Gordon, Sarah O'Connell, Edmund V. Capparelli, Mark Connors, Richard A. Koup, John R. Mascola, for the VRC 609 Study Team

Poster P-I04 NOVEL MECHANISMS OF DRUG RESISTANCE AND RESISTANCE TO NEW AGENTS**Poster Hall A****2:30 PM - 4:00 PM****525 SUSCEPTIBILITY TO BNABS OF TRANSMITTED HIV VARIANTS AMONG RECENT INFECTIONS IN FRANCE**

Karl Stefic, Mélanie Bouvin-Pley, Asma Essat, Clara Videloup, Alain Moreau, Cécile Goujard, Marie-Laure Chaix Baudier, Martine Braibant, Laurence Meyer, Francis Barin, for the ANRS PRIMO Cohort Study Group

526 INVESTIGATION OF INTEGRASE-INHIBITOR RESISTANCE MUTATIONS IN GP41 IN CLINICAL SAMPLES

Hanwei Sudderuddin, Anh Le, Tetyana Kalynyak, Rob Hollebakken, Kyle Cobarrubias, Jinny Choi, Weiyan Dong, Winnie W. Dong, Walter Scott, Kate Laird, Paul Sereda, Eric O. Freed, Zabrina Brumme, **Chanson J. Brumme**

- 527 MAPPING RESISTANCE OF POTENT HIV-1 ENTRY INHIBITORS TARGETING PREFUSION CONFORMATION**
Yen-Ting Lai, Megan Demouth, Adam Dingens, Amarendra Pegu, Jesse Bloom, John R. Mascola, Peter D. Kwong
- 528 META-ANALYSIS OF UNUSUAL AND APOBEC MUTATIONS IN HIV-1 POL NEXT-GENERATION SEQUENCES**
 Philip L. Tzou, Santiago Avila-Rios, Susan Holmes, Rami Kantor, Sergei L. Kosakovsky Pond, **Robert Shafer**
- 529 ABSENCE OF GS-6207 PHENOTYPIC RESISTANCE IN HIV Gag CLEAVAGE SITE AND OTHER MUTANTS**
Nicolas A. Margot, Renee R. Ram, Martin Rhee, Christian Callebaut
- 530 SUSCEPTIBILITY OF NRTI-RESISTANT HIV-2 ISOLATES TO A NEW NRTI, GS-9131**
Quentin Le Hingrat, Gilles Collin, Samuel Lebourgeois, Benoit Visseaux, Florence Damond, Jade Ghosn, Antoine Bachelard, Valentine Ferré, Sophie Matheron, Charlotte Charpentier, Diane Descamps, for the ANRS C05 HIV-2 Cohort
- 531 PHENOTYPIC DORAVIRINE SUSCEPTIBILITY AFTER NNRTI EXPOSURE IN THE PRESTIGIO REGISTRY**
Francesco Saladini, Federica Giammarino, Franco Maggiolo, Micol Ferrara, Giovanni Cenderello, Benedetto Maurizio Cesia, Ferdinando Martellotta, Vincenzo Spagnuolo, Giulio Maria Corbelli, Nicola Gianotti, Maria M. Santoro, Stefano Rusconi, Maurizio Zazzi, Antonella Castagna, for the PRESTIGIO Study Group
- 532 HIV A1 OR B DO NOT DIFFERENTIALLY IMPACT CABOTEGRAVIR IN VITRO POTENCY OR DURABILITY**
Jerry Jeffrey, Marty St Clair, Ping Wang, Chunfu Wang, Zhufang Li, Robert Fridell, Mark Krystal, Jan Van Lunzen, Sandy Griffith, Ronald D'Amico, David A. Margolis, Kim Smith, William Spreen
- 533 HLA GENOTYPE IS ASSOCIATED WITH PRETHERAPY ACCESSORY InSTI RESISTANCE MUTATION L74I**
Guinevere Q. Lee, Suzanne McCluskey, Nicholas Musinguzi, Zabrina Brumme, Yap Boum, Bosco M. Bwana, Conrad Muzoora, Simone Kigozi, Peter W. Hunt, Jeffrey Martin, David R. Bangsberg, Mark J. Siedner, P. Richard Harrigan, Jessica E. Haberer
- 534 HIV-1 VIRAL REBOUND AFTER BICTEGRAVIR, DOLUTEGRAVIR, AND CABOTEGRAVIR WASHOUT**
Ernesto Cuadra Foy, Nathan Osman, Ruxandra-Ilinca Ibanescu, Maureen Oliveira, Bluma G. Brenner
- 535LB MUTATIONS IN THE HIV-1 ENVELOPE GLYCOPROTEIN CONFER BROAD DRUG RESISTANCE**
Yuta Hikichi, Rachel Van Duyne, Phuong Pham, Jennifer L. Groebner, Ann Wiegand, John W. Mellors, Mary F. Kearney, Eric O. Freed

Poster P-105 DRUG RESISTANCE IN SPECIAL POPULATIONS
Poster Hall A **2:30 PM - 4:00 PM**

- 536 HIV DRUG RESISTANCE ACROSS ANATOMICAL TISSUES**
Sergio Ita, Antoine Chaillon, Maris Kamalu, Jonny Baham, Aimee Chen, Magali Porrachia, Caroline Ignacio, Stephen A. Rawlings, Gabriel A. Wagner, Sara Gianella, Davey M. Smith

537 HIV DRUG RESISTANCE IN FEMALE SEX WORKERS FROM THE DOMINICAN REPUBLIC AND TANZANIA

Wendy Greenawalt, Jessica M. Fogel, William Clarke, Autumn Breaud, Jessie Mbwambo, Samuel Likindikoki, Said Aboud, Yeycy Donastorg, Martha Perez, Clare Barrington, Wendy Davis, Mark A. Marzinke, Noya Galai, Deanna Kerrigan, Susan H. Eshleman

538 RESISTANCE TO INTEGRASE STRAND TRANSFER INHIBITORS AMONG MSM IN THE US: HPTN 078

Jessica M. Fogel, Vanessa Cummings, Ethan A. Wilson, Christophe Fraser, David Bonsall, Theresa Gamble, Carlos Del Rio, D. Scott Batey, Kenneth H. Mayer, Jason Farley, James Hughes, Robert H. Remien, Chris Beyrer, Susan H. Eshleman, for the HPTN 078 Study Team

539 EXPANDED SPECTRUM OF ANTIRETROVIRAL-SELECTED HIV-2 MUTATIONS

Philip L. Tzou, Diane Descamps, Soo-Yon Rhee, Dana Raugi, Charlotte Charpentier, Florence Damond, Nuno Taveira, Robert A. Smith, Vincent Soriano, Carmen De Mendoza Fernández, Susan Holmes, Geoffrey S. Gottlieb, **Robert Shafer**

540 HIV VIRAL BLIPS IN ADULTS TREATED WITH InSTI-BASED REGIMENS THROUGH 144 WEEKS

Rima K. Acosta, Kristen Andreatta, Michelle L. D'Antoni, Sean E. Collins, Hal Martin, Kirsten L. White

Poster P-J07 HCV EPIDEMIOLOGY: TESTING, TRANSMISSION, AND TRANSMISSION COCONSPIRATORS

Poster Hall B

2:30 PM - 4:00 PM

590 HEPATITIS C TESTING OF INDIVIDUALS WITH HCV/HIV COINFECTION, MASSACHUSETTS 2013-2018

Quynh Vo, Laura Kersanske, Matthew Tumpney, Betsey John, Anthony Osinski, Shauna Onofrey, Daniel Church, Monina Klevens

591 COST-SAVING OF POOLED HCV RNA TESTING TO DIAGNOSE ACUTE HCV IN HIGH-RISK POPULATIONS

Hsin-Yun Sun, Yi-Ting Chen, Wen-Chun Liu, Li-Hsin Su, Yu-Chung Chuang, Yu-Shan Huang, Un-In Wu, Kuan-Yin Lin, Sui-Yuan Chang, Chien-Ching Hung

592 PERSISTENT HIV CONTROLLERS ARE MORE PREDISPOSED TO SPONTANEOUSLY CLEAR HCV

Beatriz Dominguez-Molina, Laura Tarancon-Diez, Yusnelkis Milanes-Guisado, Miguel Genebat, Salvador Resino, Carmen Rodriguez, Norma Rallón, Cecilio Lopez-Galindez, José Miguel Benito, Felipe Garcia, Jorge Romero, Pompeyo Viciano, Luis López-Cortés, Manuel Leal, **Ezequiel Ruiz-Mateos**

593 HPTN 078: HIGH INCIDENCE OF HEPATITIS C VIRUS INFECTIONS AMONG MSM

Risha Irvin, Jowanna Malone, Theresa Gamble, James Hughes, Jason Farley, Kenneth H. Mayer, Carlos del Rio, D. Scott Batey, Michael Murphy, Oliver Laeyendecker, Batsirai M. Mabvakure, Robert H. Remien, Chris Beyrer, Chloe Thio, for the HPTN 078 Research Team

594 SEX, NOT DRUG USE, IS DRIVING HCV REINFECTION AMONG HIV-INFECTED MSM IN NEW YORK CITY

Stephanie H. Factor, Jesse R. Carollo, Gabriela Rodriguez-Caprio, Asa Radix, Stephen M. Dillon, Rona Vail, Krisczar J. Bungay, Robert Chavez, José Lares-Guia, **Daniel S. Fierer**, for the New York Acute Hepatitis C Surveillance Network

595 HCV REINFECTION AMONG HIV PATIENTS AFTER DAA THERAPY IN THE COUNTRY OF GEORGIA

Nikoloz Chkhartishvili, Pati Gabunia, Akaki Abutidze, Giorgi Korkotashvili, Otar Chokoshvili, Natia Dvali, Lali Sharvadze, Tengiz Tsertsvadze

596 HCV REINFECTION AFTER DAA TREATMENT AMONG PEOPLE LIVING WITH HIV IN SAN DIEGO

Lucas Hill, Natasha Martin, Sonia Jain, Francesca Torriani, Xiaoying Sun, Huifang Qin, Craig Ballard, W. C. Mathews, Edward R. Cachay

597 HCV INCIDENCE AMONG HIV-INFECTED MSM IN FRANCE: RESULTS FROM THE FHDH-ANRS C04 COHORT

Mathieu Castry, Anthony Cousien, Jonathan Bellet, Karen Champenois, Gilles Pialoux, Yazdan Yazdanpanah, Dominique Costagliola, Sophie Grabar, Sylvie Deuffic-Burban

598 LARGE HEPATITIS C TRANSMISSION CLUSTER IDENTIFIED AMONG HIV-POSITIVE MSM IN BANGKOK

Win Min Han, Donn J. Colby, Apichaya Khlaiphuengsin, Tanakorn Apornpong, Stephen J. Kerr, Sasiwimol Ubolyam, Eugène Kroon, Nittaya Phanuphak, Anchalee Avihingsanon, Kiat Ruxrungtham, Praphan Phanuphak, Pisit Tangkijvanich

599 ORAL PRESCRIPTION OPIOID USE AS A HIGH-RISK INDICATOR FOR HCV INFECTION

Benjamin A. Hack, Utsav Timalisina, Emily Paku, Brittany Wilkerson, Eshetu Tefera, Stephen Fernandez, Dawn Fishbein

600 SYNDEMIC OF HCV, PRESCRIPTION OPIOID USE, AND PSYCHIATRIC ILLNESS: A NOVEL FRAMEWORK

Adeel A. Butt, for the ERCHIVES Study Team

601 THE PERFECT ICE STORM: THE MIX OF METH AND HIV SPREADS HEPATITIS C IN THAI MSM

Donn J. Colby, Siriporn Nonenoy, Sataporn Waewklaihong, Jitsupa Peelay, Ratchadaporn Meksen, Oranuch Nampaisarn, Jitpisutt Ariyasirikul, Piranun Hongchookiat, Peeraporn Kaewon, Pradit Chailit, Sirichai Jarupittaya, Nipat Teeratakulpisarn, Reshmie Ramautarsing, Praphan Phanuphak, Nittaya Phanuphak

602 HEPATITIS C VIRUS INFECTION AND COINFECTION WITH HIV AMONG PWID IN 10 US CITIES

Johanna Chapin-Bardales, Alice Asher, Dita Broz, Eyasu Teshale, Tonya Hayden, Carlos Blanco, Senad Handanagic, Cyprian Wejnert, for the NHBS HCV Study Group

Poster P-J08 HBV: PATHOGENESIS, EPIDEMIOLOGY, PREVENTION, AND THERAPY

Poster Hall B

2:30 PM - 4:00 PM

603 HEPATITIS B VIRUS VACCINATION IN A CURRENT-ERA HIV CLINIC

Meagan Deming, Shyam Kottlil

604 IMMUNIZATION RESPONSE IN INFANTS BORN TO HBsAg+ HBeAg+ MOTHERS RECEIVING TDF

Gonzague Jourdain, Patrinee Traisathit, Nicolas Salvadori, Nantawan Wangsaeng, Woottichai Khamduang, Nicole Ngo-Giang-Huong, for the iTAP Study Group

- 605 EFFECTIVENESS OF THE NOVEL ADJUVANTED HEPATITIS B VACCINE AMONG HIV AND HCV PATIENTS**
Brooke Kimball, Katy Garrett
- 606 TIMING OF ANTI-HBs ANTIBODIES DECAY IN VACCINATED PLWH/A: A LONG-LASTING RESPONSE**
Oliver Epaulard, Alice Tomio, Julien Lupo, Myriam Blanc
- 607 HIGH INCIDENCE OF HBV INFECTION IN HIV-COINFECTED PATIENTS ACCESSING ART CARE**
Nokukhanya Msomi, Kogieleum Naidoo, Nonhlanhla Yende-Zuma, Kerusha Govender, Nesri Padayatchi, Jeome Singh, Salim S. Abdool Karim, Quarraisha Abdool Karim, Koleka Mlisana
- 608 CHARACTERIZING HBV INFECTION AMONG PERSONS LIVING WITH HIV IN CARE IN URBAN SENEGAL**
Adrià Ramí­ez Mena, Judicaël M. Tine, Ousseynou Ndiaye, Louise Fortes, Ka Daye, Ndeye Fatou Gnom, Fall Fatou, Moussa Seydi, Gilles Wandeler
- 609 LIVER FIBROSIS CHANGES OVER 3 YEARS OF TENOFOVIR-BASED ART IN HIV-HBV COINFECTION**
Michael J. Vinikoor, Kalongo Hamusonde, Shilpa Iyer, Edford Sinkala, Lloyd Mulenga, Michael Saag, Mary-Ann Davies, Matthias Egger, Gilles Wandeler, for the IeDEA Southern Africa
- 610 LONG-ACTING TENOFOVIR AND NITAZOXANIDE FORMULATIONS SUPPRESS HBV REPLICATION**
Denise A. Cobb, Dhruvkumar Soni, Weimin Wang, Murali Ganesan, Raghubendra S. Dagur, Edward Makarov, Yimin Sun, JoEllyn McMillan, Howard E. Gendelman, Natalia Osna, Larisa Y. Poluektova, Benson Edagwa
- 611 A RHESUS MACAQUE MODEL OF CHRONIC HBV INFECTION FOR CURE RESEARCH**
Sreya Biswas, Patrick Hashiguchi, Jennifer Stanton, Benjamin N. Bimber, Ulrike Protzer, Jonah Sacha, **Benjamin J. Burwitz**
- 612 CYTOKINE PROFILES IN ASYMPTOMATIC ACUTE HEPATITIS B**
Kathleen E. Stevens, Eric C. Seaberg, **Katherine Cascino**, Mallory Witt, Claudia Hawkins, Bernard J. Macatangay, Chloe Thio
- 613 HBV-RELATED INFLAMMATION IS LINKED TO THE LEVEL OF GENETICALLY INTACT HIV PROVIRUSES**
Xiao Qian Wang, Jennifer M. Zerbato, Anchalee Avihingsanon, Katie Fisher, Bethany A. Horsburgh, Timothy E. Schlub, Ajantha Solomon, Jennifer Audsley, Kasha P. Singh, Wei Zhao, Megan Crane, Sharon R. Lewin, Sarah Palmer
- 614 LIVER DISEASE PROGRESSION IN HIV-HBV COINFECTION ON ART IS ASSOCIATED WITH HMGB1**
Kasha P. Singh, Jennifer M. Zerbato, Wei Zhao, Sabine Braat, Surekha Tennakoon, Ajantha Solomon, Gail Matthews, Christopher K. Fairley, Joseph Sasadeusz, Megan Crane, Anchalee Avihingsanon, Jennifer Audsley, Sharon R. Lewin
- 615 HEPATITIS B VIRUS MUTATIONS ASSOCIATED WITH HEPATOCELLULAR CARCINOMA IN BOTSWANA**
Sethunya Gotulweng, Motswedi Anderson, Wonderful Choga, Kabo Baruti, Lynnette Bhebhe, Tshepiso Mbangiwa, Bonolo B. Phinius, Sikhulile Moyo, Theresa K. Sebunya, Richard G. Marlink, Max Essex, Rosemary Musonda, Jason T. Blackard, Simani Gaseitsiwe

616 HEPATOCELLULAR CARCINOMA SCREENING AMONG HIV/HBV-COINFECTED INDIVIDUALS IN ZAMBIA

Carlotta Riebensahm, Helen Chitundu, Belinda Varaidzo Chihota, Edford Sinkala, Lloyd Mulenga, Veronica Sunkutu, Adrià Ramírez Mena, Matthias Egger, Carolyn Bolton Moore, Michael J. Vinikoor, Gilles Wandeler

Poster P-J09 HAV AND HEV

Poster Hall B

2:30 PM - 4:00 PM

617 SUBOPTIMAL IMMUNITY TO HEPATITIS A AMONG NYC MSM INITIATING PrEP OR PEP, 2016-2019

Tarek Mikati, Addie Crawley, Leah Strock, Susan Blank

618 HEPATITIS E RABBIT GENOTYPE INFECTION IN HIV-INFECTED PATIENTS

Antonio Rivero-Juárez, Mario Frías, Pedro Lopez-Lopez, Juan Berenguer, Federico García, Juan Macías, Begoña Alcaraz, Angeles Castro, Javier Caballero-Gomez, Antonio Rivero, for the Spanish AIDS Research Network

Poster P-K03 CANCER TREATMENT AND RISK

Poster Hall B

2:30 PM - 4:00 PM

631 IMMUNO-VIROLOGICAL PARAMETERS IN PEOPLE LIVING WITH HIV UPON ANTI-PD-1/L-1 FOR CANCER

Jean-Philippe Spano, Joséphine Anna Tine, Amélie Guihot, Cathia Soulie, Anne-Geneviève Marcelin, Marianne Veyri, Marine Baron, Séverine Gibowski, Armelle Lavolé, Alain Makinson, Isabelle Poizot-Martin, Christine Katlama, **Dominique Costagliola**, Lambert Assoumou, Olivier Lambotte

632 T-CELL SUBPOPULATION PROFILES AND CANCER RISK FOR HIV+ AND HIV – VETERANS

Keith M. Sigel, Suman Kundu, Lesley S. Park, Kaku So-Armah, Margaret F. Doyle, Russell Tracy, Janet Tate, Amy C. Justice, Matthew Freiberg

633 TET2 SNPs AND RISK OF CANCER IN THE START, SMART, AND ESPRIT COHORTS

Daniel D. Murray, Cameron MacPherson, Birgit Grund, Christina Ekenberg, Adrian G. Zucco, Dahlene Fusco, Julien Gras, Jan Gerstoft, Marie Helleberg, Álvaro H. Borges, Mark Polizzotto, Jens D. Lundgren, for the INSIGHT START, SMART and ESPRIT Study Groups

