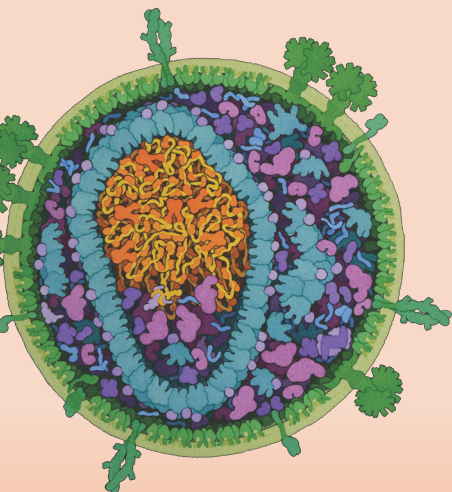


CROI 2025



Conference on Retroviruses and Opportunistic Infections

March 9-12 | San Francisco, California

Program and Information Guide

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Welcome to San Francisco

The CROI Program Committee, CROI Foundation, and International Antiviral Society–USA welcome you to San Francisco.

When not in session at CROI, we encourage you to visit one of the many local restaurants and attractions recommended by San Francisco locals: www.CROIconference.org/croi-2025-sf-suggestions/

Some local businesses are offering attendees incentives and discounts on select attractions, tours, events, and restaurants: www.CROIconference.org/croi-2025-convention-deals/

Please join us for a special performance by the San Francisco Gay Men's Chorus in the Opening Session.

Selected panels of the AIDS Quilt are on display.

Abstracts and information in this guide are largely current as of January 20, 2025. Given the evolving environment in the US Federal Government, some abstracts or authors listed on abstracts may change. Participants are encouraged to refer to the electronic materials (Abstract eBook, electronic Program and Information Guide, Mobile App, etc) for the most current program.

CROI Foundation

The CROI Foundation is a 501(c)(3) not-for-profit organization that operates exclusively for the charitable and educational purpose of organizing, promoting, and presenting the Conference on Retroviruses and Opportunistic Infections (CROI). The CROI Foundation Board comprises volunteer members who oversee the mission and activities of the organization.

Duties of the CROI Foundation Board

- Oversee the long-term financial and administrative integrity of CROI
- Work closely with the CROI Scientific Program Committee (PC) and the Conference Manager (IAS–USA) to accomplish the mission of CROI
- Approve nominations and rotations for members of the CROI PC, the CROI PC Chair and Vice Chairs, and the Community Liaison Subcommittee (CLS)
- Ensure that the CROI PC is responsible for the scientific program content of CROI
- Enter and oversee the partnership agreement with the CROI Conference Manager (IAS–USA)
- Have the sole and absolute discretion to implement or veto any policies, procedures, or actions taken or proposed to be taken by the CROI PC, CLS, or the CROI Conference Manager that would pose a substantial risk of preventing the Corporation at any time from qualifying or continuing to qualify as a 501(c)(3) organization or that might cause the loss of such qualifications

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CROI Foundation Board
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*Columbia University Medical Center
ICAP at Columbia University
New York, NY, USA*

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*Université de Montréal–CHUM
Research Center
Montreal, QC, Canada*

Judith S. Currier, MD

*University of California Los Angeles
Los Angeles, CA, USA*

Wafaa M. El-Sadr, MD, MPH

*Columbia University
New York, NY, USA*

Diane V. Havlir, MD

*University of California San Francisco
San Francisco, CA, USA*

Sharon L. Hillier, PhD

*University of Pittsburgh
Pittsburgh, PA, USA*

Landon Myer, MD

*University of Cape Town
Cape Town, South Africa*

Robert T. Schooley, MD

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

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The International Antiviral (formerly AIDS) Society–USA is a not-for-profit organization that serves as the Conference Organizer for the logistical planning and organization of 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 research and care.

Visit www.iasusa.org for other educational and informational programs sponsored by the IAS–USA, including:

- Live CME courses, CME webinars, and dialogues available for signup
- On-demand webcasts of CME courses and webinars
- *Topics in Antiviral Medicine*, the free, open-access, online journal published by IAS–USA
- *Going anti-Viral*, a podcast for clinicians
- Practice guidelines on the use of antiretroviral drugs and HIV drug resistance mutations
- Ryan White HIV/AIDS Program (RWHAP) CLINICAL CONFERENCE for HIV clinical decision makers in RWHAP-funded clinics and programs
- The inaugural Conference on Bacteriophages: Biology, Dynamics, and Therapeutics, a 2.5-day conference on phage biology and clinical application

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La Jolla, CA, USA*

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*University of Texas Southwestern
Medical Center
VA North Texas Health Care System
Dallas, TX, USA*

Constance A. Benson, MD

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

Judith S. Currier, MD

*University of California Los Angeles
Los Angeles, CA, USA*

Carlos del Rio, MD

*Emory University
Atlanta, GA, USA*

Ellen F. Eaton, MD

*University of Alabama at Birmingham
Birmingham, AL, USA*

Rajesh T. Gandhi, MD

*Harvard Medical School
Massachusetts General Hospital
Boston, MA, USA*

Donna M. Jacobsen, BS

*IAS–USA
San Francisco, CA, USA*

Raphael J. Landovitz, MD, MSc

*University of California Los Angeles
Los Angeles, CA, USA*

Susanna Naggie, MD, MHS

*Duke University School of Medicine
Durham, NC, USA*

Michael S. Saag, MD

*University of Alabama at Birmingham
Birmingham, AL, USA*

Robert T. Schooley, MD

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

IAS–USA Volunteer Governing Board of Directors

Constance A. Benson, MD

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

Judith S. Currier, MD

*University of California Los Angeles
Los Angeles, CA, USA*

Carlos del Rio, MD

*Emory University
Atlanta, GA, USA*

Donna M. Jacobsen, BS

*IAS–USA
San Francisco, CA, USA*

Michael S. Saag, MD

*University of Alabama at Birmingham
Birmingham, AL, USA*

CROI 2025 Scientific Program Committee

The CROI Scientific Program Committee (PC) is a team of experts in their given fields 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 innovation programming; strategic planning; abstract review and program development; and organizing, conducting, or convening workshops, concurrent interactive sessions and symposia, and special sessions.

CROI 2025 Chairs



Diane V. Havlir, MD

CROI 2025 Chair

*University of California San Francisco
San Francisco, CA, USA*



Nicolas Chomont, PhD

CROI 2025 Vice Chair

*Université de Montréal–CHUM Research Center
Montreal, QC, Canada*



Wafaa M. El-Sadr, MD, MPH

CROI 2025 Vice Chair

*ICAP at Columbia University
New York, NY, USA*

CROI 2025 Scientific Program Committee



Elaine J. Abrams, MD

*Columbia University
Medical Center
ICAP at Columbia
University
New York, NY, USA*



Constance A. Benson, MD

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



Katharine J. Bar, MD

*University of
Pennsylvania
Philadelphia, PA, USA*



Susan P. Buchbinder, MD

*San Francisco
Department of Public
Health
San Francisco, CA, USA*



Ruanne Barnabas, MD, PhD

*Massachusetts
General Hospital
Boston, MA, USA*



Connie L. Celum, MD, MPH

*University of Washington
Seattle, WA, USA*



Richard E. Chaisson, MD
The Johns Hopkins
University School of
Medicine
Baltimore, MD, USA



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



John M. Coffin, PhD
Tufts University
Boston, MA, USA



Jennifer Jao, MD, MPH
Northwestern University
Chicago, IL, USA



Elizabeth Connick, MD
University of Arizona
Tucson, AZ, USA



Frank Kirchhoff, PhD
Ulm University Medical
Center
Ulm, Germany



Judith S. Currier, MD
University of California
Los Angeles
Los Angeles, CA, USA



Raphael J. Landovitz, MD
University of California
Los Angeles
Los Angeles, CA, USA



Carlos del Rio, MD
Emory University
Atlanta, GA, USA



Anna Suk-Fong Lok, MD
University of Michigan
Ann Arbor, MI, USA



Joseph J. Eron, Jr, MD
University of North
Carolina at Chapel Hill
Chapel Hill, NC, USA



Patrick Mallon, MBBS, PhD
University College Dublin
Dublin, Ireland



Monica Gandhi, MD, MPH
University of California
San Francisco
San Francisco, CA, USA



Graeme Meintjes, MD, MPH, PhD
University of Cape Town
Cape Town, South Africa



Huldrych F. Günthard, MD
University Hospital
Zurich
Zurich, Switzerland



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



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



Jean-Michel G. Molina, MD, PhD
University of Paris-Est
Paris, France



Sharon L. Hillier, PhD
University of Pittsburgh
Pittsburgh, PA, USA



Penny Moore, PhD
University of the
Witwatersrand
Johannesburg, South Africa



Ya-Chi Ho, MD, PhD
Yale University
New Haven, CT, USA



Andrew Mujugira, MBChB, MSc, MPH, PhD, MACE
Infectious Diseases
Institute
Kampala, Uganda



Landon Myer, MD, PhD
*University of Cape Town
Cape Town, South Africa*



Kimberly K. Scarsi, PharmD
*University of Nebraska
Medical Center
Omaha, NE, USA*



Lishomwa Ndhlovu, MD, PhD
*Weill Cornell Medicine
New York, NY, USA*



Robert T. Schooley, MD
*University of California
San Diego
La Jolla, CA, USA*



Stuart J. D. Neil, PhD
*King's College London
London, UK*



Annette H. Sohn, MD, PhD
*TREAT Asia, amfAR
Bangkok, Thailand*



LaRon E. Nelson, PhD, RN, FNP
*Yale University
New Haven, CT, USA*



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



Afam A. Okoye, PhD
*Oregon Health and
Sciences University
Portland, OR, USA*



David L. Thomas, MD
*The Johns Hopkins
University School of
Medicine
Baltimore, MD, USA*



Sari L. Reisner, ScD
*Harvard Medical School
Boston, MA, USA*



Annemarie M. Wensing, MD, PhD
*University Medical
Center Utrecht
Utrecht, Netherlands*



Douglas D. Richman, MD
*University of California
San Diego
La Jolla, CA, USA*

Community Liaison Subcommittee



Dawn Averitt, BIS
*The Well Project,
Women's Research
Initiative on HIV/AIDS
South Strafford, VT, USA*



Udom Likhitwonnawut, BS
*AVAC
Bangkok, Thailand*



Luciana P. Kamel, MA
*Instituto Nacional de
Infetologia Evandro
Chagas / Fundação
Oswaldo Cruz
Rio de Janeiro, Brazil*



Devan Nambiar, MSc
*Gay Men's Sexual Health
Alliance
Toronto, ON, Canada*



Grace Kumwenda, MPH
*AVAC
Blantyre, Malawi*

External Reviewers

We gratefully acknowledge the contributions of the following individuals, who, in addition to the Scientific Program Committee members, served as volunteer external reviewers of abstract or scholarship submissions for CROI 2025.

K. Rivet Amico, PhD

*University of Michigan
Ann Arbor, MI, USA*

Peter L. Anderson, PharmD

*University of Colorado
Aurora, CO, USA*

Moherndran Archary, PhD, MBChB

*University of KwaZulu-Natal
Durban, South Africa*

Georg N. M. Behrens, MD, PhD

*Medizinische Hochschule Hannover
Hannover, Germany*

Michael Betts, PhD

*University of Pennsylvania
Philadelphia, PA, USA*

Marta Boffito, MD, PhD

*Chelsea and Westminster Hospital
London, UK*

Bruce J. Brew, MD, MBBS, DSc

*St Vincent's Hospital
Sydney, Australia*

Todd T. Brown, MD, PhD

*The Johns Hopkins University
Baltimore, MD, USA*

María Buzón, PhD

*Vall d'Hebron Research Institute
Barcelona, Spain*

Carol S. Camlin, PhD, MPH

*University of California San Francisco
San Francisco, CA, USA*

David B. Clifford, MD

*Washington University
St Louis, MO, USA*

Tim R. Cressey, PhD

*Chiang Mai University
Chiang Mai, Thailand*

Shireesha Dhanireddy, MD

*University of Washington
Seattle, WA, USA*

Kelly E. Dooley, MD, MPH, PhD

*Vanderbilt University Medical Center
Nashville, TN, USA*

Kristine M. Erlandson, MD

*University of Colorado
Aurora, CO, USA*

David T. Evans, PhD

*University of Wisconsin
Madison, WI, USA*

Matthew J. Feinstein, MD, MSc

*Northwestern University
Chicago, IL, USA*

Courtney V. Fletcher, PharmD

*University of Nebraska Medical Center
Omaha, NE, USA*

Charles W. Flexner, MD

*The Johns Hopkins University
Baltimore, MD, USA*

John Frater, MBBS, PhD

University of Oxford, Oxford, UK

Dana Gabuzda, MD

*Dana Farber Cancer Institute
Boston, MA, USA*

Gerardo Garcia-Lerma, PhD

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

Carlo Giaquinto, MD

*University of Padova
Padova, Italy*

Magnus Gisslén, MD, PhD

*University of Gothenburg
Gothenburg, Sweden*

Beatriz Grinsztejn, MD, PhD

*Fundação Oswaldo Cruz
Rio de Janeiro, Brazil*

Jessica Haberer, MD

*Massachusetts General Hospital
Boston, MA, USA*

Renee Heffron, PhD, MPH

*University of Alabama at Birmingham
Birmingham, AL, USA*

Sybil Hosek, PhD

*University of Illinois
Chicago, IL, USA*

James Hoxie, MD

*University of Pennsylvania
Berwyn, PA, USA*

Jennifer F. Hoy, MBBS

*Alfred Health
Melbourne, Australia*

Priscilla Y. Hsue, MD

*University of California San Francisco
San Francisco, CA, USA*

Kondwani C. Jambo, PhD

*Liverpool School of Tropical Medicine
Blantyre, Malawi*

Grace John-Stewart, MD, PhD

*University of Washington
Seattle, WA, USA*

Clare Jolly, PhD

*University College London
London, UK*

Sarah B. Joseph, PhD

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

**Angela D. Kashuba, PharmD,
BScPhm**

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

Cissy M. Kityo, PhD, MBChB, MSc

*Joint Clinical Research Centre
Kampala, Uganda*

Dennis Kolson, MD, PhD

*University of Pennsylvania
Philadelphia, PA, USA*

Susan E. Krown, MD

*Memorial Sloan Kettering Cancer
Center
London, UK*

Maud Lemoine, MD, PhD

*Imperial College London
London, UK*

Scott L. Letendre, MD

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

Sharon R. Lewin, MBBS, PhD

*University of Melbourne
Melbourne, Australia*

Annie Luetkemeyer, MD

*University of California San Francisco
San Francisco, CA, USA*

Rebecca M. Lynch, PhD

*George Washington University
Washington, DC, USA*

Catia Marzolini, PharmD, PhD

*University of Lausanne
Lausanne, Switzerland*

Grace A. McComsey, MD

*University Hospitals Case
Medical Center
Cleveland, OH, USA*

Leandro A. Mena, MD, MPH

*University of Mississippi
Medical Center
Jackson, MS, USA*

Ronald T. Mitsuyasu, MD

*University of California Los Angeles
Los Angeles, CA, USA*

Victor Musiime, PhD, MBChB

*Makerere University
Kampala, Uganda*

Susanna Naggie, MD, MHS

*Duke University
Durham, NC, USA*

**Harriet Nuwagaba-Biribonwoha,
PhD, MBChB**

*ICAP at Columbia University
Mbabane, Eswatini*

Roger Paredes, MD, PhD

*Hospital Germans Trias i Pujol
Badalona, Spain*

Michael J. Peluso, MD

*University of California San Francisco
San Francisco, CA, USA*

Martina Penazzato, MD, PhD, MSc

*World Health Organization
Geneva, Switzerland*

Robert H. Remien, PhD

*Columbia University
New York, NY, USA*

Michael S. Saag, MD

*University of Alabama at Birmingham
Birmingham, AL, USA*

Jorge L. Sanchez, MD, MPH

*Centro de Investigaciones
Tecnológicas Biomédicas y
Medioambientales
Lima, Peru*

Hyman Scott, MD, MPH

*University of California San Francisco
San Francisco, CA, USA*

Kenneth E. Sherman, MD, PhD

*Harvard University
Boston, MA, USA*

Euphemia L. Sibanda, PhD

*Centre for Sexual Health and HIV
AIDS Research Zimbabwe
Harare, Zimbabwe*

Izukanji Sikazwe, MPH, MBChB

*Center for Infectious Disease
Research
Lusaka, Zambia*

Viviana Simon, MD, PhD

*Icahn School of Medicine at
Mount Sinai
New York, NY, USA*

**Lynda Stranix-Chibanda, MBChB,
MMed**

*University of Zimbabwe
Harare, Zimbabwe*

Alice Tseng, PharmD

*University of Toronto
Toronto, ON, Canada*

Gert U. van Zyl, PhD, MBChB

*Stellenbosch University
Cape Town, South Africa*

Gilles Wandeler, MD

*Bern University Hospital
Bern, Switzerland*

Timothy J. Wilkin, MD, MPH

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

Alan Winston, MD, MBChB

Imperial College London, London, UK

David L. Wyles, MD

*Denver Health Medical Center
Denver, CO, USA*

Robert Yarchoan, MD

*National Cancer Institute
Bethesda, MD, USA*

Markella Zanni, MD

*Massachusetts General Hospital
Boston, MA, USA*

Community Educator Scholarship Application Reviewers

Michael W. Louella, BS

*University of Washington
Seattle, Washington, USA*

Elizabeth S. Magada, MA

*University of Zimbabwe Clinical Trials
Research Centre
Harare, Zimbabwe*

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 16 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Objectives

After attending CROI 2025, participants will be able to do the following as they relate to research in HIV, hepatitis viruses, SARS-CoV-2, and MPXV and their related conditions:

- Describe basic science research advances in the understanding of viral infections, their pathogenesis, and their complications
- List the most recent findings from clinical trials and the implications of these data for state-of-the-art treatment and prevention strategies
- Describe current epidemiologic data on the prevalence of 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 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, such as viral hepatitis, COVID-19, and mpox.

CME Credit Information

Physicians (MD, DO, and international equivalents) are eligible to receive CME credit for their participation in CROI. CME credits can be claimed for premeeting workshops, opening session lectures, plenary lectures, concurrent interactive sessions and symposia, and selected special sessions. CME credits cannot be claimed for oral abstract sessions, themed discussion sessions, certain special 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 16 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (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 gaining ABIM MOC credit.

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

Links to daily evaluations are available on the CROI website, and an overall evaluation with detailed instructions will be provided after the conference. To obtain CME credits, ABIM MOC points, or a Certificate of Participation for CROI, submit the overall evaluation, posttest assessment, and claim forms by April 14, 2025.

A CME/ABIM MOC hour worksheet and other resources can be found on the CROI website.

Disclosure of Financial Relationships

In the interest of maintaining the independence of its continuing medical education activities, the IAS-USA requires all persons with control of educational content (eg, faculty, the Scientific Leadership Board, Governance Board, and program planners) to disclose any financial relationships with ineligible companies (previously defined as "commercial interests") that they have had within the past 24 months. Any real or apparent conflicts of interest of those parties are resolved and mitigated prior to the delivery of the CME activity. Individuals who refuse to disclose financial interests may not participate in IAS-USA CME activities.

The ACCME defines ineligible companies as "those whose primary business is producing, marketing, selling, reselling, or distributing healthcare products used by or on patients."

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. Information about financial relationships with ineligible companies will be available in the slides prior to the presentation of educational content.

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.

General 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, clinical investigation, and public health science has been a major contributor to the success of the meeting. CROI has facilitated the presentation of important discoveries in the field, thereby accelerating progress in HIV and AIDS research. CROI highlights the latest research in HIV, hepatitis viruses, SARS-CoV-2 (including long COVID), MPXV, and their related conditions.

CROI is the preeminent HIV research meeting in the world and includes up to 4000 HIV research and care leaders internationally.

Funding and Grant Support

CROI seeks grants from commercial companies, particularly from companies with competing products. These companies have no input or control over the selection of faculty, the content of the CME portions of the program, or the abstract review and selection process. This support is used to cover some of the costs of the venue, audiovisual services, and other conference expenses. CROI 2025 received grant support commitments from the following:

Platinum

Gilead Sciences, Inc

Merck & Co, Inc

ViiV Healthcare

Bronze

Hologic, Inc

Theratechnologies, Inc

Affiliated and Proximate Activities

Certain organizations (eg, commercial companies and their agents, not-for-profit groups, research study groups, and government agencies) have been approved to host Affiliated and Proximate Activities occurring outside CROI session times. Affiliated and Proximate Activities are not sponsored, endorsed, or supported by the IAS–USA, the CROI foundation, or CROI 2025. An Affiliated or Proximate Activity is any activity, event, or meeting held at any time from 3 days before (Thursday, March 6) through 2 days after (Friday, March 14) CROI 2025, and targeted toward or including any registrants of CROI.

Sponsoring organizations, supporting organizations, organizers, and attendees of meetings that violate the Guidelines for Affiliated and Proximate Activities may be prohibited from holding an Affiliated or Proximate Activity at future CROI conferences, be subject to fines, or have their current registration revoked.

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 think 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 Moscone North Lobby. Please bring government-issued photo identification that clearly shows your name. CROI badges must be worn at all times during the conference to gain entry to all official meeting activities, including the poster sessions. Attendees will not be admitted to the meeting spaces without their CROI badge.

CROI login credentials may only be used by the registrant and cannot be transferred or shared with others. Using another individual's login credentials to gain access to the Mobile App, electronic materials, or other resources is strictly prohibited and constitutes a violation of CROI policies, as is sharing or using another individual's conference badge to gain access to the venue.

DO NOT LOSE YOUR BADGE. Payment equivalent to the full registration fee is required to replace a lost badge.

Conference Etiquette

Communications between conference attendees, speakers, and staff should be respectful and focused on scientific content. The Conference Organizers will be vigilant in addressing any abusive, obscene, inappropriate, or defamatory language, whether in person or on virtual platforms.

Please ensure that all mobile devices are turned off or set to SILENT mode in session rooms. In consideration of 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.

Out of respect for the presenters and conference attendees, children are not permitted in meeting rooms, including the poster halls. Visit the CROI website for local childcare options. Please note that the conference is neither responsible nor liable for any childcare arrangement or services.

COVID-19 Policy

Although mask wearing is not mandatory, we are mask-friendly and support anyone who wishes to wear a mask. Prior to your departure, we encourage you to take a COVID-19 test to ensure it is safe to travel. Please follow CDC guidelines with regard to appropriate precautions and self-isolation for COVID-19, influenza, and other illnesses.

Accessibility Services

CROI endeavors to comply fully with the standards of the Americans with Disabilities Act (ADA) to ensure that attendees have equal access to the many opportunities and activities at the conference. Please visit the General Information desk in Moscone North for accessibility information and services, including:

- Designated handicapped parking
- Seating for attendees with mobility needs
- Listening devices for individuals who are hard of hearing

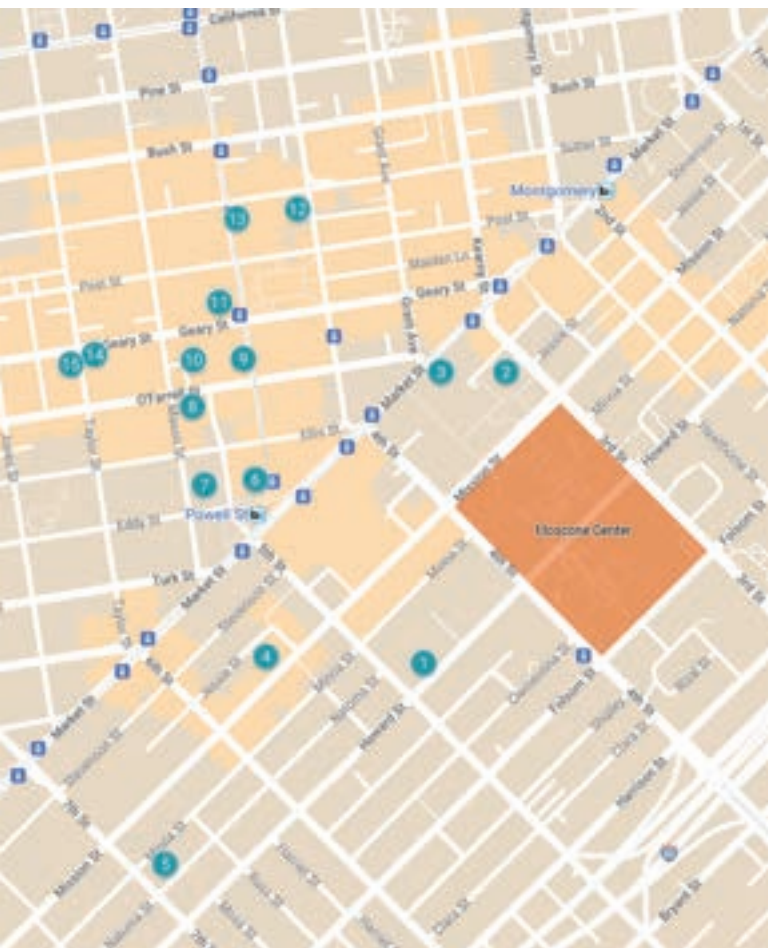
Emergency Services

In the event of an emergency, please notify Moscone Convention Center Security by dialing **511** on any white courtesy phone, or by calling **+1 (415) 978-3511**. CROI staff with a 2-way radio can also assist in an emergency. Moscone Convention Center requests that guests do not contact 911 directly, when possible, to ensure the fastest response time.

Emergency medical services are on the lower level of Moscone North, located under the escalators near Hall E. Please contact Convention Center Security directly if a medical emergency occurs.

CROI Hotels

- 1 InterContinental San Francisco, an IHG Hotel**
888 Howard Street, San Francisco, CA 94103 | (415) 616-6500
- 2 Hyatt Regency San Francisco Downtown SOMA**
50 3rd Street, San Francisco, CA 94103 | (415) 974-6400
- 3 Four Seasons Hotel San Francisco**
757 Market Street, San Francisco, CA 94103 | (415) 633-3000
- 4 Hampton Inn SF Downtown**
942 Mission Street, San Francisco, CA 94103 | (415) 546-3110
- 5 SoMa House Hotel**
121 7th Street, San Francisco, CA, USA 94103 | (415) 626-0200
- 6 Axiom Hotel**
28 Cyril Magnin Street, San Francisco, CA 94102 | (415) 392-9466
- 7 Parc55 San Francisco - a Hilton Hotel**
55 Cyril Magnin Street, San Francisco, CA 94102 | (415) 392-8000
- 8 Hotel Nikko San Francisco**
222 Mason Street, San Francisco, CA 94102 | (415) 394-1111
- 9 The Barnes San Francisco, Tapestry Collection by Hilton**
225 Powell Street, San Francisco, CA 94102 | (415) 397-7700
- 10 King George Hotel**
334 Mason Street, San Francisco, CA 94102 | (415) 781-5050
- 11 The Westin St. Francis San Francisco on Union Square**
335 Powell Street, San Francisco, CA 94102 | (415) 397-7000
- 12 Grand Hyatt San Francisco**
345 Stockton Street, San Francisco, CA 94108 | (415) 398-1234
- 13 Beacon Grand, A Union Square Hotel**
450 Powell Street, San Francisco, CA 94102 | (844) 223-3713
- 14 The Clift Royal Hotel Sonesta San Francisco**
495 Geary Street, San Francisco, CA 94102 | (415) 775-4700
- 15 The Marker Union Square San Francisco**
501 Geary Street, San Francisco, CA 94102 | (415) 292-0100



Hotels contracted after February 10, 2025, may not be reflected on this map or preceding list. Please visit the CROI website for updates and additional information.

Technology and Connectivity

Log into the CROI conference website at www.CROIconference.org/login/ to access the CROI 2025 Mobile App, abstract database, and live streaming and on-demand webcasts. Follow the instructions on the CROI conference website to reset your password or update any contact information.

WiFi Access at the Conference

Complimentary WiFi access is provided by Moscone North. Network information is as follows:

Network name: **CROI2025**

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: **2025sat!**

Sunday password: **2025sun!**

Monday password: **2025mon!**

Tuesday password: **2025tues!**

Wednesday password: **2025wed!**

If you are having a problem with WiFi access, please visit the General Information desk.