634 NEXT-GENERATION SEQUENCING TO PROFILE CANCER-RELATED GENES IN HIV+ PATIENTS

Margherita Digaetano, Antonino Maiorana, Roberto Sabbatini, Carlotta Rogati, Andrea Cossarizza, Cristina Mussini

Poster P-L05 CLINICAL AND SUBCLINICAL CARDIOVASCULAR OUTCOMES IN HIV

Poster Hall B

2:30 PM - 4:00 PM

655 CARDIAC EVENTS IN HIV-INFECTED PATIENTS WHO USE TENOFOVIR ALAFENAMIDE (TAF)

Brent Appelman, Guido Van Den Berk, Marieke De Regt, Narda Van Der Meche, Daoud Ait Moha, Piter Oosterhof, Joost Vanhommerig, Kees Brinkman

656 INPATIENT OUTCOMES FOR HIV-INFECTED PATIENTS HOSPITALIZED FOR ACUTE CORONARY SYNDROME

Monica Parks, Eric A. Secemsky, Robert W. Yeh, Changyu Shen, Eunhee Choi, Dhruv Kazi, Priscilla Hsue

- 657 PREVALENCE AND CORRELATES OF CAROTID PLAQUE IN A MIXED HIV-SEROSTATUS UGANDAN COHORT**
Prossy Bibangambah, Linda C. Hemphill, Moses Acan, Alexander C. Tsai, Ruth Sentongo, June-Ho Kim, Mark J. Siedner, Samson Okello
- 658 MEASURES OF ADIPOSE-TISSUE REDISTRIBUTION AND ATHEROSCLEROTIC CORONARY PLAQUE IN HIV**
Milana Bogorodskaya, Kathleen V. Fitch, Markella V. Zanni, Sara E. Looby, Sanjna Iyengar, Steven K. Grinspoon, Suman Srinivasa, Janet Lo
- 659 MAJOR VASCULAR EVENTS IN ADULTS ON ART IN A SOUTH AFRICAN HIV MANAGEMENT PROGRAMME**
Johannes P. Mouton, Renee De Waal, Morna Cornell, Gary Maartens, Karen Cohen
- 660 ASSOCIATION OF HYPERTENSION AND ART USE IN A POPULATION-BASED COHORT, RAKAI, UGANDA**
Grace Mongo-Bua, Victor Ssempijja, Anthony Ndyabo, Doreen Nabukalu, Jesca Basiima, Edward Kankaka, Fred Nalugoda, Gertrude Nakigozi, Joseph Kagaayi, Larry W. Chang, Ronald H. Gray, Maria Wawer, Godfrey Kigozi, Steven J. Reynolds

Poster P-L06 RHYTHM OF THE BEAT: ARRHYTHMIA AND HIV

Poster Hall B

2:30 PM - 4:00 PM

- 661 VENTRICULAR ARRHYTHMIA PREVALENCE AND FREQUENCY: THE MULTICENTER AIDS COHORT STUDY**
Matthew J. Feinstein, Alexander Meyer, Frank J. Palella, Hiroshi Ashikaga, Sabina A. Haberlen, Jared Magnani, Matthew Budoff, Kathryn Berlacher, Sean Altekruze, Gypsyamber D'Souza, Todd T. Brown, Katherine Wu, Wendy Post
- 662 ASSOCIATION BETWEEN HIV AND THE PREVALENCE OF ATRIAL FIBRILLATION AND ATRIAL FLUTTER**
Ngozi C. Osuji, Sabina A. Haberlen, Hiroshi Ashikaga, Todd T. Brown, Matthew J. Feinstein, Mallory Witt, Lawrence Kingsley, Sean Altekruze, Katherine Wu, Wendy Post

Poster P-L07 INTERVENTIONS TO REDUCE CVD: BENCH TO BEDSIDE

Poster Hall B

2:30 PM - 4:00 PM

- 663 MitoQ ATTENUATES EX VIVO PROATHEROGENIC EFFECTS OF HIV PLASMA IN CHRONIC TREATED HIV**
 Eleni Ritou, Rachel Heymans, **Theodoros Kelesidis**
- 664 HIV AND AGEING: PRIMARY AND SECONDARY PREVENTION OF CAD AMONG PLHIV**
Gaetano Marrone, Olof Elvstam, Anders Sönnernborg
- 665 COST-EFFECTIVENESS OF STATIN USE IN HIV-POSITIVE PERSONS IN THE USA: THE D:A:D STUDY**
David C. Boettiger, Anthony Newall, Andrew N. Phillips, Lene Ryom, Peter Reiss, Eran Bendavid, Fabrice Bonnet, Rainer Weber, Wafaa M. El-Sadr, Matthew Law, James Kahn, Jens D. Lundgren, Caroline Sabin, Dhruv Kazi, for the D:A:D Study Group
- 666 DEPRESSION COGNITIVE BEHAVIORAL THERAPY TO IMPROVE HIV-CVD RISK: A PILOT RCT**
Samir K. Gupta, Ziyue Liu, James E. Slaven, Brittany Polanka, Matthew Freiberg, Jesse C. Stewart

Poster P-M06 PULMONARY COMPLICATIONS**Poster Hall B****2:30 PM - 4:00 PM****696 INTERSTITIAL LUNG ABNORMALITIES IN PEOPLE LIVING WITH HIV AND UNINFECTED CONTROLS**

Andreas Ronit, Thomas Benfield, Jens D. Lundgren, Jørgen Vestbo, Shoaib Afzal, Børge Nordestgaard, Klaus F. Kofoed, Susanne D. Nielsen, Thomas Kristensen

697 IMPLEMENTATION OF A LUNG CANCER SCREENING INITIATIVE IN HIV-INFECTED SUBJECTS

Patricia Roiz, **Jorge Diaz**, Javier Martínez-Sanz, Jose L. Casado, Maria Jesus Perez-Elias, Santiago Moreno, Ana Moreno, Sabina Herrera, María J. Vivancos-Gallego, Pilar Vizcarra, Ana M. Ayala-Carbonero, Sergio Perez-Pinto, Luis Gorospe, Sergio Serrano-Villar

698 DIMENSIONS OF SLEEP HEALTH: IMPACT ON QUALITY OF LIFE OF PEOPLE WITH AND WITHOUT HIV

Davide De Francesco, Caroline Sabin, Alan Winston, Patrick W. Mallon, Nicki Doyle, Susan Redline, Ken M. Kunisaki, for the POPPY-Sleep Study Group

699 HIV IS ASSOCIATED WITH WORSE PULMONARY DIFFUSING CAPACITY INDEPENDENT OF EMPHYSEMA

Sarath Raju, Meredith C. McCormack, Jacquie Astemborski, M. Brad Drummond, Jing Sun, Robert H. Brown, Gregory D. Kirk

700 HIV AS A RISK FACTOR FOR INCIDENT PULMONARY HYPERTENSION

Meredith S. Duncan, Suman Kundu, Charles Alcorn, Emily Epstein, Grace Wallace, Kaku So-Armah, Amy C. Justice, Kristina Crothers, Matthew Freiberg, Evan L. Brittain

Poster P-M08 FUNCTIONAL STATUS AND FRAILTY**Poster Hall B****2:30 PM - 4:00 PM****704 EXERCISE-INDUCED EPIGENETIC CHANGES IN MUSCLE DIFFER BY HIV SEROSTATUS**

Kristine M. Erlandson, Colleen Julian, Iain Konigsberg, Jing Sun, Todd T. Brown, Catherine M. Jankowski

705 EFFECTS OF HIV, AGE, AND SEX ON SKELETAL MUSCLE MASS AND DENSITY

Kristine M. Erlandson, Susan Langan, Jing Sun, Jordan E. Lake, Anjali Sharma, Stefan Adrian, Ann Scherzinger, Frank J. Palella, Lawrence Kingsley, Stephen J. Gange, Phyllis Tien, Michael T. Yin, Todd T. Brown

706 CONSISTENT STATIN USE DOES NOT AFFECT AGE-ASSOCIATED GAIT SPEED AND STRENGTH DECLINES

Kristine M. Erlandson, Susan Langan, Jing Sun, Jordan E. Lake, Frank J. Palella, Lawrence Kingsley, Todd T. Brown

707 PREVALENCE OF PHYSICAL-FUNCTION IMPAIRMENT AND FRAILTY IN MIDDLE-AGED PWH

Triin Umbleja, Todd T. Brown, Heather Ribaud, Jennifer A. Schrack, Constance A. Benson, Benigno Rodriguez, Roberto Arduino, Kathleen V. Fitch, Steven K. Grinspoon, Edgar T. Overton, Kristine M. Erlandson, for the ACTG A5361S (PREPARE) Team

Poster P-M09 MULTIMORBIDITY**Poster Hall B****2:30 PM - 4:00 PM****708 CAUSE-SPECIFIC HOSPITALIZATION TRENDS AMONG NORTH AMERICAN PERSONS WITH HIV 2005-2015**

Thibaut Davy-Mendez, Sonia Napravnik, Kelly Gebo, Keri N. Althoff, M J. Gill, Michael A. Horberg, W. C. Mathews, Joseph J. Eron, Jeffrey Martin, Bryan Lau, Kate Buchacz, Viviane D. Lima, Marina Klein, Stephen A. Berry, for the NA-ACCORD of IeDEA

709 MODIFIABLE RISK FACTORS AND INCIDENT CKD AND CVD AMONG HIV+ AND HIV- PATIENTS

Michael A. Horberg, Wendy Leyden, Rulin Hechter, Jennifer O. Lam, Haihong Hu, Alexandra N. Anderson, Julia L. Marcus, Qing Yuan, Alan S. Go, William J. Towner, Michael J. Silverberg

710 BASELINE AND ACQUIRED COMORBIDITIES IN PATIENTS INITIATING ART IN THE HOPS, 2008-2018

Ellen Tedaldi, Carl Armon, Jun Li, Gina M. Simoncini, Frank J. Palella, Stacey Purinton, Kate Buchacz

711 WOMEN WITH HIV HAVE HIGH OVERALL BURDEN AND EARLY ACCRUAL OF NON-AIDS COMORBIDITIES

Lauren F. Collins, Anandi N. Sheth, Cyra Christina Mehta, Elizabeth T. Golub, Phyllis Tien, Kathryn Anastos, Audrey French, Seble Kassaye, Tonya Taylor, Mirjam-Colette Kempf, Margaret Fischl, Adaora Adimora, Frank J. Palella, Igbo Ofotokun

712 PERSISTENT LOW-LEVEL VIREMIA IS ASSOCIATED WITH NONINFECTIOUS COMORBIDITIES

Allahna L. Esber, Julie Ake, Emmanuel Bahemana, Francis Kiweewa, Jonah Jonah Maswai, John Owuoth, Michael Iroezindu, Christina Polyak, Trevor A. Crowell, for the AFRICOS Study Group

713 FACTORS ASSOCIATED WITH PSORIASIS: THE INDEPENDENT ROLE OF HLA-B*5701

Maxime Hentzien, Lise Cuzin, **François Raffi**, Christine Jacomet, Jacques Reynes, David Rey, Isabelle Ravau, Antoine Chéret, Manuelle Viguiet, Firouze Bani-Sadr

Poster P-N05 CRYPTOCOCCAL DISEASE, TALAROMYCOSIS, CMV, AND OTHER OPPORTUNISTIC INFECTIONS**Poster Hall B****2:30 PM - 4:00 PM****743 DIAGNOSTIC PERFORMANCE OF A SEMIQUANTITATIVE POINT-OF-CARE ASSAY FOR CRYPTOCOCCOSIS**

Tadeo K. Kiiza, Audrey Nimwesiga, Caleb P. Skipper, Richard Kwizera, Lucy Apeduno, Michael Okirwoth, John Bosco Kafufu, Elizabeth Nalintya, Darlisha A. Williams, Joshua Rhein, David B. Meya, David R. Boulware

744 EARLY FUNGICIDAL ACTIVITY AS SURROGATE ENDPOINT FOR CRYPTOCOCCAL MENINGITIS SURVIVAL

David R. Boulware, Matt Pullen, Katherine Huppler Hullsiek, Joshua Rhein, Lillian Tugume, Edwin Nuwagira, Kenneth Ssebambulidde, Mahsa Abassi, Radha Rajasingham, Katelyn Pastick, Caleb P. Skipper, Abdu Musubire, Conrad Muzoora, David Meya, for the ASTRO-CM Team

- 745 EVALUATING THE IMMY SEMI-QUANTITATIVE CrAg LFA IN HIV-POSITIVE PATIENTS IN BOTSWANA**
Kwana Lechiile, Mark W. Tenforde, Thandi Milton, Amber Boose, Tshepo B. Leeme, Leabaneng Tawe, Charles Muthoga, Fredah Mulenga, Ikanyeng Rulaganyang, Julia Ngidi, Madisa Mine, Joseph N. Jarvis
- 746 HIGH RATES OF MENINGITIS OR MORTALITY AMONG CrAg+ PLHIV WITH CD4 100-200 CELLS/MM³**
James H. Wykowski, Paul K. Drain, Sean Galagan, Sabina M. Govere, Connie L. Celum, Mahomed-Yunus Moosa, Carole Wallis
- 747 CSF CYTOKINES AND CHEMOKINES ASSOCIATED WITH MORTALITY IN CRYPTOCOCCAL MENINGITIS**
Elizabeth C. Okafor, Liliane Mukaremera, Nicole Wyman Engen, Katherine Huppler Hullsiek, Lillian Tugume, Kenneth Ssebambulidde, Abdu Musubire, Edwin Nuwagira, Edward Mpoza, Darlisha A. Williams, Conrad Muzoora, David Meya, Joshua Rhein, David R. Boulware, for the ASTRO-CM Team
- 748 TUBERCULOSIS IN HIV-ASSOCIATED CRYPTOCOCCAL MENINGITIS AND ITS IMPACT ON MORTALITY**
Morris K. Rutakingirwa, Fiona V. Cresswell, Enock Kagimu, Edwin Nuwagira, Kenneth Ssebambulidde, Lillian Tugume, Edward Mpoza, Joanna Dobbin, Richard Kwizera, Darlisha Williams, Conrad Muzoora, David B. Meya, David R. Boulware, Katherine Huppler Hullsiek, Joshua Rhein
- 749 THE GLOBAL DISTRIBUTION, DRIVERS, AND BURDEN OF TALAROMYCOSIS, 1964-2017**
Chuangyi Ning, Wudi Wei, Bo Xu, Thanh T. Nguyen, Li Ye, Hao Liang, Thuy Le
- 750 SUPERIOR ACCURACY OF THE Mp1p ANTIGEN ASSAY OVER CULTURES IN DIAGNOSING TALAROMYCOSIS**
Ly T. Vo, Thu T. Nguyen, Thanh T. Nguyen, Nguyen Le Nhu Tung, Jasper F. Chan, Patrick C. Woo, Chau V. Nguyen, Nga N. Cao, Kwok-Yung Yuen, Thuy Le
- 751 IN VITRO ANTIFUNGAL SUSCEPTIBILITY AND ANTIFUNGAL TREATMENT OUTCOME IN TALAROMYCOSIS**
Thu T. Nguyen, Hannah Shepard, Ly T. Vo, Thanh T. Nguyen, Thuy Le
- 752 PREVALENCE OF CMV VIREMIA AND ASSOCIATED RISK IN HIV-INFECTED PERSONS STARTING ART**
Shweta Sharma, Mark R. Schleiss, Hansjakob Furrer, Daniel Nixon, Mark Blackstad, Nelmary Hernandez-Alvarado, Dominic Dwyer, Álvaro H. Borges, H. Clifford Lane, Jean-Michel Molina, Jens D. Lundgren, James Neaton, for the INSIGHT and ANRS Groups
- 753 CMV VIREMIA IN PATIENTS WITH ADVANCED HIV INFECTION: A 48-WEEK FOLLOW-UP STUDY**
Paula Suanzes, Adaia Albasanz, Juliana Esperalba, Candela Fernández, Júlia Sellarés, Ariadna Torrella Domingo, Bibiana Planas, Antonio Segura, Mario Martin, Jordi Navarro, Joaquin Burgos, Adrià Curran, Esteban Ribera, Vicenç Falcó
- 754 RISKS OF OPPORTUNISTIC INFECTIONS FOR HIV +/- VETERANS UNDERGOING CANCER CHEMOTHERAPY**
Alain Makinson, Lesley S. Park, Kimberly Stone, Maria Rodriguez-Barradas, Sheldon T. Brown, Roxanne Wadia, Kristina Crothers, Cynthia L. Gibert, Roger Bedimo, Matthew B. Goetz, Fatma Shebl, Jacques Reynes, Vincent Le Moing, Keith M. Sigel

Poster P-N06 NOVEL TB DIAGNOSTICS**Poster Hall B****2:30 PM - 4:00 PM****755 CHARACTERISATION OF SOUTH AFRICA'S XPERT MTB/RIF ULTRA "TRACE" LABORATORY RESULTS**

Lesley Scott, Pedro Da Silva, Kyle Fyvie, Gabriel D. Eisenberg, Silence Ndlovu, Puleng S. Marokane, Wendy Stevens

756 URINE-BASED TB SCREENING WITH TB-LAM AND ULTRA IN HIV+ UGANDANS WITH MENINGITIS

Jayne Ellis, Enock Kagimu, Ananta Bangdiwala, Michael Okirwoth, Gerald Mugumya, Vincent Wadda, David R. Boulware, Nathan C. Bahr, Fiona V. Cresswell

757 APPLICABILITY OF URINE LAM TEST IN ADVANCED HIV-INFECTED ADULTS IN UKRAINE

Marta Vasylyev, Svitlana Antonyak, Sergii Antoniuk, Natasha Rybak, Vira Buihichyk, Oleksandra Sluzhynska, Maryana Sluzhynska, Viktor Tretiakov, Tetiana Ismagilova, Iryna Dizha, Yana Sheremeta, Dmytro Skirgiko, Anastasiia Mazurenko, Justyna D. Kowalska

758 EVALUATION OF A BLOOD-BASED ANTIGEN TEST FOR TUBERCULOSIS IN INFANTS

Liyan Mao, Sylvia LaCourse, Soyeon Kim, Charles D. Mitchell, **Tony Hu**

759 PROMISING COMBINED IMMUNOLOGICAL ASSAYS TO DIAGNOSE CHILDHOOD TUBERCULOSIS

Edouard Tuailon, Mwiya Mwiya, Laurent Kremer, Melany w. Tonga, Duncan Chanda, Marianne Periès, Amandine Pisoni, Karine Bolloré, Roselyne Vallo, Chipeco Kankasa, Philippe Van de Perre, **Jean-Pierre Molès**, Nicolas Nagot

760 WITHDRAWN**761LB ACCURACY OF NOVEL BLOOD ASSAY FOR IDENTIFICATION OF TB DISEASE IN PEOPLE WITH HIV**

Erik Södersten, Anna Mantsoki, Romain Wyss, David Persing, Sara Banderby, Linda Strömquist Meuzelaar, Jacqueline Prieto, Devasena Gnanashanmugam, Purvesh Khatri, Stefano Ongarello, Samuel G. Schumacher, **Claudia Denking**

762LB PROSPECTIVE VALIDATION OF A BLOOD RNA TB BIOMARKER IN AMBULANT HIV-INFECTED ADULTS

Simon C. Mendelsohn, Andrew Fiore-Gartland, Adam Penn-Nicholson, Humphrey Mulenga, Chris Hikuam, Katie Hadley, Michele Tameris, Craig Innes, William L. Brumskine, Gerhard Walzl, Kogieleum Naidoo, Gavin Churchyard, Thomas J. Scriba, Mark Hatherill, for the CORTIS-HR Study Team

Poster P-006 IMPLICATIONS OF IMMUNE ACTIVATION AND INFLAMMATION IN PREGNANCY AND BREASTFEEDING

Poster Hall B

2:30 PM - 4:00 PM

793 METABOLITES, PRETERM LABOR, AND ANTIRETROVIRAL THERAPY

Nicole H. Tobin, Aisling Murphy, Fan Li, Sean S. Brummel, Mary Glenn Fowler, James A. McIntyre, Judith S. Currier, Tsungai Chipato, Patricia M. Flynn, Brian Koos, Grace M. Aldrovandi, for the 1077BF/1077FF PROMISE (Promoting Maternal and Infant Survival Everywhere) Team

794 GENITAL TRACT & PLASMA CYTOKINES & SYSTEMIC T-CELL ACTIVATION IN HIV+ PREGNANT WOMEN

Charlotte-Eve S. Short, Rachael A. Quinlan, Robin J. Shattock, Judith Russell, Brenton Wait, Christopher Wood, David Hawkins, Rimi Shah, Pippa Farrugia, Phillip R. Bennett, Graham P. Taylor, for the London HIV Pregnancy Research Group

795 MATERNAL BIOMARKERS OF ENDOTHELIAL DYSFUNCTION BY HIV/ART STATUS AND BIRTH OUTCOMES

Gaerolwe Masheto, Sikhulile Moyo, Terence Mohammed, Christina Banda, Charlene Raphaka, Mompoti O. Mmalane, Joseph Makhema, Roger L. Shapiro, Mosepele Mosepele, Rebecca Zash, Shahin Lockman

796 MATERNAL AND CORD PLASMA BIOACTIVE EICOSANOID PROFILES DIFFER IN HIV+ AND HIV- WOMEN

Kayode Balogun, Lauren Balmert, Jennifer Jao, Shan Sun, Richard Bazinet, **Lena Serghides**

797 BREASTMILK MICROBIOME/VIROME OF HIV+ KENYAN WOMEN IS NOT ALTERED BY IMMUNOSUPPRESSION

Rabia Maqsood, Jennifer Slyker, LaRinda A. Holland, Lily I. Wu, Ruth Nduati, Dorothy Mbori-Ngacha, Grace John-Stewart, Dara Lehman, **Efrem Lim**

Poster P-P01 HEALTH OUTCOMES OF HIV-EXPOSED UNINFECTED CHILDREN

Poster Hall B

2:30 PM - 4:00 PM

798 REDUCED BASAL GANGLIA AND TOTAL GREY MATTER VOLUME IN HIV-EXPOSED UNINFECTED NEONATES

Catherine J. Wedderburn, Nynke A. Groenewold, Annerine Roos, Shunmay Yeung, Jean-Paul Fouché, Andrea M. Rehman, Diana Gibb, Katherine L. Narr, Heather Zar, Dan Stein, Kirsty Donald

799 POSTNATAL LPV/R EXPOSURE, GROWTH, AND NEUROPSYCHOLOGICAL OUTCOMES AT SCHOOL AGE

Nicolas Nagot, Mandisa Singata, Amandine Cournil, Joyce Nalugya, Souleymane Tassemedo, James Tumwine, Nicolas Meda, Chipepo Kankasa, Marianne Periès, Joanne Batching, Ingunn M.S. Engebretsen, Thorkild Tylleskär, **Philippe Van De Perre**, Grace Ndeez, Jean-Pierre Molès

800 MALNUTRITION IN HIV-EXPOSED UNINFECTED CHILDREN IN LONG-TERM OBSERVATIONAL FOLLOW-UP

Lynda Stranix-Chibanda, Jim Aizire, Nonhlanhla Yende-Zuma, Haseena Cassim, Sherika Hanley, Teacler Nematadzira, Lucky Makonokaya, Bonus Makanani, Lillian Wambuzi Ogwang, Taha E. Taha, Mary Glenn Fowler, for the PROMOTE Study Team

- 801 HIGH BODY MASS IN HIV+ & HIV- WOMEN AND THEIR HIV-UNINFECTED INFANTS IN SOUTH AFRICA**
Angela Bengtson, Stanzi M. le Roux, Tamsin K. Phillips, Kirsty Brittain, Allison Zerbe, Thoko Malaba, Greg Petro, Hlengiwe Madlala, Elaine J. Abrams, Landon Myer
- 802 DISTINCT CORD C-PEPTIDE, ADIPOKINE, AND LIPIDOMIC SIGNATURES BY IN UTERO HIV EXPOSURE**
Jennifer Jao, Lauren Balmert, Shan Sun, Thomas Kraus, Brian Kirmse, Mitchell Geffner, Yunping Qiu, Stephen M. Arpadi, Elaine J. Abrams, Derek LeRoith, Rhoda Sperling, Irwin J. Kurland
- 803 MORE SEVERE DISEASE IN HOSPITALIZED HIV-EXPOSED UNINFECTED VS HIV-UNEXPOSED NEONATES**
Kim Anderson, Emma Kalk, Hlengiwe Madlala, Dorothy C. Nyemba, Nisha Jacob, Amy L. Slogrove, Mariette Smith, Max Kroon, Michael Harrison, Brian Eley, Andrew Boule, Landon Myer, Mary-Ann Davies
- 804 INFECTIOUS MORBIDITY OF BREASTFED, HIV-EXPOSED UNINFECTED INFANTS IN SOUTH AFRICA**
Stanzi M. Le Roux, Elaine J. Abrams, Kirsty Donald, Kirsty Brittain, Tamsin K. Phillips, Allison Zerbe, David M. Le Roux, Max Kroon, Landon Myer
- 805 HIV EXPOSURE AND HUMAN MILK OLIGOSACCHARIDES MODULATE THE INFANT GUT MICROBIOTA**
Sarah L. Brooker, Nicole H. Tobin, Fan Li, Louise Kuhn, Grace M. Aldrovandi

Poster P-P05 COINFECTIONS, COMPLICATIONS, AND PATTERNS OF DISEASE IN CHILDREN AND YOUTH

Poster Hall B

2:30 PM - 4:00 PM

- 819 TUBERCULOSIS INFECTION AND DISEASE IN HIV-INFECTED ADOLESCENTS ON ART: A COHORT STUDY**
Lisa Frigati, Katalin Wilkinson, Leah Githinji, Karryn Brown, Sheena Ruzive, Wonita Petersen, Mark Cotton, Landon Myer, Heather Zar
- 820 LOWER SIZE-ADJUSTED BONE DENSITY AND MUSCLE FUNCTION IN ZIMBABWEAN CHILDREN WITH HIV**
Ruramayi Rukuni, Celia Gregson, Kate Ward, Nicola Crabtree, Andrea M. Rehman, Rashida A. Ferrand
- 821 BONE MASS REMAINS HIGHER AMONG CHILDREN ON EFAVIRENZ VS LOPINAVIR/RITONAVIR**
Yanhan Shen, Renate Strehlau, Stephanie Shiao, Faezah Patel, Megan Burke, Louise Kuhn, Ashraf Coovadia, Michael T. Yin, **Stephen M. Arpadi**
- 822 BONE AND RENAL OUTCOMES IN VIROLOGICALLY CONTROLLED ADOLESCENTS SWITCHING TO TDF**
Kate Braithwaite, Tristan D. McPherson, Stephen M. Arpadi, **Stephanie Shiao**, Gillian Sorour, Karl Technau, Michael T. Yin
- 823 EPIGENETIC AGE IN YOUNG AFRICAN AMERICAN ADULTS WITH PERINATALLY ACQUIRED HIV**
Stephanie Shiao, Michael T. Yin, Christian Vivar Ramon, Grace Jang, Anyelina Cantos, Jayesh Shah, Stephen M. Arpadi

824 GLOBAL VARIATIONS IN PUBERTAL GROWTH IN ADOLESCENTS LIVING WITH PERINATAL HIV

Siobhan Crichton, Julie Jesson, Marie-Hélène Aké-Assi, Erik Belfrage, Mary-Ann Davies, Jorge Pinto, Chloe A. Teasdale, Nguyen Van Lam, Rachel Vreeman, Sebastian Wanless, Paige L. Williams, Marcel Yotebieng, Valérie Leroy, Ruth Goodall, for the CIPHER Global Cohort Collaboration

825 LONG-TERM NONPROGRESSION IN CHILDREN WITH PERINATALLY ACQUIRED HIV

Charlotte Jackson, Alasdair Bamford, Siobhan Crichton, Ruth Goodall, Philip J. Goulder, Nigel Klein, Laura Marques, Paolo Paioni, Andrew Riordan, Vana Spoulou, Vinicius A. Vieira, Intira J. Collins, for the European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) Study Group

Poster P-Q10 PHYLOGENETICS AND HIV TRANSMISSION

Poster Hall D

2:30 PM - 4:00 PM

907 INCREASING CAPACITY FOR DETECTING CLUSTERS OF RAPID HIV TRANSMISSION: UNITED STATES

Alexandra M. Oster, Nivedha Panneer, Sheryl Lyss, Neeraja Saduvala, Tianchi Zhang, Cheryl B. Ocfemia, Laurie Linley, Meg Watson, Robert P. McClung, William M. Switzer, Joel O. Wertheim, Ellsworth M. Campbell, Angela L. Hernandez, Anne Marie France

908 STATEWIDE HIV-1 TRANSMISSION CLUSTER DETECTION AND PRIORITIZATION FOR RESPONSE

Ann M. Dennis, Simon Frost, Andrew E. Cressman, Shuntai Zhou, Ronald Swanstrom, William C. Miller, Joseph J. Eron, Myron S. Cohen, Victoria L. Mobley, Erika Samoff

909 DO PARTNER SERVICES INITIATED FROM MOLECULAR CLUSTERS YIELD NEW OR VIREMIC HIV CASES?

John A. Schneider, Christina S. Hayford, Irina Tabidze, Joel O. Wertheim, Camden Hallmark, Aditya Khanna, Patrick Janulis, David Kern, Ethan Morgan, Jonathan Ozik, Anna Hotton, Kayo Fujimoto, Richard D'Aquila, Nanette Benbow

910 THE RELATIONSHIP BETWEEN THE HIV TRANSMISSION NETWORK AND CARE CONTINUUM IN LA COUNTY

Adiba Hassan, Victor De Gruttola, Yunyin W. Hu, Zhijuan Sheng, Kathleen Poortinga, Joel O. Wertheim

911 SOCIODEMOGRAPHIC FACTORS ASSOCIATED WITH HIV CLUSTERING ACROSS BOTSWANA COMMUNITIES

Sikhulile Moyo, Kara Bennett, Simani Gaseitsiwe, Melissa Zahralban-Steele, Tapiwa Nkhisang, Jean Leidner, Dorcas Maruapula, Molly Pretorius Holme, Etienne Kadima, Tendani Gaolathe, Kathleen Wirth, Joseph Makhema, Max Essex, Shahin Lockman, Vlad Novitsky

912 ASSOCIATIONS BETWEEN PHYLOGENETIC TRANSMISSION CLUSTERS AND HLA PROFILES IN MEXICO

Sanjay R. Mehta, **Santiago Avila-Rios**, Matthew Strain, Humberto Valenzuela Ponce, Maribel Soto-Nava, Margarita Matías-Florentino, Alicia Piñeirúa, Florentino Badial-Hernandez, Andrea Gonzalez Rodriguez, Davey M. Smith, Gustavo Reyes-Terán, Antoine Chaillon

913 HIV RISK INCREASES WITH POSITIVE TIES IN HIGHLY CONNECTED SOCIOSPATIAL PWID NETWORK

Steven J. Clipman, Shruti H. Mehta, Aylur K. Srikrishnan, Katie J. Zook, Priya Duggal, Shobha Mohapatra, Shanmugam Saravanan, Nandagopal Paneerselvam, Muniratnam S. Kumar, Elizabeth Ogburn, Allison M. McFall, Gregory M. Lucas, Carl A. Latkin, Sunil S. Solomon

- 914 USING MOLECULAR EPIDEMIOLOGY TO CHARACTERIZE HIV TRANSMISSION NETWORKS OF TW AND MSM**
Jessica E. Long, Joshua T. Herbeck, Hugo Sanchez, Sari Reisner, Kenneth H. Mayer, James Mullins, Javier R. Lama, **Ann Duerr**
- 915 PHYLOGENETIC EVIDENCE OF HIV-1 MIXING BETWEEN KEY RISK GROUPS IN COASTAL KENYA**
Nduva M. George, Amin S. Hassan, Susan M. Graham, Joakim Esbjörnsson, Eduard Sanders
- 916 PHYLODYNAMIC EVIDENCE OF HIV TRANSMISSION BETWEEN AGE-DISCREPANT MSM IN KING COUNTY**
Diana M. Tordoff, Roxanne P. Kerani, Matthew R. Golden, Richard Lechtenberg, Susan E. Buskin, Joshua T. Herbeck
- 917 HOMOPHILY IN THE SOCIOSEXUAL NETWORKS OF GAY AND BISEXUAL MEN**
Kiffer G. Card, Zishan Cui, Jordan M. Sang, Heather L. Armstrong, Nathan J. Lachowsky, David M. Moore, Robert S. Hogg, for the Momentum Health Study
- 918 PHYLOGENETIC INSIGHTS ON HIV-1 TRANSMISSION DYNAMICS AMONG MSM AND MIGRANTS IN QUEBEC**
Bluma G. Brenner, Nathan Osman, Ernesto Cuadra Foy, Antoine Chaillon, Ruxandra-Ilinca Ibanescu, Isabelle Hardy, Nadine Kronfli, David Stephens, Michel Roger
- 919 NON-B SUBTYPE HIV INFECTIONS IN GERMANY BEFORE AND AFTER THE EUROPEAN MIGRANT CRISIS**
Melanie Stecher, Antoine Chaillon, Christoph Stephan, Jan-Christian Wasmuth, Josef Eberle, Georg M. Behrens, Julia Roeder, Christoph D. Spinner, Matthias C. Müller, Elena Knops, Guido Schäfer, Sanjay R. Mehta, Joerg Janne Vehreschild, Martin Hoenigl, for the Translational Platform HIV (TP-HIV) Molecular Epidemiology Team
- 920 EVALUATION OF HIV TRANSMISSION CLUSTERS AMONG NATIVES AND FOREIGNERS LIVING IN ITALY**
Maria M. Santoro, **Lavinia Fabeni**, Patrizia Lorenzini, Stefano Rusconi, Nicola Gianotti, Andrea Costantini, Loredana Sarmati, Andrea Antinori, Francesca Ceccherini Silberstein, Antonella D'Arminio Monforte, Annalisa Saracino, Enrico Girardi, for the Icona Foundation Study Cohort
- 921 MOLECULAR ANALYSIS SUGGESTS POST-MIGRATION HIV-1 ACQUISITION AMONG MIGRANTS IN PARIS**
Evangelia G. Kostaki, Cathia Soulie, Benoit Visseaux, Alexandre Storto, Charlotte Charpentier, Marc Wirten, Roland Landman, Christine Katlama, Vincent Calvez, Diane Descamps, Federico García, Maria M. Santoro, Dimitrios Paraskevis, Anne-Geneviève Marcelin
- 922 GEOGRAPHIC PATTERNS IN HIV TRANSMISSION CLUSTERS IN LOS ANGELES COUNTY**
Britt Skaathun, Manon Ragonnet-Cronin, Kathleen Poortinga, Zhijuan Sheng, Yunyin W. Hu, Joel O. Wertheim
- 923 HUMAN MOBILITY PATTERNS GENERATE GEOGRAPHICALLY STRUCTURED SUB-EPIDEMICS IN NAMIBIA**
Eugenio Valdano, Justin Okano, Vittoria Colizza, Sally Blower
- 924 LOCAL AND REGIONAL DYNAMICS OF HIV EPIDEMICS AMONG HIGH-RISK POPULATIONS IN HAITI**
Frantz Jean-Louis, Jean Wysler Domercant, Caroline Ignacio, Sara Gianella, Guethina Galbaud, Davey M. Smith, Antoine Chaillon

- 925 MAPPING AND CHARACTERISING HIV TRANSMISSION HOTSPOTS IN SUB-SAHARAN AFRICA**
Caroline Bulstra, Jan A. Hontelez, Federica Giardina, Richard Steen, Nico Nagelkerke, Till Bärnighausen, Sake de Vlas
- 926 GEOGRAPHIC CHARACTERISTICS OF HIV GENETIC CLUSTERS AMONG NEWLY DIAGNOSED CASES IN NC**
Andrew E. Cressman, Erika Samoff, Victoria L. Mobley, Simon Frost, Kimberly Enders, Shuntai Zhou, Ronald Swanstrom, Joseph J. Eron, William C. Miller, Myron S. Cohen, Ann M. Dennis

Poster P-Q11 MOLECULAR METHODS TO EVALUATE TRANSMISSION
Poster Hall D 2:30 PM - 4:00 PM

- 927 HIV TRACE VS PHYLOGENETIC ANALYSIS: UNRAVELING TRANSMISSION CLUSTERS IN SPAIN**
Carlos Guerrero Beltrán, Evangelia G. Kostaki, Luca Carioti, Marta Alvarez, Julian Olalla, María Carmen Vidal Ampurdanes, Marta Montero, Silvia García-Bujalance, Jose-Ramón Blanco, Maria Rivero, Lucio Jesus Garcia-Fraile Fraile, Maria M. Santoro, Dimitrios Paraskevis, **Federico García**
- 928 RECONSTRUCTION AND ESTIMATION OF DIRECTED HIV-1 TRANSMISSION USING DEEP SEQUENCES**
Nicholas Bbosa, Deogratius Ssemwanga, Alfred Ssekagiri, Yunia Mayanja, Ubaldo M. Bahemuka, Janet Seeley, Deenan Pillay, Christophe Fraser, Pontiano Kaleebu, Oliver Ratmann, for the PANGEA Consortium
- 929 CONCORDANCE OF METHODS IN IDENTIFYING MOLECULAR HIV CLUSTERS**
Vladimir Novitsky, Jon Steingrimsson, Mark Howison, Fizza S. Gillani, Yuanning Li, Akarsh Manne, Matthew C. Spence, Theodore Marak, Philip A. Chan, Thomas Bertrand, Utpala Bandy, Nicole Alexander-Scott, Casey Dunn, Joseph Hogan, Rami Kantor
- 930 USE OF PHYLOGENETIC ANALYSIS TO INFER THE DIRECTION OF HIV TRANSMISSION**
Yinfeng Zhang, Chris Wymant, Oliver Laeyendecker, Kate Grabowski, Matthew D. Hall, Sarah E. Hudelson, Estelle Piwowar-Manning, Marybeth McCauley, Johnstone Kumwenda, Mina C. Hosseinipour, Ying Qing Chen, Myron S. Cohen, Christophe Fraser, Susan H. Eshleman, for the HPTN 052 Study Team
- 931 NEAR REAL-TIME IDENTIFICATION OF RECENT HIV INFECTION BY PID-NGS IN NORTH CAROLINA**
Shuntai Zhou, Sabrina Clark, Matthew Moeser, Scott J. Zimmerman, Erika Samoff, Victoria L. Mobley, Andrew E. Cressman, Simon Frost, Joseph J. Eron, Michael Clark, Corbin Jones, Myron S. Cohen, Julie A. Nelson, Ronald Swanstrom, Ann Dennis
- 932 IMPLICATIONS OF NEXT-GENERATION SEQUENCING FOR DRUG RESISTANCE AND CLUSTER DETECTION**
Randall V. Collura, Wendy Patterson, Carol-Ann Swain, Eva Pradhan, William M. Switzer, Alexandra M. Oster, Bridget J. Anderson