Conference App

The CROI 2025 Mobile App has many features to enhance your conference experience, including options to:

- View abstracts and electronic posters
- Find information about speakers and other CROI attendees
- Create a personal calendar of the sessions you plan to attend
- Receive announcements with the latest changes to the CROI program

The Mobile App is compatible with iOS and Android devices. Search “CROI 2025” in your mobile device app store or scan the QR code for a direct link via the CROI website and for login instructions. Access is restricted to registered attendees.



Website

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

Abstracts from CROI 2025 can be viewed and downloaded by registered attendees via the Abstract eBook or the searchable database. Abstracts and electronic posters from CROI 2014 to 2024 are publicly available at www.CROIconference.org/abstracts/search-abstracts

Live Streaming and On-Demand Webcasts

Plenary lectures, workshop sessions, concurrent interactive symposia, oral abstract sessions, and themed discussions are streamed live and are available as on-demand webcasts within 24 hours of the end of the relevant session for registered attendees only.

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

Abstract Process

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 complete coauthor information, including email addresses.

Special Notes on Abstract Content

Tables and Figures

Figures, tables, or other graphics that exceeded guidelines around length, size, complexity, and legibility were removed from consideration in the review process and, if the abstract was accepted, from inclusion in the Abstract eBook, CROI 2025 Mobile App, and abstract database. For more information and examples, please visit www.CROIconference.org/common-reasons-for-removal-of-table-and-figure/

People-First Language and the Use of Appropriate Terminology

CROI strongly advocates for the use of and strives to incorporate “people-first” language and acceptable terminology in all CROI-related written materials and presentations. All abstract authors and presenters should apply the following basic principles of appropriate language and terminology, including:

- Describe populations as “people, persons, or individuals with HIV” rather than “HIV-infected people, persons, or individuals.”
- Do not characterize people by their disease, infection, or condition; instead, use “people who inject drugs,” “individuals with cirrhosis,” or other similar constructs.
- Do not describe people enrolled in research studies or clinical trials as “subjects” or “patients.” Acceptable terms are research or clinical trial “participants” or “volunteers.”
- Ensure the correct use of the terms “sex” (refers to biologic sex at birth) and “gender” (refers to psychosocial or cultural identity). Appropriate corollary terms are “cisgender” (people whose gender matches their sex assigned at birth) and “transgender” (people whose gender does not match the sex assigned at birth).
- Do not use the term “sterilizing” when referring to HIV cure; it triggers a negative perception in many people due to historic sterilization campaigns and may discourage participation in research.

Presenting Author Responsibilities

The presenting author is responsible for presenting the abstract at the conference; poster presenters must be present at the poster during the entire assigned session.

Embargo Policies and Social Media

All research presented at CROI 2025 is embargoed until the conclusion of the study’s presentation at the conference or after presentation at a press conference. For example, if a study is presented from 2:15 PM to 2:23 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 2:23 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 2025 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, X [formerly Twitter], Instagram, Facebook, etc). 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

Abstracts were reviewed for the quality and originality of the work and scored numerically. Accepted abstracts were subsequently designated for oral presentation, poster presentation, or as a themed discussion. Late-breaking abstract review included an assessment of the late-breaking nature of the work (eg, distinction from a late submission, as it must meet a high threshold of scientific merit).

For more information, including common reasons for abstract rejection, visit the Abstract Guidelines page of www.CROIconference.org

Statistics for Abstracts

Abstracts and Presentation Statistics for CROI 2025

Description	Number	Total
General Abstracts Submitted	1875	
General Abstracts Accepted	1076	
Late-Breaking Abstracts Submitted	285	
Late-Breaking Abstracts Accepted	94	
Total Abstracts Submitted		2160
Total Abstracts Accepted		1170
Oral Abstract Presentations	106	
Themed Discussion Presentations	59	
Poster Presentations	1064	

Scholarship Awardee Information

CROI is committed to supporting new and early-career investigators, as well as community educators and international investigators working in resource-limited countries who would otherwise be unable to attend CROI. Through their applications and letters of recommendation, these awardees have shown they will greatly benefit from attending CROI. New Investigator and International Scholarship recipients are presenting authors on their respective abstracts.

New Investigator Scholarship Awardees



Presentations by New Investigator Scholarship Awardees are indicated with the preceding icon throughout the program.

Scott M. Hammer Workshop for New Investigators and Trainees

Widely considered the most informative and comprehensive session at CROI, this workshop highlights advances in virology and immunology; in the prevention, treatment, and complications of HIV and sexually transmitted infections; and in HIV cure research. Scholarship awardees are required to attend the entire workshop.

Meet the Luminary Sessions

Small-group sessions provide the unique opportunity to meet and network with a leading scientific expert (eg, a named lecturer or plenary speaker at CROI) and to ask one-on-one questions in an intimate setting. **Note: Sign-up in advance is required.**

Monday, March 10, Meet the Luminary Sessions include:

- Steven G. Deeks
- Frederic D. Bushman
- Ole S. Sogaard
- Adeeba Kamarulzaman
- Chris Beyrer

Tuesday, March 11, Meet the Luminary Sessions include:

- Landon Myer
- Bali Pulendran
- Roger Paredes
- Rajesh T. Gandhi
- John Kinuthia

Poster Walks

Poster Walks promote a rich scientific discourse between scholarship awardees, poster presenters, and CROI Scientific Program Committee members as they discuss a curated list of presentations in basic science, clinical research, epidemiology, and public health. Each New Investigator Scholarship Awardee can attend a single Poster Walk session. **Note: Sign-up in advance is required.**

Monday, March 10, Poster Walk Leaders include:

- Theodora Hatzioannou
- Katharine J. Bar
- Serena S. Spudich
- Jonathan Z. Li
- Richard E. Chaisson
- Judith S. Currier
- David L. Thomas
- Carlos del Rio
- Jean-Michel Molina

Tuesday, March 11, Poster Walk Leaders include:

- John M. Coffin
- Frank Kirchhoff
- Lishomwa Ndhlovu
- Sharon R. Lewin
- Huldrych F. Günthard
- Michael S. Saag
- Jennifer Jao
- Monica Gandhi
- Andrew Mujugira

Wednesday, March 11, Poster Walk Leaders include:

- Stuart J. D. Neil
- Galit Alter
- Douglas D. Richman
- Kimberly Scarsi
- Graeme Meintjes
- Annemarie M. Wensing
- Ruanne Barnabas
- Carlos del Rio

New Investigator Networking Area

Located in the Poster Hall, the New Investigator Networking Area provides a central meeting point and designated networking area for New Investigator Scholarship Awardees.

Community Educator Scholarship Awardees

Scott M. Hammer Workshop for New Investigators and Trainees

Scholarship awardees are required to attend the entire workshop. Please refer to the description above for further details.

Virtual Community Networking Breakfast Meetings

Coordinated by the CROI Community Liaison Subcommittee, these virtual morning meetings feature researchers and advocates discussing some of the most consequential science that will be presented at CROI that day.

Meet the Luminary Sessions

Small-group sessions for Community Educator Scholarship Awardees provide the unique opportunity to network with a leader in the field (eg, Community Educator mentor, or Program Committee member) and ask one-on-one questions. **Note: Sign-up in advance is required.**

Monday, March 10, Meet the Luminary Session: Rebecca Denison

Tuesday, March 11, Meet the Luminary Session: Monica Gandhi

Community Poster Walks

Community Educator Scholarship Awardees can attend a single Poster Walk session. Please refer to the description above for details.

Note: Sign-up in advance is required.

Monday, March 10, Community Poster Walk Leaders:

Grace Kumwenda and Susan P. Buchbinder

Tuesday, March 11, Community Poster Walk Leaders:

Udom Likhitwonnawatt and Connie L. Cellum

Community Educator Scholarship Awardee Networking Area

A designated area in the Poster Hall provides a central meeting point and designated networking area for Community Educator Scholarship Awardees and other HIV community representatives and advocates.

The background of the entire image is a grayscale photograph of a traditional Chinese street scene. Several large, round, ribbed lanterns with tassels are hanging from wires. In the background, a building with a traditional Chinese architectural style, including a tiled roof and a decorative gate, is visible. The text is overlaid on a dark gray horizontal band across the middle of the image.

SUNDAY

MARCH 9, 2025

SUNDAY, MARCH 9, 2025

Workshop-01 | Scott M. Hammer Workshop for New Investigators and Trainees**8:30 AM - 12:30 PM • San Francisco Ballroom B CME**

Objectives: At the completion of the session, participants will be able to describe the novel research presented at CROI 2025 in virology, HIV immunology, cure, HIV and STI prevention, and noninfectious complications of HIV and its treatments, as well as the important role of the community in research design and implementation.

Target Audience: This session is directed to new investigators and trainees (eg, postdoctoral fellows, physician fellows, undergraduate students, and graduate students). Attendance is mandatory for all scholarship recipients, but the workshop is open to all CROI attendees.

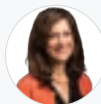
Level of Knowledge: It is assumed that participants have been conducting active research in the field for 1 to 3 years.

Moderators

Katharine J. Bar
University of
Pennsylvania
Philadelphia, PA, USA



Raphael J. Landovitz
University of California
Los Angeles
Los Angeles, CA, USA



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

1 Welcome and Session Overview for the Scott M. Hammer Workshop for New Investigators and Trainees

8:30 AM

8:31 AM Virology: State of the Art and Navigating Presentations at CROI 2025
Stuart J.D. Neil, King's College London, London, UK



9:10 AM Immunology: State of the Art and Navigating Presentations at CROI 2025
Lishomwa Ndhlovu, Weill Cornell Medicine, New York, NY, USA



9:50 AM Networking Break 1

10:10 AM Prevention of HIV and STIs: State of the Art and Navigating Presentations at CROI 2025
Susan P. Buchbinder, San Francisco Department of Public Health, San Francisco, CA, USA



10:50 AM **HIV Treatment and Complications of HIV Disease: State of the Art and Navigating Presentations at CROI 2025**

Judith S. Currier, *University of California Los Angeles, Los Angeles, CA, USA*



11:30 AM **Networking Break 2**

11:50 AM **HIV Cure Research: State of the Art and Navigating Presentations at CROI 2025**

Joseph J. Eron, Jr, *University of North Carolina Chapel Hill, Chapel Hill, NC, USA*



Workshop-02 | Frontiers in Laboratory Technologies

2:00 PM - 4:00 PM • San Francisco Ballroom C **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- The biomechanical properties of the HIV capsid at the atomic level and how capsid inhibitors change HIV capsid stability
- How to resolve RNA structure at the single-cell level and decipher the heterogeneity of biology
- The resolution and robustness of 3-dimensional spatial transcriptomic methods, such as Open-ST, for single-cell profiling of tissues
- Advances in the next-generation genome editing method, bridge RNA, versus clustered regularly interspaced short palindromic repeats (CRISPR)-based editing

Target Audience: This session is directed at early-stage investigators interested in understanding the impact of novel laboratory technologies.

Level of Knowledge: It is assumed that the participants are familiar with the basics of laboratory technologies in HIV virology, immunology, and vaccine science.

Moderators



Ya-Chi Ho
*Yale University
New Haven, CT, USA*



Frank Kirchhoff
*Ulm University
Medical Center
Ulm, Germany*

2 **Breaking the HIV Capsid: Atomic Force Microscopy Visualization**

2:00 PM **Juan R. Perilla**, *University of Delaware, Newark, DE, USA*



3 **Advances in Single-Cell Multiomic Profiling and Its Use in Virology and Immunology**

2:30 PM **Alexander Marson**, *University of California San Francisco, San Francisco, CA, USA*



4

3:00 PM

Visualizing Tissues: State-of-the-Art Single-Cell 3D Spatial Transcriptomics

Nikolaus Rajewsky, *Berlin Institute for Medical Systems Biology, Berlin, Germany*



5

3:30 PM

Advances in CRISPR-Cas Editing Methods and Their Use in Virology and Immunology

Angela R. Wahl, *University of Alabama at Birmingham, Birmingham, AL, USA*



Workshop-03 | Case-Based Workshop on the Liver and Its Complications

2:00 PM - 4:00 PM • San Francisco Ballroom D **CME**

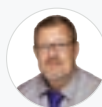
Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- New nomenclature, diagnosis, staging, and treatment options for liver steatosis and steatohepatitis, including coexisting metabolic comorbidities and alcohol use
- Outcomes of persons with moderate hepatitis B virus replication with little to no necroinflammation and the indications for and potential benefits of antiviral treatment
- Whom, how, when, and how long to screen for hepatocellular carcinoma

Target Audience: This session is directed to clinicians and clinical researchers with an interest in hepatitis and liver disease.

Level of Knowledge: It is assumed that the participants are familiar with general clinical principles, physical findings, and diagnostic testing as they relate to liver disease.

Moderators



Jürgen K. Rockstroh

*Bonn University Hospital
Bonn, Germany*



Phyllis Tien

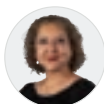
*University of California
San Francisco
San Francisco, CA, USA*

6

2:00 PM

Liver Steatosis: New Nomenclature, New Tests, and New Drugs

Mandana Khalili, *University of California San Francisco, San Francisco, CA, USA*

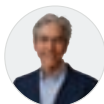


7

2:40 PM

Hepatitis B in the Gray Zone: Personalizing Treatment and Monitoring

Paul Y. Kwo, *Stanford University, Stanford, CA, USA*

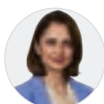


8

3:20 PM

Liver Cancer Surveillance: Who, How, When, and for How Long

Fasiha Kanwal, *Baylor College of Medicine, Houston, TX, USA*



Workshop-04 | Clinical Trial Design and Analysis2:00 PM - 4:00 PM • San Francisco Ballroom A **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- Study designs to evaluate new prevention interventions in the context of highly effective preexposure prophylaxis
- How machine learning can be used to focus HIV testing and prevention interventions
- Challenges in using pharmacometric targets to understand therapeutic dosing

Target Audience: This session is directed to investigators who are interested in unique clinical and epidemiologic trial design and interpretation.

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

Moderators**Susan P. Buchbinder**

*San Francisco
Department of Public
Health
San Francisco, CA, USA*

**Richard E. Chaisson**

*The Johns Hopkins
University School of
Medicine
Baltimore, MD, USA*

9

2:00 PM

Using Machine Learning to Focus HIV Prevention Interventions

Carlos S. Saldana, *Emory University,
Atlanta, GA, USA*

**10**

2:40 PM

HIV Prevention Efficacy Trial Design: Lessons From Recent Trials

Holly Janes, *Fred Hutchinson Cancer Center,
Seattle, WA, USA*

**11**

3:20 PM

How Much Is Enough: The Importance of Pharmacokinetic Targets

Paolo Denti, *University of Cape Town,
Cape Town, South Africa*



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

Workshop-05 | Workshop on Antiretroviral Therapy: Case-Based Panel Discussion

2:00 PM - 4:00 PM • San Francisco Ballroom B **CME**

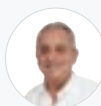
Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- Options for initial antiretroviral therapy (ART) for people with HIV
- Challenges in managing ART in persons with drug resistance
- Appropriate ART in persons with comorbidities and conditions

Target Audience: This session is directed to clinicians treating persons with HIV.

Level of Knowledge: It is assumed that the participants are familiar with the basics of antiretroviral therapy.

Moderators



Pedro Cahn
*Fundación Huésped
Buenos Aires, Argentina*



Jennifer F. Hoy
*Alfred Health
Melbourne, Australia*

12

2:00 PM

Case Presentations With Panel Discussion, Plus Questions and Answers From the Audience

Panelists

Jose R. Arribas, *Hospital La Paz Institute for
Health Research, Madrid, Spain*



Rachel A. Bender Ignacio, *University of
Washington, Seattle, WA, USA*



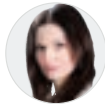
Cecilia Kanyama, *University of North Carolina
Project-Malawi, Lilongwe, Malawi*



Juan Sierra-Madero, *Instituto Nacional de
Ciencias Médicas y Nutrición Salvador Zubiran,
Mexico City, Mexico*



Oana Sandulescu, *Carol Davila University of
Medicine and Pharmacy, Bucharest, Romania*



Opening-01 | Opening Session5:00 PM - 7:00 PM • Hall E **CME****Session Hosts****Diane V. Havlir**, *University of California San Francisco, San Francisco, CA, USA***Nicolas Chomont**, *Université de Montréal, Montreal, Canada***Wafaa M. El-Sadr**, *ICAP at Columbia University, New York, NY, USA*

5:00 PM **Welcome From the Conference Chair**
Diane V. Havlir, *University of California San Francisco, San Francisco, CA, USA*

**Bernard Fields Lecture**

The Bernard Fields Lecture, named in tribute to the exemplary work of the esteemed microbiologist and virologist Bernard N. Fields, is given during the Opening Session by a basic scientist recognized for their important and relevant contributions to the field of virology and viral pathogenesis.

5:10 PM **Introduction to the Bernard Fields Lecture**
Katharine J. Bar, *University of Pennsylvania, Philadelphia, PA, USA*



13
 5:15 PM **Bernard Fields Lecture: How Integration Site Analyses Inform HIV Pathogenesis, Persistence, and Gene Therapy**
Frederic D. Bushman, *University of Pennsylvania, Philadelphia, PA, USA*

**Martin Delaney Presentation**

The Martin Delaney Presentation, named in honor of the exceptional advocacy work of Martin Delaney, recognizes the important role of community advocacy and engagement in research.

5:40 PM **Introduction to the Martin Delaney Presentation**
Dawn Averitt, *The Well Project, Women's Research Initiative on HIV/AIDS, South Strafford, VT, USA*



14
 5:45 PM **Martin Delaney Presentation: 40+ Years of HIV: What's Changed, What Hasn't, What Shouldn't, What Must**
Rebecca Denison, *Women Organized to Respond to Life-threatening Diseases (WORLD), Berkeley, CA, USA*

**N'Galy-Mann Lecture**

The N'Galy-Mann Lecture recognizes an HIV/AIDS researcher for their 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 in Africa.

6:10 PM **Introduction to the N’Galy-Mann Lecture**
Wafaa M. El-Sadr, *ICAP at Columbia University,*
New York, NY, USA

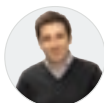


15
 6:15 PM **N’Galy-Mann Lecture: When Science Alone
 Is Not Enough: The Intersection of Drug Use,
 Public Health, and Policy**
Adeeba Kamarulzaman, *Monash University*
Malaysia, Kuala Lumpur, Malaysia



6:40 PM **Special Presentation by the San Francisco Gay Men’s Chorus**

6:59 PM **Opening Session Conclusion and Welcome
 to the Opening Reception**
Nicolas Chomont, *Université de Montréal,*
Montreal, Canada



MONDAY

MARCH 10, 2025



MONDAY, MARCH 10, 2025

Plenary-01 | Monday Plenary Session

8:30 AM - 9:30 AM • Hall E **CME**

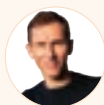
Session Hosts

Peter W. Hunt, *University of California San Francisco, San Francisco, CA, USA***Sharon L. Hillier**, *Magee-Womens Hospital of UPMC, Pittsburgh, PA, USA*

Speakers

8:30 AM **CROI Program Committee Chair Welcome to Monday**
Diane V. Havlir, *University of California San Francisco, San Francisco, CA, USA*

16
 8:35 AM **HIV Cure: A Translational Research Perspective**
Ole S. Søgaard, *Aarhus University, Aarhus, Denmark*



17
 9:05 AM **The Global HIV/AIDS Pandemic: Where Are We Now?**
Chris Beyrer, *Duke Global Health Institute, Durham, NC, USA*



Oral Abstract Session-01 | HIV Reservoirs and Cure Strategies

10:00 AM - 12:00 PM • San Francisco Ballroom B

Moderators



Tricia Burdo
Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, USA



Maria Salgado
IrsiCaixa, Badalona, Spain

10:00 AM **Introduction of Speakers (Part 1)**

100
 10:05 AM **5' Leader Defects in HIV Plasma Clones Drive 80% of Persistent Viremia on Long-Term ART**
 Julia R. Box, Filippo Dragoni, Angelica Camilo-Contreras, Feng Yun Yue, Vitaliy Matveev, Eileen Scully, Joyce L. Jones, Mario Ostrowski, Colin M. Kovacs, **Francesco R. Simonetti**

101
 10:13 AM **BACH2-Driven Tissue Resident Memory Programs Promote HIV-1 Persistence**
 **Yulong Wei**, Haocong Katherine Ma, Michelle E. Wong, Liza Konnikova, Pablo Tebas, Ricardo Morgenstern, Emmanouil Papasavvas, Luis J. Montaner, Ya-Chi Ho

102
 10:21 AM **Longitudinal Co-Evolution of HIV-1 Reservoir Cells and Immune Effector Cells During Long-Term ART**
Weiwei Sun, Ce Gao, Toong Seng Tan, Ciputra A. Hartana, Rebecca Hoh, Melissa Buitrago, Douglas Robbins, Viva Tai, Michael Peluso, Steven G. Deeks, Xu G. Yu, Mathias Lichterfeld



103

10:29 AM

AZD5582 and Venetoclax Reduce SIV Reservoirs in ART-Suppressed Macaques

Benedict Ukhueduan, Elizabeth Lampros, Soham Sonawane, Danielle Lin, Kedan Endrias, Zain Siddiqi, Lakshita Lopez Lopez, Amanda Schauer, Lauren A. Tompkins, Mackenzie Cottrell, Jeffrey D. Lifson, Brandon Keele, Ann M. Chahroudi

10:37 AM

Questions and Answers (Part 1)

10:55 AM

Introduction of Speakers (Part 2)

104

11:00 AM

HIV GAG x CD3 Soluble TCR Bispecific Reduces the Active HIV Reservoir in a Phase I/II Trial

Lucy Dorrell, Marta Boffito, Santiago Moreno, Julie Fox, Borja Mora Peris, Linos Vandekerckhove, Alison Uriel, Matthew Adam, Frank Post, Vicente Estrada, Haseeb Rahman, Adel Benlahrech, **Beatriz Mothe**, Sarah Fidler, Sabine Allard

105

11:08 AM

Evaluation of 2 bNAbs Plus Vesatolimod in Early-Treated South African Women With HIV-1 During ATI

Krista Dong, Villeshni Asari, Vaneshree Govender, Vanessa Pillay, Siphehile Ngcobo, Nasreen Ismail, Lucio Gama, Elena Vendrame, Megha Mehrotra, Xiang Liu, Lisa Selzer, Mary Wire, Devi Sengupta, **Thumbi Ndung'u**

106

11:16 AM

**A Single Infusion of CCR5-/- CD4 Tscm Cells Promotes Control of SIV Upon ATI**

Ashish A. Sharma, Mojahidul Islam, Justin Harper, Joumana Zeidan, Muhammad Bilal Latif, Kevin Nguyen, James Auger, Hannah Flores, Amelia C. Wilkes, Rachelle L. Stammen, Mirko Paiardini, Steven G. Deeks, Rafick P. Sekaly, for the RID-HIV Collaboratory

107

11:24 AM

**RIO: A Randomised Placebo-Controlled Study of 2 LS-bNAbs in People Treated in Early HIV**

Sarah Fidler, Ming J. Lee, Simon Collins, Louise-Rae Cherrill, Emanuela Falaschetti, Penny Zacharopoulou, Mohammed Altaf, Timothy Tipoe, Graham Taylor, Marcilio Jorge Fumagalli, Kelly Seaton, Marina Caskey, Michel Nussenzweig, John Frater, for the RIO Trial Investigators

11:32 AM

Questions and Answers (Part 2)

Oral Abstract Session-02 | The Coinfections: Hepatitis and TB

10:00 AM - 12:00 PM • San Francisco Ballroom C

Moderators

James C. M. Brust
Albert Einstein College
of Medicine
Bronx, NY, USA



Kimberly Workowski
Emory University
Atlanta, GA, USA



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

10:00 AM **Introduction of Speakers (Part 1)**

108 Trends in Hepatitis C Virus (HCV) Infection Incidence Among PWH Engaged in Care in the US: 1995-2023

10:05 AM

Yotam Arens, Laura Barnford, Edward Cachay, L. Sarah Mixson, Joseph A. Delaney, Mari Kitahata, Claire Farel, George Yendewa, Kenneth Mayer, Richard Moore, April C. Pettit, Robert Gross

109 HIV Decreases Both Hepatitis B Antibody Titer and Neutralization After Spontaneous HBV Control

10:13 AM

Che-Min Lo, Maraake Taddese, Ernesto Marques, Mallory Witt, Steven Wolinsky, Eric Seaberg, Justin Bailey, **Chloe Thio**, for the MACS/WIHS Combined Cohort Study (MWCCS)

110 HBV Care Continuum and Associated Factors in Rwanda: A Population-Based Study From 2016-2023

10:21 AM



Jean Damascene Makuza, Dahn Jeong, Michael Law, Joseph Puyat, Alnoor Ramji, Phyummar Soe, Richard L. Morrow, Georgine Cua, Héctor A. Velásquez García, Marie Paul Nisingizwe, Janvier Serumondo, Albert Tuyishime, Naveed Z. Janjua

111 Intrahepatic Transcriptomics in HBV-HIV Co-Infection Uncover Host Responses to HBV Transcription

10:29 AM



Che-Min Lo, Ruzhang Zhao, Wentao Zhan, Hongkai Ji, Chloe Thio, Ashwin Balagopal

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

112 Highly Durable Seroprotection With HepB-CpG Vaccine in People With HIV (PWH): ACTG A5379 (BEeHive)

11:00 AM



Kristen Marks, Minhee Kang, Triin Umbleja, Andrea Cox, Anchalee Avihingsanon, Patcharaphan Sugandhavesa, Leolin Katsidzira, Josaphat Kosgei, Hugo Perazzo, Jennifer Price, Stephanie R. Caruso, Kevin Knowles, Beverly Alston-Smith, Parita Rathod, Kenneth E. Sherman, for the ACTG A5379 (BEeHive) Study Team

113 Epigenetic Age Predictors of Semaglutide-Related Liver Fat Changes in People With HIV

11:08 AM

Michael J. Corley, **Alina Pang**, Doug Kitch, Amy Kantor, Fred R. Sattler, Pablo Belaunzarán-Zamudio, Todd Brown, Alan Landay, Kristine M. Erlandson, Jordan E. Lake

114 Supplemental High-Dose Rifampicin and Levofloxacin for Inpatients With Disseminated HIV-TB

11:16 AM

Graeme Meintjes, Phiona Namale, David Barr, Linda Boloko, Marcia C. Vermeulen, Bryony Simmons, Andrew Hill, Sean Wasserman, Kate Haigh, Freedom Gumedze, Ayanda T. Mnguni, Thomas Crede, Yakoob Vallie, Gary Maartens, Charlotte Schutz, for the New Strat-TB Study Group

115 Casual Contact in Community Settings Explains Majority of TB Transmission in South Africa

11:24 AM

Neel R. Gandhi, Hikari Yoshii, Kogieleum Naidoo, Keeren Lutchminarain, Linrui Tang, Melanie Chitwood, Shaheed V. Omar, Fay Willis, Angie Campbell, Theodore Cohen, Barun Mathema, James C. M. Brust, Sarita Shah, for the CONTEXT Study Team

116 DOLPHIN-Moms: Pharmacokinetics of Dolutegravir and HIV Viral Suppression With 1HP or 3HP in Pregnancy

11:32 AM



Jyoti Mathad, Sylvia LaCourse, Belen P. Solans, Jayajothi Moodley, Vaneshree Govender, Tumelo Moloantoa, Marije Van Schalkwyk, Ethel Weld, Letha Varughese, Kelly E. Dooley, Amita Gupta, Radojka M. Savic, Gavin Churchyard, Richard E. Chaisson, for the DOLPHIN-Moms Study

11:40 AM Questions and Answers (Part 2)**Oral Abstract Session-03 | Maternal-Child Health and Treatment of Malignancies**

10:00 AM - 12:00 PM • San Francisco Ballroom A

Moderators

Friday Saidi
University of North
Carolina Project-Malawi
Lilongwe, Malawi



Diana M. Gibb
University College
London
London, UK

10:00 AM Introduction of Speakers (Part 1)**117 Maternal Tenofovir Prophylaxis With Active Immunization to Prevent Infant Hepatitis B**