Poster P-Q12 HIV GENETIC DIVERSITY**Poster Hall D****2:30 PM - 4:00 PM**

- 933 PERVERSIVE AND NONRANDOM RECOMBINATION IN NEAR FULL-LENGTH HIV GENOMES FROM UGANDA**
Heather E. Grant, Emma B. Hodcroft, Deogratius Ssemwanga, John Kitayimbwa, Paul Kellam, Tulio De Oliveira, Rebecca N. Nsubuga, Samantha Lycett, David L. Robertson, Oliver Ratmann, Christophe Fraser, Deenan Pillay, Pontiano Kaleebu, **Andrew Leigh Brown**, for the PANGA-HIV Consortium
- 934 JACKHAMMER RT-PCR RECOVERS DIVERSE ARCHIVAL VIRAL GENOMES FROM KINSHASA, 1983**
Sophie Gryseels, Thomas D. Watts, Thomas Quinn, Philippe Lemey, Henry Francis, Oliver Laeyendecker, Michael Worobey
- 935 A THIRD COMPLETE GENOME ESTABLISHES HIV-1 SUBTYPE L**
Julie Yamaguchi, Ana Vallari, Carole McArthur, Larry Sthreshley, Gavin Cloherty, Michael Berg, Mary A. Rodgers
- 936 WHOLE-GENOME SEQUENCING SHOWS INCREASING HIV-1 SUBTYPE COMPLEXITY AMONG MSM IN THE UK**
Jean L. Mbisa, Juan Ledesma, David F. Bibby, Carmen M. Fernandez Manso, Peter Kirwan, Alison E. Brown, Hodan Mohamed, Yuen T. Chan, Gary Murphy, David Dunn, Caroline Sabin, Valerie Delpech, Kate El Bouzidi, Anna Maria Geretti, for the UK HIV Drug Resistance Database

Poster P-R05 HIV TEST PERFORMANCE**Poster Hall D****2:30 PM - 4:00 PM**

- 965 THE RATIONALE FOR A 3-TEST HIV DIAGNOSTIC ALGORITHM: BALANCING ACCURACY AND COST**
Jeffrey Eaton, Anita Sands, Magdalena Barr-Dichiara, Muhammad S. Jamil, Thokozani Kalua, Andreas Jahn, Rachel Baggaley, Cheryl Johnson
- 966 FALSE-POSITIVE 4TH GENERATION HIV TEST RESULTS IN THE EMERGENCY DEPARTMENT**
Gabriel A. Wagner, Ryan Anson, Nicole Gamache-Kocol, Kushagra Mathur, Megan Lo, Jeffrey H. Burack, Annette Shaieb, Jill Blumenthal, Susan J. Little, Martin Hoenigl
- 967 EVALUATION OF VIRAL SUPPRESSION ON RAPID HIV TEST REACTIVITY AMONG MSM, NHBS, 2017**
Shamaya Whitby, Amanda Smith, Johanna Chapin-Bardales, Rebecca Rossetti, Cyprian Wejnert, Silvina Masciotra, for the for the NHBS Study Group
- 968 PERFORMANCE OF ORAQUICK RAPID TEST ON HIV DIAGNOSIS AMONG CADAVERS IN KISUMU, KENYA**
Frankline O. Mboya, Anthony Waruru, Alex Sila, Dickens Onyango, Solomon Sava, Lily Nyaga, Mary Mwangome, Nyakeriga Nyakeriga, Muthoni Junghae, Paul K. Musingila, Frank L. Basiye, Kimberly McCarthy, Boaz Oyaro, Peter W. Young
- 969 DRIED BLOOD SPOTS PROVIDE SIMPLIFIED ACCURATE MEASUREMENT OF HIV VIRAL LOAD**
Torin Schaafsma, Katherine Thomas, Heidi Van Rooyen, Maryam Shahmanesh, Jared Baeten, Connie L. Celum, Ruanne V. Barnabas, for the DO ART Study Team

- 970 AUTOMATED HIGH-THROUGHPUT QUANTIFICATION OF LOW-LEVEL HIV-1 PLASMA VIREMIA**
Jana L. Jacobs, Melissa A. Tosiano, Dianna L. Koontz, Andrew Worlock, Karen Harrington, Sonia Bakkour, Michael P. Busch, John W. Mellors
- 971 HEAT-INACTIVATED/LYOPHILIZED HIV VIRUS FOR USE IN PROFICIENCY TESTING PROGRAMS**
Raul Louzao, Thomas M. Denny, Heidi M. Register, Wes Rountree, Ambrosia Garcia, Cassandra Porth, Andrea Pappas, Clare Morris, Sarah Gilbert, Bhavna M. Hora, Feng Gao

Poster P-R06 DIAGNOSING EARLY HIV INFECTION

Poster Hall D

2:30 PM - 4:00 PM

- 972 IDENTIFYING RECENT HIV INFECTIONS IN REAL-WORLD SETTINGS IN KENYA AND ZIMBABWE**
Brian Rice, **Mariken M. De Wit**, Kathryn A. Risher, Susie Welty, Sungai T. Chabata, Frances Cowan, Georges Reniers, Gary Murphy, Jeffrey Eaton, George Rutherford, James R. Hargreaves
- 973 STAGING OF HIV-1C INFECTION AMONG PATIENTS ON ART IN BOTSWANA USING PROVIRAL DNA**
Manon Ragonnet-Cronin, Tanya Golubchik, Sikhulile Moyo, Christophe Fraser, Max Essex, Vlad Novitsky, Erik Volz, for the PANGAEA Consortium
- 974 NOVEL CRITERIA FOR DIAGNOSING ACUTE HIV IN A MULTINATIONAL ART-INITIATION STUDY**
Trevor A. Crowell, Justin Ritz, Robert Coombs, Lu Zheng, Joseph J. Eron, John W. Mellors, Gert U. van Zyl, Javier R. Lama, Kiat Ruxrungtham, Beatriz Grinsztejn, Roberto Arduino, Lawrence Fox, Jintanat Ananworanich, Eric Daar, for the AIDS Clinical Trials Group (ACTG) A5354 Study Team
- 975 IMPROVING CLASSIFICATION FOR RECENT HIV INFECTION USING TOP SCORING PAIRS**
Athena Chen, Oliver Laeyendecker, Charles S. Morrison, Susan H. Eshleman, Ingo Ruczinski
- 976 EVALUATION OF CROSS-SECTIONAL HIV INCIDENCE TESTING IN THE HPTN 071 (POPART) TRIAL**
Ethan B. Klock, Oliver Laeyendecker, Reinaldo Fernandez, Ethan A. Wilson, Estelle Piwowar-Manning, Sam Griffith, B Kosloff, Anneen Van Deventer, Sarah Fidler, Helen Ayles, Peter Bock, Deborah J. Donnell, Richard J. Hayes, Susan H. Eshleman, for the HPTN 071 (PopART) Study Team

Poster P-S09 PREVENTION IN IDU AND LINKAGE WITH HEPATITIS VACCINATION

Poster Hall D

2:30 PM - 4:00 PM

- 1023 HIV PREVENTION AND DRUG-USER HEALTH CARE ON SITE AT A SYRINGE -EXCHANGE PROGRAM**
Andrea L. Jakubowski, Irene L. Soloway, Mercedes L. Guzman, Christine Fitzsimmons, Leonardo Dominguez-Gomez, Franklin Ramirez, Brackets Kaplan, Brent Gibson, Joseph DeLuca, Julia H. Arnsten, **Brianna L. Norton**
- 1024 HIGH PREVALENCE OF PrEP INDICATION IN PEOPLE WHO INJECT DRUGS IN BOSTON, MA, 2018**
Joel J. Earlywine, Katie Biello, **Angela R. Bazzi**

1025 PROPHYLACTIC EFFECT OF PrEP AGAINST HBV INFECTION AMONG MSM

Daisuke Mizushima, Misao Takano, Haruka Uemura, Yasuyuki Yanagawa, Takahiro Aoki, Koji Watanabe, Hiroyuki Gatanaga, Shinichi Oka

1026 HAV AND HBV VACCINATION COVERAGE AND ACCEPTABILITY AMONG MSM ON PrEP

Paul Le Turnier, Isabelle Charreau, Audrey Gabassi, Diane Carette, Laurent Cotte, Gilles Pialoux, Cécile Tremblay, Bruno Spire, Marie-Laure Chaix Baudier, Laurence Meyer, Catherine Capitant, Constance Delaugerre, Jean-Michel Molina, François Raffi, for the ANRS IPERGAY Study Group

Poster P-S10 BIOLOGICAL MEASURES OF PrEP

Poster Hall D

2:30 PM - 4:00 PM

1027 HIGH PrEP ADHERENCE BASED ON TFV-DP LEVELS IN THAI 15-19-YEAR-OLD MSM AND TRANSWOMEN

Wipaporn Natalie Songtaweasin, Thanyawee Puthanakit, Surinda Kawichai, Tim R. Cressey, Prissana Wongharn, Tuangtip Theerawit, Somsong Teeratakulpisarn, Danai Linjongrut, Surang Janyam, Nittaya Phanuphak

1028 DRUG LEVELS, ADHERENCE, AND RISKS FOR LOW ADHERENCE IN THE DISCOVER PrEP STUDY

Susanne Doblecki-Lewis, Olamide Dosekun, Moti Ramgopal, Jay Gladstein, Mezgebe Berhe, Kevin Nguyen, Jason Hindman, Yongwu Shao, Ramin Ebrahimi, Diana Brainard, Moupali Das, Scott McCallister, Adriano Lazzarin, Gerold F. Lang, Peter L. Anderson

1029 COMPARISON OF TFV-DP AND WISEPILL ADHERENCE AMONG YOUNG KENYAN WOMEN USING PrEP

Maria Pyra, Elizabeth A. Bukusi, Nelly R. Mugo, Kenneth Ngure, Kevin Oware, Catherine Kiptinness, Katherine Thomas, Lindsey Garrison, Peter L. Anderson, Jared Baeten, Jessica E. Haberer

1030 HIV RISK AND OBJECTIVELY MEASURED PrEP ADHERENCE IN YOUNG KENYAN WOMEN

Jessica E. Haberer, Nelly R. Mugo, Elizabeth A. Bukusi, Kenneth Ngure, Kevin Oware, Catherine Kiptinness, Maria Pyra, Katherine Thomas, Lindsey Garrison, Jared Baeten

1031 USING A MOBILE APP AND DRIED BLOT SPOTS TO ASSESS ADHERENCE TO EVENT-DRIVEN PrEP

Vita Jongen, Elske Hoornenborg, Mark A. Van Den Elshout, Liza N. Coyer, Udi Davidovich, Henry J. De Vries, Maria Prins, Maarten F. Schim Van Der Loeff, for the Amsterdam PrEP Project team in the HIV Transmission Elimination Amsterdam (H-TEAM) Initiative

1032 USE OF A TENOFOVIR URINE TEST TO IMPROVE PrEP ADHERENCE

Shane Hebel, Elijah Kahn-Woods, Landon Larabee, Bibiana Osorio, Kenneth H. Mayer, Patrick S. Sullivan, K. Rivet Amico, **Giffin Daughtridge**

Poster P-S11 PrEP IN CISGENDER WOMEN

Poster Hall D

2:30 PM - 4:00 PM

1033 DETERMINANTS OF HIV PREEXPOSURE PROPHYLAXIS INITIATION IN WOMEN AT HIGH RISK FOR HIV

Rachel K. Scott, Shawnika Hull, Jim C. Huang, Adam Visconti, Megan Coleman, Peggy Ye, Pam Lotke, Dhiksha Balaji, Jason Beverley, Alison Ward, Jennifer Holiday, Richard A. Elion

1034 PRENATAL PrEP EXPOSURE AND LONGITUDINAL BIRTH OUTCOMES IN KENYA

Julia C. Dettinger, **John Kinuthia**, Laurén Gómez, Jillian Pintye, Joshua Stern, Nancy M. Ngumbau, Ben O. Odhiambo, Mary M. Marwa, Salphine A. Wattoyi, Felix Abuna, Jared Baeten, Grace John-Stewart

1035 WOMEN ARE LESS LIKELY TO BE TESTED FOR HIV OR OFFERED PrEP AT TIME OF STI DIAGNOSIS

Caitlin S. Yumori, Jason Zucker, Deborah Theodore, Michelle Chang, Caroline Carnevale, Jacek Slowikowski, Elijah LaSota, Susan Olender, Peter Gordon, Alwyn Cohall, Magdalena Sobieszczyk

1036 RESULTS FROM A PrEP DEMONSTRATION PROJECT FOR AT-RISK CISGENDER WOMEN IN THE US

Jill Blumenthal, Sonia Jain, Feng He, Ryan M. Kofron, Eric Ellorin, Jamila Stockman, Gifty Ntim, Peter L. Anderson, Katya Calvo, Richard Haubrich, K. Rivet Amico, David J. Moore, Sheldon Morris, Raphael J. Landovitz

Poster P-T04 MAKING SENSE OF IT ALL: HIV SUSCEPTIBILITY IN THE FEMALE GENITAL TRACT

Poster Hall D

2:30 PM - 4:00 PM

1060 CONTRACEPTIVE USE INDUCES DURABLE SHIFTS IN THE FEMALE GENITAL-TRACT MICROBIOTA

Bryan P. Brown, Maricianah Onono, Gonasangrie Nair, Thesla Palanee-Phillips, Caitlin W. Scoville, Rubina Bunjun, Tanko F. Ramla, Kate Heller, Jared Baeten, Steven E. Bosinger, Adam Burgener, Jo-Ann Passmore, Renee Heffron, Heather Jaspan

1061 GENITAL SECRETIONS FROM WOMEN WITH BACTERIAL VAGINOSIS ENHANCE HIV INFECTION EX VIVO

Marla J. Keller, Richard Hunte, Rebecca Barnett, Joyce Serebrenik, Jessica McWalters, April Dobkin, Jessica Goymier, Laurie Ray, Lilia Espinoza, Jessica M. Atrio, Kerry Murphy, Betsy Herold

1062 DMPA-IM DRIVES CERVICAL TH17 HIV TARGET-CELL ACCUMULATION IN WOMEN IN ECHO TRIAL

Rubina Bunjun, Tanko F. Ramla, Shameem Jaumdally, Hoyam Gamieldeen, Rushil Harryparsad, Smritee Dabee, Gonasangrie Nair, Thesla Palanee-Phillips, Maricianah A. Onono, Caitlin W. Scoville, Kate Heller, Jared Baeten, Heather Jaspan, Renee Heffron, Jo-Ann Passmore

1063 INCREASED GENITAL INFLAMMATION IN WOMEN RANDOMIZED TO COPPER IUD IN THE ECHO TRIAL

Tanko F. Ramla, Rubina Bunjun, Shameem Jaumdally, Smritee Dabee, Anna-Ursula Happel, Hoyam Gamieldeen, Rushil Harryparsad, Marisiana A. Onono, Gonasangrie Nair, Thesla Palanee-Phillips, Caitlin W. Scoville, Jared Baeten, Renee Heffron, Heather Jaspan, Jo-Ann Passmore

1064 ELEVATED GENITAL CYTOKINES IN HIV-INFECTED WOMEN USING COPPER AND LEVONORGESTREL IUDs

Jo-Ann Passmore, Musalula Sinkala, Nai-Chung Hu, Shameem Jaumdally, Hoyam Gamieldeen, Smritee Dabee, Heidi Jones, Donald R. Hoover, Nontokozi Langwenya, Landon Myer, Catherine S. Todd

1065 MOLECULAR PERTURBATIONS INDUCED BY DMPA, COPPER IUD, AND LNG IMPLANT IN ECHO TRIAL

Prachi M. Gupta, Sydney A. Nelson, Gregory K. Tharp, Maricianah A. Onono, Gonasangrie Nair, Thesla Palanee-Phillips, Hossaena Ayele, Laura Noël-Romas, Kelly Arnold, Jared Baeten, Jo-Ann Passmore, Adam Burgener, Heather Jaspan, Renee Heffron, Steven E. Bosinger

1066 COPPER IUD AND LEVONORGESTREL IMPLANT INCREASE GENITAL INFLAMMATION IN THE ECHO TRIAL

Jennifer Deese, Nina Radzey, Bahiah Meyer, Pai-Lien Chen, Sophie Gao, Charles S. Morrison, Celia Mehrou-Loko, Florence L. D'Hellencourt, Gregory Buck, Jennifer Smit, Jerome Strauss, Kavita Nanda, Khatija Ahmed, Rushil Harryparsad, Lindi Masson

1067 DOUCHING IS ASSOCIATED WITH RECTAL INFLAMMATION IN HIV-NEGATIVE SEXUAL MINORITY MEN

Angela M. McGaugh, Charlene Miller, Justice King, Kathryn McManus, Maria L. Alcaide, Jose Bauermeister, Christian Grov, Jennifer A. Manuzak, Courtney Broedlow, Robert Parisi, Darling Martinez, Nichole Klatt, Adam W. Carrico

1068 SEXUAL VIOLENCE EXPOSURE DYSREGULATES HIV-ASSOCIATED IMMUNE BIOMARKERS IN WOMEN

Annette Aldous, Jason Daniels, Christopher Joy, Mariel Jais, Kaleigh Connors, Hani Mohamed, Brendan Capozzi, Sam Simmens, Manya Magnus, Afsoon Roberts, Gary Simon, Mimi Ghosh

Poster P-U09 LINKAGE TO CARE

Poster Hall D

2:30 PM - 4:00 PM

1121 POOR LINKAGE TO CARE AMONG HIV+ PERSONS IN EMERGENCY DEPARTMENTS IN SOUTH AFRICA

Bhakti Hansoti, Aditi Rao, Elizabeth Hahn, Sofia Ryan, Nomzamo Mvandaba, Yandisa Nyanisa, Victoria Chen, Pamela Mda, Roshen Maharaj, David Stead, John Black, Steven J. Reynolds, Jean B. Nachega, Thomas Quinn, for the WISE Study Group

1122 LINKAGE TO CARE AND VIRAL SUPPRESSION FASTER OVER TIME AMONG NEW HIV DIAGNOSES IN DC

Rupali K. Doshi, Jenevieve Opoku, Adam Allston

1123 TRENDS IN LINKAGE INTO CARE AFTER "TEST AND START" AMONG ADOLESCENTS AND YOUNG ADULTS

Darix S. Kigozi, Philip Kreniske, Ivy Chen, Fred Nalugoda, Susie Hoffman, Godfrey Kigozi, Gertrude Nakigozi, Robert Ssekubugu, Edward Kankaka, Ronald H. Gray, Maria Wawer, Larry W. Chang, Steven J. Reynolds, Tom Lutalo, Joseph Kagaayi

1124 ENGAGEMENT IN CARE AND VIRAL SUPPRESSION AMONG NEWLY DIAGNOSED HIV-INFECTED PERSONS

Amsalu B. Ayana

1125 FREQUENT DETECTION OF UNDIAGNOSED HIV WITHIN EMERGENCY DEPARTMENTS IN BOTSWANA

Jillian Pintye, Katrina F. Ortblad, Shreshth Mawandia, Odirile Bakae, Lenna Tau, Matias Grande, Goabaone Mogomotsi, Esther Mmatli, Modise Ngombo, Laura Seckel, Renee Heffron, Jenny Ledikwe