10:05 AM

Gonzague Jourdain, Nicole Ngo-Giang-Huong, Camlin Tierney, Nicolas Salvadori, Mauricio Pinilla, Touy Chanthalangsy, Soukdalay Sengsilivanh, Khamla Choumlivong, Jullapong Achalapong, Prateung Liampongsabuddhi, Pra-Ornsuda Sukrakanchana, Suriyan Tanasri, Stanislas Pol, Valy Keoluanghot, Suchada Jiamsiri, for the iTAP Study Group

118 Efficacy of Home Visits for Pregnant Couples to Promote Couple HIV Testing and Family Health

10:13 AM

Lynae Darbes, Zachary A. Kwena, Kevin Owuor, Abigail Hatcher, Anna Helova, Thomas Braun, Evelyne Owengah, Moses Okombo, Van Nghiem, Harsha Thirumurthy, Elizabeth A. Bukusi, Janet M. Turan

119 Dolutegravir Does Not Reduce Levonorgestrel or Medroxyprogesterone Acetate Concentrations in WLWH

10:21 AM



Rebecca Ryan, Bame Bame, Aamirah Mussa, Mbabi Bapabi, Neo Moshashane, Imogen Mechie, Samuel Ensor, Neo Ndlovu, Laura J. Else, Laura Dickinson, Alieu Amara, Andrew Davison, Ava Avalos, Saye Khoo, Chelsea Morroni

120
10:29 AM **Lenacapavir Pharmacokinetics, Safety, and Efficacy in Adolescents and Adults in PURPOSE 1**
Katherine Gill, Nkosiphile Ndlovu, William Brumskine, Manjeetha Jaggernath, Zwaletu Zwane, Yang Zhao, John Ling, Priyanka Arora, Renu Singh, Alexander Kintu, Christoph Carter, Moupali Das, Disebo Potloane

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

121
11:00 AM **Assessing IIT and Mortality Among CLHIV <15 yo in PEPFAR-Supported Countries, FY21 - FY24**
Michelle Yang, Christine Toolin, Rituparna Pati, Hilary Wolf, Emily K. Dokubo, Stephanie Hackett

122
11:08 AM **Multidose PK/Safety of Dolutegravir Dispersible Tablets & Oral Films in Neonates: PETITE-DTG Study**
Adrie Bekker, Nicolas Salvadori, Helena Rabie, Samantha du Toit, Kanchana Than-in-at, Maria Groenewald, Edmund Capparelli, Andrew Owen, Ratchada Cressey, Marc Lallemand, Mark Cotton, Tim Cressey, for the PETITE-DTG Study Team

123
11:16 AM **Genotypic Resistance in the African Paediatric CHAPAS-4 Trial of Second-Line Antiretroviral Therapy**
 **Alasdair Bamford**, Ellen White, Cissy Kityo, Mutsa Bwakura-Dagarembizi, Chishala Chabala, Abbas Lugemwa, Wedu Ndebele, Bwendo Nduna, Mary Nyathi, Veronica Mulenga, Mwate Mwamabazi, Anna Turkova, Victor Musiime, Alexander J. Szubert, Diana M. Gibb, for the CHAPAS-4 Trial Team

124
11:24 AM **Abemaciclib, a CDK4/6 Inhibitor, in HIV-Associated and HIV-Negative Kaposi Sarcoma**
 **Jose R. Mercado-Matos**, Kathryn Lurain, Anaida Widell, Irene Ekwede, Ijeoma Agwu, Margaret Namubiru, Thomas Odeny, Crystal Lu, Seth Steinberg, Denise Whitby, Robert Yarchoan, Ramya Ramaswami

125
11:32 AM **Differences in Treatment and Overall Survival in People With and Without HIV and Oropharynx Cancer**
Elizabeth Chiao, Christine M. Hartman, Devesh Malgave, Jennifer R. Kramer, Adovich S. Rivera, Wendy Leyden, Katherine Pak, Peter A. Richardson, Efthalia Zafeiropoulou, Yongquan Dong, Rulin C. Hechter, Donna L. White, Angela Mazul, Lori C. Sakoda, Michael Silverberg

11:40 AM **Questions and Answers (Part 2)**

Oral Abstract Session-04 | Evolution of HIV and Mpox Epidemics

10:00 AM - 12:00 PM • San Francisco Ballroom D

Moderators



Amanda D. Castel
The George Washington
University
Washington, DC, USA



**Mayara Secco
Torres da Silva**
Instituto Nacional de
Infecologia Evandro
Chagas
Rio de Janeiro, Brazil

10:00 AM **Introduction of Speakers (Part 1)**

126 **Comparing Empirical HIV Incidence With UNAIDS Estimated Incidence Declines in Sub-Saharan Africa**

10:05 AM

Oliver Stevens, Elphas Okango, Collins Iwuji, Richard Hayes, Daniel Kwaro, Victor Ssempijja, Louisa Moorhouse, Sikhulile Moyo, Ivan Kasamba, Maya Petersen, Sian Floyd, M. Kate Grabowski, Jeffrey Eaton

127 **HIV Prevalence and UNAIDS 95–95–95 Targets in Uganda Prisons During 2014–2023**

10:13 AM

Julius Ssempiira, Rose Nakityo, Samuel Sendagala, Deus Lukoye, Charles Kavuma, Kenneth Mwambi, Anna C. Awor, Daniel Bogere, Leonard Malungu, James Kisambu, Simon Kasasa, Lisa A. Mills, Stella Alamo, Arthur Fitzmaurice, Lisa J. Nelson

128 **All-Cause and Cause-Specific Mortality Trends Among Persons With and Without HIV in Rural Tanzania**

10:21 AM



Julie Ambia, Clara Calvert, Emma Slaymaker, Mark Urassa, Milly Marston, Suzanne M. Ingle, Adam Trickey

129 **Associations of Dolutegravir and the COVID-19 Pandemic on Viral Suppression in South African Adults**

10:29 AM

Haroon Moolla, Reshma Kassanjee, Renee de Waal, Patience Nyakato, Jonathan Euvrard, Gary Maartens, Hans W. Prozesky, Matthew P. Fox, Catherine Orrell, Geoffrey Fatti, Gilles Wandeler, Mary-Ann Davies, Leigh F. Johnson, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - Southern Africa

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

130 **A Multistage Sampling Approach to Refine HIV Mortality Estimates in KwaZulu-Natal, South Africa**

11:00 AM



Alastair VanHeerden, Franco Musiello, Aaloke Mody, Buyisile Chibi, Kombatende Sikombe, Alfred Keter, Zaynab Essack, Anjali Sharma, Candice Groenwald, Collins Iwuji, Elvin H. Geng, Lindsey Filiatreau

131

11:08 AM

Genotypic Characterization of Mpox and a Tale of 2 Co-Circulating Viruses in Uganda

Nicholas Bbosa, Stella E. Nabirye, Hamidah S. Namagembe, Ronald Kiiza, Danstan D. K. Kabuuka, Alfred Ssekagiri, Henry K. Bosa, Robert G. Downing, Stephen Balinandi, Julius Lutwama, Moffat Nyirenda, Pontiano Kaleebu, Deogratius Ssemwanga

132

11:16 AM

Characterization of Mpox Cases in Uganda: Diversity of the Confirmed Cases



Ritah Namusoosa, Susan N. Nabadda, Susan Nambozo Nambozo, Aidarayaan Namakula, Judith A. Kyokushaba, Viola Kasone, Godfrey Pimundu, Alisen Ayitewala, Linda Nabitaaka Kisaakye

11:24 AM

Questions and Answers (Part 2)

Themed Discussion-01 | Down but Not Out: Elite Control of HIV

1:30 PM - 2:30 PM • San Francisco Ballroom D

Themed Discussion Leader



Javier Martinez-Picado

IrsiCaixa

Badalona, Spain

1:30 PM

Session Overview

495

1:35 PM

Effect of ART Start Time, ART Duration, and Elite Control on HIV Transcription

Cordelia M. Isbell, Julie Janssens, Sun Jin Kim, Sonia Bakkour Coco, Rebecca Hoh, Jennifer A. Nichols, Xutao Deng, Mars Stone, Janet L. Huie, Steven G. Deeks, Michael P. Busch, Steven Yukl, **Adam Wedrychowski**, for the RAVEN Study Group

496

1:40 PM



Viral Reservoir Characteristics in Lymphoid Tissues of HIV-1 Elite Controllers

Samantha K. Marzi, Chloe M. Naasz, Leah Carrere, Carmen Gasca Capote, Mathias Lichterfeld, Matthieu Perreau, Xu G. Yu, Andrea Mastrangelo

497

1:45 PM



CD8+ T Cells Shape the HIV Integration Site Landscape According to the Degree of T-Cell Pressure

Noemi L. Linden, Alexander McFarland, Ali Danesh, Scott Sherrill-Mix, John Everett, Aoife Roche, Chanson J. Brumme, Zabrina L. Brumme, Itzayana G. Miller, Tan Thinh Huynh, Dennis Copertino Jr, Emma Cook, Tianyu Lu, Frederic Bushman, R. Brad Jones



498

1:50 PM

Anti-IL-10/Anti-PD-1 Dual Blockade Leads to IFN-Related HIV Elite Control Signatures

Susan P. Ribeiro, Felipe Ten-Caten, Khader Ghneim, Ana Carolina Santana, Muhammad Bilal Latif, Tamara C. Garcia, Perla Mariana Del Río Estrada, Jeffrey D. Lifson, Mihai G. Netea, Daniel M. Gorman, Bonnie J. Howell, Mirko Paiardini, Hugo Soudeyns, Rafick P. Sekaly

494

1:55 PM

**Loss of Virologic Control 32 Years After HIV-1 Diagnosis in an Exceptional Elite Controller**

Sara Frances, **Anna Pons-Grífols**, Carmen Gasca Capote, Virginia Sandois, Edwards Pradenas, Cristina Moral-Turón, Ester Aparicio, Mar Vera, Jorge Del Romero, Benjamin Trinité, Ezequiel Ruiz-Mateos, Julià Blanco, María Pernas, Concepción Casado

2:00 PM

Discussion With Audience Q&A**Themed Discussion-02 | Heart Failure: Hiding in Plain Sight**

1:30 PM - 2:30 PM • San Francisco Ballroom B

Themed Discussion Leader**Anoop Shah**

*London School of Hygiene & Tropical Medicine
London, UK*

1:30 PM

Session Overview

813

1:35 PM

**Mitochondrial Haplogroups and Left Ventricular Dysfunction in People Living With and Without HIV**

Craig Cronin, Jing Sun, Jorge R. Kizer, Katherine C. Wu, David Samuels, Frank Palella, Shehnaz Hussain, Jeremy Martinson, Nicole Armstrong, Claudia Martinez, Caitlin A. Moran, Yasmeen Golzar, Federico M. Asch, Jason Lazar, Todd Brown

811

1:40 PM

**Sex Differences in Myocardial Steatosis in South African Youth With Perinatally Acquired HIV**

Morne Kahts, Mothabisi Nyathi, Lidia S. Szczepaniak, Petronella Samuels, Stephen Jermy, Matthew J. Feinstein, Justine Legbedze, Nana Asafu-Agyei, Emma Carkeek, Nomawethu Jele, Grace A. McComsey, Landon Myer, Heather Zar, Ntobeko Ntusi, Jennifer Jao, for the CTAAC-Heart Study

814

1:45 PM

Physician-Confirmed Incident Heart Failure Phenotypes and Etiologies Within CNICS

Nour Beydoun, Robin M. Nance, Alexander P. Hoffmann, Matthew S. Durstenfeld, Bridget M. Whitney, Greer Burkholder, Priscilla Hsue, Joseph A. Delaney, Chris Longenecker, Heidi M. Crane, **Matthew J. Feinstein**



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

815

1:50 PM



Readmission Risk for Adults With HIV Hospitalized for Heart Failure or Acute Myocardial Infarction

Ping Yang, Xianming Zhu, Eshan U. Patel, Wendy Post, M. Kate Grabowski, Thomas C. Quinn, Stephen A. Berry, Kelly Gebo, Aaron A. R. Tobian

812

1:55 PM

Heart Failure Among People With HIV: Prescription of Guideline-Directed Medical Therapy

Melissa K. Cutshaw, Robert M. Clare, Karen Chiswell, Paul Hofmann, April C. Pettit, Chris Longenecker, Matthew S. Durstenfeld, Gerald Bloomfield, Nwora L. Okeke

2:00 PM

Discussion With Audience Q&A

Themed Discussion-03 | KS and KSHV: New Developments in Diagnosis, Therapy, and Pathogenesis 1:30 PM - 2:30 PM • 301

Themed Discussion Leader



James A. Hoxie
University of Pennsylvania
Philadelphia, PA, USA

1:30 PM

Session Overview

789

1:35 PM

Validation of Quantification of Lesional KSHV DNA Content for Diagnosis of Kaposi Sarcoma in Africa

Aggrey Semeere, Jeffrey Martin, Racheal A. Ayanga, Andrea Gardner, Juan Boza, Miranda McGaskey, Jason Manning, Megan Wenger, Charles Kasozi, Robert Lukande, Tim McCalmont, Phil LeBoit, Toby Maurer, Ethel Cesarman, David Erickson

792

1:40 PM

Impact of Low-Dose Intralesional Nivolumab for Kaposi Sarcoma on T-Cell Proliferation and Function

Chia-Ching Wang, Amanda M. Buck, Lilian Grimbert, Cassandra Thanh, Kieron Leslie, Tyler-Marie Deveau, Rebecca Hoh, Michiko Ametani Shimoda, Amelia N. Deitchman, Steven G. Deeks, Jeffrey Martin, Paul Couey, Toby Maurer, Timothy J. Henrich

791

1:45 PM



Immunologic Responses to Pomalidomide and Liposomal Doxorubicin for Kaposi Sarcoma Treatment

Matthew Witterholt, Romin Roshan, Kathryn Lurain, Anaida Widell, Irene Ekwede, James Glassbrook, Ralph Mangusan, Thomas Uldrick, Laurie Krug, Denise Whitby, Robert Yarchoan, Ramya Ramaswami

794

1:50 PM

Causes of Death Among Adults With HIV-Associated Kaposi Sarcoma in East Africa in the Treat All Era

Hilda Muwando, Helen Byakwaga, Aggrey Semeere, Miriam Laker-Oketta, Jeffrey Martin, Racheal A. Ayanga, Samson Kiprono, Elia J. Mmbaga, Winnie Muyindike, Charles Kasozi, Pendo Ibrahim, Celestine Lagat, Bronia Mwiine, Elyne Rotich, Philippa K. Makanga



796

1:55 PM

Genome Evolution of Kaposi Sarcoma-Associated Herpesvirus (KSHV) in PLWH**Dirk P. Dittmer**, Razia Moorad, Alec Peng, Justin Landis, Patricio Cano, Linda Pluta, Angelica Juarez

2:00 PM

Discussion With Audience Q&A**Themed Discussion-04 | Meeting the Treatment and Prevention Needs of Transgender Women**

1:30 PM - 2:30 PM • San Francisco Ballroom A

Themed Discussion Leader**Tonia Poteat***Duke University
Durham, NC, USA*

1:30 PM

Session Overview

1108

1:35 PM

Recent HIV Acquisition Among Transgender Women From Midwest Brazil**Sylvia L. M. Teixeira**, Thiago Silva Torres, Bruno Vinícius D. Diniz e Silva, José Henrique S. Pilotto, Ingebourg Georg, Carlos S. Jesus, Paulie Marcelly R. Santos, Karlla Antonieta A. Caetano, Regina Maria B. Martins, Megmar Aparecida S. Carneiro, Monick L. Guimarães, Sheila A. Teles

1107

WITHDRAWN

1109

1:40 PM

**High HIV Burden Among Transgender Women in the State Capital and Rural Towns in Central Brazil****Bruno Vinícius D. Diniz e Silva**, Larissa Silva Magalhães, Kamila Cardoso dos Santos, Sylvia L. M. Teixeira, Ingebourg Georg, Karlla Antonieta A. Caetano, Robert L. Cook, Sheila A. Teles, Megmar Aparecida S. Carneiro, for the Núcleo de Estudos em Epidemiologia e Cuidados em Doenças Transmissíveis e Agravos à Saúde Humana (NECAIH)

1110

1:45 PM

Time to Antiretroviral Initiation Among Transgender Women Living With HIV in France (1997-2022)**Juliette Hemery**, Pierre Tattevin, Esaïe Marshall, Margot Annequin, Thibault Chiarabini, Nathalie Dournon, Anaenza Maresca, Jade Ghosn, Valentina Isernia, Florence Michard, Segolene Perrineau, Giovanna Rincon, Bruno Spire, Pierre De Truchis, Sophie Grabar

1:50 PM

Discussion With Audience Q&ANew Investigator
Scholarship AwardeeLate-Breaking
Abstract

Themed Discussion-05 | HIV Self-Testing: Here and Now

1:30 PM - 2:30 PM • San Francisco Ballroom C

Themed Discussion Leader



Mateo Prochazka
World Health Organization
Geneva, Switzerland

1:30 PM Session Overview

1178 National HIV Self-Test Distribution Program: HIV Testing, Diagnosis, and Treatment, 3/2023 - 5/2024

1:35 PM

Allison Lale, Robin J. MacGowan, Avery Bourbeau, Patrick S. Sullivan, Revae S. Downey, Kevin Delaney

1179 Estimating Need for Annual HIV Testing Met by a Nationwide Mailed HIV Self-Testing Program

1:40 PM

Jessica M. Keralis, Kevin Delaney, Travis Sanchez, **Patrick S. Sullivan**

1177 WITHDRAWN

1181 Moderators of a Home-Based Couple Intervention on Couple HIV Testing and Counselling Uptake in Kenya

1:45 PM

Zachary A. Kwena, Kevin Owuor, Lynae Darbes, Anna Helova, Evelyn Owengah, Elizabeth A. Bukusi, Abigail Hatcher, Moses Okombo, Janet M. Turan

1:50 PM Discussion With Audience Q&A

Interactive Symposium-01 | Deciphering the Mystery of Viral Rebound

4:00 PM - 5:30 PM • San Francisco Ballroom D **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- How a barcoded virus nonhuman primate model can elucidate the kinetics and reactivation frequency of virus rebound after interruption of antiretroviral therapy
- Adaptive and innate immune pressures active just prior to and after viral rebound
- Tissue and cell sources of reactivating virus

Target Audience: This session is directed to virologists, immunologists, clinicians, and all stakeholders interested in HIV viral rebound and reactivation.

Level of Knowledge: It is assumed that the participants are familiar with the basic elements of HIV biology.

Moderators



**Mohamed
Abdel-Mohsen**
*Northwestern University
Chicago, IL, USA*



Deanna Kulpa
*Emory University
Atlanta, GA, USA*

18

4:00 PM

Utilizing a Barcoded Virus Model to Identify the Source of Viral Rebound

Brandon Keele, *Frederick National Laboratory for Cancer Research, Frederick, MD, USA*



19

4:20 PM

Cellular and Tissue Sources of Viral Persistence and Rebound

Linos Vandekerckhove, *HIV Cure Research Center, Ghent University, Ghent, Belgium*



20

4:40 PM

Immune Responses During Viral Rebound

Rachel Rutishauser, *University of California San Francisco, San Francisco, CA, USA*



MONDAY

Interactive Symposium-02 | Filling the Gaps: Challenges and Opportunities in the Care of Children and Youth With Perinatal HIV

4:00 PM - 5:30 PM • San Francisco Ballroom B **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- HIV drug resistance and management considerations among children and adolescents with perinatally acquired HIV
- Factors associated with advanced HIV disease among infants, children, and adolescents and management guidance
- Biomedical and behavioral issues impacting sexual and reproductive health of young people with perinatally acquired HIV

Target Audience: This session is directed to clinicians, immunologists, virologists, epidemiologists, and public health officials who are interested in the latest strategies for treating children and youth with HIV.

Level of Knowledge: It is assumed that the participants are familiar with fundamental principles of the treatment of persons with HIV.

Moderators



Priscilla Tsondai
*International AIDS Society CIPHER Programme
Harare, Zimbabwe*



Lisa Abuogi
*University of Colorado Denver
Denver, CO, USA*

21

4:00 PM

Advanced HIV Disease in Children

Pablo Rojo, *Hospital Universitario 12 de Octubre, Madrid, Spain*



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

22

4:20 PM

HIV Care Continuum in Children**Irene Njuguna**, *University of Washington, Seattle, WA, USA*

23

4:40 PM

Sexual, Reproductive, and Pregnancy Health Among People With Perinatal HIV**Caroline Foster**, *Imperial College Healthcare NHS Trust, London, UK***Interactive Symposium-03 | Closing the Gaps in the HIV Response**4:00 PM - 5:30 PM • San Francisco Ballroom C **CME****Objectives:** At the completion of the session, participants will be able to list, explain, or describe:

- The state of the global HIV epidemic with remaining disparities and gaps, including regional and population differences in incidence and mortality trends
- The complexities of sustaining the global HIV commitment
- Opportunities and risks with the integration of HIV care and prevention with other services
- Innovative practices for HIV testing, prevention, and care

Target Audience: This session is directed to clinicians, program managers, and community members interested in the latest strategies to resolve gaps in addressing the HIV epidemic.**Level of Knowledge:** It is assumed that the participants are familiar with the basic concepts of HIV testing, prevention, and care.**Moderators****Thiago Torres***Instituto Nacional de Infectologia Evandro Chagas
Rio de Janeiro, Brazil***Rebecca Bunnell***PEPFAR
Washington, DC, USA*

24

4:00 PM

Immediate Challenges and Long-Term Goals of the HIV Response**Jeffrey W. Imai-Eaton**, *Harvard TH Chan School of Public Health, Boston, MA, USA*

25

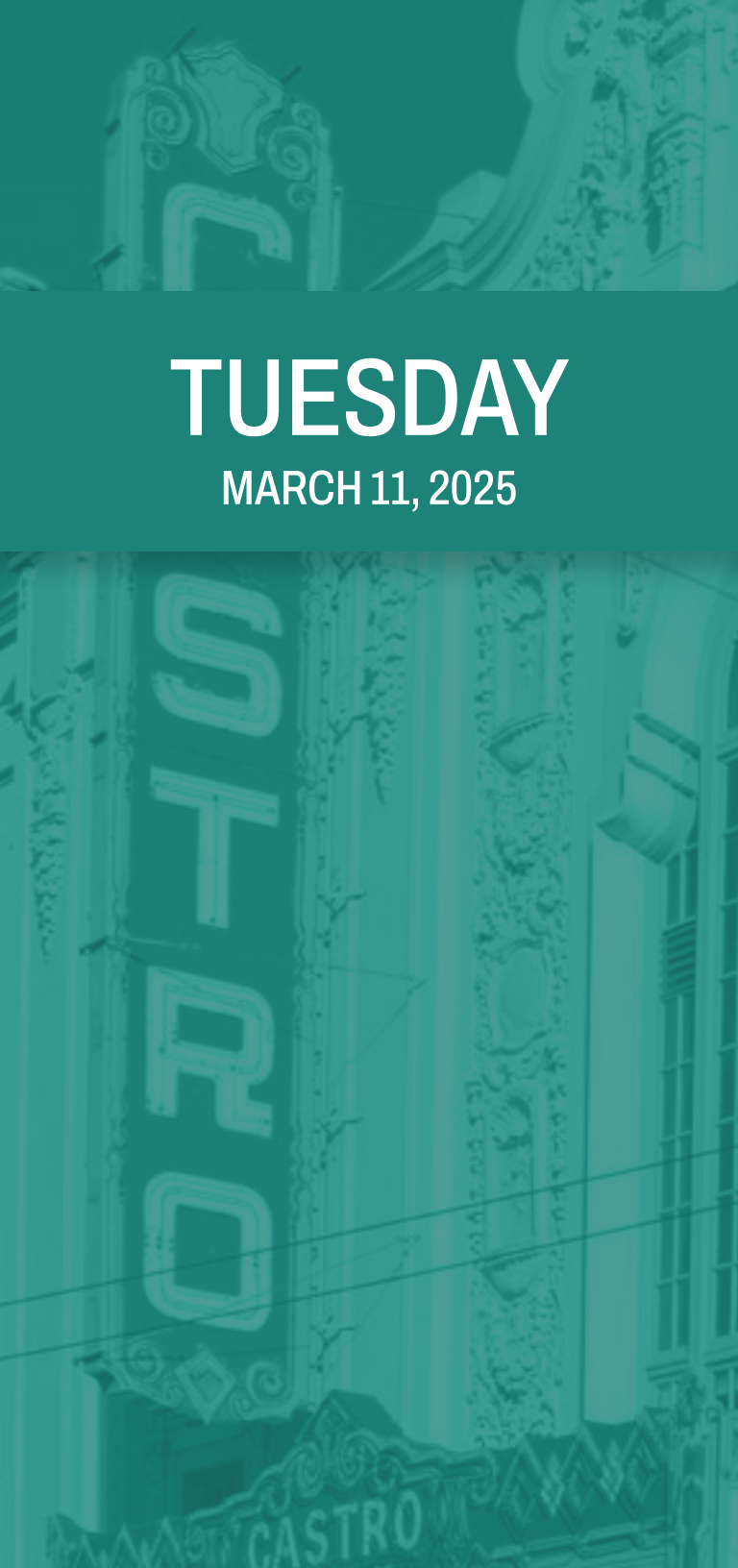
4:20 PM

Integration and Sustainability of the Global HIV Response**Tsitsi Apollo**, *Zimbabwe Ministry of Health and Child Care, Harare, Zimbabwe*

26

4:40 PM

Innovations in HIV Service Delivery: Building a Path Forward With Those Left Behind**Izukanji Sikazwe**, *Centre for Infectious Disease Research in Zambia, Lusaka, Zambia*



TUESDAY

MARCH 11, 2025

TUESDAY, MARCH 11, 2025

Plenary-02 | Tuesday Plenary Session

8:30 AM - 9:30 AM • Hall E **CME**

Session Hosts

Landon Myer, *University of Cape Town, Cape Town, South Africa***Nicolas Chomont**, *Université de Montréal-CHUM Research Center
Montreal, Canada*

Speakers

8:30 AM **CROI Program Committee Chair Welcome to Tuesday****Wafaa M. El-Sadr**, *ICAP at Columbia University,
New York, NY, USA*

27

8:35 AM

**HIV Acquisition and Prevention During
Pregnancy and Postpartum****John Kinuthia**, *Kenyatta National Hospital,
Nairobi, Kenya*

28

9:05 AM

Systems Vaccinology**Bali Pulendran**, *Stanford University,
Stanford, CA, USA*

Oral Abstract Session-05 | What Do Viruses Do, and How Do They Do It?

10:00 AM - 12:00 PM • San Francisco Ballroom A

Moderators

**Gilda Tachedjian***Burnet Institute
Melbourne, Australia***Suryaram
Gummuluru***Boston University
Boston, MA, USA*10:00 AM **Introduction of Speakers (Part 1)**

133

10:05 AM

**Replication-Competent HIV-Infected Cells Have
Deoxyuracil-Containing Proviruses****Rodrigo Matus Nicodemos**, David R. Ambrozak, Samuel Darko, Amy Henry, Farida Laboune, Jianfei Hu, Joseph P. Casazza, Fernanda Torres Ruiz, Yara Andrea Luna Villalobos, Mauricio González Navarro, Perla Mariana Del Río Estrada, Santiago Avila Rios, Michael Betts, Daniel C. Douek, Richard A. Koup

134

10:13 AM

**Gag-Mediated Control Over CARD8 Activation During
HIV-1 Assembly****Ivy K. Hughes**, Andres Quinones-Molina, Hisashi Akiyama, Suryaram Gummuluru

135

10:21 AM

**Direct Visualization of HIV-1 Nuclear Import and Its
Interplay With the Nuclear Pore**Zhen Hou, Stanley Fronik, **Yao Shen**, Christopher Thompson, Sarah Neumann, Peijun Zhang

136 Visualizing the Cell Biology of HIV Latency and Reactivation

10:29 AM **Jonathan Karn**, Frederick Kizito, Konstantin Leskov, Uri Mbonye, Muda Yang, Anna Agaponova, Kien Nguyen

10:37 AM Questions and Answers (Part 1)**10:55 AM Introduction of Speakers (Part 2)****137 Single-Cell Spatial Profiling Identified Intact HIV+ Cells in Lymph Nodes**

11:00 AM



Amare Eshetu, Nadejda Beliakova-Bethell, Antoine Chaillon, Davey Smith, Sara Gianella Weibel, Ya-Chi Ho

138 Lenacapavir Directs Specific Proteasome-Mediated Degradation of Gag Proteins in HIV-Infected Cells

11:08 AM



Clayton Faua, Serena Bernacchi, Amélia Aeschelmann, Axel Ursenbach, Christine Cheneau, Baptiste Hoellinger, David Rey, François Danion, Christiane Moog, Samira Fafi-Kremer, Matteo Negroni, Pierre Gantner

139 RhCMV Expands CCR5 Memory CD4 T Cells and Increases Acute-Phase Seeding of SIV DNA in the Gut Mucosa

11:16 AM



Chrysostomos Perdios, Naveen Suresh Babu, Celeste Coleman, Anna T. Brown, Matilda Mostrom, Carolina Allers, Lara Doyle-Meyers, Christine Fennessey, Amitinder Kaur, Brandon Keele, Michael L. Freeman, Joseph C. Mudd

140 Differential Replication, Innate Immune Control, and Virulence of Global and Endemic Clade II MPXV

11:24 AM



Rebecca P. Sumner, Lucy Eke, Bruno Hernaez, Alasdair Hood, Telma Sancheira Freitas, Hannah Ashby, Ailish Ellis, Marine Petit, Sian Lant, Preetam Parija, Bryan Charleston, Geoffrey Smith, David Ulaeto, Antonio Alcami, Carlos Maluquer de Motes

141 Nef Modulates Actin to Prevent Postintegration Sensing of HIV-1

11:32 AM



Alexandre Laliberté, Caterina Prelli Bozzo, Dhiraj Acharya, Maximilian Hirschenberger, Meta Volcic, Oliver T. Fackler, Michaela Gack, Konstantin M. J. Sparrer, Frank Kirchhoff

11:40 AM Questions and Answers (Part 2)**Oral Abstract Session-06 | Immunology and Vaccines**

10:00 AM - 12:00 PM • San Francisco Ballroom C

Moderators

Catherine Blish
Stanford University
Stanford, CA, USA



Andrés Finzi
Centre de Recherche
du CHUM
Montreal, Canada



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

10:00 AM **Introduction of Speakers (Part 1)**

142 **Profiling Therapeutic Vaccine-Driven HIV-Specific CD8 T Cells With Single-Cell TCR Sequencing Assays**

10:05 AM

Rafael Tiburcio, Lily Zemelko, George Gruenhagen, Alaa Abdellatif, Kara Chew, David B. Weiner, Steven G. Deeks, Gabriela K. Fragiadakis, Rachel Rutishauser

143 **Efficacy of Bivalent Versus Monovalent COVID-19 Vaccines Among People With HIV, Ubuntu Trial, 2022-24**

10:13 AM

Sufia Dadabhai, Bo Zhang, Aaron Hudson, Asa Tapley, Taraz Samandari, Penny L. Moore, Ethel Kamuti, Harriet Nuwagaba-Biribonwoha, Nonhlanhla N. Mkhize, Margaret Yacovone, Phillip Kotze, Yunda Huang, Nigel Garrett, Glenda Gray, Lawrence Corey, for the CoVPN 3008 Ubuntu Study Team

144 **T-Cell Responses Induced by GS-1966+GS-1144 Vaccines in Virally Suppressed People With HIV**

10:21 AM

Susie S. Y. Huang, Anne-Maud Ferreira, Constance A. Benson, Cynthia Brinson, Moti Ramgopal, Anthony Mills, Edwin DeJesus, Karin Jooss, Christiaan R. de Vries, **Devi Sengupta**, Pamela M. Odorizzi

145 **Lymph Node HIV-Specific CD8 T Cells of HIV Controllers Harbour a Specific Transcriptomic Signature**

10:29 AM



Erica Lana, Mathilde Foglierini-Perez, Philippe Guillaume, Riddhima Banga, Francesco Procopio, Matthias Cavassini, Sébastien Déglise, Alexandre Harari, Giuseppe Pantaleo, Matthieu Perreau, **Andrea Mastrangelo**

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

146 **HIV-Specific CD8+ T Cell Stemness Predicts Postintervention Control of Viremia**

11:00 AM



Zahra Kiani, Mpho Olatotse, Jonathan Urbach, Mathias Lichterfeld, Jesper D. Gunst, Ole Sogaard, Marina Caskey, Michel Nussenzweig, Bruce Walker, **David R. Collins**

147 **Immunologic Impact of Short-Term BCL2 Inhibition at ART Initiation on SIV-Infected Rhesus Macaques**

11:08 AM

Tomas Raul Wiche Salinas, Justin Harper, Kevin Nguyen, James Auger, Hannah Flores, Laurence Raymond Marchand, Greg Laird, Gregory K. Tharp, Steven Bosinger, Andrew D. Badley, R. Brad Jones, Guido Silvestri, Deanna Kulpa, Mirko Paiardini

148 **Bispecific Antibody VRC07/PGT121 Protects Against High-Dose Intravenous SHIV-BG505 Challenge**

11:16 AM

Matthew S. Parsons, Decha Silsorn, Jumpol Sopanaporn, Panupat Nadee, Dutsadee Inthawong, Rawiwan Imerbsin, Michelle Zemil, Victoria Polonis, Diane Bolton, Manoj S. Nair, Jian Yu, Yaoxing Huang, David D. Ho, Sandhya Vasan, Julie Ake

149

11:24 AM



Time-to-Rebound Measurements in ATI Trials With bNAb Intervention Are Confounded by Autologous NABs

Mauro Garcia, Junlin Zhuo, Emmanouil Papasavvas, Brianna Lopez, Anthony Abeyta-Lopez, Beril Aydin, Joseph Varriale, Jun Lai, Livio Azzoni, Kenneth Lynn, Karam Mounzer, Pablo Tebas, Luis J. Montaner, Robert F. Siliciano, Janet M. Siliciano

150

11:32 AM



Broad V2-Apex bNAb Activity in HIV-1 Through a Novel, K169-Independent bNAb

Maria C. Hesselman, Daniel Schmidt, Peter Rusert, Merle M. Schanz, Nikolas Friedrich, Chloé Pasin, Cyrille Niklaus, Tandile Hermanus, Mbali Mafu, Dominique L. Braun, Huldrych F. Günthard, Roger D. Kouyos, Penny L. Moore, Alexandra Trkola, for the Swiss HIV Cohort Study

11:40 AM

Questions and Answers (Part 2)

TUESDAY

Oral Abstract Session-07 | Antivirals for HIV, MPXV, and SARS-CoV-2: New Drug Strategies and Resistance

10:00 AM - 12:00 PM • San Francisco Ballroom B

Moderators



Yazdan Yazdanpanah

*Hôpital Bichat-Claude-Bernard
Paris, France*



Michael S. Saag

*University of Alabama
at Birmingham
Birmingham, AL, USA*

10:00 AM

Introduction of Speakers (Part 1)

151

10:05 AM

Efficacy and Safety of Lenacapavir, Teropavimab, and Zinlirvimab: Phase II Week 26 Primary Outcome

Kwadwo Mponponsuo, James H. McMahon, Linda Gorgos, Javier Morales-Ramirez, Kimberly Workowski, Jason Brunetta, **Onyema Ogbuagu**, Sean E. Collins, Laurie Vanderveen, Hailin Huang, Jared M. Baeten, Joseph J. Eron

152

10:13 AM

Proof-of-Concept Trial of VH4524184 (VH-184), a Third-Generation Integrase Strand Transfer Inhibitor

Luise Rogg, Sebastián A. Núñez, María Verónica Mingrone, Pere Domingo, Monica Lopez, Nathan Hanan, Gabriela L. Ghita, Jerry L. Jeffrey, Mark Underwood, Jose Castillo-Mancilla, Fiona Halliday, Ebele Ezeadi, Martin Gartland

153

10:21 AM

Proof-of-Concept Trial of Oral VH4011499 (VH-499), a New HIV-1 Capsid Inhibitor

Rulan Griesel, Sebastián A. Núñez, Alma Minerva Pérez Rios, Clara Lehmann, Carmen Busca, Pedro Cahn, Amy Pierce, Jerry L. Jeffrey, Nilay Thakkar, Bronagh Shepherd, Veronica Bainbridge, Konstantinos Angelis, Carlye McMillan, Cynthia McCoig, **Paul Benn**

154

10:29 AM

Pharmacokinetics and Safety of Once-Yearly Formulations of Lenacapavir

Vamshi Jogiraju, Pallavi Pawar, Jenna Yager, John Ling, Gong Shen, Anna Chiu, Ramesh Palaparthi, Christoph Carter, **Renu Singh**



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

155 **Elucidating the Mechanism by Which Nucleocapsid Mutations Confer Resistance to InSTIs**

11:00 AM



Yuta Hikichi, Ryan C. Burdick, Sean C. Patro, Kerri J. Penrose, Erin Clark, Sherimay D. Ablan, John W. Mellors, Urvi M. Parikh, Xiaolin Wu, Vinay K. Pathak, Eric O. Freed

156 **Selection of Nucleocapsid Mutations With Virologic Failure of Tenofovir/Lamivudine/Dolutegravir**

11:08 AM

Kerri J. Penrose, Yuta Hikichi, Rahil Sethi, B. Jay Goetz, Lauren O. Siffert, Sujith A. Valiyaparambil, Carole L. Wallis, Caitlyn McCarthy, Uma R. Chandran, Cissy Kityo, Charles W. Flexner, Michael Hughes, Eric O. Freed, John W. Mellors, Urvi M. Parikh, for the ACTG A5381 Study Team

157 **Optimizing On-Demand Tenofovir Disoproxil Fumarate/ Emtricitabine Dosing in Women for HIV Prevention**

11:16 AM

Julie B. Dumond, Craig Sykes, Amanda Schauer, Angela Kashuba, **Mackenzie Cottrell**

158 **Safety and Antiviral Efficacy of a Broad-Spectrum siRNA SNS812 Targeting SARS-CoV-2: Phase II Trial**

11:24 AM

Sui-Yuan Chang, Yi-Chung Chang, **Shey-Ying Chen**, Pan-Chyr Yang

159 **Host and Disease Factors Were Not Associated With Mpox Resolution in Participants Receiving Tpoxx**

11:32 AM

William A. Fischer II, Pooja Saha, Jason Zucker, Caitlyn McCarthy, Lu Zheng, Arzhang Javan, Alexander L. Greninger, Kristina Brooks, Matthew Hamill, Davey Smith, Rajesh T. Gandhi, Joseph J. Eron, Sharon Nachman, Judith Currier, Timothy Wilkin, for the ACTG A5418 (STOMP) Protocol Team

11:40 AM **Questions and Answers (Part 2)**

Oral Abstract Session-08 | New Frontiers in STI Prevention

10:00 AM - 12:00 PM • San Francisco Ballroom D

Moderators



Marjan Javanbakht
University of California
Los Angeles
Los Angeles, CA, USA



Michael Traeger
Harvard Pilgrim
Health Care Institute
Boston, MA, USA

10:00 AM **Introduction of Speakers (Part 1)**

160 **Missed Opportunities for Syphilis Diagnosis With Targeted Compared to Universal Screening**

10:05 AM

Kimberly A. Stanford, Joseph Mason, Eleanor Friedman, Aniruddha Hazra, John Schneider



161

10:13 AM

Higher Odds of Congenital Syphilis With 9- vs 7-Day Prenatal Treatment Intervals for Late Syphilis**Kelly A. Johnson**, Eric Tang, Robert E. Snyder, Rosalyn Plotzker, Kathleen Jacobson, Nicole Burghardt

162

10:21 AM

DoxyPEP Eligibility, Use, and Potential for STI Reduction in a Large HIV Cohort in Washington, DCYun Seong Ji, Shannon K. Barth, **Amanda D. Castel**, Morgan Byrne, Temi Oke, Adedotun Ogunbajo, Michael Horberg, Anne Monroe, for the DC Cohort Executive Committee

163

10:29 AM

High Sustained Effectiveness of Doxycycline PEP for STI Prevention After Clinical Implementation**Hyman Scott**, Jorge Roman, Matthew A. Spinelli, Jason Bena, Michael P. Barry, Megan J. Heise, Susan Buchbinder

10:37 AM

Questions and Answers (Part 1)

10:55 AM

Introduction of Speakers (Part 2)

164

11:00 AM

The Doxy-PEP Continuum Among Patients Receiving Care at a Sexual Health Clinic in San Francisco**Michael P. Barry**, Jason Bena, Jorge Roman, Hyman Scott

165

11:08 AM

Global Modelling Analysis: Impact of Improved HPV Vaccination on Noncervical Cancers in PLWHIV**Namwa Wongkalasin**, Victoria Pilkington, Jacob Levi, Toby Pepperrell, Anna Garratt, Andrew Hill

166

11:16 AM

Impact of Urine TFV Testing on PrEP Adherence in South African Pregnant and Postpartum Women: An RCT**Dvora L. Joseph Davey**, Kalisha Bheemraj, Rufaro Mvududu, Sumaya Dadan, Kathryn L. Dovel, Susan Cleary, Monica Gandhi, Thomas Coates, Landon Myer

11:24 AM

Questions and Answers (Part 2)**Themed Discussion-06 | Natural-Born Killers**

1:30 PM - 2:30 PM • San Francisco Ballroom A

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

1:30 PM

Session Overview

446

1:35 PM

HLA-E Prevents Natural Killer Cell Inhibition of HIV-1 Replication in Peripheral Blood CD4+ T Cells**Amanda M. Dudek**, Alex T. H. Cocker, Fabian P. Suchy, Katie Han, Elena J. Sasu, Peter Parham, Matthew H. PorteusNew Investigator
Scholarship AwardeeLate-Breaking
Abstract

447

1:40 PM



Differential CD8T/NK Cell-Mediated HIV-1 Control After TIGIT or KLRG1 Blockade and ART in hBLT Mice

Ildefonso Sánchez-Cerrillo, Ilya Tsukalov, María Agudo-Lera, Olga Popova, Patricia Fuentes, Lucio Jesús García Fraile Fraile, Ignacio de los Santos, María Lázaro-Díez, Vladimir Vrbanc, María Luisa Toribio, Francisco Sánchez-Madrid, Julia G. Prado, Meritxell Genescà, María Jose Buzon, Enrique Martín Gayo

448

1:45 PM

Elucidating the Role of Natural Killer Cells in Antibody Breadth During HIV Infection

Izumi de los Rios Kobara, Uma Maheswari Mangalanathan, Kishor Mandalia, Julie Overbaugh, Catherine Blish

445

1:50 PM



NF-kappa-B Signaling in Natural Killer Cells Predicts Post-Treatment HIV Control

Ashley F. George, Tongcui Ma, Natalie Elphick, Kyrilia C. Young, Reuben Thomas, Julie Frouard, Antonio Rodriguez, Tony R. Figueroa, Meghann Williams, Rebecca Hoh, Jonathan Li, Katherine S. Pollard, Steven G. Deeks, Michael Peluso, Nadia R. Roan

444

1:55 PM

RV550: IL-15 Superagonist N-803 With ART in Acute HIV Infection Enhances T and NK Cell Proliferation

Hiroshi Takata, Julian Pacheco, Suteeraporn Pinyakorn, Carlo Sacdalan, Pathariya Promsena, Somchai Sriplienchan, Kiat Ruxrungham, Morgane Rolland, Jeffrey Safrit, Bobby Reddy, Sandhya Vasan, Lydie Trautmann, Afam Okoye, for the RV550 and RV254/SEARCH010 Study Groups

2:00 PM

Discussion With Audience Q&A

Themed Discussion-07 | SARS-CoV-2 Persistence and Evolutions

1:30 PM - 2:30 PM • San Francisco Ballroom D

Themed Discussion Leader



Alex Sigal

*University of KwaZulu-Natal
Durban, South Africa*

1:30 PM

Session Overview

313

1:35 PM

SARS-CoV-2 Intra-host Evolution During Acute Infection in People With COVID-19

Carla della Ventura, Annalisa Bergna, Cosmin L. Ciubotariu, Haneen Chmes, Mario C. Corbellino, **Agostino Riva**, Spinello Antinori, Gianguglielmo Zehender, Alessia Lai

311

1:40 PM

Evolving of Immune Evasion During a SARS-CoV-2 Chronic Infection: A Pathway to Variants of Concern

Suzanne Pickering, Luke Blagdon Snell, Xiaohao Xu, Helena Winstone, Jeffrey Seow, Carl Graham, Rahul Batra, Michael H. Malim, Katie Doores, Jonathan Edgeworth, Gaia Nebbia, Stuart Neil, **Rui Galao**



312

1:45 PM



Genetic Mutation Differences Patterns of SARS-CoV-2 in Immunocompromised Patients Versus Controls

Karen Zafilaza, Antoine Fauchois, Valentin Leducq, Quentin Le Hingrat, Stephane Marot, Theophile Cocherie, Romane Guilbaud, Valentine Marie Ferré, Charlotte Charpentier, Diane Descamps, Eve Todesco, Anne-Geneviève Marcelin, Vincent Calvez, Cathia Soulié

309

1:50 PM



ScRNA-seq of HRSV/SARS-CoV-2 Co-Infection Reveals Unique Cellular Responses and lncRNA Signatures

Claudia Vanetti, Luca Piacentini, Lorenzo Citterio, Micaela Garziano, Irma Saulle, Jacopo Aiello, Martina Broggiato, Claudio Fenizia, Diego Bottan, Daria Trabattoni, Mario Clerici, Mara Biasin

314

1:55 PM

Prevalence, Spread, and Mutation of SARS-CoV-2 Variants in COVID-19 Testing in Salvador, Brazil

Anna Carolina Dantas, Hellen B. M. Oliveira, Taiana Tainá S. Pereira, Amanda F. Lima, Janaína M. F. Matos, Thais Aranha Rossi, Laio Magno Santos de Sousa, Fabiane Soares, Ines Dourado, Thiago Silva Torres, Luciane A. Amorim Santos, Danielle S. Medeiros, Fernanda K. Barreto, Guilherme G. Campos, Lucas M. Marques

2:00 PM

Discussion With Audience Q&A

Themed Discussion-08 | TB Infection and Prevention: Testing, Treatment, and Strategies

1:30 PM - 2:30 PM • San Francisco Ballroom C

Themed Discussion Leader



Salome Charalambous

*The Aurum Institute
Johannesburg, South Africa*

1:30 PM

Session Overview

964

1:35 PM

Evaluating the Accuracy of Standard F TB-Feron FIA for TB Infection Diagnosis in Vietnam

Han Thi Nguyen, Luan Vo, Andrew Codlin, Tom Wingfield, Rachel Forse, Emily Maclean, Jacob Creswell, Kristi Sidney, Beatrice Kirubi, Hoa Binh Nguyen, Luong Van Dinh, Ha Thu Doan, Lina D. Forsman, for the TBI Testing Team

972

1:40 PM



Effect of Tuberculosis Preventive Therapy on Mtb-Specific T-Cell Profile in the A5279/BRIEF TB Trial

Pablo C. Alarcon, Xinyu Du, Manuel G. Feria, Ashley McKhann, Michelle A. Kendall, Michael L. Freeman, Susan Swindells, Amita Gupta, Gavin Churchyard, Richard E. Chaisson, Cheryl Day, Moises Huaman

969

1:45 PM

The Impact of Rifampin Drug Interactions on TPT Completion and Safety Using High-Dose vs Standard

Jinell White, Federica Fregonese, Rachel Lim, Nancy Bedingfield, Victoria Cook, Fajri Gafar, Diana Gibson, Dina Fisher



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

971

1:50 PM

Patient and Provider Preferences for Long-Acting Tuberculosis Preventive Therapy

Marcia C. Vermeulen, Renae Furl, Harlan Sayles, Shahanara Valawalkar, Abhay Kadam, Samyra R. Cox, Vidya Mave, Charlotte Schutz, Amy Ward, Joelle Dountio Ofimboudem, Kimberly K. Scarsi, Graeme Meintjes, Susan Swindells, for the Longevity Consortium

970

1:55 PM

**Weekly Rifapentine and Isoniazid (3HP) vs Isoniazid Preventive Therapy (6H) Among People With HIV**

Dickens Onyango, Jerphason Mecha, Lilian N. Njagi, Samson Aoro, John Kinuthia, Grace John-Stewart, Sylvia LaCourse

2:00 PM

Discussion With Audience Q&A

Themed Discussion-09 | Machine Learning: Gearing Up for the Future

1:30 PM - 2:30 PM • San Francisco Ballroom B

Themed Discussion Leader**Julia Marcus**

*Harvard Pilgrim Health Care Institute
Boston, MA, USA*

1:30 PM

Session Overview

1307

1:40 PM

Machine Learning to Predict Persons With HIV at Risk of Falling Out of Care

Ravi Goyal, Gordon Honerkamp-Smith, Alan Wells, Susan J. Little, **Thomas Martin**

1309

WITHDRAWN

1312

1:50 PM

**Impact Analysis and Machine Learning Forecasts of HIV Viral Load Suppression in 21 African Countries**

Amobi A. Onovo, Melaku Dessie, Gonza Omoro, Sara Herbst

2:00 PM

Discussion With Audience Q&A

Interactive Symposium-04 | Breaking In and Setting Up Home: From HIV Nuclear Entry and Integration to Viral Gene Expression and Establishing the Reservoir

4:00 PM - 5:30 PM • San Francisco Ballroom D **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- Advances in the understanding of nuclear events during the early phase of HIV replication
- The relationship between nuclear events and gene targeting of HIV integration
- The importance of integration site targeting to HIV replication and latency

Target Audience: This session is directed to virologists, immunologists, clinicians, and all stakeholders interested in the latest information on nuclear events and gene targeting of HIV integration.

Level of Knowledge: It is assumed that the participants are familiar with the basic elements of HIV biology, protein structure, and the immune system.

Moderators



Jonathan Karn
Case Western Reserve
University
Cleveland, OH, USA



Ashwanth Francis
Florida State
University
Tallahassee, FL, USA

29

4:00 PM

How HIV Capsid Breaches the Nuclear Envelope Through Karyopherin Mimicry

David Jacques, *University of New South Wales, Sydney, Australia*



30

4:18 PM

How HIV Integrates Into the Genome

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



31

4:36 PM

Transcriptional and Epigenetic Regulation of HIV-1 Gene Expression

Melanie Ott, *Gladstone Institutes, San Francisco, CA, USA*

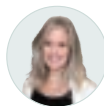


32

4:54 PM

The Landscape of Proviral Integration in the HIV-1 Reservoir and Its Relationship to Latency and Reactivation

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



TUESDAY



New Investigator
Scholarship Award



Late-Breaking
Abstract

Interactive Symposium-05 | Hot Topic: Menopause and HIV4:00 PM - 5:00 PM • San Francisco Ballroom C **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- Symptoms associated with the menopausal transition
- Appropriate menopause treatment regimens for a woman with HIV based on concomitant conditions and medications
- The impact of the physiologic changes during the menopausal transition in women with HIV

Target Audience: This session is directed to clinicians, immunologists, virologists, epidemiologists, and public health officials who are interested in the latest strategies for treatment in persons with HIV who are experiencing menopause.

Level of Knowledge: It is assumed that the participants are familiar with fundamental principles of the treatment of persons with HIV.

Moderators

Elizabeth King
*Simon Fraser University
Burnaby, Canada*



Rosie Mngqibisa
*Enhancing Care
Foundation
Dalbridge, South Africa*

33

4:00 PM

Beyond Hot Flashes: Women's Lived Experience of Menopause

Bridgette Picou, *The Well Project: Women's Research Initiative on HIV/AIDS, Brooklyn, NY, USA*

**34**

4:10 PM

Clinical Management of Women With HIV in Menopause

Sara Looby, *Massachusetts General Hospital, Boston, MA, USA*

**35**

4:25 PM

Influence of Hormone Changes on Physiology, Virology, and Immunology

Eileen Scully, *The Johns Hopkins University School of Medicine, Baltimore, MD, USA*

**Interactive Symposium-06 | Tuberculosis: The Long Game**5:00 PM - 6:00 PM • San Francisco Ballroom C **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- New long-acting agents for the treatment and prevention of tuberculosis (TB)
- The burden and importance of post-TB disease



Target Audience: This session is directed to clinicians, immunologists, virologists, epidemiologists, and public health officials who are interested in the latest strategies for treatment in persons with TB and addressing post-TB complications.

Level of Knowledge: It is assumed that the participants are familiar with fundamental principles of the treatment of persons with TB.

Moderators



Anchalee Avihingsanon
HIV-NAT, Thai Red Cross
AIDS and Infectious
Disease Research Centre
Bangkok, Thailand



Jennifer Furin
Harvard University
Cambridge, MA, USA

36

5:00 PM

Long-Acting Treatments for Tuberculosis

Eric Nuermberger, *The Johns Hopkins University, Baltimore, MD, USA*



37

5:20 PM

Post-Tuberculosis Disease: Opening Pandora's Box

Brian Allwood, *Stellenbosch University, Cape Town, South Africa*



TUESDAY

Interactive Symposium-07 | Long-Acting Preexposure Prophylaxis for HIV Prevention

4:00 PM - 5:30 PM • San Francisco Ballroom B **CME**

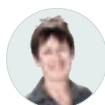
Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- The different testing algorithms proposed to monitor HIV in people on long-acting preexposure prophylaxis (LA PrEP)
- The need for new PrEP options
- The advantages and disadvantages of the different LA PrEP options in development
- The challenges of scaling up LA PrEP in various settings for the different modalities of LA PrEP

Target Audience: This session is directed to clinicians, program managers, and community members interested in long-acting preexposure prophylaxis for prevention of HIV.

Level of Knowledge: It is assumed that the participants are familiar with the concept of preexposure prophylaxis for HIV prevention.

Moderators



Sinead Delany-Moretlwe
University of the
Witwatersrand
Johannesburg, South Africa



Latesha Elopore
University of Alabama
at Birmingham
Birmingham, AL, USA



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

38

4:00 PM

Game Changed: Navigating the Era of Long-Acting Therapies for HIV Prevention

Jonathan Li, *Brigham and Women's Hospital, Boston, MA, USA*



39

4:20 PM

Complexities of HIV Diagnosis: What Lies Beneath

Cheryl C. Johnson, *World Health Organization, Geneva, Switzerland*

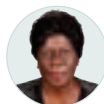


40

4:40 PM

Long-Acting Preexposure Prophylaxis: Why Can't We Get to Scale?

Cissy Kityo, *Joint Clinical Research Centre, Kampala, Uganda*



The background image is a monochromatic, purple-tinted photograph of a city scene. The upper portion features a tall clock tower with a decorative top and a flag. The lower portion shows a street with a large clock tower in the background, a tree in the foreground, and a trolley or tram on the street. The overall mood is calm and urban.