Poster P-U10 PREVENTION STRATEGIES

Poster Hall D

2:30 PM - 4:00 PM

1126 COMBINATION HIV PREVENTION STRATEGIES TO MEET THE 2030 ENDING THE HIV EPIDEMIC GOALS

Samuel Jenness, Jordan Johnson, Karen W. Hoover, Dawn K. Smith, Kevin P. Delaney

- 1127 **COMMUNITY HIV-PREVENTION SERVICES IMPROVE THE HIV TREATMENT CASCADE IN 5 COUNTRIES**
Mansoor S. Farahani, Andrea Low, Karampreet K. Sachatp, Neena M. Philip, Wolfgang Hladik, Andrew Voetsch, Godfrey Musuka, Andrew F. Auld, Shirish Balachandra, Jackson Okuku, Amee M. Schwitters, Bharat S. Parekh, Hetal Patel, David Hoos, Jessica E. Justman
- 1128 **OPTIMIZING HIV PREVENTION EFFORTS WITHOUT NEW INVESTMENT CAN REDUCE INCIDENCE**
Evin Jacobson, Katherine A. Hicks, Justin Carrico, Stephanie L. Sansom
- 1129 **IMPACT OF COMBINATION HIV PREVENTION IN ZIMBABWE: A MULTIDISTRICT TRANSMISSION MODEL**
Jan A. Hontelez, Isaac Taramusi, Gerald Shambira, Roel Bakker, Caroline Bulstra, Frances Cowan, Godfrey Matsinde, Suzette M. Matthijsse, Cai M. Rui, Richard Steen, Mutsa Mhangara, Amon Mpofo, Sake de Vlas
- 1130 **IMPLEMENTATION OF U=U IN REAL LIFE IN ITALY: RESULTS FROM THE ICONA COHORT**
Giordano Madeddu, Andrea De Vito, Alessandro Cozzi-Lepri, Antonella Cingolani, Franco Maggiolo, Carlo Federico Perno, Roberta Gagliardini, Giulia Marchetti, Annalisa Saracino, Antonella D'Arminio Monforte, Andrea Antinori, Enrico Girardi, for the ICONA Foundation Study Group
- 1131 **IMPACT OF PrEP AND TasP ON INCIDENCE OF HIV DIAGNOSES IN 48 HIGHEST-BURDEN US AREAS**
Robertino Mera Giler, Staci Bush, Trevor Hawkins, Moupali Das, Julius Asubonteng, Scott McCallister
- 1132 **IMPACT OF FOOD INSECURITY ON THE HIV EPIDEMIC IN SUB-SAHARAN AFRICA (2015–2017)**
Andrea Low, Elizabeth Gummerson, Amee M. Schwitters, Rogerio Bonifacio, Nicholas Mutenda, Karampreet K. Sachatp, Choice Ginindza, Avi Hakim, Danielle T. Barradas, James Juma, Samuel Biraro, Keisha Jackson, Neena M. Philip, Steven Hong, Sally Findley
- 1133 **GEOGRAPHIC ESTIMATE OF SEXUAL HIV TRANSMISSION BURDEN IN ERA OF U=U: DC COHORT DATA**
Hana Akselrod, Morgan Byrne, Anne K. Monroe, Matthew E. Levy, Rachel Denyer, Adam Klein, Michael A. Horberg, Amanda D. Castel, Rupali K. Doshi, Alessandra Secco, Jose Lucar, Leah Squires, Stefanie Schroeter, Debra A. Benator, for the DC Cohort Executive Committee

Poster P-U11 LATE PRESENTATION TO HIV CARE
Poster Hall D

2:30 PM - 4:00 PM

- 1134 **LATE PRESENTATION PERSISTS UNDER UTT IN SOUTH AFRICA: A NATIONAL COHORT STUDY**
Jacob Bor, Matthew P. Fox, Cornelius Nattey, Brendan Maughan-Brown, Mhairi Maskew, Dorina Onoya, Alana T. Brennan, Till Bärnighausen, H Manisha Yapa, Sergio Carmona, Wendy Stevens, Adrian J. Puren, William B. MacLeod
- 1135 **CD4 COUNT AT ART INITIATION IN THE UTT ERA: AN INTERRUPTED TIME SERIES ANALYSIS**
H. Manisha Yapa, Hae-Young Kim, Kathy Petoumenos, Frank Post, Awachana Jiamsakul, Jan-Walter De Neve, Frank Tanser, Collins C. Iwuji, Kathy Baisley, Maryam Shahmanesh, Deenan Pillay, Mark J. Siedner, Till Bärnighausen, Jacob Bor

1136 USING SOCIAL NETWORKS TO REACH INDIVIDUALS WITH LOW CD4 AT HIGH RISK OF DEATH

Lillian Brown, Yiqun Chen, Laura B. Balzer, Gabriel Chamie, James Ayieko, Dalsone Kwarisiima, Jane Kabami, Norton Sang, Edwin D. Charlebois, James Peng, Yusuf Mwinike, Elizabeth A. Bukusi, Moses R. Kamya, Diane V. Havlir, Maya L. Petersen

Poster P-U12 HIV CASE FINDING
Poster Hall D

2:30 PM - 4:00 PM

1137 IMPROVING HIV CASE-FINDING WITH MACHINE LEARNING

Pavlo Smyrnov, Yulia Sereda, Artem Lytvyn, Olga Denisiuk

1138 HIV SCREENING IN EMERGENCY DEPARTMENTS: LINKAGE WORKS, BUT WHAT ABOUT RETENTION?

Kushagra Mathur, Jill Blumenthal, Gabriel A. Wagner, Lucy Horton, Miriam Zuazo, George Lara-Paez, Megan Lo, Gary M. Vilke, Christopher J. Coyne, Susan J. Little, Martin Hoenigl

1139 EXPERIENCE FROM THE LARGEST WESTERN US EMERGENCY DEPARTMENT ON ENDING THE EPIDEMIC

Kathleen Jacobson, Sanjay Aroraa, Chun Nok Lam, Mikheala Go, Mike Menchine

Poster P-U13 SUBSTANCE USE AND HIV PREVENTION AND TREATMENT
Poster Hall D

2:30 PM - 4:00 PM

1140 WITHDRAWN

1141 HRSA'S RYAN WHITE HIV/AIDS PROGRAM RESPONSE TO THE OPIOID EPIDEMIC

Nicole S. Chavis, Pamela W. Klein, Stacy Cohen, **Letha Healey**, Antigone Dempsey, Heather Hauck, Laura W. Cheever

1142 SEARCH TEST & TREAT INTERVENTION IMPROVES VIRAL SUPPRESSION AMONG HAZARDOUS DRINKERS

Sarah B. Puryear, Dalsone Kwarisiima, James Ayieko, Judith A. Hahn, Atukunda Mucunguzi, Sabina Ogachi, Laura B. Balzer, Vivek Jain, Edwin D. Charlebois, Craig R. Cohen, Elizabeth A. Bukusi, Maya L. Petersen, Diane V. Havlir, Moses R. Kamya, Gabriel Chamie

1143 END OF HIV EPIDEMIC AMONG PWID IN A LOW-MIDDLE INCOME COUNTRY: THE HAI PHONG CASE

Nicolas Nagot, Khuat T. Oanh, Duong T. Huong, Delphine Rapoud, Hoang T. Giang, Catherine Quillet, Pham M. Khue, Laurent Michel, Roselyne Vallo, Jonathan Feelemyer, Vu H. Vinh, Didier Laureillard, Philippe Van De Perre, Jean-Pierre Molès, Don Des Jarlais

1144 ENDING THE HIV EPIDEMIC AMONG PEOPLE WHO INJECT DRUGS: A COST-EFFECTIVENESS ANALYSIS

Emanuel Krebs, Xiao Zang, Benjamin Enns, Jeong E. Min, Bohdan Nosyk, for the Localized Economic Modeling Study Group

Javier Cepeda, Annick Borquez, Christopher Magana, Anh T. Vo, Claudia Rafful, Maria Gudeia Rangel-Gomez, Maria Elena Medina-Mora, Steffanie A. Strathdee, Natasha Martin

Javier Cepeda, Annick Borquez, Christopher Magana, Anh T. Vo, Claudia Rafful, Maria Gudeia Rangel-Gomez, Maria Elena Medina-Mora, Steffanie A. Strathdee, Natasha Martin

Deborah S. Hasin, Efrat Aharonovich, Barry S. Zingman, Malka Schlesinger, Claire Walsh

Deborah S. Hasin, Efrat Aharonovich, Barry S. Zingman, Malka Schlesinger, Claire Walsh

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POSTER SESSIONS BY CATEGORY

All poster sessions will be held from 2:30 PM to 4:00 PM on the scheduled day and poster hall (listed in parenthesis below). Posters should be displayed for the duration of the conference. Poster categories are designated by color in the poster hall as follows: Purple for Basic Science, Red for Clinical, and Blue for Epidemiology/Public Health.

A. VIROLOGY

- P-A01 SHARPENING THE CUTTING EDGE (Monday in Poster Hall A)
- P-A02 HOST FACTORS AFFECTING HIV REPLICATION (Tuesday in Poster Hall A)
- P-A03 VIRUS-CELL INTERACTION AND GENETICS (Wednesday in Poster Hall A)

B. PATHOGENESIS: HUMAN STUDIES AND ANIMAL MODELS

- P-B01 WHERE IS HIV GOING AND WHAT IS IT DOING (Monday in Poster Hall A)
- P-B02 HIV, SIV, AND IMMUNE REGULATION (Monday in Poster Hall A)
- P-B03 MICROBIOMIC AND METABOLIC MANIFESTATIONS OF HIV INFECTION (Monday in Poster Hall A)
- P-B04 FACTORS AFFECTING HIV TRANSMISSION (Tuesday in Poster Hall A)
- P-B05 HIV SUPPRESSION AND IMMUNE ACTIVATION (Tuesday in Poster Hall A)
- P-B06 HIV AND THE MICROBIOME (Tuesday in Poster Hall A)
- P-B07 BARRIERS TO TRANSLOCATION (Wednesday in Poster Hall A)
- P-B08 NON-AIDS CONSEQUENCES OF HIV INFECTION (Wednesday in Poster Hall A)
- P-B09 GUT PATHOGENESIS (Wednesday in Poster Hall A)

C. HIV-ASSOCIATED TUMOR VIRUSES

- P-C01 TUMOR VIRUSES: HPV, EBV, AND KSHV (Tuesday in Poster Hall A)

D. HOST IMMUNE RESPONSES TO INFECTION, VACCINES, AND IMMUNOTHERAPY

- P-D01 IMMUNOLOGY OF ACUTE HIV INFECTION (Monday in Poster Hall A)
- P-D02 ANTIBODY RESPONSES TO HIV (Monday in Poster Hall A)
- P-D03 CD8 T CELL RESPONSES (Monday in Poster Hall A)
- P-D04 IMMUNOLOGY AND HOST GENETICS (Tuesday in Poster Hall A)
- P-D05 IMMUNOTHERAPY FOR HIV INFECTION (Tuesday in Poster Hall A)
- P-D06 THE ROAD TO A BETTER VACCINE: CLINICAL TRIALS AND COHORT STUDIES (Wednesday in Poster Hall A)
- P-D07 PRECLINICAL VACCINE STUDIES (Wednesday in Poster Hall A)
- P-D08 IMPACT OF ANTIRETROVIRALS ON THE IMMUNE RESPONSE (Wednesday in Poster Hall A)

E. HIV RESERVOIRS, LATENCY, AND ALL CURATIVE

- P-E01 MECHANISMS OF HIV LATENCY (Monday in Poster Hall A)
- P-E02 MEASURING THE HIV RESERVOIR (Monday in Poster Hall A)
- P-E03 HIV PERSISTENCE IN TISSUES AND CELLS (Monday in Poster Hall A)
- P-E04 INSIGHTS FROM ANALYTICAL TREATMENT INTERRUPTION (Monday in Poster Hall A)
- P-E05 ESTABLISHMENT OF THE HIV RESERVOIR (Tuesday in Poster Hall A)
- P-E06 CURE STRATEGIES: HUMANS AND ANIMAL STUDIES (Tuesday in Poster Hall A)
- P-E07 HIV CURATIVE STRATEGIES: IN VITRO STUDIES (Tuesday in Poster Hall A)
- P-E08 ATTACK OF THE CLONES: CLONAL EXPANSION IN THE HIV RESERVOIR (Wednesday in Poster Hall A)
- P-E09 CHARACTERIZING LATENT HIV RESERVOIRS (Wednesday in Poster Hall A)
- P-E10 IMMUNE PRESSURE ON THE HIV RESERVOIR (Wednesday in Poster Hall A)

F. NEUROPATHOGENESIS AND NEUROLOGIC COMPLICATIONS

- P-F01 NEUROIMAGING AND ASSOCIATED BIOMARKERS (Monday in Poster Hall A)
- P-F02 NEUROCOGNITION: BIOMARKERS, THERAPIES, AND OUTCOMES (Tuesday in Poster Hall A)
- P-F03 CNS RESERVOIRS, ESCAPE, AND IMMUNOLOGY (Tuesday in Poster Hall A)
- P-F04 ACUTE HIV INFECTION AND CNS RESPONSES (Wednesday in Poster Hall A)
- P-F05 ART RESPONSES, SWITCHES, AND TOXICITY RELEVANT TO THE CNS (Wednesday in Poster Hall A)

G. CLINICAL PHARMACOLOGY

- P-G01 NOVEL MEASURES OF DRUG ADHERENCE (Monday in Poster Hall A)
- P-G02 WHAT'S NEW IN DRUG INTERACTIONS (Monday in Poster Hall A)
- P-G03 PHARMACOKINETICS AND PHARMACODYNAMICS IN SPECIAL POPULATIONS AND BODY SITES (Tuesday in Poster Hall A)
- P-G04 THE LONG AND THE SHORT OF IT: WHAT IS NEXT FOR LONG ACTINGS (Wednesday in Poster Hall A)

H. ANTIRETROVIRAL THERAPY: PRE-CLINICAL DATA, RANDOMIZED TRIALS, EFFICACY AND EFFECTIVENESS STUDIES

- P-H01 ANTIRETROVIRAL THERAPY: OUTCOMES IN TREATMENT NAIVE-PATIENTS (Monday in Poster Hall A)
- P-H02 TO THREE OR NOT TO THREE, THAT IS THE QUESTION (Tuesday in Poster Hall A)
- P-H03 ADHERENCE ASSESSMENT AND OTHER ART STRATEGIES (Tuesday in Poster Hall A)
- P-H04 ANTIRETROVIRAL TREATMENT: NEW AGENTS, NEW TARGETS (Wednesday in Poster Hall A)

I. HIV DRUG RESISTANCE

- P-I01 PREVALENCE OF PRETREATMENT RESISTANCE (Monday in Poster Hall A)
- P-I02 DRIVERS OF VIROLOGIC FAILURE AND RESISTANCE EMERGENCE ON EARLY LINES OF THERAPY (Monday in Poster Hall A)
- P-I03 DRUG RESISTANCE IN EXPERIENCED AND POTENTIAL FOR SUCCESSFUL TREATMENT (Tuesday in Poster Hall A)
- P-I04 NOVEL MECHANISMS OF DRUG RESISTANCE AND RESISTANCE TO NEW AGENTS (Wednesday in Poster Hall A)
- P-I05 DRUG RESISTANCE IN SPECIAL POPULATIONS (Wednesday in Poster Hall A)

J. HEPATITIS VIRUSES AND LIVER COMPLICATIONS

- P-J01 HCV: HEPATIC STEATOSIS AND ITS COMPLICATIONS (Monday in Poster Hall B)
- P-J02 HCV: FIBROSIS, MORTALITY, AND OTHER LONG-TERM COMPLICATIONS (Monday in Poster Hall B)
- P-J03 RESISTANCE TO HCV DRUGS (Tuesday in Poster Hall B)
- P-J04 RESISTANCE TO PAYING FOR HCV DRUGS (Tuesday in Poster Hall B)
- P-J05 HCV THERAPEUTICS: GETTING REAL (Tuesday in Poster Hall B)
- P-J06 HCV AFTER THE SVR: GONE BUT NOT FORGOTTEN (Tuesday in Poster Hall B)
- P-J07 HCV EPIDEMIOLOGY: TESTING, TRANSMISSION, AND TRANSMISSION COCONSPIRATORS (Wednesday in Poster Hall B)
- P-J08 HBV: PATHOGENESIS, EPIDEMIOLOGY, PREVENTION, AND THERAPY (Wednesday in Poster Hall B)
- P-J09 HAV AND HEV (Wednesday in Poster Hall B)

K. AIDS-RELATED MALIGNANCIES

- P-K01 ANAL AND CERVICAL CANCER (Monday in Poster Hall B)
- P-K02 CANCERS: KAPOSÍ SARCOMA, LUNG, BREAST, AND HEMATOLOGIC (Tuesday in Poster Hall B)
- P-K03 CANCER TREATMENT AND RISK (Wednesday in Poster Hall B)

L. CARDIOVASCULAR COMPLICATIONS OF HIV INFECTION AND ANTIRETROVIRAL THERAPY

- P-L01 INFLAMMATORY BIOMARKERS AND CARDIOVASCULAR OUTCOMES (Monday in Poster Hall B)
- P-L02 HORMONES AND HEART DISEASE (Monday in Poster Hall B)
- P-L03 CLUSTERING OF PREDICTORS AND PREDICTION RULES FOR MI RISK (Tuesday in Poster Hall B)
- P-L04 STRUCTURAL ISSUES IN HEART DISEASE AND HIV (Tuesday in Poster Hall B)
- P-L05 CLINICAL AND SUBCLINICAL CARDIOVASCULAR OUTCOMES IN HIV (Wednesday in Poster Hall B)
- P-L06 RHYTHM OF THE BEAT: ARRHYTHMIA AND HIV (Wednesday in Poster Hall B)
- P-L07 INTERVENTIONS TO REDUCE CVD: BENCH TO BEDSIDE (Wednesday in Poster Hall B)

M. OTHER COMPLICATIONS OF HIV INFECTION AND ANTIRETROVIRAL THERAPY

- P-M01 FAT IN FOCUS (Tuesday in Poster Hall B)
- P-M02 ADIPOSE TISSUE AND OBESITY (Tuesday in Poster Hall B)
- P-M03 METABOLIC COMPLICATIONS (Monday in Poster Hall B)
- P-M04 RENAL DISEASE (Monday in Poster Hall B)
- P-M05 BONE DISEASE (Monday in Poster Hall B)
- P-M06 PULMONARY COMPLICATIONS (Wednesday in Poster Hall B)
- P-M07 MENTAL HEALTH COMPLICATIONS (Monday in Poster Hall B)
- P-M08 FUNCTIONAL STATUS AND FRAILTY (Wednesday in Poster Hall B)
- P-M09 MULTIMORBIDITY (Wednesday in Poster Hall B)
- P-M10 EPIGENETIC AND MITOCHONDRIAL TOXICITIES (Tuesday in Poster Hall B)

N. TUBERCULOSIS AND OTHER OPPORTUNISTIC INFECTIONS

- P-N01 INCIDENCE, PREVALENCE, AND RISK FACTORS FOR TB IN PEOPLE LIVING WITH HIV (Monday in Poster Hall B)
- P-N02 LATENT TB INFECTION: RISK FACTORS, TREATMENT, AND PREVENTION (Monday in Poster Hall B)
- P-N03 EARLY BACTERICIDAL ACTIVITY, PK/PD, AND DRUG INTERACTIONS IN TB TREATMENT (Tuesday in Poster Hall B)
- P-N04 TB: MORTALITY, OUTCOMES, AND END-ORGAN COMPLICATIONS (Tuesday in Poster Hall B)
- P-N05 CRYPTOCOCCAL DISEASE, TALAROMYCOSIS, CMV, AND OTHER OPPORTUNISTIC INFECTIONS (Wednesday in Poster Hall B)
- P-N06 NOVEL TB DIAGNOSTICS (Wednesday in Poster Hall B)