WEDNESDAY

MARCH 12, 2025

WEDNESDAY, MARCH 12, 2025

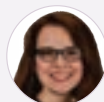
Plenary-03 | Wednesday Plenary Session

8:30 AM - 9:30 AM • Hall E **CME**

Session Hosts

Douglas D. Richman, *University of California San Diego, La Jolla, CA, USA***Judith S. Currier**, *University of California Los Angeles, Los Angeles, CA, USA*

Speakers

8:30 AM **CROI Program Committee Chair Welcome to Wednesday**
Nicolas Chomont, *Université de Montréal, Montreal, Canada*41
8:35 AM **Long COVID: Causes, Consequences, and the Way Forward**
Roger Paredes, *IrsiCaixa, Badalona, Spain*42
9:05 AM **Weight Gain in People With HIV**
Jordan E. Lake, *University of Texas Health Science Center at Houston, Houston, TX, USA***Oral Abstract Session-09 | Viruses Always On My Mind: Viral Neuropathogenesis From Acute HIV to SARS-CoV-2**
10:00 AM - 12:00 PM • San Francisco Ballroom C

Moderators

**Lucette A. Cysique**
University of New South Wales Sydney
Sydney, Australia**Teresa H. Evering**
Weill Cornell Medicine
*New York, NY, USA*10:00 AM **Introduction of Speakers (Part 1)**167
10:05 AM **Brain Volume Normalization After 96 Weeks of ART Started During Acute HIV Infection****Robert Paul**, Jacob Bolzenius, Phillip Chan, Carlo Sacdalan, Donn Colby, Julie Mannarino, Lydie Trautmann, Serena Spudich, Victor Valcour, Somchai Sriplienchan, for the RV254/SEARCH 010 Study Team168
10:13 AM **Spinal Cord as a Distinct Site of HIV Persistence and Dispersal in the Brain****Mattia Trunfio**, Cheryl Dullano, Stephanie Solso, Gemma Caballero, Pinyi Du, Brady Lapke, Caroline Ignacio, Magali Porrachia, Patricia K. Riggs, Davey Smith, Sara Gianella Weibel, Antoine Chaillon

- 169**
10:21 AM **Longitudinal Persistence of HIV DNA in CSF Over 4 Years Despite Up to 20 Years of ART**
Joshua C. Cyktor, Evgenia Aga, Asma Naqvi, Dianna Hoeth, Ronald J. Bosch, Bernard J. Macatangay, Joseph J. Eron, Susan Koletar, Deborah McMahon, John W. Mellors, Serena Spudich, Rajesh T. Gandhi, Constance A. Benson, for the ACTG A5321 Study Team
- 170**
10:29 AM **Single-Nuclei Multiome Analysis of CSF Cells Reveals Dendritic Cell Dysregulation Despite ART**
Michael J. Corley, Chang Lu, Paraskevas Filippidis, Benjamin Orlinick, Alina Pang, Bibhuprasad Das, Jennifer Chiarella, Allison Nelson, Sameet Mehta, Serena Spudich, Yuval Kluger, **Shelli Farhadian**
- 10:37 AM **Questions and Answers (Part 1)**
- 10:55 AM **Introduction of Speakers (Part 2)**
- 171**
11:00 AM **Plasma Phosphorylated Tau 217 and Cognitive Decline in Older Thai People With HIV**
Akarin Hiransuthikul, Poosanu Thanapornsangsuth, Watayuth Luechaipanit, Thanaporn Haethaisong, Sasiwimol Ubolyam, Chuleeporn Wongvoranet, Tanakorn Apornpong, Win Min Han, Hay Mar Su Lwin, Napon Hiranburana, Stephen Kerr, Anchalee Avihingsanon, for the HIV-NAT 006 and 207 Study Teams
- 172**
11:08 AM **Semaglutide Improves Cognitive Function in HIV, Effect Mediated by Decrease in Inflammation**
 **Ornina Atieh**, Jhony Baissary, Qian Wu, Abdus Sattar, Danielle Labbato, Allison Ross Eckard, Christian Mouchati, Grace A. McComsey
- 173**
11:16 AM **Brain Gray and White Matter Alterations in Cognitive Long COVID**
Lindsay S. McAlpine, Nuno Barros, Allison Nelson, Rafay Khan, Cheryl Lacadie, Shelli Farhadian, Todd Constable, Serena Spudich
- 174**
11:24 AM **Structural Brain Volumes Decrease After SARS-CoV-2 Infection Among People With HIV**
Jacob Bolzenius, Ferron F. Ocampo, Carlo Sacdalan, Somchai Sriplienchan, Luxe-Naree Poonpitak, Napapon Sailasuta, Julie Ake, Donn Colby, Phillip Chan, Lydie Trautmann, Sandhya Vasan, Trevor Crowell, Kilian Pohl, Serena Spudich, Robert Paul, for the RV254/SEARCH 010 Study Team
- 11:32 AM **Questions and Answers (Part 2)**

Oral Abstract Session-10 | Cardiometabolic Complications and Aging: The Clock Is Ticking

10:00 AM - 12:00 PM • San Francisco Ballroom B

Moderators



Celestine Wanjalla
Vanderbilt University
Medical Center
Nashville, TN, USA



Allison Ross Eckard
Medical University
of South Carolina
Charleston, SC, USA

10:00 AM **Introduction of Speakers (Part 1)**

175
10:05 AM **Major Improvement in Age-Related Health Outcomes in People Living With HIV: An 18-Year Cohort Study**

Javier Martínez-Sanz, Matilde Sánchez-Conde, Jorge Díaz Álvarez, Marta Rosas Cancio-Suárez, Antoni Abdon Campins Rosselló, Joaquim Peraire, Juan Macias, Xabier Camino Ortiz de Barrón, María Saumoy, Marta Herrero Romero, María Jesus Perez Elias, Santiago Moreno, **Alejandro Garcia**, Adrian Curran, for the Cohorte de la Red de Investigación en Sida (CoRIS)

176
10:13 AM **Early vs Deferred HIV Therapy and Cardiovascular Disease in People With HIV: The START Study**

Nila J. Dharan, Shweta Mistry, Alejandro Arenas-Pinto, Daniel Duprez, Vicente Estrada, Karen Ha, Mariana Kundro, Rosie Mngqibisa, Henry Mugerwa, Rakan Nassreddine, Tess Peterson, Irini Sereti, Janine Trevillyan, Jason Baker, Gail Matthews, for the INSIGHT START Study Group

177
10:21 AM **Epidemiology of Coronary Atherosclerosis Among People Living With HIV in Uganda**

Mark J. Siedner, Brian Ghoshhajra, Geoffrey Erem, Rita Nassanga, Mangun Randhawa, Moses Acan, Zahra Reynolds, Flavia Atwiine, Edna Tindimwebwa, Ntobeko Ntusi, Alexander Tsai, Susanne Hoepfner, Chris Longenecker, Samson Okello, Stephen Asiimwe, for the Uganda CAD (Coronary Artery Disease) Study Team

178
10:29 AM **Plaque, Inflammation, Subclinical Myocardial Injury, and MACE in the REPRIEVE Mechanistic Substudy**

Michael T. Lu, Sara McCallum, Heather Ribaud, Markella V. Zanni, Christopher R. Defilippi, Jana Taron, Julia Karady, Borek Foldyna, Sarah Chu, Carl Fichtenbaum, Carlos Malvestutto, Judith Aberg, Thomas Mayrhofer, Pamela Douglas, **Steven Grinspoon**, for the REPRIEVE Study Team

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

179
11:00 AM **Frailty Is Associated With Higher MACE Incidence but Does Not Appear to Modify Pitavastatin Effects**
Kristine M. Erlandson, Ariela R. Orkaby, Triin Umbleja, Heather Ribaudo, Todd Brown, Kathleen V. Fitch, Carlos Malvestutto, Karen T. Tashima, Marcus V. G. Lacerda, Sonya L. Heath, Alan Landay, George A. Kuchel, Pamela Douglas, Steven Grinspoon, for the REPRIEVE Study Team

180
11:08 AM **Prognostic Value of Epigenetic Age Acceleration in People With Well-Controlled HIV Infection**



Patricia Martínez-Martín, Andrés Esteban-Cantos, Francisco Jurado, Rocío Montejano Sanchez, Lucía Gutiérrez, Alejandro de Gea Grela, Juan Carlos González, Cristina Marcelo, Alejandro Díez-Vidal, María del Mar Arcos-Rueda, Luis Ramos, Rosa De Miguel Buckley, María Jiménez-González, Berta Rodés, Jose R. Arribas

181
11:16 AM **Semaglutide Stabilizes Epigenetic Aging in People With HIV-Associated Lipohypertrophy**

Michael J. Corley, Alina Pang, Danielle Labbato, Allison Ross Eckard, Grace A. McComsey

182
11:24 AM **Letermovir for CMV Suppression Improves Immunologic and Functional Aging Outcomes in Treated HIV**



Sara Gianella Weibel, Kristine M. Erlandson, Doug Kitch, Shirley Qiu, Yoshi Fukazawa, Milenka V. Meneses, Scott L. Letendre, Michael P. Dube, Lawrence Fox, John Koethe, Priscilla Hsue, Davey Smith, Michael L. Freeman, Peter W. Hunt, for the ACTG A5383 Study Team

11:32 AM **Questions and Answers (Part 2)**

Oral Abstract Session-11 | Gaps and Solutions in the HIV Response

10:00 AM - 12:00 PM • San Francisco Ballroom A

Moderators



Meg Doherty
World Health
Organization
Geneva, Switzerland



Till W. Bärnighausen
Heidelberg University
Heidelberg, Germany

10:00 AM **Introduction of Speakers (Part 1)**

183
10:05 AM **Preliminary Efficacy for HPTN 094: 26-Week RCT of Integrated Strategies for People Who Inject Drugs**

Philip Andrew, Nabila El-Bassel, **Steve Shoptaw**, Brett S. Hanscom, David Goodman-Meza, Irene Kuo, Jordan E. Lake, Ellen Morrison, Jayla Harris, Timothy Skalland, Paul Richardson, Melissa Cummings, Dale Burwen, Redonna Chandler, David Metzger, for the HPTN 094 Study Team

184 **Most With HIV Viremia Are Not in Care Despite High ART Coverage: A Population-Based Study in Uganda**
 10:13 AM **Silas Odiya**, Michelle Moffa, Grace Kigozi, Gertrude Nakigozi, Joseph G. Rosen, Larry W. Chang, Caitlin E. Kennedy, Anthony Ndyababo, Nakawooya Hadijja, Thomas C. Quinn, Godfrey Kigozi, Ronald Galiwango, Steven J. Reynolds, Joseph Kagaayi, M. Kate Grabowski

185 **Low-Cost Counseling Achieves Positive Outcomes for Malawi Men Disengaged From Care: Randomized Trial**
 10:21 AM **Kathryn L. Dovel**, Kelvin Balakasi, Isabella Robson, Bruce Larson, Chi-Hong Tseng, Khumbo Phiri, Sam Phiri, Stanley Ngoma, Khumbo Namachapa, Morna Cornell, Thomas Coates, Augustine T. Choko

186 **Clinic Switching and Elevated HIV Viral Load in 6 African Countries: A Population-Based Study**
 10:29 AM  **Joseph G. Rosen**, M. Kate Grabowski, Robert Ssekubugu, Caitlin E. Kennedy, Larry W. Chang, Gertrude Nakigozi, Fred Nalugoda, Ronald Galiwango, Godfrey Kigozi, Steven J. Reynolds, Joseph Kagaayi

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

187 **How Do Repeated Financial Incentives Affect HIV Care-Seeking Behaviors Over Time?**
 11:00 AM **Solis Winters**, Emmanuel Katabaro, Babuu Joseph, Kassim Hassan, Hamza Maila, Janeth Msasa, Amon Sabasaba, Prosper Njau, William Dow, Sandra I. McCoy

188 **Effect of a Person-Centered Care Intervention on Reengagement After Care Interruptions in Zambia**
 11:08 AM  **Aaloke Mody**, Kombatende Sikombe, Sandra Simbeza, Laura Beres, Jake M. Pry, Njekwa Mukamba, Anjali Sharma, Jacob Mutale, Alida Dube, Musunge Mulabe, Chuck Goss, Carolyn Bolton-Moore, Izukanji Sikazwe, Elvin H. Geng

189 **Systems Analysis and Improvement Approach to Optimize Hypertension Care for People Living With HIV**
 11:16 AM Onei A. C. Uetela, Ana Olga Mocumbi, Kristjana Asbjornsdottir, Orvalho Augusto, Amanda Brumwell, Amido Charama, Maxinel Chidacua, Joana Coutinho, Ruth Etzioni, Akash Malhotra, Kenneth Sherr, **Sarah Gimbel**

190 **SEARCH Integrated HIV/Hypertension Community Health Worker-Led Intervention in Rural East Africa**
 11:24 AM **Matt Hickey**, Asiphas Owaraganise, Sabina Ogachi, Colette Aoko, Jane Kabami, Elijah Kakande, Wafula E. Mugoma, Nicole Sutter, Gabriel Chamie, Maya Petersen, Laura Balzer, Diane V. Havlir, Moses Kamya, James Ayieko

11:32 AM **Questions and Answers (Part 2)**

Oral Abstract Session-12 | Expanding the Prevention Toolbox

10:00 AM - 12:00 PM • San Francisco Ballroom D

Moderators



Sarah E. Rutstein
University of North
Carolina at Chapel Hill
Chapel Hill, NC, USA



Zachary A. Kwen
Kenya Medical
Research Institute-
UCSF Infectious
Disease Research
Training Program
Kisumu, Kenya

10:00 AM **Introduction of Speakers (Part 1)**

191 **Long-Acting Cabotegravir PrEP Uptake and Persistence in a Large US Healthcare System**

10:05 AM



Michael Traeger, Wendy Leyden, Jonathan Volk, Michael Silverberg, Michael Horberg, Teaniese Davis, Kenneth Mayer, Douglas Krakower, Jessica Young, Samuel Jenness, Julia Marcus

192 **ImPrEP CAB Brasil: Enhancing PrEP Coverage With CAB-LA in Young Key Populations**

10:13 AM



Carolina Coutinho, Brenda Hoagland, **Beatriz Grinsztejn**, Alessandro S. Farias, Jose Valdez Madruga, Josué Lima, Maria Paula Mourão, Roberta Pereira Trefiglio, Marcos Benedetti, Cristina Pimenta, Ronaldo Ismério, Raphael J. Landovitz, Thiago Silva Torres, Valdilea Gonçalves Veloso, for the ImPrEP CAB Brasil Study Group

193 **Estimation of Prevention-Effective CAB-LA Concentrations Among MSM/TGW in HPTN 083**

10:21 AM



Brett S. Hanscom, Mark A. Marzinke, Robert R. Bies, Deborah J. Donnell, Craig Hendrix, Xinnong Li, Zhe Wang, Carolina Acupil, Alex Rinehart, James F. Rooney, Lydia Soto-Torres, Marybeth McCauley, Beatriz Grinsztejn, Raphael J. Landovitz

194 **Adherence to F/TAF in Cisgender Women Prevents HIV With Low Risk of Resistance or Diagnostic Delay**

10:29 AM

Flavia M. Kiweewa, Khatija Ahmed, Gonasagrie Nair, Stephanie Cox, Alexander Kintu, Christoph Carter, Moupali Das, Ravindre Panchia

10:37 AM **Questions and Answers (Part 1)**

10:55 AM **Introduction of Speakers (Part 2)**

195 **Performance of HIV RNA Screening in the Context of Long-Acting Injectable Cabotegravir in HPTN 084**

11:00 AM

Sinead Delany-Moretlwe, Michael Holt, Brett S. Hanscom, Estelle Piwowar-Manning, Aida Asmelash, Nyaradzo Mgodli, Patricia N. Ntege, Jennifer Farrior, Lydia Soto-Torres, James F. Rooney, Alex Rinehart, Myron Cohen, Mina Hosseinipour, Susan H. Eshleman, for the HPTN 084 Study Team



196 **PILLAR Month 12 Clinical Results: Zero HIV Acquisition and High Persistence With CAB LA for PrEP**
 11:08 AM Nanlesta Pilgrim, Alison Gaudion, Bo Li, Julian A. Torres, William Valenti, Dima Dandachi, Hadrian Holder, Riya Moodley, Todd McKeon, Deanna Merrill, Michael Aboud, Kimberley Brown, Maggie Czarnogorski, **Taimur Khan**

197 **Response to HIV Treatment After Long-Acting Cabotegravir Preexposure Prophylaxis in HPTN 083**
 11:16 AM  **Raphael J. Landovitz**, Jessica M. Fogel, Zhe Wang, Estelle Piwowar-Manning, Elias Konstantine Halvas, Deborah J. Donnell, Marybeth McCauley, Robinson Cabello, Keren Middelkoop, Lydia Soto-Torres, James F. Rooney, Alex Rinehart, Beatriz Grinsztejn, Susan H. Eshleman, for the HPTN 083 Study Team

198 **WITHDRAWN**

199 **An Injectable Multipurpose Implant With CAB and MPA for Long-Acting HIV Prevention and Contraception**
 11:24 AM Ivana Massud, Jasmine King, Adam Vera, Isabella Young, Thy Le, Jessica Levine, James Mitchell, Eric Edwards, Mackenzie Cottrell, Angela Kashuba, Walid Heneine, Gerardo Garcia-Lerma, **Rahima Benhabbour**, Charles Dobard, Craig Sykes

11:32 AM **Questions and Answers (Part 2)**

Oral Abstract Session-13 | Late-Breaking Antiviral Therapy: It Doesn't Get Any Hotter Than This!
 12:15 PM - 1:15 PM • San Francisco Ballroom B

Moderators



Judith S. Currier
*University of California
 Los Angeles
 Los Angeles, CA, USA*



Huldrych F. Günthard
*University of Zurich
 Zurich, Switzerland*

12:15 PM **Introduction of Speakers**

200 **Ensirelvir to Prevent COVID-19 in Households: SCORPIO-PEP Phase III Placebo-Controlled Trial Results**
 12:15 PM  Akimasa Fukushima, Masaharu Shinkai, Tristan W. Clark, Annie F. Luetkemeyer, Paul Sax, William Hanage, Kelly Gebo, Hideyuki Ikematsu, Koichi Izumikawa, Christopher C. Butler, **Frederick G. Hayden**, Safwan Kezbor, Hiroki Sakaguchi, Norio Ohmagari, Takeki Uehara, for the SCORPIO-PEP Study Team

201 **Tecovirimat Is Safe but Not Efficacious in People With Clade II Mpox**

12:23 PM



Timothy Wilkin, William A. Fischer II, Lu Zheng, Caitlyn McCarthy, Pooja Saha, Arzhang Javan, Alexander L. Greninger, Kristina Brooks, Rachel A. Bender Ignacio, Annie F. Luetkemeyer, Joseph J. Eron, Rajesh T. Gandhi, Sharon Nachman, Judith Currier, Jason Zucker, for the ACTG A5418 Study Team

202 **Randomized Trial of Long-Acting Cabotegravir and Rilpivirine in Africa (CARES): Week 96 Results**

12:31 PM



Cissy Kityo, Ivan K. Mambule, Simiso M. Sokhela, Reena Shah, Joseph Musaaazi, Caroline Otiike, Henry Mugerwa, Fiona Cresswell, Charity Wambui, Ibrahim Yawe, Josphat Kosgei, Logashvari N. Naidoo, Veerle Van Eygen, Fafa A. Boateng, Nicholas Paton, for the CARES Trial Team

203 **VH3810109 (N6LS) Efficacy and Safety in Adults Who Are Virologically Suppressed: The EMBRACE Study**

12:39 PM



Peter Leone, **Babafemi Taiwo**, Margaret Gartland, Paul Wannamaker, Annie F. Luetkemeyer, Charlotte-Paige M. Rolle, Christopher J. Bettacchi, William Towner, Michael Warwick-Sanders, Riccardo D'Agostino, Rulan Griesel, Chelsea MacFarlane, David Dorey, Sherene Min, Jan Losos

204A **Switch to DOR/ISL (100/0.25 mg) QD From BIC/FTC/TAF: A Blinded Phase III Study in Adults With HIV-1**

12:47 PM



Michelle Fox, Anthony M. Mills, Moti Ramgopal, Christopher J. Bettacchi, Olayemi Osiyemi, Federico Hineostroza, Gordon E. Crofoot, Harold P. Katner, Hiroyuki Gatanaga, Margaret Johnson, Feng-Hsiu Su, Alice Xu, Luisa Stamm, **Amy E. Colson**, Rima Lahoulou

204B **Switch to DOR/ISL (100/0.25 mg) QD From Oral ART: An Open-Label Phase III Study in Adults With HIV-1**

12:55 PM



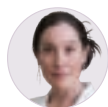
Michelle Fox, Rosie Mngqibisa, Juan Diego Velez, Princy Kumar, Dominique L. Braun, Andrew Carr, Mark Bloch, Sharon Walmsley, Pablo Tebas, Anjana Grandhi, Stephanie Klopfer, Luisa Stamm, **Chloe Orkin**, Jason Kim

12:59 PM **Questions and Answers**

Themed Discussion-10 | Hide and Seek: HIV in Tissues

1:30 PM - 2:30 PM • San Francisco Ballroom D

Themed Discussion Leader



Zabrina L. Brumme
Simon Fraser University
Burnaby, Canada

1:30 PM **Session Overview**

585

1:35 PM



HIV Reservoir in Jejunum Exhibits Distinct Phenotypic Features and Evokes Innate Cell Redistribution

Marta Calvet-Mirabent, Monet Yuan, Xiaoyu Luo, Julie Frouard, Jason Neidleman, Ashley F. George, Stan Tamaki, Antoine Chaillon, Elizabeth Hastie, Davey Smith, Collin Kieffer, Nadia R. Roan, Sara Gianella Weibel

582

1:40 PM

Predominance of Non-T Follicular Helper Cell Subsets in the Lymph Node Viral Reservoir During ART

Vincent H. Wu, Jayme Nordin, M. Betina Pampeña, Perla Mariana Del Río Estrada, Fernanda Torres Ruiz, Mauricio González Navarro, Yara Andrea Luna Villalobos, Santiago Avila Rios, Gustavo Reyes-Teran, Michael Betts

587

1:45 PM



HIV Transcriptional Regulation in the CNS of ART-Suppressed People With HIV

Janna Jamal Eddine, Emily Chalmers, Jingling Zhou, Sarah Byrnes, Sushama Telwatte, Bruce Brew, Michael Roche, Thomas Angelovich, Melissa Churchill

588

1:50 PM

Association of CSF Viral Compartmentalization and Macrophage Tropism With Neurosymptomatic HIV

Laura P. Kincer, Sarah B. Joseph, Natalie M. Bowman, Chris Evans, Alyssa Vecchio, Ameet Dravid, Serena Spudich, Magnus Gisslén, Prema Menezes, Joseph J. Eron, Richard W. Price, Ronald I. Swanstrom

1:55 PM

Discussion With Audience Q&A

Themed Discussion-11 | “Growing Up” With HIV Exposure

1:30 PM - 2:30 PM • San Francisco Ballroom A

Themed Discussion Leader



Ceri Evans

*University of Liverpool
Liverpool, UK*

1:30 PM

Session Overview

1021

1:35 PM

Growth Faltering Is Partially Ameliorated by Infant Gut *Bifidobacterium* in Children Exposed to HIV

Nicole Tobin, Christine J. McGrath, Fan Li, Charles Mutinda, Priscah Lihanda, Mame M. Diakhate, Grace John-Stewart, Benson O. Singa, Grace Aldrovandi

1022

1:40 PM

Insulin-Like Growth Factors and Stunting in African Infants Exposed to HIV and Uninfected

Brenda C. Kakayi, Patricia DeMarrais, Kristin Baltrusaitis, Lynda Stranix-Chibanda, Clemensia Nakabiito, Vivian Rexroad, Maxensia Owor, Sufia Dadabhai, Dhayendre Moodley, Friday Saidi, Avy Violari, Gerhard Theron, Mary G. Fowler, Takara L. Stanley, for the IMPAACT P1084s Protocol Team



1023
1:45 PM**Cardiometabolic Outcomes in HEU vs HU Children in a SA Birth Cohort: Influence of Maternal Lipids****Calli Dogon**, Jennifer Pellowski, Heather Zar, Angela Bengtson, Tiffany Burd, Maresa Botha, Lesley Workman1024
1:50 PM**Obesity and Metabolic Comorbidities in Young Adults With Perinatal HIV Exposure Without Infection****Nikhita Chahal**, Allison K. Arpante, Julia E. Johnson, Camille A. Dash, Mollie W. Ockene, Isabel Zheng, Autumn Boutin, Hang Lee, Kathleen Corey, Takara L. Stanley, Steven Grinspoon, Lindsay T. Fourman

1025

WITHDRAWN

1:55 PM

Discussion With Audience Q&A**Themed Discussion-12 | Long COVID: Pathogenesis and Clinical Manifestations**

1:30 PM - 2:30 PM • San Francisco Ballroom B

Themed Discussion Leader**Robert T. Schooley***University of California San Diego
La Jolla, CA, USA*

1:30 PM

Session Overview935
1:35 PM**Long COVID Associates With Slow Viral Clearance and Viral Rebound During Acute SARS-CoV-2 Infection**Carly Herbert, Nisha Ramdeep, **AnnuKka Antar**, John Broach, Colton Wright, Pamela Stamegna, Katherine Luzuriaga, Nathaniel Hafer, David McManus, Yukari Manabe, Apurv Soni932
1:40 PM**Longitudinal Changes in Arterial Stiffness and Inflammation From Pre- to Post-COVID-19 Infection****Jhony Baissary**, Ornina Atieh, Jared C. Durieux, Alexander Merheb, Danielle Labbato, Theresa Foster, Michael Rodgers, Grace A. McComsey936
1:45 PM**Preserved Adrenal Function in People With Long COVID****AnnuKka Antar**, Armaan Jamal, Zoe O. Demko, Elizabeth Pasetes, Tamilore Adeagbo, Selin Akbas, Cherie Marvel, Andrea Cox, Michael Peluso, Alan Landay, Neal Fedarko, Amir Hamrahian, Tracy Vannorsdall, Alba M. Azola, Yukari ManabeNew Investigator
Scholarship AwardeeLate-Breaking
Abstract

940

1:50 PM



Plasma Biomarkers in Children and Young People With Long COVID

Jon Izquierdo-Pujol, Victor Urrea, Maria C. Puertas, Judith Dalmau, Alba González-Aumatell, Clara Carreras-Abad, Maria Méndez, Carlos Rodrigo, Javier Martínez-Picado, Sara Morón-López

942

1:55 PM



Immune Profile of Children With Post-COVID-19 Cardiac Contractility Alterations: A Prospective Study

Costanza Di Chiara, Anna Cantarutti, Jolanda Sabatino, Domenico Sirico, Francesco Bonfante, Daniele Donà, Anita De Rossi, Carlo Giaquinto, Maria Raffaella Petrara, Giovanni Di Salvo

2:00 PM

Discussion With Audience Q&A

Themed Discussion-13 | Lessons in DoxyPEP Implementation

1:30 PM - 2:30 PM • San Francisco Ballroom C

Themed Discussion Leader



Jennifer Balkus

*Public Health–Seattle & King County
Seattle, WA, USA*

1:30 PM

Session Overview

1275

1:35 PM

Postexposure Prophylaxis With Doxycycline (Doxy PEP) in a Cohort of High-Risk MSM: The PRIDOX Study

Cristina Gómez-Ayerbe, **Jesús Santos**, Maria Lopez Jodar, Salvador Martín-Cortés, Isabel Pérez-Hernández, Andrés González, Rosario Palacios

1282

1:40 PM

The Actual Need for DoxyPEP Might Not Be as Large as Expected

Roberto Rossotti, Daniele Calzavara, Enrico Caruso, Anna De Bona, Davide Moschese, Camilla Muccini, Daniele Tesoro, Pietro Vinti, Massimo Cernuschi, Alessandro Tavelli, Antonella d'Arminio Monforte, Giuseppe Lapadula

1284

1:45 PM



Antimicrobial Consumption Among Users of Doxycycline Postexposure Prophylaxis in Milan, Italy

Angelo Roberto Raccagni, Sara Diotalle, Riccardo Lolatto, Elena Bruzzesi, Flavia Badalucco Ciotta, Giacomo Ponta, Flavia Passini, Caterina Candela, Camilla Muccini, Antonella Castagna, Silvia Nozza

1288

1:50 PM

DoxyPrEP Impact on the Microbiome of Men Who Have Sex With Men and Transgender Women on HIV PrEP

Adam D. Burgener, Troy Grennan, Samantha Knodel, Marlon De Leon, Alana Lamont, Joshua Edward, Saira Mohammed, Tessa Tattersall, Jason Wong, Mark Hull, Amit Gupta

1:55 PM

Discussion With Audience Q&A



Interactive Symposium-08 | Pathogenesis of HIV in the Brain: The Final Frontier

4:00 PM - 5:30 PM • San Francisco Ballroom C **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- Advances in HIV central nervous system reservoir research
- The mechanisms for HIV establishment and persistence in the brain
- Future opportunities for translational studies to target HIV central nervous system persistence across the spectrum of HIV infection

Target Audience: This session is directed to virologists, immunologists, clinicians, and all stakeholders interested in the latest information on the pathogenesis of HIV in the brain.

Level of Knowledge: It is assumed that the participants are familiar with the basic elements of HIV pathogenesis and its impact on the central nervous system.

Moderators



Sarah B. Joseph
University of North
Carolina at Chapel Hill
Chapel Hill, NC, USA



Felicia Chow
University of
California San
Francisco
San Francisco, CA, USA

43

4:00 PM

Multimomics in the Brain

Howard Fox, University of Nebraska,
Omaha, NE, USA



44

4:20 PM

The Central Nervous System Reservoir: Impact for Cure and Ongoing Neuropathology

Melissa Churchill, Royal Melbourne Institute of
Technology, Melbourne, Australia



45

4:40 PM

Emerging Role of T Cells in the Central Nervous System

Lydie Trautmann, Henry M Jackson Foundation,
Bethesda, MD, USA



WEDNESDAY

Interactive Symposium-09 | Making Sense of Integrase Strand Transfer Inhibitor Failure and Resistance

4:00 PM - 5:30 PM • San Francisco Ballroom B **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- The incidence of emergent dolutegravir resistance reported from clinical trials and antiretroviral therapy (ART) programs and the risk factors identified

- The implications of dolutegravir resistance for ART programs in terms of monitoring and management algorithms
- The risk factors for virologic breakthrough and resistance on injectable cabotegravir/rilpivirine (CAB/RPV), including pharmacokinetic considerations
- The consequences of integrase strand transfer inhibitor resistance for scale-up of injectable CAB/RPV

Target Audience: This session is directed to clinicians, immunologists, virologists, epidemiologists, and public health officials who are interested in drug resistance for ART programs.

Level of Knowledge: It is assumed that the participants are familiar with fundamental principles of antiretroviral therapy and drug resistance.

Moderators



Mina Hosseinipour
University of North
Carolina Project–Malawi
Lilongwe, Malawi



Graeme Meintjes
University of Cape Town
Cape Town, South Africa

46

4:00 PM

Dolutegravir Resistance: How Frequent Is It and How Will It Evolve?

Nicaise Ndembu, *Africa Centres for Disease Control and Prevention, Addis Ababa, Ethiopia*



47

4:20 PM

Dolutegravir Resistance: What Are the Implications for Antiretroviral Therapy Programs?

Jeremy Nel, *University of the Witwatersrand, Johannesburg, South Africa*



48

4:40 PM

Long-Acting InSTI Strategies: Understanding the Risks for Failure and Resistance

Saye Khoo, *University of Liverpool, Liverpool, UK*



5:00 PM

Panel Discussion

Panelists

Suzanne M. McCluskey, *Harvard University, Cambridge, MA, USA*



Brenda E. Crabtree-Ramírez, *Instituto Nacional de Ciencias Médicas y Nutrición, Salvador Zubirán, Mexico City, Mexico*



Anna Turkova, *University College London, London, UK*



Interactive Symposium-10 | Putting People at the Center of Prevention: New Models of Delivery

4:00 PM - 5:30 PM • San Francisco Ballroom D **CME**

Objectives: At the completion of the session, participants will be able to list, explain, or describe:

- The current landscape and future directions of HIV prevention delivery through pharmacies
- The mechanisms of prevention service delivery that have demonstrated success in specific cultural and geographic contexts
- The data gaps in generalizability and scale-up of differentiated service delivery models
- The economic and programmatic barriers to implementation and scale-up of nonmedicalized service delivery

Target Audience: This session is directed to clinicians, program managers, and community members interested in the challenges and innovative strategies to deliver HIV prevention services.

Level of Knowledge: It is assumed that the participants are familiar with the basic concepts of HIV testing, prevention, and care.

Moderators



Catherine A. Koss
*University of California
San Francisco
San Francisco, CA, USA*



Kwasi Torpey
*University of Ghana
Accra, Ghana*

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4:00 PM

Leveraging Private-Sector Pharmacies to Expand Reach of Biomedical HIV Prevention Interventions

Katrina Ortblad, *Fred Hutchinson Cancer Center, Seattle, WA, USA*

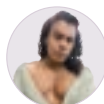


50

4:20 PM

Empowering Communities: A Peer-Based Model for Expanding Equitable Access to PrEP and PEP in Mexico

Alaín Pinzón, *VIHve Libre, Mexico City, Mexico*



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4:40 PM

We'll Come to You: A Mobile Clinic Preexposure Prophylaxis Delivery Model

Elzette Rousseau, *Desmond Tutu HIV Foundation, Cape Town, South Africa*



WEDNESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

MONDAY, MARCH 10, 2025

POSTER SESSIONS BY DAY

Poster Session-A1 | Mpox and HIV Virology

2:30 PM - 4:00 PM • Poster Hall

- 300** **Understanding the Evolutionary Framework and Transmission Dynamics of Mpox in South Korea**
Minji Lee, **Chihwan Choi**, Sang Eun Lee, Gyuri Sim, Jin-Won Kim, Myung-Min Choi, Hwajung Yi, Yoon-Seok Chung
- 301** **Fine-Tuning Viral Adaptation Through Genome Retraction: Insights From Mpox Outbreaks in South Korea**
Yoon-Seok Chung, **Minji Lee**, Chihwan Choi, Sang Eun Lee, Gyuri Sim, Jin-Won Kim, Hwachul Shin, Hwajung Yi
- 302** **Discovery of Aberrant Genomic Rearrangement in an Mpox Virus Genome Observed in a Japanese Patient**
Hidetoshi Igari, Eiji Ido, Toshibumi Taniguchi, **Takayuki Ishige**
- 303** **Factors Associated With Detectable Viral Load Among PLHIV in Serodiscordant Partnerships in Tanzania**
Abbas Ismail, Damian Damian, Emilian Karugendo, Fahima Issa, Deogratias Kakiziba, Ahmed Khatib, Lilian S. Shija, Rebecca Laws, George S. Mgomella, Alexander Kailembo, Mahesh Swaminathan, Sarah Porter

Poster Session-A2 | HIV-1 Envelope and Viral Tropism

2:30 PM - 4:00 PM • Poster Hall

- 304** **Enhanced Recognition of V3 bNAbs Epitopes Induced by Fostemsavir on Cell-Associated Primary HIV-1 Env**
Raymond A. Alvarez, Eric Acosta, **Svenja Weiss**, Dania Figueroa Acosta, Benjamin Chen
- 305** **CXCR4-Using HIV-1 Variants Evolve in the Presence of and Co-Exist With CCR5-Using Variants**
Shuntai Zhou, Nathan Long, Ean Spielvogel, Michelle Floris-Moore, Catalina Ramirez, Andrew Edmonds, Yijia Li, Ighowherha Oforokun, Seble Kassaye, Kathryn Anastos, Margaret Fischl, Stephen Gange, Christina Ochsenbauer, Alan Landay, Jack Dehovitz
- 306** **Droplet Single Genome Amplification Allows for Characterization of Autologous HIV Envelope Sequences**
Joseph McWhirter, Thomas Murphy, Xianbao He, Yan Mei Liang, Frida Avila, Stepan Levin, Manish Sagar
- 307** **High Resistance of HIV-1CH040 Envelope Glycoproteins to bNAbs Without Loss of Efficient Viral Entry**
Durgadevi Parthasarathy, Alon Herschhorn, Stephanie Pickthorn, Shamim Ahmed, Rajni Kant Shukla, Jeffy Jeffy, Amit Sharma, Dmitrii Mazurov
- 308** **Sex Differences in Replication Kinetics of Primary HIV-1 Isolates in Monocyte-Derived Macrophages**
Jake Robinson, Gregory D. Whitehill, Hannah Schrader, Ryan Krause, Frederic Bibollet-Ruche, Katharine Bar

MONDAY



Poster Session-B1 | Non-HIV Viruses

2:30 PM - 4:00 PM • Poster Hall

MONDAY

- 331**  **Impact of Pre-Existing Immune Activation on SARS-CoV-2 Incidence and Disease During the First Wave**
Diana S. Yang, Cong Xie, Suji Udayakumar, Sanja Huibner, Karen Colwill, Anne-Claude Gingras, Joshua Kimani, Rupert Kaul
- 332**  **Unique SARS-CoV-2 Variants and Inflammatory Milieu in Urine of Severe COVID-19 Participants**
Aarthi Subramani, Tatianna Travieso, Zeguo Sun, Danai Psaradelli, Mary Klotman, Weijia Zhang, Maria Blasi
- 333** **Bile Acids in the Modulation of Antiviral Immune Response**
Eileen F. Serrano, Diego A. Diaz-Dinamarca, Paul Dawson, Ali Muhammad, Grace A. McComsey, Rafael F. Medina, Elias Haddad, Nadine Rouphael, Slim Fourati, Jeffrey A. Tomalka, Rafick P. Sekaly
- 334** **The Bile Acids Complexity Underlies an Antiviral Interferon Innate Signaling During COVID-19 Disease**
Diego A. Diaz-Dinamarca, Slim Fourati, Eileen F. Serrano, Felipe Ten-Caten, Valentino D'Onofrio, Ali Muhammad, Nadine Rouphael, Grace A. McComsey, Elias Haddad, Jeffrey A. Tomalka, Rafick P. Sekaly, for the IMPACC Network
- 335**  **The Influence of Chronic HIV Inflammation on Post-COVID Immune Activation**
Skye Opsteen, Mildred Perez, Carson Norwood, Aoyjai Montgomery, Emily Levitan, Paul Goepfert, Nathan Erdmann
- 336**  **Lipid Nanoparticles Targeting Neutrophils and NETs to Mitigate Lung Injury in SARS-CoV-2 Mice**
Juwon Park, Haeun Shin, Stefanos Giannakopoulos, Joo Dong Park, Chun Gwon Park, Saguna Verma, Wooram Park
- 337**  **Vitamins K₂ and D₃ Improve Long COVID Index, Fungal Translocation, and Inflammatory Biomarkers**
Omina Atieh, Jhony Baissary, Jared C. Durieux, Danielle Labbato, Marc Abboud, Ziad Koberssy, Joviane Daher, Kate Ailstock, Morgan Cummings, Nicholas Funderburg, Grace A. McComsey
- 338**  **High-Fat and -Sugar Diet but Not SIV Coinfection Enhances SARS-CoV-2 Shedding in Infected Macaques**
Kelsie Brooks, Arvind Sivanandham, Quentin Le Hingrat, Anna Jasinska, Delmy Ruiz, Lilly Carson, Lilas Tarnus, Mohammed Daira, Makheni Jean Pierre, Cristian Apetrei, Jason Brenchley, Ivona Pandrea
- 339**  **Sustained Inflammation and Delayed Resolution of COVID-19 Disease in SIV-Infected Macaques**
Dhiraj K. Singh, Gayathri Ravichandran, Garima Arora, Xavier Alvarez, Ricardo Carrion, Shannan Hall-Ursone, Edward Dick, Deepak Kaushal
- 340** **Monocyte Dysregulation in PASC With Ongoing Pulmonary Symptoms**
Thomas K. Awamura, Stefanos Giannakopoulos, Dominic C. Chow, Cecilia M. Shikuma, Gehan Devendra, Vedbar Khadka, Juwon Park

341 Retroviral Infection Reprograms Mouse Embryonic Stem Cells

Andrew D. Mazzanti, Miguel Ramalho-Santos

Poster Session-B2 | Host-HIV Interaction

2:30 PM - 4:00 PM • Poster Hall

342 Untangling the Impact of CD101 on HIV-1 Transmission

Phuong Vo, German Gornalusse, Shahrokh Paktinat, Sean M. Hughes, Matthew H. Ikuma, Claire N. Levy, Hannah L. Itell, Adino T. Tsegaye, Lucia N. Vojtech, Julia Lemas, Sachi Saxena, Jairam Lingappa, Florian Hladik, for the International Clinical Research Center

343 CD40L/IL-4 Stimulated B Cells as Efficient Mediators of HIV-1 Binding and *Trans* Infection

Abigail Gerberick, Allison DePuyt, Peter Shoucair, Robbie Mailliard, Nicolas Sluis-Cremer, Charles Rinaldo

344 Feminizing Hormone Therapy and the Rectal Mucosal Immune Environment

Stacey Smith, Mengyu He, Phillip M. Murray, Cassie G. Ackerley, Suparat Khemnark, Vin Tangpricha, Yijuan Hu, Colleen Kelley

345 HIV-1 Vpr Promotes Viral Replication, Granzyme B Expression, and Death of Gut CD4 T Cells Ex Vivo

Kaylee Mickens, Kejun Guo, Brad Barrett, Stephanie M. Dillon, Ashley Thompson, Cara C. Wilson, Mario L. Santiago

346 Early HIV-1 Genetic Diversity Includes CTL and Drug Resistance Mutations

Adam A. Capoferri, Valerie F. Boltz, Wei Shao, Clarissa Halpern, Rasmi Thomas, Morgane Rolland, Nittaya Phanuphak, Lydie Trautmann, Julie Ake, Carlo Sacdalan, Somchai Sriplienchan, Jason W. Rausch, John W. Mellors, **John Coffin**, Mary Kearney, for the RV254/SEARCH 010 Study Team

347 Tuberculosis Promotes the Persistence of Genetically Intact HIV in People With HIV and Tuberculosis

Samantha K. Cronin, Andrea Pereyra Casanova, Eunok Lee, Katie Fisher, Anthony D. Kelleher, Natalia Laufer, Gabriela Turk, Maria Florencia F. Quiroga, Christel Vérollet, Luciana Balboa, Sarah Palmer, Gabriel Duette

348 Species-Specific Splicing of DNA Editing Enzymes: Implications in HIV and SIV Mutagenesis

Diako Ebrahimi, Armando Mendez, Rachael Rodriguez, Kathryn A. Jackson-Jones, Margarita Rzhetskaya, Nadeen Abdalla, Luis Ferrández-Peral, Fiona Carter-Tod, Judd F. Hultquist

349 Transcriptionally Active Defective HIV-1 Proviruses Persist in All CD4 T-Cell Subsets During ART

Hiromi Imamichi, Francesca Scrimieri, Shweta Mistry, Birgit Grund, H. Clifford Lane, Jason Baker, for the INSIGHT START Study Group

350



Utilizing Defective HIV-1 Provirus as a Novel “Barcode” for Studying T-Cell Dynamics

Vinie Kouamou, Mindy Smith, Brad T. Sherman, Catherine Rehm, Weizhong Chang, H. Clifford Lane, Hiromi Imamichi

351

Similar Intact and Defective HIV Provirus Frequency in Suboptimal Immune Responders and Controls

Arianna Romero, Danielle Rigau, Selin Akbas, Richard Moore, Joseph J. Eron, John W. Mellors, Deborah McMahon, Rajesh T. Gandhi, Michael M. Lederman, Steven G. Deeks, Ronald J. Bosch, Robert F. Siliciano, Janet M. Siliciano, **Annukka Antar**, Constance A. Benson

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Impact of ART Initiation on HIV-1 Soluble gp120 Levels and CD4 Counts in PWH

Mehdi Benlarbi, Jonathan Richard, William D. Tolbert, Marzena Pazgier, Jean-Pierre Routy, Madeleine Durand, Andrés Finzi

353

Genetic Associations With CD4 Recovery in People With HIV After Initiation of Antiretroviral Therapy

Roxane Rohani, Qin Hui, Jennie T. Mather, Lishomwa Ndhlovu, Michael H. Chung, Kris Ann K. Oursler, Boghuma K. Titanji, Todd Hulgán, Brian Agan, Yan V. Sun, Vincent C. Marconi

354



R5-Tropic HIV Restricts X4-Tropic Virus via Type I IFN Signaling, Limiting Pathogenesis

Priya Pal, Bailey Quinn, Sara Nicholson, Hongbo Gao, Liang Shan

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Residual HIV Viremia Associates With Reservoir Size, but Not With Immune Activation or Inflammation

Twan Otten, Mareva Delporte, Nadira Vadaq, Adriana Navas, Wilhelm A. Vos, Albert L. Groenendijk, Marc J. T. Blaauw, Jéssica dos Santos, Vasiliki Matzaraki, Olivier Richel, Jan van Lunzen, Mihai G. Netea, Niels P. Riksen, Linos Vandekerckhove, Andre van der Ven, for the 2000HIV Human Functional Genomics Partnership Program

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Relationship Between Gut Microbiome and *Candida* in PWH: Role of Bacterial Extracellular Vesicles

Aya Ishizaka, Michiko Koga, Taketoshi Mizutani, Tetsuro Matano, Hiroshi Yotsuyanagi

357

The Mucosal Microbiome at Sites of HIV Acquisition Among Key Populations

Vanessa Van Doren, **Cassie G. Ackerley**, Robert A. Arthur, Henry Claussen, Suparat Khemnark, Phillip M. Murray, S. Abigail Smith, Vin Tangpricha, Colleen Kelley

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Virulent HIV-1B: Clinical Challenges and Proteomic Insights

Kavita Mehta, Mareva Delporte, Victoria Rios Vazquez, Marc J. T. Blaauw, Louise E. van Eekeren, Albert L. Groenendijk, Wilhelm A. Vos, Evy Blomme, Sarah Gerlo, Bram Vrancken, Philippe Lemey, Sofie Rutsaert, Andre van der Ven, Linos Vandekerckhove, for the 2000HIV Human Functional Genomics Partnership Program



Poster Session-C1 | CD8 T Cells in Infection and After Vaccination

2:30 PM - 4:00 PM • Poster Hall

MONDAY

400 **Duration of Viremia Modulates Antigen Sensitivity of HIV-Specific T-Cell Receptors**

Funsho Ogunshola, Nishant K. Singh, Vincent Butty, Anurag R. Mishra, Liza Vecchiarelli, Kate B. Juergens, Zacharia Habte, Alicja Piechocka-Trocha, Kavidha Reddy, Brandon J. Dekosky, Gaurav D. Gaiha, Krista Dong, Thumbi Ndung'u, Michael Birnbaum, Bruce Walker

401 **Low Post-ART SIV Viral Load Set Point Associated With Enhanced Lymph Node CD8+ T-Cell Proliferation**

Gina Borgo, George Gruenhagen, Benjamin Bimber, Shayleen Singh, Steven G. Deeks, Louis Picker, Afam Okoye, Rachel Rutishauser

402 **The Soft Escape: HIV Alters Host Cell Cytoskeleton as a Mechanism of Resistance to CTL Killing**



Louise Leyre, Farah Mustapha, Esther Lee, Alberto Herrera, Paul Zumbo, Doron Betel, Michael Galiano, Nada Wahman, Morgan Huse, R. Brad Jones

403 **CD8+ T-Cell Function During ART Is Associated With Provirus Suppression and Reduced Viral Rebound**



David R. Collins, Mpho Olatotse, Tyler Lilie, Xianbao He, Emanuele Mazzola, Manish Sagar, Bruce Walker, Athe Tsibris

404 **TCR Convergence in HIV Controllers: Insights Into Natural Viral Suppression**



Alexandra Vujkovic, Philipp A. Adams, Kadrie Ramadan, Nicky de Vrij, Vincent Van Deuren, Alexander Pasternak, Maartje Vanfrankenhuijsen, Wim Adriaensen, Benson Ogunjimi, Guido Vanham, Kris Laukens, Pieter Meysman, Koen Vercauteren, for the PhenoCure Study Group

405 **Robust CD8+ T-Cell Proliferation and Stem-Like Memory Phenotype Linked to HIV Post-Treatment Control**

Charles Crain, Behzad Etemad, Prerana Shrestha, Steven G. Deeks, Jonathan Li, Rachel Rutishauser, Gaurav D. Gaiha

406 **HIV Infection Does Not Generally Confer Higher Resistance to CTL-Mediated Lysis**



Niklas Bachmann, Bailey Kim, Steven G. Deeks, Robert F. Siliciano

407 **HIV-Specific T & Humoral Response: Data From the First Pediatric Combined Therapeutic Vaccine Trial**



Arianna Rotili, Chiara Pighi, Giulio Olivieri, Alessia Neri, Sarah Moreland, Elena Morrocchi, Ellen Turk, Shaun Barnabas, Mark Cotton, Mark de Souza, Hans Spiegel, Nicola Cotugno, Merlin Robb, Paolo Palma, for the HVRRICANE Study Group

408 **HIV-1-Specific T Cells From Post-Treatment Controllers and Noncontrollers**



Lisa L. Dietz, Rikke Olesen, Anna K. Juhl, Jesper D. Gunst, Miriam Rosás-Umbert, Ole S. Søgaard



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Impact of Gender-Affirming Hormone Therapy on T-Cell Phenotypes in Transgender Women With HIV

Elizabeth Hastie, Alan Wells, Antoine Chaillon, Stephen A. Rawlings, Brendon Woodworth, Vanessa Gomez-Moreno, Megha Srivatsa, Jill Blumenthal, Marvin Hanashiro, Jordan Lake, Sarah LaMere, Timothy Wilkin, Jonathan Karn, Eileen Scully

410

Differential Restoration of HIV-Specific CD8+ T Cells by Amino Acid and Lipid Metabolism Modulation

Ilya Tsukalov, Marta Calvet-Mirabent, Ildefonso Sánchez-Cerrillo, María Agudo-Lera, Lucio Jesús García Fraile Fraile, Paula Vera-Tome, Alba Roca-Portoles, Arantzazu Alfranca, Ana Dopazo, Aranzazu Rosado-Diez, Ana Quintas, Ignacio de los Santos, Francisco Sánchez-Madrid, Eduardo Balsa, **Enrique Martín Gayo**

411



Unmodified mRNA Compared to Modified mRNA Induces Optimal CD8+ T-Cell Responses in Rhesus Macaques

Sampa Santra, Michelle Lifton, Benjamin J. Mildenberg, Georgeanna M. Morton, Han Tran, Laura L. Sutherland, Robert Parks, Bette T. Korber, Tomas Hanke, Persephone Borrow, Drew Weissman, Francois Villinger, Barton Haynes

412



The Impact of Protein Specificity on Function and Crosstalk Between the HIV-Specific T Cells

Jernej Pusnik, Falko Heinemann, Andreas Heinold, Enrico Richter, Stefan Esser, Heiko Jessen, Julie Ake, Trevor Crowell, Merlin Robb, Hendrik Streeck

Poster Session-C2 | B Cells and Neutralizing Antibodies 2:30 PM - 4:00 PM • Poster Hall

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Provirus From Early-Treated HIV Reveals Earlier Variants Targeted by Initial Neutralizing Antibodies

Hunter M. Courtney, Gregory D. Whitehill, Ryan Krause, Noah Beratan, Sita Kottitil, Francesco E. Marino, Suvadip Mallick, Rebecca Hoh, Heather Hartig, Vivian Pae, Sannidhi Sarvadhavabhatla, Maria Sophia Donaire, Steven G. Deeks, Sulggi Lee, Katharine Bar

414

Structural Insight Into the High- and Low-Affinity Alleles of Human and Macaque FcγRIIA (CD32A)

William D. Tolbert, Marek K. Korzeniowski, Paula Nhan, Madeleine Lee, Haleigh Conley, Julianna Veilleux, Suneetha Gottumukkala, Margaret E. Ackerman, Justin Pollara, Marzena Pazgier

415



Antigen Affinity Ceiling for Selection of Functional Mutations and HIV-1 Neutralization

Ankita Singh, Kara Anasti, Amanda Newman, Advaiti Pai Kane, Maggie Barr, Robert Parks, Elizabeth Van Itallie, Sravani Venkatayogi, Kevin Saunders, Derek W. Cain, Rory Henderson, Kevin Wiehe, Barton Haynes, S. Munir Alam

416

Maturation of B-Cell Lineages During cART in Chronic SHIV-Infected Juvenile Rhesus Macaques

Wilton Williams, Yue Chen, Ryan Tuck, Derek W. Cain, Robert Edwards, Taylor Keyes, Mieke van der Mescht, Katayoun Mansouri, Taylor Spence, Francesco E. Marino, Seth Rohr, Madison Berry, Kevin Wiehe, Katharine Bar, Guido Ferrari

417



Public Trimer-Specific IgHV4-34 Clonotype in bNAb Inducers Includes a Novel V3-Glycan bNAb Subclass

Daniel Schmidt, Merle M. Schanz, Lisanne L. Hubregtse, Borys Pedenko, Piotr Szwedziak, Nikolas Friedrich, Chloé Pasin, Cyrille Niklaus, Winfried Weissenhorn, Penny L. Moore, Huldrych F. Günthard, Roger D. Kouyos, Peter Rusert, **Alexandra Trkola**, for the Swiss HIV Cohort Study

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WITHDRAWN

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In Nonsuppressible Viremia, HIV Env Can Maintain Resistance to Autologous Neutralizing Antibodies

Sang Hyeon Kim, Behzad Etemad, Ashley Roche, Abbas Mohammadi, Christy L. Lavine, Prerana Shrestha, Michael M. Lederman, Sigal Yawetz, Scott Sieg, Athe Tsibris, Steven G. Deeks, Jose Castillo-Mancilla, Peter Anderson, Michael S. Seaman, Jonathan Li

420

Molecular Mechanisms Underlying Anti-HIV-1 Fc-Effector Functions of Human IgA Allelic Variants

Marek K. Korzeniowski, William D. Tolbert, Haleigh Conley, Cordelia Manickam, Souradip Dasgupta, Maurice Bukonya, Andrew Hudson, Robin Flinko, Monika Chandravanshi, George K. Lewis, Georgia D. Tomaras, Krishanu Ray, R. Keith Reeves, Justin Pollara, Marzena Pazgier

421

Sensitivity of HIV-1 CRF01_AE Envelopes to Broadly Neutralizing Antibodies VRC07-523 and PGDM1400

Gabriel Smith, Sebastian Molnar, Michelle Zemil, Suteeraporn Pinyakorn, Indie Showell-De Leon, Diana Wasson, Carlo Sacdalan, Nittaya Phanuphak, Sandhya Vasani, Julie Ake, Lydie Trautmann, Morgane Rolland, Victoria Polonis, Shelly Krebs

422



Transcriptional Analysis of Intestinal Immune Cells in People With HIV Receiving bNAb

Connie A. Zhao, Divya Jha, Katrina Millard, Darwin D'souza, Vladimir Roudko, Francesca Cossarini, Marina Caskey, Saurabh Mehndru

423



Identification of an Autoantibody Against FCHSD2 in Adipose Tissue of PLWH With Diabetes

Laventa Obare, Samuel Bailin, Xiuqi Zhang, Kisyua Nthenge, Mona Mashayekhi, Curtis L. Gabriel, Simon A. Mallal, John Koethe, Wyatt J. McDonnell, Celestine Wanjalla

424

Detection of Anti-Interferon Alpha/Omega Neutralizing Autoantibodies in PLWH

Alessandra D'Auria, Federica Frasca, Matteo Fracella, Roberta Campagna, Luca Maddaloni, Ginevra Bugani, Letizia Santinelli, Ivano Mezzaroma, Caterina Fimiani, Claudio Maria Mastroianni, Guido Antonelli, Ombretta Turriziani, Gabriella d'Ettore, Carolina Scagnolari