O. MATERNAL AND FETAL HIV

- P-001 VIREMIA AND ADHERENCE IN PREGNANCY AND POSTPARTUM (Monday in Poster Hall B)
- P-002 CHRONIC DISEASES AND MATERNAL HEALTH: PERSISTENT PROBLEMS FOR PREGNANT AND POSTPARTUM WOMEN (Monday in Poster Hall B)
- P-003 NEW PERSPECTIVES IN PMTCT (Tuesday in Poster Hall B)
- P-004 ENHANCING INFANT DIAGNOSIS AND PROPHYLAXIS (Tuesday in Poster Hall B)
- P-005 INTEGRASE STRAND TRANSFER INHIBITORS IN PREGNANCY (Tuesday in Poster Hall B)
- P-006 IMPLICATIONS OF IMMUNE ACTIVATION AND INFLAMMATION IN PREGNANCY AND BREASTFEEDING (Wednesday in Poster Hall B)

P. PEDIATRICS AND ADOLESCENTS

- P-P01 HEALTH OUTCOMES OF HIV-EXPOSED UNINFECTED CHILDREN (Wednesday in Poster Hall B)
- P-P02 EARLY ANTIRETROVIRAL TREATMENT FOR CHILDREN (Monday in Poster Hall B)
- P-P03 CHARACTERIZING THE HIV RESERVOIR IN INFANTS AND CHILDREN (Tuesday in Poster Hall B)
- P-P04 PEDIATRIC 90:90:90 (Monday in Poster Hall B)
- P-P05 COINFECTIONS, COMPLICATIONS, AND PATTERNS OF DISEASE IN CHILDREN AND YOUTH (Wednesday in Poster Hall B)
- P-P06 METABOLIC AND CARDIOVASCULAR COMPLICATIONS IN CHILDREN AND YOUTH (Tuesday in Poster Hall B)
- P-P07 MENTAL HEALTH AND BRAIN DEVELOPMENT IN CHILDREN (Monday in Poster Hall B)
- P-P08 NOVEL APPROACHES TO PEDIATRIC ANTIRETROVIRAL DOSING AND SAFETY (Tuesday in Poster Hall B)

Q. PIDEMIOLOGY

- P-Q01 HIV INCIDENCE (Monday in Poster Hall D)
- P-Q02 HIV IN KEY POPULATIONS (Monday in Poster Hall D)
- P-Q03 VIRAL LOAD AND OUTCOMES (Monday in Poster Hall D)
- P-Q04 LIFE EXPECTANCY AND MORTALITY (Monday in Poster Hall D)
- P-Q05 T CELL PATTERNS (Monday in Poster Hall D)
- P-Q06 HIV IN TRANSGENDER WOMEN AND MEN (Tuesday in Poster Hall D)
- P-Q07 SUBSTANCE USE AND HIV (Tuesday in Poster Hall D)
- P-Q08 MENTAL HEALTH AND HIV (Tuesday in Poster Hall D)
- P-Q09 METHODS IN EPIDEMIOLOGY (Tuesday in Poster Hall D)
- P-Q10 PHYLOGENETICS AND HIV TRANSMISSION (Wednesday in Poster Hall D)
- P-Q11 MOLECULAR METHODS TO EVALUATE TRANSMISSION (Wednesday in Poster Hall D)
- P-Q12 HIV GENETIC DIVERSITY (Wednesday in Poster Hall D)

R. TESTING

- P-R01 ASSISTED PARTNER NOTIFICATION (Monday in Poster Hall D)
- P-R02 HIV TESTING STRATEGIES (Monday in Poster Hall D)
- P-R03 POINT-OF-CARE TESTING (Tuesday in Poster Hall D)
- P-R04 HIV SELF-TESTING (Tuesday in Poster Hall D)
- P-R05 HIV TEST PERFORMANCE (Wednesday in Poster Hall D)
- P-R06 DIAGNOSING EARLY HIV INFECTION (Wednesday in Poster Hall D)

S. PREVENTION INTERVENTIONS

- P-S01 PrEP EFFECTIVENESS (Monday in Poster Hall D)
- P-S02 PrEP ELIGIBILITY UPDATE AND MODES OF DELIVERY (Monday in Poster Hall D)
- P-S03 THE PROBLEM OF PERSISTENCE IN PrEP (Monday in Poster Hall D)
- P-S04 NEW PREVENTION AGENTS AND ROUTES OF DELIVERY (Monday in Poster Hall D)
- P-S05 PrEP DRUG RESISTANCE AND RENAL IMPAIRMENT (Tuesday in Poster Hall D)
- P-S06 PrEP SCALE-UP: COST AND SYSTEM-BASED FACTORS (Tuesday in Poster Hall D)
- P-S07 FACTORS IMPACTING PREVENTION: INTIMATE PARTNER VIOLENCE, WHITE COAT EFFECT, SEX WORK, AND SOCIAL INFLUENCERS (Tuesday in Poster Hall D)
- P-S08 PrEP IN TRANSWOMEN (Tuesday in Poster Hall D)
- P-S09 PREVENTION IN IDU AND LINKAGE WITH HEPATITIS VACCINATION (Wednesday in Poster Hall D)
- P-S10 BIOLOGICAL MEASURES OF PrEP (Wednesday in Poster Hall D)
- P-S11 PrEP IN CISGENDER WOMEN (Wednesday in Poster Hall D)
- P-S12 MALE CIRCUMCISION AND THE PENILE MICROBIOME (Tuesday in Poster Hall D)

T. CONTRACEPTION, SEXUALLY TRANSMITTED INFECTIONS, AND REPRODUCTIVE HEALTH

- P-T01 SEXUALLY TRANSMITTED INFECTIONS IN SPECIAL POPULATIONS (Monday in Poster Hall D)
- P-T02 SEXUALLY TRANSMITTED INFECTIONS DIAGNOSIS AND PROGNOSIS (Tuesday in Poster Hall D)
- P-T03 ISSUES IN CONTRACEPTION (Tuesday in Poster Hall D)
- P-T04 MAKING SENSE OF IT ALL: HIV SUSCEPTIBILITY IN THE FEMALE GENITAL TRACT (Wednesday in Poster Hall D)

U. IMPLEMENTATION AND SCALE-UP OF TREATMENT AND CARE

- P-U01 RAPID ART INITIATION (Monday in Poster Hall D)
- P-U02 HIV TEST AND TREAT (Monday in Poster Hall D)
- P-U03 PROGRESS TOWARDS 90-90-90 AND BEYOND (Monday in Poster Hall D)
- P-U04 VIRAL SUPPRESSION, ADHERENCE, AND MORE (Monday in Poster Hall D)
- P-U05 MODELLING, COSTING, AND COST-EFFECTIVENESS (Monday in Poster Hall D)
- P-U06 HIV CARE CONTINUUM (Tuesday in Poster Hall D)
- P-U07 DIFFERENTIAL SERVICE DELIVERY (Tuesday in Poster Hall D)
- P-U08 COMMUNITY ART (Tuesday in Poster Hall D)
- P-U09 ANTIRETROVIRAL THERAPY DELIVERY (Tuesday in Poster Hall D)
- P-U09 LINKAGE TO CARE (Wednesday in Poster Hall D)
- P-U10 PREVENTION STRATEGIES (Wednesday in Poster Hall D)
- P-U11 LATE PRESENTATION TO HIV CARE (Wednesday in Poster Hall D)
- P-U12 HIV CASE FINDING (Wednesday in Poster Hall D)
- P-U13 SUBSTANCE USE AND HIV PREVENTION AND TREATMENT (Wednesday in Poster Hall D)

INDEX OF PRESENTING AUTHORS

The following index list presenting authors as of February 7, 2020. Changes to presenting authors after that date are not reflected. A complete list of all abstract authors can be found in the Abstract eBook on the CROI website.

-A-

Aaron, Kristal J 1041
 Abdelwahab, Mahmoud Tareq 733
 Abela, Irene 290
 Ablan, Sherimay 505
 Abuogi, Lisa Lynn 763
 Acosta, Rima Kulkarni 540
 Adeoye, Bukola 265
 Adeyemi, Adedayo Olubunmi 853
 Ahlgren, Erika 404
 Ahn, Seohyun 504
 Ajibola, Gbolahan 808
 Akiyama, Hisashi 422
 Akselrod, Hana 1133
 Akullian, Adam N 148
 Al-Khouja, Amer 999
 Aldous, Annette 1068
 Alejos, Belen 1104
 Allavena, Clotilde 490
 Althoff, Keri N 650
 Alvarez, Angeles 639
 Alvarez-Barco, Elena 436, 693
 Anderegg, Nanina 873
 Anderson, Albert 440
 Anderson, Kim 803
 Anderson, Peter L 980
 Andreatta, Kristen 509
 Andrieux-Meyer, Isabelle 164
 Antar, Annukka 365
 Antinori, Andrea 480
 Appelman, Brent 655
 Aronson, Naomi E 337
 Arpadi, Stephen M 821
 Arunachalam, Prabhu S 114
 Astorga Gamaza, Antonio 280
 Augustin, Max 233
 Auma, Ann W N 586
 Avelino-Silva, Vivian Iida 739
 Avila-Rios, Santiago 912
 Ayieko, James 1102
 Azzoni, Livio 276

-B-

Bailin, Samuel 671
 Baker, Jason V 84, 240, 277
 Balagopal, Ashwin 127
 Balcombe, Shannon 735
 Baldin, Gianmaria 492
 Bandera, Alessandra 626
 Baptiste, Solange 1080
 Barnabas, Ruanne V 49
 Barouch, Dan 78
 Barve, Shirish A 227
 Bassett, Ingrid Valerie 875
 Bathe, Mark 3
 Baum, Marianna K 553
 Bazzi, Angela Robertson 1024
 Bbosa, Nicholas 928
 Begley, Rebecca 470
 Bekerman, Elena 87
 Bengtson, Angela 769, 801
 Benito, José Miguel 589
 Benson, Eve-Marie A 541
 Berenguer, Juan 571, 572
 Bertolino, Daniel 1069
 Beyrer, Chris 1013
 Bhardwaj, Pooja 357
 Biasin, Mara 275
 Bibangambah, Prossy 657
 Bimber, Benjamin N 116
 Biradar, Shivkumar 202
 Bisson, Gregory P 738
 Blair, Cherie S 1014
 Blanch-Lombarte, Oscar 302
 Blumenthal, Jill 459, 1036
 Boettiger, David Charles 665
 Bogorodskaya, Milana 658
 Boily, Marie-Claude 861
 Boivin, Michael Joseph 412
 Bolton Moore, Carolyn 158
 Bomsel, Morgane 190
 Bonny, Tania Sultana 193
 Bor, Jacob 1075, 1134
 Borghetti, Alberto 257
 Boswell, Michael Terence 189
 Botha, Johannes Christiaan 373
 Boulware, David R 744
 Bourgi, Kassem 684
 Bowman, Emily 237, 238
 Brady, Kathleen Anne 46
 Brands, Catherine 68
 Brennan, Alana T 720
 Brenner, Bluma G 918
 Brew, Bruce J 428
 Bristow, Claire C 1054
 Brittain, Kirsty 834
 Brochado Kith, Óscar 300
 Brook, Gary 952
 Brooker, Sarah L 805
 Brooks, Kristina Marie 449, 576
 Brotherton, Amy L 498
 Brown, Bryan Paul 1060
 Brown, Lillian 1136
 Browne, Edward P 305
 Brumme, Chanson J 526
 Bulstra, Caroline 925
 Bunglawala, Fazila Sadik 839
 Bunjun, Rubina 1062
 Buranapraditkun, Supranee 298
 Burdick, Ryan C 23
 Burwitz, Benjamin J 611
 Busch, Michael P 476
 Butt, Adeel Ajwad 560, 600
 Byrne, Morgan 891

-C-

Cachay, Edward Rafael 570
 Calcagno, Andrea 442
 Callander, Denton James 48
 Camlin, Carol S 849
 Campbell, Jennifer 681
 Cannizzo, Elvira Stefania 588
 Cannon, Chase 1047
 Capparelli, Edmund V 465
 Card, Kiffer G 917
 Carrico, Adam W 703
 Casazza, Joseph P 41, 173
 Cascino, Katherine 612
 Cassidy, Tali 1118
 Castelnuovo, Barbara 1106
 Castilho, Jessica L 71
 Castillo-Mancilla, Jose R 520
 Castry, Mathieu 597
 Cepeda, Javier 122, 1145
 Cervo, Adriana 543, 544
 Cespedes, Michelle S 1020
 Chagomerana, Maganizo 1044
 Chahroudi, Ann 51
 Chaillon, Antoine 364, 906
 Chaisson, Lelia H 717
 Chalouni, Mathieu 578
 Chamie, Gabriel 141
 Chan, Phillip 432, 475
 Chandra, Christina 832
 Chang, Gregory C 1082
 Chang, Larry W 44
 Chapin-Bardales, Johanna 602, 991
 Chatterjee, Debashree 174, 185
 Chaturvedula, Ayyappa 458
 Chebrolu, Puja 774
 Chen, Athena 975
 Chen, Jun 421
 Chen, Yiqun 867
 Chen, Zhijian (James) 95
 Cherepanov, Peter 25
 Chéret, Antoine 454
 Chiao, Elizabeth 625
 Chibwesha, Carla J 133
 Chinbunchorn, Tanat 1010
 Chinula, Lameck 130
 Chitneni, Pooja 1045
 Chkhartishvili, Nikoloz 595
 Choi, Yoojin 214
 Chow, Dominic 638
 Chow, Felicia C 28
 Christ, Benedikt 1112
 Christ, Frauke 22
 Christensen, Devin E 24
 Christensen, Kasper Thorhauge 561
 Chung, Raymond T 105
 Churchyard, Gavin 143
 Claiborne, Daniel 350
 Clark, Jesse Lawton 1017
 Clayton, Kiera L 30
 Climent, Nuria 260

- Clipman, Steven J 913
 Cobb, Denise A 472, 610
 Coburn, Sally B 628
 Cocker, Alexander 199
 Coffin, John M 363
 Colby, Donn J 93, 601
 Coldiron, Matthew E 627
 Cole, Basiel 376
 Collins, Lauren F 711
 Collora, Jack A 361
 Collura, Randall V 932
 Cooley, Sarah A 395, 396
 Corey, Kathleen E 14
 Corley, Michael J 253
 Corma-Gómez, Anaïs 581, 582
 Cortado, Ruth 379
 Costagliola, Dominique 631
 Council, Olivia D 328
 Courlet, Perrine 447
 Cournil, Amandine 688
 Coutinho, Alex Godwin 16
 Cox, Stephanie Whitman 1002
 Cressey, Tim R 843
 Cressman, Andrew Ellis 926
 Crichton, Siobhan 824, 844
 Crowell, Trevor A 515, 974
 Cruz-Lebron, Angelica Iris 225
 Cu-Uvin, Susan 90
 Cuadra Foy, Ernesto 534
 Currenti, Jennifer 184
 Cyktor, Joshua Charles 31, 382
- D-**
- Daar, Eric 469
 Dahourou, Désiré Lucien 816
 Daughtridge, Giffin 1032
 Davey, Dvora 1042
 Davidović, Maša 629
 Davy-Mendez, Thibaut 708
 De Cock, Kevin M 18
 De Francesco, Davide 698
 De Jager, Veronique 732
 De Miguel, Rosa 485
 De Schacht, Caroline 957
 De Scheerder, Marie-Angélique DP 326
 De Waal, Renee 845
 De Wit, Mariken Mylene 854, 972
 Debroy, Paula 542
 Debyser, Zeger 26
 Deese, Jennifer 1066
 DeJesus, Edwin 507, 990
 Del Rio, Carlos 61
 Delaney, Kevin Payton 1096, 1126
 Delpech, Valerie 58
 Demeke, Hanna B 866, 888
 Deming, Meagan 603
 Denkinger, Claudia M 761
 Dennis, Ann M 908
 Dhokotera, Tafadzwa G 69
 Dhummakupt, Adit 814
 Di Maio, Velia Chiara 565
 Diaz, Jorge 697
 Digaetano, Margherita 634
 Dijkstra, Maartje 938
- Dillon, Stephanie 250
 Dimitrov, Dobromir 1095
 Dirajlal-Fargo, Sahera 830, 831
 Dobard, Charles 88
 Doblecki-Lewis, Susanne 984, 1028
 Dollfus, Catherine 788
 Dombrowski, Julia C 1083
 Dominguez Rodriguez, Sara 787
 Doshi, Rupali Kotwal 1122
 Dow, Dorothy E 836
 Drammeh, Bakary 941
 Drezner, Kate 989
 Duchon, Alice 168
 Duerr, Ann 914
 Dugdale, Caitlin 777
 Duncan, Meredith S 700
 Dunn, Keith J 441
 Durkin, Keith 375
- E-**
- Eaton, Jeffrey 965
 Ebrahim, Shahul Hameed 940
 Eckard, Allison Ross 239, 667, 674
 Edmonds, Andrew 568
 Egger, Matthias 736
 Ehrenkranz, Peter 1070
 Einkauf, Kevin 360
 El Kamari, Vanessa 636
 El-Far, Mohamed 647
 Ellis, Jayne 756
 Ellis, Ronald J 411
 Ellsworth, Grant B 497
 Eluwa, George 1113
 Elvstam, Olof 152
 Eniayewu, Oluwasegun Ibrahim 460
 Epaulard, Olivier 606
 Epstein, Rachel 567
 Erlandson, Kristine M 704, 705, 706
 Eron, Joseph J 499
 Esber, Allahna Lauren 712
 Esser, Stefan 623
 Esteban-Cantos, Andrés 714
 Etemad, Behzad 325
- F-**
- Fabeni, Lavinia 920
 Fajnzylber, Jesse 321
 Falcinelli, Shane 313
 Farahani, Mansoor Safaie 1127
 Farhadian, Shelli 27
 Farzan, Michael 53
 Feinstein, Matthew J 661
 Felber, Barbara K 297
 Fernández-Rodríguez, Amanda 585
 Ferrand, Rashida Abbas 66
 Fert, Augustine 351
 Fichorova, Raina 216
 Fichtenbaum, Carl J 716
 Fierer, Daniel S 594
 Fisher, Katie 315
 Fletcher, Courtney V 455
 Fogel, Jessica M 538
- Fojo, Anthony Todd 1092
 Folkvord, Joy Marie 191
 Ford, Susan 466
 Fourman, Lindsay T 128
 Fowler, Mary Glenn 768
 Fox, Julie 461
 Francis, Jose 471
 Frange, Pierre 776
 Frascino, Nicole Yvonne 858
 Freeman, Michael L 285
 Frigati, Lisa 819
 Frouard, Julie 329
 Furukawa, Nathan Woo 1012
- G-**
- Gabrielaite, Migle 272
 Gabrieli, Arianna 524
 Gagliardini, Roberta 486
 Gaisa, Michael 620
 Galiwango, Ronald Moses 211
 Gallay, Philippe 342
 Gálvez, Cristina 192, 374
 Gandhi, Monica 1003
 Gandhi, Rajesh T 75
 Ganesh, Prakash 1087
 Gantner, Pierre 362
 Gao, Nan 261
 García, Federico 511, 927
 Garrett, Nigel 288
 Gartland, Margaret 503
 Gärtner, Kathleen 812, 813
 Gatechompol, Sivaporn 310
 Gatti, Arianna 481
 George, Nduva Makau 915
 Gerberick, Abigail Day 171
 Giacomet, Vania 827
 Gianella, Sara 204
 Giguere, Rebecca 998
 Giron, Leila Bertoni 281, 635
 Gisslén, Magnus 427
 Godot, Veronique 292
 Golden, Matthew R 939
 Golub, Sarit A 986, 1022
 Gonzalez, Hemil 1050
 Gorbach, Pamina M 1046
 Gordon, Jennifer 349
 Gotulweng, Sethunya 615
 Grabowski, Mary K 150, 1037, 1049
 Graham, Susan M 993
 Grebe, Edward 145
 Greenawalt, Wendy 537
 Greenberg, Lauren 487
 Greene, Justin 296
 Griesel, Rulan 82
 Grimwood, Ashraf 1088
 Grobler, Jay 89
 Grome, Heather Nicole 1048
 Gryseels, Sophie 934
 Guaraldi, Giovanni 675, 679
 Guedes Weber, Mariana 198
 Guerrero-Torres, Lorena 1101
 Guha, Debjani 408
 Günthard, Huldrych F 725
 Guo, Haitao 169
 Gupta, Amita 727
 Gupta, Prachi Mehrotra
 Gupta, Ravindra K 346, 516 1065