Poster Session-D01 | Viral Rebound and Control

2:30 PM - 4:00 PM • Poster Hall

MONDAY

- 484 Delayed HIV-1 Rebound Correlates With Enhanced CD8+ T-Cell Activation in Human Trials**
Rasmi Thomas, Philip Ehrenberg, Gautam Kundu, Daina Eiser, Timothy Ezebuio, Carlo Sacdalan, Somchai Sriplienchan, Nittaya Phanuphak, Sandhya Vasani, Ashan Dayananda, for the RV254 Study Team
- 485 Total HIV-1 Nucleic Acid Increases Precede Plasma RNA Rebound During Pediatric ATI**
 **Gabriela Z. L. Cromhout**, Nomonde Bengu, Nicholas G. Herbert, Thumbi Ndung'u, Moherndran Archary, Philip Goulder
- 486 Consecutive Analytical Treatment Interruption Improves CD8 T-Cell Activity During Viral Control**
 Gabriel Duette, Josefina Marin-Rojas, Samantha K. Cronin, Eunok Lee, Steven G. Deeks, Anthony D. Kelleher, **Sarah Palmer**
- 487 Mitochondrial Gene Variants Influence VARS2, HIV Reservoir, and CD4+ T Cells in HIV Controllers**
 **Victoria Rios Vazquez**, Vasiliki Matzaraki, Suzanne D. E. Ruijten, Mareva Delporte, Wilhelm A. Vos, Marc J. T. Blaauw, Louise E. van Eekeren, Albert L. Groenendijk, Leo Joosten, Mihai G. Netea, Willem Blok, Jan van Lunzen, Jéssica dos Santos, Lino Vandekerckhove, Andre van der Ven, for the 2000HIV Human Functional Genomics Partnership Program
- 488 Clinical and Virologic Outcomes of an ART Interruption in Treated Controllers and Noncontrollers**
 **Isaac E. Avila-Vargas**, Antonio Rodriguez, Tony R. Figueroa, Thomas Dalhuisen, Meghann Williams, Marin Ewing, Monika Deswal, Elnaz Eilkhani, Viva Tai, Rebecca Hoh, Rachel Rutishauser, Amelia N. Deitchman, Steven G. Deeks, Lillian B. Cohn, Michael Peluso, for the SCOPE-ATI Study Team
- 489 HIV-1 Post-Treatment Control Occurs Despite HLA-Escape Mutations in the Intact Reservoir**
 **Efthimios A. Deligiannidis**, Behzad Etemad, Radwa Sharaf, Prerana Shrestha, Sofia Cohen, Flavio Mesquita, Yijia Li, Jesse Fajnzylber, Colline Wong, Joseph J. Eron, Ian Frank, Jeffrey M. Jacobson, Zabrina L. Brumme, Jonathan Li
- 490 Time to Viremia and Frequency of Post-Treatment Control Among 382 "Placebo-Treated" ATI Participants**
 **Jesper D. Gunst**, Jesal Gohil, Jonathan Li, Tae-Wook Chun, Beatriz Mothe, Lino Vandekerckhove, Timothy Schacker, Luis J. Montaner, Javier Martinez-Picado, Ruxandra Calin, Antonella Castagna, Felipe Garcia, Rob A. Gruters, Ole S. Søgaard, Sarah Fidler
- 491 Characterization of HIV Antibodies and p24 Antigen During Analytical Treatment Interruption**
Clara Di Germanio, Brendan Balasko, Patricia Villafior, George Noutsios, Catalina Esteban-Christen, Alfredo Villarreal, Jonathan Li, Davey Smith, Steven G. Deeks, Ronald J. Bosch, Rajesh T. Gandhi, Philip J. Norris, Michael P. Busch

492 Post-Treatment HIV Controllers Exhibit Reduced Plasma Markers of Inflammation and Metabolic Stress

Leila B. Giron, Qin Liu, Jianyi Ding, Xiangfan Yin, Alan Landay, Jeffrey M. Jacobson, Jonathan Li, Mohamed Abdel-Mohsen

493 Population-Specific T-Cell Responses and Virologic Control After Analytical Treatment Interruption

Shelly Karuna, Pei-Chun Yu, Doug Grove, **Jorge Gallardo Cartagena**, John MacRae Thays, Fatima Laher, Sufia Dadabhai, Jorge Sanchez, Catherine Orrell, Myron Cohen, M. Juliana McElrath, Lawrence Corey, Katharine Bar, Allan Decamp, Stephen C. De Rosa, for the AMP ATI Africa and Peru Study Teams

494 Loss of Virologic Control 32 Years After HIV-1 Diagnosis in an Exceptional Elite Controller



Sara Frances, **Anna Pons-Grifols**, Carmen Gasca Capote, Virginia Sandonis, Edwards Pradenas, Cristina Moral-Turón, Ester Aparicio, Mar Vera, Jorge Del Romero, Benjamin Trinité, Ezequiel Ruiz-Mateos, Julià Blanco, María Pernas, Concepción Casado

495 Effect of ART Start Time, ART Duration, and Elite Control on HIV Transcription

Cordelia M. Isbell, Julie Janssens, Sun Jin Kim, Sonia Bakkour Coco, Rebecca Hoh, Jennifer A. Nichols, Xutao Deng, Mars Stone, Janet L. Huie, Steven G. Deeks, Michael P. Busch, Steven Yukl, **Adam Wedrychowski**, for the RAVEN Study Group

496 Viral Reservoir Characteristics in Lymphoid Tissues of HIV-1 Elite Controllers



Samantha K. Marzi, Chloe M. Naasz, Leah Carrere, Carmen Gasca Capote, Mathias Lichterfeld, Matthieu Perreau, Xu G. Yu, Andrea Mastrangelo

497 CD8+ T Cells Shape the HIV Integration Site Landscape According to the Degree of T-Cell Pressure



Noemi L. Linden, Alexander McFarland, Ali Danesh, Scott Sherrill-Mix, John Everett, Aoife Roche, Chanson J. Brumme, Zabrina L. Brumme, Itzayana G. Miller, Tan Thanh Huynh, Dennis Copertino Jr, Emma Cook, Tianyu Lu, Frederic Bushman, R. Brad Jones

498 Anti-IL-10/Anti-PD-1 Dual Blockade Leads to IFN-Related HIV Elite Control Signatures

Susan P. Ribeiro, Felipe Ten-Caten, Khader Ghneim, Ana Carolina Santana, Muhammad Bilal Latif, Tamara C. Garcia, Perla Mariana Del Río Estrada, Jeffrey D. Lifson, Mihai G. Netea, Daniel M. Gorman, Bonnie J. Howell, Mirko Paiardini, Hugo Soudeyns, Rafick P. Sekaly

499 Genetic Regulation of Immune Responses to CMV in Spontaneous HIV Controllers



Suzanne D. E. Ruijten, Jéssica dos Santos, Adriana Navas, Nadira Vadaq, Alisa Huber, Victoria Rios Vazquez, Albert L. Groenendijk, Louise E. van Eekeren, Wilhelm A. Vos, Marc J. T. Blaauw, Mihai G. Netea, Vasiliki Matzaraki, Andre van der Ven, for the 2000HIV Human Functional Genomics Partnership Program

Poster Session-D02 | Strategies for an HIV Cure

2:30 PM - 4:00 PM • Poster Hall

- 500 The Asymmetric Opening of HIV-1 Env by a Potent CD4 Mimetic Enables Anti-CoRBS Abs to Mediate ADCC**
Jonathan Richard, Michael W. Grunst, Ling Niu, Marco A. Díaz-Salinas, Li Zhu, William D. Tolbert, Lorie Marchitto, Derek Yang, Joseph Sodroski, Amos B. Smith III, Priti Kumar, Walther Mothes, James B. Munro, Marzena Pazgier, Andrés Finzi
- 501 TCR-Mimic ScDb Reduced HIV Provirus and Delayed the Viral Rebound in HLA-Specific BLT Hu-Mice**
Zhe Yuan, Nathan L. Board, Srana Sengupta, Guorui Zu, Janet M. Siliciano, Robert F. Siliciano, Luis J. Montaner
- 502 Targeting TCF-1 to Potentiate the Functional Capacity of HIV/SIV-Specific CD8+ T Cells**
Hiroshi Takata, Benjamin D. Varco-Merth, Shelby Hoffmeister, Paula Armitage, Lydie Trautmann, Afam Okoye
- 503 CD4 T Cell-Targeting Lipid Nanoparticles in the Search for a Genetic HIV Cure**
 **Maaïke De Cock**, Wojciech Witkowski, Sarah Gerlo, Bruno De Geest, Lino Vandekerckhove, Jolien Van Cleemput, for the HIV Cure Research Center
- 504 CD4 Mimetics Sensitize HIV-Infected Cells to ADCC Mediated by Plasma From Early-Stage HIV Infection**
Andrés Finzi, Alexandra Tauzin, Delia Pinto-Santini, Sayan Dasgupta, Derek Yang, William D. Tolbert, Myriam Verly, Marzena Pazgier, Javier R. Lama, Amos B. Smith III, Shilei Ding, Ann Duerr
- 505 Sustained Post-Rebound HIV Remission With Enhanced T-Cell Immunity After LS-bNAbs: A Case Report**
John Frater, Julie Fox, Ming J. Lee, Mohammed Altaf, Marcilio Jorge Fumagalli, Anna Kaczynska, Timothy Tipoe, Penny Zacharopoulou, Carla Nel, Louise Terry, Mathias Lichterfeld, Daniel Bradshaw, Marina Caskey, Michel Nussenzweig, Sarah Fidler, for the RIO Trial Investigators
- 506 Sustained T Cell-Mediated Immunity After LS-bNAbs in the RIO Trial: A Vaccinal Effect**
 Mohammed Altaf, Timothy Tipoe, Carla Nel, Helen Brown, Nicola Robinson, Simon Collins, Ming J. Lee, Penny Zacharopoulou, Louise-Rae Cherrill, Emanuela Falaschetti, Michel Nussenzweig, Marina Caskey, Sarah Fidler, **John Frater**, for the RIO Trial Investigators
- 507 Temsavir Treatment Improves Recognition of HIV-1 Infected Cells by Broadly Neutralizing Antibodies**
Robert Ferris, James Schawalter, Cristin Galardi, Richard Dunham, Heather Madsen, **Hangfei Qi**
- 508 Maximizing Benefits to Participants in Analytic Treatment Interruption With Antibody Infusions**
Morgane Rolland, Hongjun Bai, Mélanie Merbah, Gabriel Smith, Elizabeth Comeau, Matthew Lind, Carlo Sacdalan, Nittaya Phanuphak, Kiat Ruxrungtham, Sandhya Vasan, Merlin Robb, Donn Colby, Lydie Trautmann, **Yifan Li**, for the RV254/RV630 Study Group

509



Myeloid Targeted and Enhanced Endosomal Escapable LNP Improve Latent HIV-1 Elimination Efficacy

Soumya S. Dey, Sudipta Panja, Bharat N. Chaudhary, Mohammad Uzair Ali, Santhi Gorantla, Howard Gendelman

510

A Novel and Promising Strategy of HIV Eradication via LTR-LTR Recombination

Feng Li, Guanhan Li, Luke Kelley, Robert Gorelick, Frank Maldarelli

511



Development and Delivery of Next-Generation Epigenome Editors for Long-Term HIV Silencing

Francisco J. Zapatero Belinchon, Valentina Pedrero-Classen, Martin V. Hamann, Zichong Li, Katelyn Luo, Ulrike V. Lange, Melanie Ott

512

RV550: Safety and Virologic Outcomes in Blood and Lymph Nodes of N-803 With ART in Acute Infection

Carlo Sacdalan, Eugène Kroon, Meera Bose, Shida Shangguan, Nicole Dear, Pathariya Promsena, Nicha Tulmethakaan, Anchalee Avihingsanon, Jeffrey Safrit, Somchai Sriplienchan, Morgane Rolland, Lydie Trautmann, Kiat Ruxrungtham, Sandhya Vasan, for the RV550 Study Group

Poster Session-D04 | Transcription in the HIV Reservoir

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Transcriptional Profiles of HIV RNA+ Cells in PWH on ART Differ From Those During Active Viremia

Julie Frouard, Sushama Telwatte, Xiaoyu Luo, Natalie Elphick, Reuben Thomas, Douglas Arneson, Pavitra Roychoudhury, Atul J. Butte, Joseph K. Wong, Rebecca Hoh, Steven G. Deeks, Sulggi Lee, Steven Yukl, Nadia R. Roan

525

Selective Decay of Different HIV Transcripts After ART Initiation in Chronic Infection

Julie Janssens, **Cordelia M. Isbell**, Sun Jin Kim, Alton Barbehenn, Rebecca Hoh, Michael Peluso, Sulggi Lee, Satish Pillai, Nadia R. Roan, Steven G. Deeks, Steven Yukl, Adam Wedrychowski, Timothy J. Henrich

526

Nonsuppressible HIV Viremia May Harbor Replication-Incompetent Viruses With 5' Leader Deletions

Zixin Hu, Eva Soledad Piernas, Behzad Etemad, Andy Du, Hieu Nguyen, Abbas Mohammadi, Trevor Tamura, Nikolaus Jilg, Daniel Worrall, Peter Anderson, Jose Castillo-Mancilla, Steven G. Deeks, Athe Tsibris, Daniel Kuritzkes, Jonathan Li

527

HIV-1 Latency Reversal Augments Persistent HIV-1 Transcription During ART

Rowan Hassman, Rachel Raymond, Sidra Wohlwend, Tyler Lilie, Hannah Jordan, Elise Courtney, Athe Tsibris

528



MLN4924 Reduces HIV Transcription, Cell Survival, and HIV Infectivity After Latency Reversal In Vitro

Cristina C. Vaca, Hannah E. Hudson, Isabelle Clerc, Chisu Song, Richard T. D'Aquila



PosterSession-D05 | Novel Interventions Toward an HIV Cure

2:30 PM - 4:00 PM • Poster Hall

MONDAY

- 529** **Venetoclax Decreases Intact Proviral DNA Frequency in SIV-Infected, ART-Suppressed Rhesus Macaques**
Sydney N. Bergstresser, Tomas Raul Wiche Salinas, Diane Carnathan, Hong Wang, Yohannes M. Abraham, George Pavlakis, Barbara Felber, Mario Roederer, Christine Fennessey, Brandon Keele, Mirko Paiardini, Deanna A. Kulpa, Guido Silvestri
- 530** **AZD5582 Inhibits Vaccine-Elicited CD8+ T-Cell Responses in SIV-Infected Rhesus Macaques on ART**
Benjamin D. Varco-Merth, Alejandra Marengo, Omo Fadeyi, Paula Armitage, Robert W. Omange, William Goodwin, Derick Duell, Manuel Medina, Michael Axthelm, Brandon Keele, Jeffrey D. Lifson, Janina Gergen, Susanne Rauch, Louis Picker, Afam Okoye
- 531** **Sustained HIV Remission Despite Transient Rebound Viremia After a CCR5Δ32/Δ32 Stem Cell Transplant**
Paul Rubinstein, Liliana Pérez, Damiano Rondelli, Hannah Shepard, Karen Sweiss, Shrihari Kadkol, Habiba Sultana, Christine Fennessey, Brandon Keele, Robert Gorelick, Peter Burbelo, Rick Novack, Frank Maldarelli, Eli A. Boritz
- 532** **HIV Remission After Allogeneic Hematopoietic Stem Cell Transplant From CCR5Δ32/Δ32 Sibling Donor**
Marius Trøseid, Anders E. Myhre, Hanne H. Gullaksen, Ole S. Sjøgaard, Martin Tolstrup, Maria Salgado, Javier Martinez-Picado, Anne-Marte B. Kran, Dag Henrik Reikvam, Pål Aukrust, Tobias Gedde-Dahl, Tuva B. Dahl, Mari Kaarbo, Malin H. Meyer-Myklestad, for the Oslo HIV Cure Study Group
- 533** **Tazemetostat Enhances CTL Killing of HIV-Infected Cells and Reduces Reservoirs In Vivo**
Andrea Gramatica, **Itzayana G. Miller**, Adam R. Ward, Farzana Khan, Tyler J. Kemmer, Jared Weiler, Tan Thinh Huynh, Paul Zumbo, Andrew P. Kurland, Louise Leyre, Colin M. Kovacs, Doron Betel, Jeffrey Johnson, Ali Danesh, R. Brad Jones
- 534** **CXCR4-Targeted CRISPR/Cas9 Lipid Nanoparticles for Excision of Latent Proviral DNA**
Sudipta Panja, Lubaba A. Zaman, Chen Zhang, Prasanta K. Dash, Milankumar Patel, Howard Gendelman
- 535** **Efficient Generation of Anti-HIV TRAC-CAR T Cells to Enable High-Throughput Binder Screening**
Gabriella Kimmerly, Joseph Muldoon, Justin Eyquem, Rachel Rutishauser
- 536** **Infusion of Autologous CCR5-Deleted CD4 Cells Does Not Change the HIV Reservoir: The TRAILBLAZER RCT**
Carl J. Fichtenbaum, Ronald J. Bosch, Hanna Mar, Ashish A. Sharma, Joumana Zeidan, Steven G. Deeks, Jeffrey M. Jacobson, George Yendewa, Jane Reese, Joseph Puleo, Rebeka Bordi, Marthe Pauwels, Gary Lee, Michael M. Lederman, Rafick P. Sekaly

537



HIV-1 Reservoir Reduction in PWH Receiving ART and Dasatinib

Mario Manzanares, Guiomar Casado Fernández, Alicia Simón Rueda, Montserrat Torres, Elena Mateos, Christoph Wyen, Kerstin Lammersmann, Adam M. Spivak, Vicente Planelles, Christian Hoffmann, Mayte Coiras

538



Phase I Clinical Trial AMC097 Evaluating Engraftment and HIV Resistance of Gene-Modified Blood Cells

Timothy J. Henrich, Julie Beegle, Deborah Stewart, Christina Dyer, Amanda M. Buck, Joanna Donatelli, Gunjun Shah, David Asmuth, Richard B. Pollard, Joseph Anderson, Ariela Noy, Mehrdad Abedi

Poster Session-E1 | Neuroimaging in HIV

2:30 PM - 4:00 PM • Poster Hall

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Humanized Glia Mice Show HIV-Induced Behavioral, Neuro, and Metabolic Changes as in Clinical Disease

Amanda Fernandes, Ed Makarov, Matthew Thiele, Yutong Liu, Mystera Samuelson, Santhi Gorantla

590

Evaluating White Matter Integrity in Relation to HIV Severity and Cognitive Impairment

Owen Guo, Kalen J. Petersen, Sarah Cooley, Babatunde Adeyemo, **Beau Ances**, Jeremy Strain

591

Interaction Between Age, Brain Volume, and HIV Status in Predicting Cognition

James T. Kennedy, Sarah Cooley, Kalen J. Petersen, **Beau Ances**

592

Plasma Inflammation Is Associated With Brain Cellularity in Diffusion-Based Spectral Imaging in HIV

Advika Srinivas, Sarah Cooley, Jeremy Strain, Tricia Burdo, Stephen Baak, Julie Wisch, Sheng-Kwei Song, Beau Ances

593

The Effects of Depression and Antidepressants on Cognition and Brain Volume in PWH and PWoH

Sophie A. Sims, Beau Ances, Kalen J. Petersen, June Roman, Sarah Cooley

594

Analyzing Neuroanatomical Heterogeneity in HIV-Associated Cognitive Impairment

Audrey Chun, Sarah Cooley, Gordon Zhaoqi An, Beau Ances, Aristidis Sotiras

595

Preliminary Analysis of Longitudinal Synaptic Density Change in Virally Suppressed People With HIV

Phillip Chan, Nakul Raval, Mika Naganawa, Jennifer Chiarella, Allison Nelson, Henry Huang, Lindsay S. McAlpine, Shelli Farhadian, Richard Carson, Ansel Hillmer, Serena Spudich

596

Cannabis Use Is Associated With Reduced Brain Integrity in Persons With HIV

Sarah Cooley, Patricia Reid, June Roman, Kalen J. Petersen, Robert Paul, Jodi Gilman, Tricia Burdo, Beau Ances



Poster Session-E2 | Biomarkers for NeuroHIV

Informing Pathogenesis

2:30 PM - 4:00 PM • Poster Hall

MONDAY

- 597 Inflammatory Biomarker Profiling to Predict Neuroinflammation and Depression in Adolescents With HIV**
Shalena Naidoo, Arish Mudra Rakshasa-Loots, Kaylee van Wyhe, Frances Robertson, Ernesta Meintjes, Mark Cotton, Barbara Laughton, Richard Glashoff
- 598 No Decline in CSF or Plasma Neurofilament Light Chain Levels Post-Early ART Initiation**
 **Nametso Kelentse**, Yunshan Xu, Yanhong Deng, Jennifer Chiarella, Allison Grubman, Sebastian Romero, Shelli Farhadian, Richard W. Price, Serena Spudich
- 599 Polypharmacy Is Associated With Neuronal Injury in PWH**
 **Priya Kosana**, Allison Grubman, Kunling Wu, Katherine Tassiopoulos, Qing Ma, Scott L. Letendre, Kristine M. Erlandson, Shelli Farhadian, for the ACTG A5322 (HAILO) Study Team
- 600 Plasma CNS Tissue Markers in Heavily Treatment-Experienced PWH in the PRESTIGIO Registry**
Andrea Calcagno, Martina Strano, Riccardo Lolatto, Riccardo Vercesi, Alessandra Mandelli, Miriam Antonucci, Vincenzo Spagnuolo, Tommaso Clemente, Daniela Francisci, Giovanni Cenderello, Ornella Schioppa, Laura Comi, Roberto Furlan, Antonella Castagna, Paola Cinque, for the PRESTIGIO Study Group
- 601 Comprehensive Study of CSF Fluid β_2 -Microglobulin, a Marker of CNS Immune Activation in HIV**
Birgitta Anesten, Henrik Zetterberg, Staffan Nilsson, Magnus Gisslén, Aylin Yilmaz
- 602 Higher suPAR Relates to Domain-Specific Cognitive Function in Virally Suppressed Women With HIV**
Hemil Gonzalez, Eran F. Shorer, Raha M. Dastgheyb, Eunsil Hahm, Yanxia Cao, Kathleen M. Weber, Leah H. Rubin, Audrey L. French, for the MACS/WIHS Combined Cohort Study (MWCCS)
- 603 Cognitive Intra-Individual Variability Predicts IADL Function in the Women's Interagency HIV Study**
David E. Vance, Yanxun Xu, Raha M. Dastgheyb, Pauline Maki, Jiayue Zhang, Gayle Springer, Kathryn Anastos, Deborah Gustafson, Kathleen M. Weber, Monica M. Diaz, Mirjam-Colette Kempf, Deborah Konkle-Parker, Karl Goodkin, Matthew Wright, Leah H. Rubin, for the MACS/WIHS Combined Cohort Study (MWCCS)
- 604 Influence of an Exercise Intervention or Dynamic Stretching on Cognition and Gut Microbiome in PWH**
Sarah Cooley, Aura Ferreiro, Brittany Nelson, Kimberley Sukhum, June Roman, Chistopher Sorensen, Phillip Tarr, Gautam Dantas, Beau Ance
- 605 Longitudinal Changes in Neuronal Markers and Associations With ART Initiation and Cognitive Function**
 **Merle Henderson**, Peter Dutey-Magni, Wolfgang Stohr, Alejandro Arenas-Pinto, Amanda Heslegrave, Henrik Zetterberg, John Tregoning, Andrea Calcagno, Ab Babiker, Alan Winston

Poster Session-E3 | Omics Approaches to Pathogenic Interrogation of NeuroHIV

2:30 PM - 4:00 PM • Poster Hall

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Single-Nucleus Multiomics Reveals Dysfunction in Multiple Glial Cell Types in Brain Tissue of PWH

Kriti Agrawal, Junchen Yang, Jay S. Stanley, Chang Lu, Nicholas Jacobs, Haowei Wang, Declan Clarke, Le Zhang, Anita Huttner, Mark Gerstein, Yuval Kluger, Serena Spudich, for the Y-SCORCH

607



CSF Memory B Cells Exhibit Distinct Molecular Footprints in Treated PWH

Paraskevas Filippidis, Michael J. Corley, Serena Spudich, Meng Wang, Jennifer Chiarella, Allison Nelson, Bibhuprasad Das, Steven H. Kleinstein, Shelli Farhadian

608



T-Cell Receptor Repertoire and Cognitive Performance in People With HIV

Mattia Trunfio, Davey Smith, Gemma Caballero, Vanessa Gomez-Moreno, Magali Porrachia, Ben Gouaux, David Moore, Ronald Ellis, Scott L. Letendre, Sara Gianella Weibel, Antoine Chaillon

609

A Transcriptional Signature of Induced Neurons Differentiates PWH on cART From People Without HIV

Philipp N. Ostermann, Youjun Wu, Scott A. Bowler, Mohammad A. Siddiqui, Alberto Herrera, Mega Sidharta, Kiran Ramnarine, Samuel Martínez-Meza, Leslie Ann St Bernard, Douglas Nixon, R. Brad Jones, Masahiro Yamashita, Lishomwa Ndhlovu, Ting Zhou, **Teresa H. Evering**

610

Cerebrospinal Fluid Proteomic Patterns Vary With Neurobehavioral Characteristics

Scott L. Letendre, Bin Tang, Mattia Trunfio, Donald R. Franklin, Michael Potter, Melanie Crescini, Jennifer Iudicello, Robert K. Heaton, Ronald Ellis, **Patricia K. Riggs**

611

DNA Methylation Clocks Are Altered in Persons With Undetectable HIV and Correlate With Brain Aging

Kalen J. Petersen, Sarah Cooley, Brittany Nelson, Maurizio Caocci, Tricia Burdo, Beau Ances

612

Epigenetic Age Advancement Predicts Cognitive Performance in Older People With HIV

Carrie Johnston, Raha M. Dastgheyb, Leah H. Rubin, Eran F. Shorer, Eugenia Siegler, Alina Pang, Marshall Glesby, Michael J. Corley

613

Epigenetic Modifications Predictive of Cognitive Frailty in Cocaine-Using People Living With HIV

Marianna Baum, Leonardo Acuna, Haley Fonseca, Manuel Barbieri, Raul Gonzalez Jr, Steven Black, Matthew Sutherland, David Brown, Paolo Chaves, Edgar Vieira, Francisco Fernandez Lima, Qingyun Liu, Samantha Gonzales, Xuexia Wang, Stephanie Giesecken

614

Differential Effects of CB2 Agonism on HIV Replication and Inflammatory Activation in Myeloid Cells

Alexander Starr, Sara Rathore, Marzieh Daniali, Peter J. Gaskill, **Cagla Akay-Espinoza**, Kelly L. Jordan-Sciutto

MONDAY



Poster Session-F1 | The Next Generation: Pharmacology of New Drugs, Formulations, and Modeling Strategies

2:30 PM - 4:00 PM • Poster Hall

- 639 First-in-Human Study of a Long-Acting Injectable 3 Antiretroviral Drug Combination Nanoparticle**
Rachel A. Bender Ignacio, Christine Johnsson, Matthew Hartman, Simone Perazzolo, Eli P. Burnham, Phoebe Bryson-Cahn, Claborn Youngblood, Pablo Belaunzarán-Zamudio, Keith Crawford, Edward P. Acosta, Zachary R. Stephen, Brett S. Hanscom, Ann Melvin, Ann C. Collier, Rodney J. Y. Ho, for the Targeted Long-Acting Combination Antiretroviral Therapy (TLC-ART) Program
- 640 Preclinical Pharmacokinetic Assessment of a Long-Acting Solid Injectable for Hepatitis C Virus**
Usman Arshad, Henry Pertinez, Joanne Sharp, Joanne Herriott, Edyta Kijak, Helen Cox, Jonathan Massam, Andrew B. Dwyer, Alison C. Savage, James J. Hobson, Catherine Unsworth, David Thomas, Paul Curley, Steve Rannard, Andrew Owen, for the Centre of Excellence for Long-acting Therapeutics (CELT)
- 641 Fixed Dosing Versus Body-Weight-Based Dosing of HIV-1 Prophylactic Monoclonal Antibodies in Adults**
Yunda Huang, Lily Zhang, Huub Gelderblom, Kelly Seaton, Nicole Yates, Carmen Paez, Julie Ledgerwood, Stephen Walsh, Magdalena E. Sobieszczyk, Sri Edupuganti, Colleen Kelley, Michael Pensiero, Peter Gilbert, Richard A. Koup, Georgia D. Tomaras
- 642 Pharmacokinetic Modeling of Missed Dose Scenario of Oral Weekly Islatravir Plus Lenacapavir**
Dhananjay Marathe, Diane Longo, Haeyoung Zhang, Nieves Velez de Mendizabal, Ryan Vargo, Hadas Dvory-Sobol, Randolph Matthews, Martin Rhee, Cyril Llamoso, Gillian Gillespie, **Marjorie Imperial**
- 643 Modeling Accurately Predicts Efficacious Islatravir QW Dose With No Lymphocyte and CD4 Changes**
Diane Longo, Michelle Pham, Marjorie Imperial, Gillian Gillespie, Stephanie Klopfer, Randolph Matthews, Cyril Llamoso, Elizabeth Rhee, Martin Rhee, Dhananjay Marathe, Ryan Vargo
- 644 Can “Equivalence” of a Generic Cabotegravir LA Be Inferred From a Shortened Pharmacokinetic Study?**
Henry Pertinez, Rajith Rajoli, Andrew Lloyd, Charles W. Flexner, Andrew Owen

Poster Session-G1 | Antiviral Therapy: Simplify, Modify, and Why!