Gupta, Samir Kumar 666
Gurung, Sitaji 829
Guthrie, Brandon 42

-H-

Haaland, Richard 446
Haas, Andreas D 899
Haberer, Jessica E 1030
Haberlen, Sabina A 642
Hack, Benjamin A 599
Haeri Mazanderani, Ahmad 951
Hagins, Debbie P 36
Halperin, Jason 1073
Halvas, Elias K 383
Hamers, Raph L 222
Han, Win Min 598
Handanagic, Senad 887
Hanna, David B 649
Hansoti, Bhakti 1121
Harrington, Mark 10
Harris, Tiffany 1097
Hartana, Ciputra Adijaya 341
Hasin, Deborah S 1146
Hassan, Adiba 910
Hasson, Jenna Mohammad 811
Hawes, Isobel Anne 405
Healey, Letha 1141
Heffron, Renee 109
Hendrickson, Erik Michael 886
Henny, Kirk D 988
Henrich, Timothy J 72
Herce, Michael 1111
Heresi, Gloria P 347
Herskovitz, Jonathan 353
Herzig, Eytan 336
Hickey, Matthew D 45
Hikichi, Yuta 535
Hileman, Corri Lynn O 235, 402, 640, 685
Hill, Alison L 320
Hill, Andrew 81
Hill, Lucas 596
Hoang, Timothy 201
Hoare, Jackie 837
Hoffman, Risa M 624
Hojilla, J Carlo 1006
Honnayakanahalli Marichannegowda, Manukumar 781
Hontelez, Jan Anton Charles 879, 1129
Hoover, Karen W 949
Horberg, Michael A 709
Horne, Elizabeth Francesca Marion 400
Horsburgh, Bethany A 368
Howell, Bonnie J 279
Hoy, Jennifer 692
Hsu, Denise C 77, 343
Hsu, Ricky 547
Hu, Tony 758
Huaman, Moises Arturo 730
Huik, Kristi 377
Hung, Rachel 690
Hutin, Yvan J-F 161
Hwang, Yoseob Joseph 415
Hyle, Emily P 403

-I-

Imaz, Arkaitz 464
Innes, Steve 828
Iqbal, Kashif 1018, 1124
Irvin, Risha 593
Isnard, Stéphane 229
Ita, Sergio 536

-J-

Jackson, Charlotte 825
Jackson, Laurelle Anne 179
Jackson, Patrick Evan Hager 178
Jacobs, Jana L 970
Jacobson, Evin 1128
Jacobson, Kathleen 1139
Jain, Mamta K 893
Jakeman, Bernadette 409, 410
Jambo, Kondwani C 268
Jao, Jennifer 772, 802
Jary, Aude 425
Jean-Louis, Frantz 924
Jeffrey, Jerry 532
Jensen, Bjoern-Erik Ole 348
Jeong, Dahn 558
Jiang, Chenyang 74
Jilg, Nikolaus 319
Jiménez, Montse 259
Jimenez-Leon, M Reyes 301
Johnston, Carrie 416
Joly, Véronique 677
Jongen, Vita 1031
Jordan-Paiz, Ana 180
Joseph, Jessica 783
Joseph, Kevin W 367
Joska, John 100
Jost, Stephanie 115
Jourdain, Gonzague 604

-K-

Kaku, Machika 358
Kamkwala, Asante R 414
Kasaie, Parastu 1094
Katbi, Moses 1120
Katoto, Patrick 721
Kaur, Harpreet 691
Kaur, Jasmine 355
Kazer, Samuel Weisgurt 258
Kearney, Mary F 5
Keiser, Olivia 50
Kelentse, Nametso 426
Kelesidis, Theodoros 663, 715
Keller, Marla J 1061
Kelley, Audrey 186
Kelley, Colleen F 213
Keruly, Morgan P 880
Kieri, Oscar 630
Kigozi, Darix Ssebagala 1123
Kiiza, Tadeo Kandole 743
Kim, Eun Hye Grace 166
Kim, Jongyeon 885
Kim, Soyeon 139
Kim, Youry 354
Kimani, Makobu 878
Kimball, Brooke 605
Kimmel, April D 962
Kinuthia, John 1034
Kinvig, Hannah 450

Kirby, Charles 317
Kirk, Gregory D 322
Kirkegaard-Klitbo, Ditte Marie 549
Klausner, Jeffrey David 1052
Klevens, Monina 871
Klock, Ethan Brian 976
Knight, Audrey C 420
Knox, Justin Ryan 146
Knudsen, Andreas Dehlbæk 545
Ko, Sung Hee 187
Koay, Wei Li Adeline 826
Koethe, John 668
Koopsen, Jelle 124
Kostaki, Evangelia Georgia 921
Krebs, Emanuel 1144
Krebs, Shelly J 291
Kreitchmann, Regis 1043
Kremer, Jon Hayden 1103
Krogstad, Paul 846
Kuhn, Louise 135
Kulpa, Deanna 330
Kuo, Alex J 6
Kuri Cervantes, Leticia 119
Kuwata, Takeo 262
Kvistad, Daniel 278
Kwaa, Abena 378

-L-

LaCourse, Sylvia 138
Lahiri, Cecile Delille 457
Lai, Yen-Ting 527
Lain, Maria Grazia 807
Lake, Jordan E 645, 673
Lam, Jennifer O 646
Lambert-Niclot, Sidonie 502
Lambrechts, Laurens 324
Lampe, Margaret A 790
Landes, Megan 765
Lange, Ulrike C 307
Lau, Bryan 897
Lau, Jillian SY 334
Le, Thuy 548
Le Grand, Roger 293
Le Hingrat, Quentin 530
Le Roux, Stanzi Maria 804
Le Turnier, Paul 1026
Lechiile, Kwana 745
Lederman, Michael M 156
Lee, Guinevere Q 533
Lee, Jennifer S 863
Lehman, Dara 797
Leigh Brown, Andrew 933
Leisegang, Rory Forseth 1116
Leone, Michael 390
Lesko, Catherine R 882
Levy, Claire 311
Lewis, Lara 856
Li, Chenglei 182
Li, Jonathan Z 519
Li, Linying Alice 1000
Li, Xiaojun 263
Lian, Xiaodong 381
Longino, August Andrew 407
Louzao, Raul 971
Low, Andrea 1078, 1132

Low, Nicola 55
 Luckett, Patrick 32
 Luong, Liem Binh 1098
 Luscombe, Carolyn Anne 506
 Lyons, Claire E 434

-M-
 Ma, Tongcui 215
 Madeddu, Giordano 1130
 Madlala, Hlengiwe Pretty 773
 Mafaune, Hauvovi 782
 Majdoul, Saliha 177
 Majeed, Sophia R 841
 Makinson, Alain 754
 Maksut, Jessica L 1021
 Makyao, Neema 943
 Malaba, Thokozile Rosemary 770, 771
 Maldarelli, Frank 380
 Malone, Jowanna 1019
 Mammanno, Fabrizio 175
 Manickam, Ashokkumar 181
 Mansky, Louis M 170
 Marcus, Julia L 151, 987, 1007
 Margot, Nicolas Alain 529
 Marin, Miguel Angel 266
 Marquez, Carina 722
 Marrone, Gaetano 664
 Martin, Andrea Lynn 872
 Martin, Thomas CS 637
 Martin-Bejarano, Manuela 394
 Martin-Gayo, Enrique 295
 Martinez, Miguel Angel 552
 Martínez-Román, Paula 556
 Martínez-Sanz, Javier 474
 Martyn, Emily 737
 Masheto, Gaerolwe 795
 Massana, Núria 318
 Masters, Mary Clare 683
 Masyuko, Sarah 945
 Mathad, Jyoti S 144
 Mathur, Kushagra 1138
 Matthews, Gail 121
 Matthews, Randolph P 468
 Matus-Nicodemos, Rodrigo 327
 Mauss, Stefan 573
 Mavian, Carla 323
 Mayer, Kenneth H 995, 996
 Mbisa, Jean Lutamy 936
 Mboya, Frankline Otieno 968
 McCann, Nicole 785
 McClung, Robert Paul 123, 512
 McComsey, Grace A 676, 686
 McFall, Allison Marie 889, 890
 McGaugh, Angela Marie 1067
 McGettrick, Padraig 245
 McGinty, Tara 695
 McGowan, Catherine 833
 McGuire, Jennifer 398
 McHugh, Grace 956
 McIntyre, Anne 905
 McManus, Hamish 1004
 McManus, Kathleen A 1009
 McManus, Margaret 312

Mdluli, Thembi 287
 Meade, Christina S 397
 Medley, Amy Michelle 1058
 Mehta, Sanjay R 904
 Mena, Leandro Antonio 60
 Mendelsohn, Simon Carl 762
 Mendoza, Pilar 370
 Menza, Tim W 946, 1008
 Mera Giler, Robertino 1131
 Merchante, Nicolás 579
 Metcalfe, Rebecca 894
 Meyer-Rath, Gesine 961
 Meziane, Oussama 332
 Mikati, Tarek 617
 Mills, Anthony 477
 Mina, Yair 389
 Minami, Rumi 670
 Minhas, Anum S 653
 Mitchell, Kate M 901
 Mitruka, Kiren 1117
 Mitsuyasu, Ronald T 338
 Mizushima, Daisuke 1025
 Molès, Jean-Pierre 759
 Mondì, Annalisa 479
 Mongo-Bua, Grace 660
 Monnig, Mollie 399
 Montes, Maria Luisa 550
 Montgomery, Elizabeth 1015
 Moore, David M 1108
 Moosa, Muhammed Shiraz 741
 Morcilla, Vincent 372
 Moreira, Jorge Salomão 1053
 Moreira Gabriel, Etienne 249
 Moron-Lopez, Sara 314, 335
 Moser, Carlee 243
 Moses, Ashlee Vivien 65
 Mouton, Johannes P 659
 Moyo, Sikhulile 911
 Msomi, Nokukhanya 607
 Mukerji, Shibani Sharon 413
 Mukonda, Elton Emmanuel 1081
 Mungwira, Randy George 137
 Münk, Carsten 176
 Munshi, Mohamed Husen 165
 Murphy, Robert 473
 Murray, Daniel D 633
 Murray, Jeffrey Scott 9
 Mwinnyaa, George 860, 950
 Myer, Landon 1084
 Myers, Julie 1005

-N-
 Naggie, Susanna 13
 Nagot, Nicolas 719, 1143
 Nakawooya, Hadijja 94
 Namimbi, Florence 937, 958
 Nanda, Kavita 1056
 Nanditha, Ni Gusti Ayu 869
 Nangendo, Joanita 955
 Ndhlovu, Zaza 273
 Neigh, Gretchen 702
 Neilan, Anne M 818, 953
 Nelson, Ashley N 294
 Nelson, Brittany 392

Neogi, Ujjwal 248
 Nguyen, Nadia 444
 Nguyen, Thu TM 751
 Nguyen, Thuy Thi Thu 188
 Nichols, Brooke E 1090, 1115
 Ning, Chuanyi 749
 Njuguna, Irene 817
 Nkolola, Joseph 345
 Nleya, Bokani 209
 Noel, Nicolas 241
 Norton, Brianna L 1023
 Nosyk, Bohdan 1093
 Novak, Richard M 244
 Novelli, Sophie 217, 218
 Novitsky, Vladimir 929
 Nyang'Wa, Maggie Nyirenda 784
 Nyemba, Dorothy Chiwoniso 1040

-O-
 O'Halloran, Jane A 438, 701
 Obregon-Perko, Veronica 118
 Odayar, Jasantha 131, 766, 1110
 Ogbuagu, Onyema 92
 Ojwach, Doty Achieng 271
 Okafor, Elizabeth C 747
 Okoye, Afam 117
 Okwuegbuna, Oluwakemi 439
 Olagunju, Adeniyi 456
 Oliver, Cassandra 898
 Ollerton, Matthew T 172
 Onoya, Dorina 786, 1074
 Opoku, Jenevieve 559
 Orkin, Chloe 482
 Ortblad, Katrina Frances 779
 Ortiz, Alexandra 208
 Oster, Alexandra M 907
 Osuji, Ngozi Chidinma 662
 Overton, Edgar Turner 34

-P-
 Pacheco, Yolanda María 246
 Pagkas-Bather, Jade 979
 Palich, Romain 494
 Palumbo, Philip J 194
 Papasavvas, Emmanouil 309
 Paquin-Proulx, Dominic 264
 Parasrampur, Ridhi 463
 Park, Daniel 1039
 Park, Jee Won 877
 Parks, Monica 643, 656
 Parmley, Lauren 994
 Passmore, Jo-Ann 1064
 Patel, Parul 775
 Patel, Rena 129, 1057
 Patro, Sean 366
 Pau, Alice K 501
 Pearson, Catherine 1107
 Peluso, Michael J 140, 267, 308, 406, 431
 Perez-Elias, Maria Jesus 947
 Pérez-Valero, Ignacio 388
 Perkins, Jessica M 496
 Peters, Philip 510
 Petersen, Maya L 47
 Peterson, Meaghan L 723, 724

- Petoumenos, Kathy 83
 Petro, Gregory 108
 Pettit, April 902
 Pezzulo Collier, Molly 1100
 Pham, Tram 203
 Phillips, Patrick PJ 8
 Pickett, Jim 2
 Pierone, Gerald 491
 Pierre, Samuel 517
 Pinacchio, Claudia 228
 Pintye, Jillian 764, 1125
 Plana, Montserrat 282
 Polizzotto, Mark 70
 Polo, Maria Laura 587
 Popping, Stephanie 563
 Post, Frank 694
 Post, Wendy 652
 Prabhakaran, Madhu 453
 Prator, Cecilia 344
 Price, Jennifer C 569
 Prins, Henrieke AB 451
 Probert, William 1076
 Pulendran, Bali 153
 Pulliam, Lynn 584
 Puryear, Sarah B 728, 1142
 Puthanakit, Thanyawee 136
 Pye, Valerie 98
 Pyra, Maria 1029
- Q-**
 Quinn, Thomas C 865
- R-**
 Radix, Asa 881
 Radtke, Kendra K 729
 Raffi, François 522, 713, 1077
 Ragonnet-Cronin, Manon 973
 Raju, Sarath 699
 Rallón, Norma 269
 Ramaswamy, Chitra 892
 Ramendra, Rayoun 232
 Rametse, Cosnet Lerato 212
 Ramírez Mena, Adrià 608
 Ramla, Tanko F 1063
 Rao, Darcy White 985
 Rasclé, Philippe 252
 Rasmussen, Thomas Aagaard 37
 Rawat, Pratima 207
 Rawlings, Stephen Arthur 220
 Rawson, Jonathan 167
 Rebeiro, Peter F 680
 Rehmann, Barbara 104
 Reikvam, Dag Henrik 247
 Reilly, Cavan 80
 Reinsch, Nico 654
 Remera, Eric 942
 Ridolfi, Felipe 740
 Riebensahm, Carlotta 616
 Rinaldi, Stefano 810
 Riou, Julien 513
 Risher, Kathryn Amanda 851
 Rivero-Juárez, Antonio 618
 Riviere, Cynthia 726
 Roan, Nadia R 371
 Rodger, Alison 964
 Rodríguez, Benigno 113
 Rodríguez, Carina 840
 Rodríguez-Fernández, Miguel 554
 Rodríguez-Hart, Cristina 884
 Romerio, Fabio 183, 331
 Ronit, Andreas 696
 Rosebush, Julia C 842
 Rosen, Elias 443
 Ross, Jonathan 1071
 Rossetti, Barbara 488
 Rossotti, Roberto 555, 577
 Rowlinson, Emily 948
 Ruane, Peter 39
 Rucinski, Katherine 855
 Rudd, Deanne Jackson 462
 Ruderman, Stephanie A 678
 Ruel, Theodore 134
 Ruiz-Mateos, Ezequiel 592
 Rukuni, Ruramayi 820
 Rust, Blake 76
 Rutakingirwa, Morris Kyoza 748
 Rydberg, Frida 437
- S-**
 Sacks, Emma 132
 Saeed, Sahar 583
 Saez-Cirion, Asier 339
 Sailasuta, Napapon 391
 Saladini, Francesco 531
 Santinelli, Letizia 230, 254
 Sanz, Marta 386
 Sarno, Elissa L 859
 Savic, Radojka M 734
 Savinelli, Stefano 221
 Savory, Theodora 1105
 Sax, Paul E 495
 Saylor, Charlie F 234
 Scanga, Charles A 731
 Schaafsma, Torin 969
 Scharffenberger, Samuel 369
 Schiffer, Joshua T 340
 Schinazi, Raymond F 452
 Schneider, John A 909
 Schnittman, Samuel Richard 206
 Schoepf, Isabella Christina 651
 Schuetz, Alexandra 289
 Schulz, Thomas F 64
 Scott, Lesley 755
 Scott, Rachel K 1033
 Scully, Eileen P 63, 333
 Scutari, Rossana 1055
 Seang, Kennarey 687
 Sebaa, Shorok 210
 Seekaew, Pich 1072
 Sengupta, Devi 40
 Serghides, Lena 796
 Serquina, Anna 256
 Serrano-Villar, Sergio 284
 Sette, Paola 120
 Sevilla, Sabrina 236
 Shafer, Robert 528, 539
 Shah, Maunank 1119
 Sharma, Shweta 752
 Shebl, Fatma 874
 Sheikh, Virginia 500
 Sherman, Brad 195
 Shiao, Stephanie 822, 823
 Short, Charlotte-Eve Sophia 794
 Short, William R 862
 Shouse, R Luke 900
 Shrestha, Ram K 1011
 Siedner, Mark J 518
 Sigal, Alex 424
 Sigel, Keith M 632
 Siliciano, Janet M 4
 Silva-Klug, Ana Carina 619
 Silvera, Richard 621
 Silverberg, Michael J 870
 Sim, Jae H 546
 Simoncini, Gina M 566
 Simonetti, Francesco Roberto 73
 Singh, Devika 1051
 Singh, Kasha P 614
 Singh, Sonia 1099
 Skaathun, Britt 922
 Skalland, Timothy 850
 Slama, Laurence 682
 Slaymaker, Emma 848
 Smiley, Casey 868
 Smith, Bryan 418
 Smith, Janet L 97
 Smith, Marie-Soleil R 789
 Smith, S Abigail 251
 Smyrnov, Pavlo 1137
 Solomon, Sunil S 147
 Songtaweasin, Wipaporn Natalie 1027
 Soriano-Sarabia, Natalia 359
 Spencer, David A 286
 Sperber, Hannah Sabeth 304
 Spinelli, Matthew A 91
 Ssempijja, Victor 982
 Ssuuna, Martin 1114
 Stader, Felix 448
 Staitieh, Bashar 196
 Stalter, Randy 977
 Starace, Mario 562
 Stecher, Melanie 919
 Stefic, Karl 525
 Stelmach, Rachel 1091
 Strain, Jeremy 393
 Stranix-Chibanda, Lynda 800
 Styer, Linda M 125
 Suanzes, Paula 753
 Sun, Hsin-Yun 574, 575, 591
 Sun, Jing 85, 126, 622
 Suzuki, Kazuo 429
 Søgaard, Ole Schmeltz 38
- T-**
 Tagarro, Alfredo 806
 Tang, Michael E 903
 Tanner, Mary 983
 Tedaldi, Ellen 710
 Telwatte, Sushama 306
 Temfack, Elvis 35
 Thakur, Kiran T 99
 Thorne, Claire 791
 Tiam, Appolinaire 767
 Tien, Phyllis 669
 Tiraboschi, Juan M 435
 Tobin, Nicole H 793, 1059
 Tomezska, Phillip 356
 Tomov, Dimitre 33
 Tordoff, Diana M 916

Torgersen, Jessie 551
 Toribio, Mabel 641
 Torres, Thiago Silva 857
 Towe, Sheri L 417
 Toy, K Junine 978
 Trickey, Adam 895
 Trunfio, Mattia 430
 Truong, Hong-Ha M 142
 Tukei, Betty Bawuba 43

-U-

Umbleja, Triin 707
 Underwood, Mark 483, 484
 Ussery, Faith 149

-V-

Vachuska, Milana 1086
 Valdano, Eugenio 923
 Valenzuela Ponce, Humberto 274
 Van De Perre, Philippe 799
 Van De Vijver, David 564
 Van Den Hof, Malon 838
 Vannappagari, Vani 521
 Vasconcelos, Ricardo De Paula 963
 Vasylyev, Marta 757
 Velarde De La Cruz, Erandi E 219
 Velu, Vijayakumar 200
 Vendrame, Elena 384
 Venter, Willem Daniel Francois 514
 Vernon, Frances 1085
 Verwijs, Rosanne 689
 Vestad, Beate 223
 Vigón, Lorena 283
 Villinger, Francois 997
 Vinikoor, Michael J 609, 1109

Vinton, Carol 231
 Violette, Lauren R 864, 954
 Vo, Ly Trieu 750
 Vo, Quynh 590
 Volkow, Patricia 67
 Vourli, Georgia 1079
 Vu, Quan M 896

-W-

Waalewijn, Hylke 847
 Wagner, Gabriel A 966
 Wahl, Angela 205, 226, 419
 Wahome, Elizabeth 992
 Wald, Anna 57
 Walensky, Rochelle P 1089
 Wamuti, Beatrice 944
 Wang, Ruolan 489
 Wang, Xiao Qian 613
 Wang, Zheng 224
 Wang, Zheng 401
 Wanjalla, Celestine 672
 Wansom, Tanyaporn 852
 Ward, Adam R 303
 Ward, Amanda E 21
 Ware, Norma C 959
 Wawer, Maria 1038
 Wedderburn, Catherine J 798
 Weiss, Julian 29, 433
 Welty, Susie 1016
 Wensel, David 20
 Whitby, Shamaya 967
 White, Elizabeth A 255
 Whitney, Bridget M 644
 Whitney, James 79
 Widge, Alicia T 508
 Willis, Sarah J 557
 Wilson, Andrew B 299
 Woldu, Bethel 648

Wolf, Eva 493
 Wolf, Hilary T 815
 Wong, Colline 242
 Wu, Fei 423
 Wu, Kunling 876
 Wu, Yuntao 19
 Wyatt, Monique A 960
 Wykowski, James H 746

-Y-

Yager, Jenna 445
 Yamaguchi, Julie 935
 Yang, Fan Nils 387
 Yapa, H Manisha 1135
 Yazdanpanah, Yazdan 883
 Yee, Lynn M 780
 Yeh, Yang-Hui 352
 Yero, Alexis 197
 Yin, Li 835
 Yu, Katherine 385
 Yumori, Caitlin Sachiko 1035

-Z-

Zash, Rebecca 792
 Zazzi, Maurizio 523
 Zhabokritsky, Alice 478
 Zhang, Weiyang 270
 Zhang, Yinfeng 930
 Zhou, Shuntai 931
 Zicari, Sonia 809
 Ziegelbauer, Joseph 66
 Zifodya, Jerry Simbarashe 742
 Zuck, Paul 316
 Zürcher, Kathrin 718

NOTES

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PLAZA LEVEL

Poster Sessions..... **Poster Hall A, B**
 Registration and Cafeteria..... **Main Lobby**
 Bag and Coat Check..... **Room 107**

2ND FLOOR

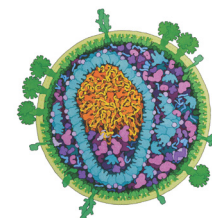
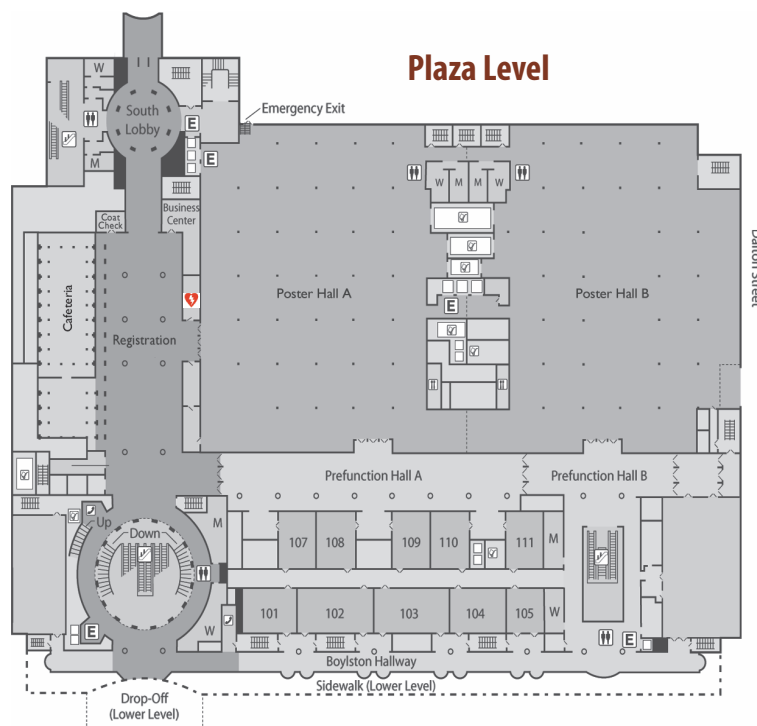
Opening Session, Plenaries **Auditorium/Hall C**
 Poster Sessions..... **Poster Hall D**
 Speaker Ready Room **200**
 IAS-USA Office **203**

3RD FLOOR

Opening Session, Plenaries **Auditorium Balcony**
 Oral Sessions, Themed Discussions, Workshops,
 and Symposia Breakout Rooms **Ballroom A, B, C,
 304/306**
 New Mother's Room..... **307**
 Personal Considerations Room **308**
 Simultaneous Overflow Room..... **302**
 Additional Overflow Room **312**

Networking Areas: 303, 305, Cafeteria, Poster Halls A, B, D
Gender Neutral Bathroom: by 300

Plaza Level

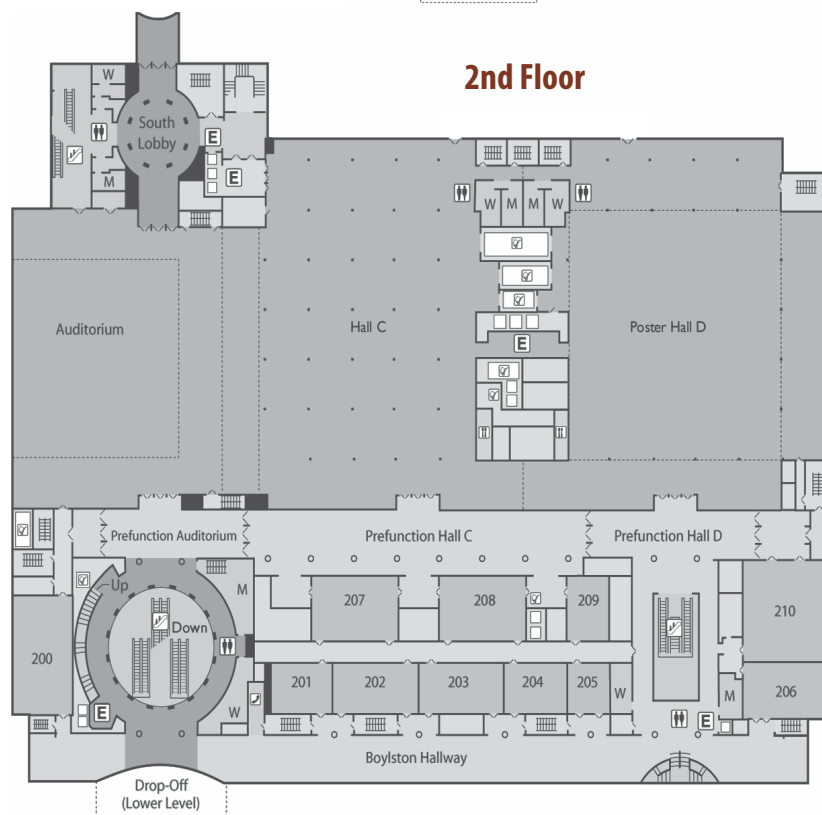


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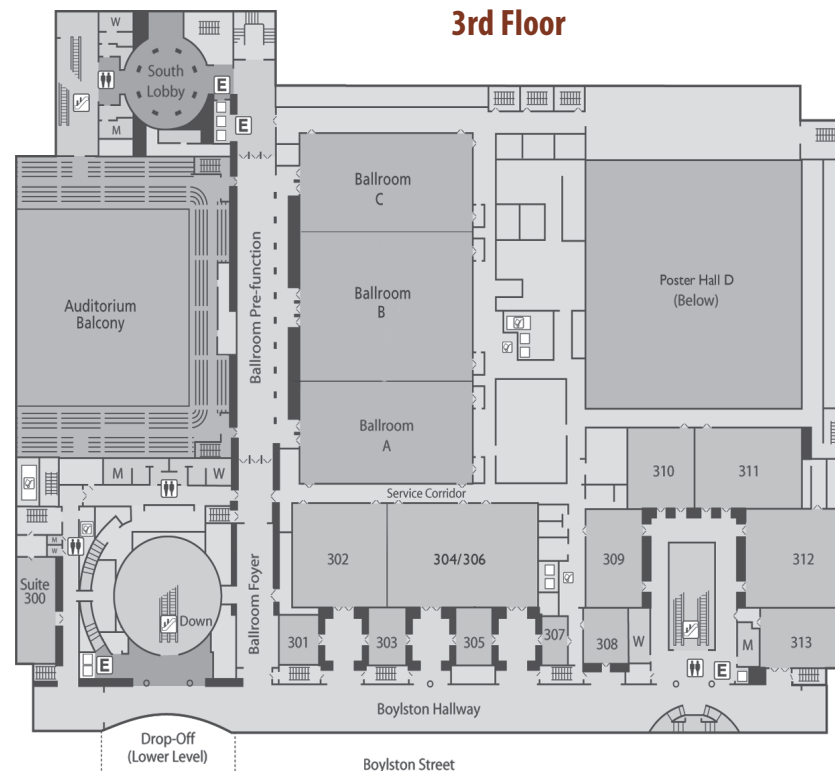
KEY

- ♥ First Aid
- E Fire Exit
- FF Food/Beverage
- RR Restrooms

2nd Floor



3rd Floor



Conference Schedule

TIME	SUNDAY, MARCH 8, 2020	MONDAY, MARCH 9, 2020	TUESDAY, MARCH 10, 2020	WEDNESDAY, MARCH 11, 2020
7:15 AM		CONTINENTAL BREAKFAST 7:00 AM–8:30 AM 2ND FLOOR: PREFUNCTION AREA OUTSIDE OF AUDITORIUM *BREAKFAST NETWORKING SESSION FOR NEW INVESTIGATORS 7:15 AM–8:15 AM ROOM 110	CONTINENTAL BREAKFAST 7:00 AM–8:30 AM 2ND FLOOR: PREFUNCTION AREA OUTSIDE OF AUDITORIUM *BREAKFAST NETWORKING SESSION FOR NEW INVESTIGATORS 7:15 AM–8:15 AM ROOM 110	CONTINENTAL BREAKFAST 7:00 AM–8:30 AM 2ND FLOOR: PREFUNCTION AREA OUTSIDE OF AUDITORIUM *BREAKFAST NETWORKING SESSION FOR NEW INVESTIGATORS 7:15 AM–8:15 AM ROOM 110
8:00 AM	SPECIAL SESSION 8:00 AM–8:50 AM THE HITCHHIKER'S GUIDE TO NIH REVIEW FOR HIV/AIDS RESEARCH BALLROOM BC	PLENARY SESSION AUDITORIUM / HALL C / AUDITORIUM BALCONY 8:30 AM HIV CURE FROM BENCH TO BEDSIDE 9:00 AM UNIVERSAL TEST AND TREAT (UTT): LESSONS FROM THE PAST AND FOR THE FUTURE	PLENARY SESSION AUDITORIUM / HALL C / AUDITORIUM BALCONY 8:30 AM PREVENTING HIV AMONG PEOPLE WHO INJECT DRUGS: PLUS ÇA CHANGE, PLUS ÇA MÊME CHOSE 9:00 AM SEX DIFFERENCES IN HIV	PLENARY SESSION AUDITORIUM / HALL C / AUDITORIUM BALCONY 8:30 AM RECENT ADVANCES IN THE DIAGNOSIS, TREATMENT, AND PREVENTION OF TUBERCULOSIS 9:00 AM ENGINEERING VACCINE IMMUNITY
8:30 AM				
9:00 AM	WORKSHOP 9:00 AM–12:25 PM PROGRAM COMMITTEE WORKSHOP FOR NEW INVESTIGATORS AND TRAINEES BALLROOM BC	NETWORKING BREAK 9:30 AM–10:00 AM	NETWORKING BREAK 9:30 AM–10:00 AM	NETWORKING BREAK 9:30 AM–10:00 AM
9:30 AM				
10:00 PM				
	LUNCH AND MARTIN DELANEY PRESENTATION 12:30 PM–1:40 PM SHIFTING FROM ACUTE TO CHRONIC, AGING, LONGEVITY AND LIVED EXPERIENCE BALLROOM BC			
12:00 PM		LUNCH 12:00 PM–1:30 PM	LUNCH 12:00 PM–1:30 PM ** (see below)	LUNCH 12:00 PM–1:30 PM
1:30 PM		CONCURRENT THEMED DISCUSSIONS 1:30 PM–2:30 PM TD-01 SHARPENING THE CUTTING EDGE: ADDITIONS TO THE MOLECULAR VIROLOGY TOOLKIT BALLROOM A TD-02 HEARTS AND HORMONES BALLROOM C TD-03 CHRONIC DISEASES IN MATERNAL HEALTH: PERSISTENT PROBLEMS FOR PREGNANT OR POSTPARTUM WOMEN ROOM 312 TD-04 RAPID ART START: WHERE ARE THE GAPS? BALLROOM B TD-05 PARTNER NOTIFICATION FOR DETECTING HIV INFECTIONS ROOM 304-306	CONCURRENT THEMED DISCUSSIONS 1:30 PM–2:30 PM TD-06 CURATIVE STRATEGIES: TRIALS AND TRIBULATIONS BALLROOM B TD-07 ALTERNATIVE DIAGNOSTIC TOOLS FOR UNDERSTANDING NEUROHIV ROOM 304-306 TD-08 FAT IN FOCUS BALLROOM C TD-09 NOVEL APPROACHES TO STUDY PEDIATRIC ANTIRETROVIRAL DOSING AND SAFETY ROOM 312 TD-10 COMING INTO THE LIGHT: HIV IN TRANSGENDER WOMEN AND MEN BALLROOM A	CONCURRENT THEMED DISCUSSIONS 1:30 PM–2:30 PM TD-11 THE ROAD TO A BETTER VACCINE: CLINICAL TRIALS AND COHORT STUDIES ROOM 312 TD-12 ATTACK OF THE CLONES: CLONAL EXPANSION IN THE HIV RESERVOIR ROOM 304-306 TD-13 THE LONG AND THE SHORT OF IT: WHAT'S NEXT FOR LONG-ACTING DRUGS BALLROOM B TD-14 NEW DIAGNOSTIC ALGORITHMS FOR TUBERCULOSIS AND OPPORTUNISTIC INFECTIONS BALLROOM A TD-15 MAKING SENSE OF IT ALL: HIV SUSCEPTIBILITY IN THE FEMALE GENITAL TRACT BALLROOM C
2:00 PM	CONCURRENT WORKSHOPS 2:00 PM–4:00 PM FRONTIERS IN LABORATORY SCIENCE ROOM 304-306 CLINICAL TRIAL DESIGN AND ANALYSIS BALLROOM A INTERACTIVE CASE-BASED WORKSHOP: WHAT'S EATING YOUR LIVER? BALLROOM BC			
2:30 PM		POSTER SESSIONS 2:30 PM–4:00 PM BASIC SCIENCE (POSTERS 165-442) POSTER HALL A CLINICAL (POSTERS 443-847) POSTER HALL A AND B PUBLIC HEALTH (POSTERS 848-1146) POSTER HALL D	POSTER SESSIONS 2:30 PM–4:00 PM BASIC SCIENCE (POSTERS 165-442) POSTER HALL A CLINICAL (POSTERS 443-847) POSTER HALL A AND B PUBLIC HEALTH (POSTERS 848-1146) POSTER HALL D	POSTER SESSIONS 2:30 PM–4:00 PM BASIC SCIENCE (POSTERS 165-442) POSTER HALL A CLINICAL (POSTERS 443-847) POSTER HALL A AND B PUBLIC HEALTH (POSTERS 848-1146) POSTER HALL D
4:00 PM		CONCURRENT SYMPOSIA 4:00 PM–6:00 PM S-01 NOVEL CURE INTERVENTIONS BALLROOM B S-02 HISTORY REPEATING ITSELF: SEXUALLY TRANSMITTED INFECTIONS IN WOMEN AND INFANTS BALLROOM A S-03 WHAT MAKES EPIDEMICS RECEDE BALLROOM C	CONCURRENT SYMPOSIA 4:00 PM–6:00 PM S-04 HALT, WHO GOES THERE? VIRUS SENSING AND RESTRICTION ROOM 304-306 S-05 HIV IS ON OUR MINDS BALLROOM B S-06 B CURED BALLROOM A S-07 CONTRACEPTION AND HIV BALLROOM C	CONCURRENT SYMPOSIA 4:00 PM–6:00 PM S-08 DOUBLE-EDGED SWORD OF INFLAMMATION BALLROOM A S-09 ANTIRETROVIRAL THERAPY: THE LONG GAME BALLROOM B S-10 HEPATITIS C: PARALLELS, PITFALLS, AND PROMISE BALLROOM C
5:00 PM	OPENING SESSION 5:00 PM–7:00 PM BERNARD FIELDS LECTURE N'GALY-MANN LECTURE			
6:00 PM	PERFORMANCE BY THE BOSTON CHILDREN'S CHORUS AUDITORIUM / HALL C / AUDITORIUM BALCONY		SPECIAL SESSION 6:10 PM-6:45PM LATE-BREAKING NEWS: UPDATE FROM THE HVTN 702 VACCINE (UHAMBO) TRIAL BALLROOM B	
7:00 PM	WELCOME RECEPTION 7:00 PM–9:00 PM 3RD FLOOR: BOYLSTON HALLWAY			

*Please note: Breakfast Networking Session For New Investigators is limited to New Investigator Scholarship awardees who signed up in advance

** SPECIAL LUNCH-TIME SESSION 12:10PM-1:20PM (APPROXIMATE)
AUDITORIUM / HALL C / AUDITORIUM BALCONY