2:30 PM - 4:00 PM • Poster Hall

- 658 Integrase Inhibitor- Versus Protease Inhibitor-Based Therapy for People With Advanced HIV Disease**
 **Georg M. N. Behrens**, Lambert Assoumou, Geoffroy Liegeon, Andrea Antinori, Rafael Mican, Stephane De Wit, Frank Post, Jürgen K. Rockstroh, Lisa Hamzah, Pere Domingo, Adrian Curran, Montserrat Laguno, Carl Fletcher, Jack Moody, Anton Pozniak, for the LAPTOP Study Team

- 659 Safety, Tolerability, and Efficacy of a BIC/FTC/TAF Dose Reduction Strategy**
Ivan Chivite, Elisa De Lazzari, Abiu Sempere, Berta Torres, Esther Fagundez, Pilar Callau, Sònia Vicens-Artés, Cristina Rovira, José Alcamí, Maria Mar Mosquera-Gutierrez, Amedeo De Nicolò, Sonsoles Sánchez-Palomino, Antonio D'Avolio, Jose L. Blanco, **Esteban Martinez**, for the BETAF-RED Study Team
- 660 Switch of Virally Suppressed Adults ≥60 Years From First-Line ART to B/F/TAF: Week 96 Results**
Loice Ombajo, Jeremy Penner, Joseph Nkuranga, Victor Mbewa, Edwin Otieno, Jared Mecha, Simon Wahome, Florentius Ndinya, Rose Wafula, Anton Pozniak, for the B/F/TAF-Elderly Study Group
- 661 Switch to DTG/3TC vs B/F/TAF (PASO-DOBLE Study): Efficacy and Weight Changes by Predefined Subgroups**
Juan Tiraboschi, Maria J. Crusells, Pere Domingo, Roberto Guerri-Fernandez, Enrique Bernal, Boris Revollo, Maria-Jesus Vazquez, Marta De Miguel, Pablo Ryan, Lucio Jesús García Fraile Fraile, Mar Masiá, Jose L. Blanco, Belen Alejos, Esteban Martinez, Adrian Curran, for the PASO-DOBLE Study Team
- 662 Inflammatory Signatures Among People With HIV Initiating DTG/3TC vs BIC/F/TAF in the CoRIS Cohort**
 **Claudio Díaz-García**, Sergio Serrano-Villar, Laura Luna, Adriana Pinto Martínez, Cristina Díez, Luz Martín-Carbonero, Miguel Angel Goenaga, Manuel Sánchez Robledo, Sergio Reus, Santiago Moreno, Elena Moreno del Olmo, Javier Martínez-Sanz, for the Cohorte de la Red de Investigación en Sida (CoRIS)
- 663 Effectiveness and Inflammatory Markers After 144 Weeks of Switch to DTG/3TC in a Randomized Trial**
 **Evy Blomme**, Evelien De Smet, Elianne Burg, Loïc Schrooyen, Sophie Degroote, Sophie Vanherrewege, Els Caluwe, Linos Vandekerckhove, Sarah Gerlo, Marie-Angélique De Scheerder
- 664 Impact of ART Simplification With Dolutegravir and Lamivudine on the HIV Reservoir**
 **Céline Fombellida-Lopez**, Ellen Östling, Diego Aguilar Ortmans, Patricia Dellot, Nicole Maréchal, Céline Vanwinge, Aurélie Ladang, Etienne Cavalier, Fabrice Susin, Dolores Vaira, Marie-Pierre Hayette, Catherine Reenaers, Michel Moutschen, Alexander Pasternak, Gilles Darcis
- 665 Effect of 12-Month Switch to Dual cART on T-Cell Homeostasis, Gut and Mitochondrial Damage**
 **Valeria Bono**, Camilla Tincati, Matteo Augello, Roberta Rovito, Sabrina Marozin, Chiara Orlandi, Anna Casabianca, Giulia Marchetti
- 666 ALLIANCE OLE: Switch to B/F/TAF in People With Both HIV-1 and HBV**
Anchalee Avihingsanon, Chee Loon Leong, Chien-Ching Hung, Sasisopin Kiertiburanakul, Man-Po Lee, Khuanchai Supparatpinyo, Sharline Madera, Hongyuan Wang, Jason T. Hindman, Taisheng Li
- 667 Transaminase Decrease Upon Switch From TDF to TAF in PWH Is Modulated by HBV Status**
Alessandro Soria, **Giuseppe Lapadula**, Nicola Squillace, Elisa Colella, Francesca Sabbatini, Alban Rugova, Luca Mezzadri, Silvia Limonta, Anna Cappelletti, Alice Ranzani, Paolo Bonfanti

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Impact of Switching From DTG/3TC to BIC/FTC/TAF on Weight, Cholesterol, and Inflammation in HIV

Sergio Serrano-Villar, **Laura Martín Pedraza**, Daniel Podzamczar, José Sanz, Luis López-Cortés, Alfonso Cabello, Carmen Busca, Miguel Torralba, Maria J. Crusells, Carmen Hidalgo-Tenorio, Vicente Estrada, Alberto Díaz De Santiago, Ana del Amo, Marta De Miguel, Santiago Moreno

669



24-Month Outcomes on Second-Line Antiretroviral Therapy in South Africa: A Target Trial Emulation

Jennifer A. Brown, Lara Lewis, Yuktेशwar Sookrajh, Lungile Hobe, Thulani Ngwenya, Johan van der Molen, Kwabena Asare, Kwena Tlhaku, Mlungisi Khanyile, Thokozani Khubone, Nigel Garrett, Jienchi Dorward

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Dolutegravir With Either Doravirine or Rilpivirine: Two-Drug Antiretroviral Therapy Outcomes

Rachel Denyer, **Morgan Byrne**, Clayton Nance II, Daniel Seeger, Natella Rakhmanina, Anne Monroe, Debra Benator, for the DC Cohort Executive Committee

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Is It Effective to Switch Regimen in PWH With Low-Level Viremia in the Current Era?

Tommaso Clemente, Pierluigi Reali, Riccardo Lolatto, Girolamo Piromalli, Rebecka Papaioannu Borjesson, Flavia Passini, Diana Canetti, Elena Bruzzesi, Emanuela Messina, Silvia Nozza, Antonella Castagna, Vincenzo Spagnuolo

672

Impact of Antiretroviral Therapy (ART) Intensification on HIV-1 Virologic Markers (ACTG 5324)

Jonathan Reed, Luke Hall, Ashley McKhann, Ginger Kwak, Erin A. Goecker, Huichao Chen, Eric S. Daar, Peter W. Hunt, Christina M. Marra, Qing Ma, Gene D. Morse, Robert W. Coombs, Scott L. Letendre, Serena Spudich, Alexander L. Greninger, for the ACTG A5324 Study Team

673

Factors Affecting Long-Term Trends of Immunologic Markers After ART: Results From the START Trial

Christos Thomadakis, **Giota Touloumi**, Birgit Grund, Ab Babiker, Irini Sereti, Karen Rogstad, Rocío Montejano Sanchez, Thomas Benfield, Claudia P. Cortes, Simon Collins, Anthony D. Kelleher, Mauro Schechter, for the INSIGHT START Study Group

Poster Session-H1 | HIV Resistance to bNAbs, Cabotegravir, GS 1720, and Other Agents

2:30 PM - 4:00 PM • Poster Hall

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The Genetic Barrier to Resistance to LEN Is Not Affected by Non-B Subtypes or Treatment Exposure

Chiara Paletti, **Niccolò Bartolini**, Federica Giammarino, Francesco Saladini, Ilaria Vicenti, Lia Fiaschi, Camilla Biba, Ilenia Varasi, Federico Garcia, Anne-Geneviève Marcelin, Maurizio Zazzi, Vincenzo Spagnuolo, Emanuele Focà, Stefano Rusconi, for the PRESTIGIO Registry

722



Structural and Mechanistic Insights Into Cabotegravir Resistance in HIV-1 Integrase

Indrani Choudhuri, Tao Jing, Avik Biswas, Steven J. Smith, Eric O. Freed, Terrence Burke, Stephen H. Hughes, Ronald M. Levy, Dmitry Lyumkis



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

723



The Barrier to Escape From Broadly Neutralizing Antibodies Varies Between Different HIV-1 Isolates

Alex C. Stabell, Debby Park, Christy L. Lavine, Sebastian Mejia Espinosa, Viren Baharani, Songhee Lee, Michel Nussenzweig, Marina Caskey, Michael S. Seaman, Paul Bieniasz, Theodora Hatzioannou

724

In Vitro Resistance Profile for GS-1720, a Potent Once-Weekly Oral InSTI in Clinical Development

Derek Hansen, Matthew R. Hendricks, Joseph Campbell, Brie Falkard, Gregg Schwarzwald, Ana Z. Gonzalez, Tomas Cihlar, Stephen R. Yant

725



Effect of SNG001, Inhaled IFN- β 1a, on SARS-CoV-2 Diversity and Evolution

Gregory E. Edelstein, Tatum N. Sass, Rinki Deo, Prasanna Jagannathan, Kara Chew, Mark J. Giganti, Michael Hughes, Carlee Moser, Joseph J. Eron, Judith Currier, Upinder Singh, Davey Smith, William A. Fischer II, Manish C. Choudhary, Jonathan Li, for the ACTIV-2/A5401 Study Team

726

HIV-1 Env Exhibits Distinct Conformations and Neutralization Profiles in CSF and Blood

Madeline M. Broghammer, Aaron N. Gillman, Cassian K. Birler, Rohith R. Vujjini, Samuel A. McCarthy-Potter, **Hillel Haim**

727

Modifying PF74 Improves Anti-HIV-1 Activity Against the Resistance-Associated Capsid Mutation N74D

William M. McFadden, Karen A. Kirby, Lei Wang, Haijuan Du, Zachary C. Lorson, Huanchun Zhang, Andres Emanuelli Castaner, Savannah Brancato, Atsuko Hachiya, Shreya M. Ravichandran, Carolyn M. Highland, Philip R. Tedbury, Robert A. Dick, Zhengqiang Wang, Stefan G. Sarafianos

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Viral Escape From Broadly Neutralizing Antibodies in Non-Subtype B Viruses

Teresa Murphy, Dennis Copertino Jr, Gabriel Galeotos, Neha Shah, Julie Ake, Ajay P. Parikh, Abdulwasiiu Tiamiyu, Zahra Parker, Hannah Kibuuka, Valentine Sing'Oei, John Owuoth, Jonah Maswai, Rebecca M. Lynch, for the African Cohort Study (AFRICOS) Study Group

Poster Session-I1 | Hepatitis C Treatment and Outcomes

2:30 PM - 4:00 PM • Poster Hall

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Safety and Efficacy of 8-Week Glecaprevir/Pibrentasvir for Acute HCV in People Living With HIV

Barbra Cave, **Kimberly Workowski**, Pablo Ryan, John Smith, Thomas Lutz, Patrick Lank, Linda Fredrick, Anne Welhaven, Dimitri Semizarov, John Marcinak, Joseph S. Doyle

749

DAA Initiation Among People With HIV and HCV in North America: Factors Driving the Treatment Gap

Raynell Lang, Leila Borowsky, Brenna C. Hogan, Elizabeth Humes, Asya Lyass, Arthur Y. Kim, Gregory Kirk, Frank Palella, Michael Silverberg, Edward Cachay, Hyang Nina Kim, Catherine Lesko, Richard Moore, Virginia Triant, Keri N. Althoff, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA



- 750 High HCV Reinfection Rates May Mask “True” Sustained Virologic Response in People Who Inject Drugs**
Sunil S. Solomon, Jiban J. Baishya, A. K. Srikrishnan, Mihili Gunaratne, Ashwini Kedar, Pradeep Amrose, Allison M. McFall, Mark Sulkowski, Boobalan Jayaseelan, Gavin Cloherty, Gregory M. Lucas, David Thomas, Shruti H. Mehta
- 751 Increasing HCV Prevalence Among People Who Inject Drugs in India Despite Improved Treatment Uptake**
 Shruti H. Mehta, Mihili Gunaratne, A. K. Srikrishnan, Ashwini Kedar, **Allison M. McFall**, Jiban J. Baishya, Muniratnam S. Kumar, Pradeep Amrose, Boobalan Jayaseelan, Gregory M. Lucas, David Thomas, Sunil S. Solomon
- 752 Impact of an HCV Test and Treat Campaign on Hepatitis C Incidence in the ANRS PREVENIR PrEP Study**
Geoffroy Liegeon, Constance Delaugerre, Lydie Beniguel, Salima Barkat, Jade Ghosn, Sarah Maylin, Romain Palich, Gilles Pialoux, Laurence Slama, Mohamed Ben Mechlia, Dominique Costagliola, Lambert Assoumou, Jean-Michel Molina, for the ANRS PREVENIR Study Group
- 753 Impact of HIV Infection on the Dynamics of Liver Stiffness After HCV Cure**
 **Jesica Martín-Carmona**, Anaïs Corma-Gómez, Jose M. Moyano, Francisco Tellez, Dolores Arenga-Barrios, Miriam Serrano-Fuentes, Aitana Carla Morano Vázquez, Diana Corona-Mata, Miguel Nicolás Navarrete Lorite, Francisco Jesús Vera-Méndez, Isabel Barroso, Rosario Palacios, Juan A. Pineda, Juan Macias, for the GEHEP-011 Study Group
- 754 Comorbidities Among Medicaid Enrollees With Chronic Hepatitis C, 2016-2020**
 Angela T. Estadt, Hasan Symum, William W. Thompson, Taiwo Abimbola, Michelle T. Van Handel
- 755 Cost-Effectiveness of Interventions to Reduce HCV Among People Who Inject Drugs in Haiphong, Vietnam**
Adam Trickey, Pham Minh Khue, Nicolas Nagot, Nguyen Thanh Binh, Vu Hai Vinh, Tran Thi Hong, Catherine Quillet, Roselyne Vallo, Khuat Thi Hai Oanh, Duong Thi Huong, Todd Pollack, Vo Thi Tuyet Nhung, Don Des Jarlais, Didier Laureillard, Peter Vickerman
- 756 CC-Genotype (IFNL4) in HCV/HIV Coinfection: Cellular Exhaustion but Balanced Inflammatory Profile**
 **Sonia Arca De Lafuente**, Violeta Lara-Aguilar, Manuel Llamas-Adan, Sergio Grande García, Cristina Gonzalez-Diaz, Andrés Deza de la Casa, Luz Martín-Carbonero, Pablo Ryan, Ignacio de los Santos, Mariano Matarranz, Amanda Fernández Rodríguez, Verónica Briz

Poster Session-I2 | Steatotic Liver Disease

2:30 PM - 4:00 PM • Poster Hall

- 757 Semaglutide Improves Steatohepatitis in People With HIV: The SLIM LIVER Study**
Jordan E. Lake, Doug Kitch, Amy Kantor, Rebeca Mayo, Pablo Belaunzarán-Zamudio, Carl Fichtenbaum, Todd Brown, Kathleen Corey, Fred R. Sattler, Kristine M. Erlandson, for the ACTG A5371 Protocol Team

758



Evaluation of Different Noninvasive Models in Assessing Lean MAFLD Among PLWH

Wei Xu, Yinzhong Shen

759

Effects of Semaglutide on Gut Microbiota in People With HIV: The SLIM LIVER Study

Stephanie M. Dillon, Daniel N. Frank, Charles E. Robertson, Jennifer M. Kofonow, Cara C. Wilson, Alan Landay, Todd Brown, Fred R. Sattler, Jordan E. Lake, Kristine M. Erlandson

760



Distinct Metabolic Perturbations Link Liver Steatosis and Incident CVD in Lean but Not Obese PLHIV

Nadira Vadaq, Louise E. van Eekeren, Marc J. T. Blaauw, Albert L. Groenendijk, Wilhelm A. Vos, Erni Nelwan, Janneke Stalenhoef, Marvin Berrevoets, Mihai G. Netea, Gert Weijers, Joost Rutten, Quirijn de Mast, Eric Tjwa, Leo Joosten, for the 2000HIV Human Functional Genomics Partnership Program

761

Incidence and Impact of Hepatic Steatosis in People With HIV: Insights From the NA-ACCORD Cohort

Jennifer Price, Nina Kim, Marina Klein, Vincent Lo Re, M. John Gill, Michael Horberg, Jennifer O. Lam, Catherine Lesko, Angel Mayor, Richard Moore, George Yendewa, Giada Sebastiani, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

762

Determinants of Steatotic Liver Disease Among People With HIV in Europe and Australia

Carlotta Riebenschahm, Wendy Bannister, Josep M. Llibre, Gilles Wandeler, Lars Peters, for the RESPOND Study Group

763

Diabetes Mellitus and Liver Disease Progression in PWH With Metabolic Dysfunction–Associated SLD

Win Min Han, Tanakorn Apornpong, Natthaya Chuaypen, Thin Phyu Phyu Aung, Hein Minn Kyaw, Porntep Amornritvanich, Napon Hiranburana, Hay Mar Su Lwin, Akarin Hiransuthikul, Stephen Kerr, Pisit Tangkijvanich, Anchalee Avihingsanon, for the HIV-NAT 006 Study Team

764

Switching to DTG/3TC vs BIC/FTC/TAF and Steatotic Liver Disease: A Substudy of PASODOBLE Trial

Juan A. Pineda, Jose L. Blanco, Pere Domingo, Mar Masiá, Juan Tiraboschi, Pilar Rincón, Alexy Inciarte, Paula Prieto, Jordi Navarro Mercade, Luis M. Real, Maria-Jesus Vazquez, Marta De Miguel, Esteban Martínez, **Juan Macias**, Adrian Curran, for the PASO-DOBLE Study Group

765

Liver Steatosis Progression With Integrase Inhibitors in HIV Adults in Low-/Middle-Income Countries

Marie Kerbie Plaisy, Thierry Tiendrebeogo, Carlotta Riebenschahm, Mark Kuniholm, Abert Minga, Gilles Wandeler, Rodrigo Moreira, Ephrem Mensah, Gad Murenzi, Ardele Mandiri, Sandra Wagner Cardoso, Jean Paul Mivumbi, Hugo Perazzo, Antoine Jaquet, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration

766

Lipidomics of Metabolic Dysfunction–Associated Steatotic Liver Disease Post-HCV Eradication in PWH

Juan Berenguer, Rubén Martín-Escolano, Belén Paula Fernández Requena, Ana Virseda-Berdices, Juan González-García, Carolina González-Riano, Cristina Díez, Victor Hontañón, Teresa Aldámiz-Echevarría, Coral Barbas, Salvador Resino, María Angeles Jiménez-Sousa



Poster Session-J1 | Liver Cancer, Lung Cancer, and NADC Pathogenesis

2:30 PM - 4:00 PM • Poster Hall

785 **WITHDRAWN**

786 Lung Cancer Screening Eligibility and Uptake Among People With HIV: A Decade of Missed Opportunities
Subhashini A. Sellers, Lindsay Browne, Heather Henderson, Claire Farel, Sonia Napravnik

787 Immune Tumor Microenvironment of HIV-Associated Lung Cancer Reveals Immunoregulatory Features
 Syim Salahuddin, Ramsey Yusuf, Shruti Desai, Lais Osmani, Kishu Ranjan, Jianlei Gu, Insoo Kang, Hongyu Zhao, Yuval Kluger, Kurt Schalper, **Brinda Emu**

788 Viral and Host Proteins Carried by Exosomes From PLWH Could Play a Role as Triggers of NADCs
 Asier Ureta, Clara Restrepo, Manuel Pedregal, Héctor Callata, Sara Nistal, Hector Peinado, Alberto Alcázar, Emma Martínez-Alonso, María L. García-Gil, Alfonso Cabello, Vicente Estrada, Miguel Górgolas, Jesús García-Foncillas, Jose M. Benito, **Norma Rallón**

Poster Session-J2 | Kaposi Sarcoma: Diagnosis, Treatment, Pathogenesis, and KSHV

2:30 PM - 4:00 PM • Poster Hall

789 Validation of Quantification of Lesional KSHV DNA Content for Diagnosis of Kaposi Sarcoma in Africa
Aggrey Semeere, Jeffrey Martin, Racheal A. Ayanga, Andrea Gardner, Juan Boza, Miranda McGaskey, Jason Manning, Megan Wenger, Charles Kasozi, Robert Lukande, Tim McCalmont, Phil LeBoit, Toby Maurer, Ethel Cesarman, David Erickson

790 Kaposi Sarcoma in Relation to HIV Diagnosis: Which Comes First in East Africa in the Treat All Era?
 Racheal A. Ayanga, Aggrey Semeere, Linda Chemtai, Micheal Kanyesigye, Mathew Ssemakadde, Hilda Muwando, Zainab Illonga, Emmanuel Ochola, Charles Kasozi, Winnie Muyindike, Elia J. Mmbaga, Samson Kiprono, Miriam Laker-Oketta, Jeffrey Martin, **Helen Byakwaga**

791 Immunologic Responses to Pomalidomide and Liposomal Doxorubicin for Kaposi Sarcoma Treatment
 **Matthew Witterholt**, Romin Roshan, Kathryn Lurain, Anaida Widell, Irene Ekwede, James Glassbrook, Ralph Mangusan, Thomas Uldrick, Laurie Krug, Denise Whitby, Robert Yarchoan, Ramya Ramaswami

792 Impact of Low-Dose Intralesional Nivolumab for Kaposi Sarcoma on T-Cell Proliferation and Function
Chia-Ching Wang, Amanda M. Buck, Lilian Grimbert, Cassandra Thanh, Kieron Leslie, Tyler-Marie Deveau, Rebecca Hoh, Michiko Ametani Shimoda, Amelia N. Deitchman, Steven G. Deeks, Jeffrey Martin, Paul Couey, Toby Maurer, Timothy J. Henrich

- 793 High Prevalence of Clonal Hematopoiesis Among Older People With HIV and Kaposi Sarcoma**
Ramya Ramaswami, Ryan M. Putney, Yi-Han Tang, Robert Yarchoan, Kathryn Lurain, Nancy Gillis, Anna E. Coghill
- 794 Causes of Death Among Adults With HIV-Associated Kaposi Sarcoma in East Africa in the Treat All Era**
 Hilda Muwando, **Helen Byakwaga**, Aggrey Semeere, Miriam Laker-Oketta, Jeffrey Martin, Racheal A. Ayanga, Samson Kiprono, Elia J. Mmbaga, Winnie Muyindike, Charles Kasozi, Pendo Ibrahim, Celestine Lagat, Bronia Mwiine, Elyne Rotich, Philippa K. Makanga
- 795 Neuropilin-1 Is Required for KSHV Lytic Replication in Primary Effusion Lymphoma**
Anna Serquina, Julie Lee, Guruswamy Mahesh, Joseph Ziegelbauer
- 796 Genome Evolution of Kaposi Sarcoma-Associated Herpesvirus (KSHV) in PLWH**
Dirk P. Dittmer, Razia Moorad, Alec Peng, Justin Landis, Patricio Cano, Linda Pluta, Angelica Juarez
- 797 Vascular Endothelial Growth Factor Receptor 3 (VEGFR3/FLT4) Regulates the KSHV Replication Cycle**
Ameera Mungale, Joseph Ziegelbauer

Poster Session-K1 | Heart Failure: Hiding in Plain Sight
 2:30 PM - 4:00 PM • Poster Hall

- 811 Sex Differences in Myocardial Steatosis in South African Youth With Perinatally Acquired HIV**
 **Morne Kahts**, Mothabisi Nyathi, Lidia S. Szczepaniak, Petronella Samuels, Stephen Jermy, Matthew J. Feinstein, Justine Legbedze, Nana Asafu-Agyei, Emma Carkeek, Nomawethu Jele, Grace A. McComsey, Landon Myer, Heather Zar, Ntobeko Ntusi, Jennifer Jao, for the CTAAC-Heart Study
- 812 Heart Failure Among People With HIV: Prescription of Guideline-Directed Medical Therapy**
Melissa K. Cutshaw, Robert M. Clare, Karen Chiswell, Paul Hofmann, April C. Pettit, Chris Longenecker, Matthew S. Durstenfeld, Gerald Bloomfield, Nwora L. Okeke
- 813 Mitochondrial Haplogroups and Left Ventricular Dysfunction in People Living With and Without HIV**
 **Craig Cronin**, Jing Sun, Jorge R. Kizer, Katherine C. Wu, David Samuels, Frank Palella, Shehnaz Hussain, Jeremy Martinson, Nicole Armstrong, Claudia Martinez, Caitlin A. Moran, Yasmeen Golzar, Federico M. Asch, Jason Lazar, Todd Brown
- 814 Physician-Confirmed Incident Heart Failure Phenotypes and Etiologies Within CNICS**
 Nour Beydoun, Robin M. Nance, Alexander P. Hoffmann, Matthew S. Durstenfeld, Bridget M. Whitney, Greer Burkholder, Priscilla Hsue, Joseph A. Delaney, Chris Longenecker, Heidi M. Crane, **Matthew J. Feinstein**
- 815 Readmission Risk for Adults With HIV Hospitalized for Heart Failure or Acute Myocardial Infarction**
 **Ping Yang**, Xianming Zhu, Eshan U. Patel, Wendy Post, M. Kate Grabowski, Thomas C. Quinn, Stephen A. Berry, Kelly Gebo, Aaron A. R. Tobian

816



Long-Term Outcomes in People With HIV Who Survive a Major Adverse Cardiovascular Event

Rebecka Papaioannu Borjesson, Pierluigi Realì, Riccardo Lolatto, Caterina Candela, Alessia Siribelli, Tommaso Clemente, Girolamo Piromalli, Martina Ranzenigo, Hamid Hasson, Camilla Muccini, Antonella Castagna, Vincenzo Spagnuolo

817

Epicardial Fat as a Predictor of Diastolic Dysfunction in Older People With HIV

Tanakorn Apornpong, Sarawut Siwamogsatham, Win Min Han, Sudarat Satitthummanid, Monravee Tumkosit, Hay Mar Su Lwin, Sasiwimol Ubolyam, Hein Minn Kyaw, Porntep Amornritvanich, Napon Hiranburana, Stephen Kerr, Pairoj Chattranukulchai, Anchalee Avihingsanon, for the HIV-NAT 006 and 207 Study Teams

Poster Session-K2 | Hypertension

2:30 PM - 4:00 PM • Poster Hall

818



Heart Failure Risk and Events in People With HIV in the REPRIEVE Trial

Maya Watanabe, Gerald Bloomfield, Sara McCallum, Heather Ribaudo, Judith Aberg, Aya Awwad, Sarah Chu, Judith Currier, Carl Fichtenbaum, Michael T. Lu, Carlos Malvestutto, Sophia Zhao, Markella V. Zanni, Steven Grinspoon, Pamela Douglas, for the REPRIEVE Study

819



Effect of the Transition to Dolutegravir on Blood Pressure in People Living With HIV in West Africa

Antoine Jaquet, Thierry Tiendrebeogo, Oliver Ezechi, Armel Poda, Abert Minga, Karen Malateste, Didier Ekouevi, Ighowwerha Ofotokun, **Romain Millot**, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - West Africa

820

No Increased Risk for Hypertension With CAB-LA Compared to TDF/FTC for PrEP: Results From HPTN 084

Sinead Delany-Moretlwe, Heather Ribaudo, Younjung Choi, Brett S. Hanscom, Nyaradzo Mgodì, Joseph Makhema, Harriet Nuwagaba-Biribonwoha, Scott Rose, Lydia Soto-Torres, James F. Rooney, Alex Rinehart, Raphael J. Landovitz, Mina C. Hosseini, for the HPTN 084 Study Team

821

Low Hypertension Knowledge Among Clinicians Prescribing Antihypertensive Medications in Malawi

Risa Hoffman, Pericles Kalande, Christine Hagstrom, Khumbo Phiri, George Talama, Jiyoung Lee, Joep J. van Oosterhout, Joseph Njala, Corrina Moucheraud, Sam Phiri

822

Social Determinants of Health and the Hypertension Care Cascade in a National HIV Cohort

Puja Van Epps, Lewis Musoke, Nadine Harris, Elizabeth Strawbridge, Sandra Woolson, Hayden Bosworth, for the V-Extra CVD Study

823

Risk of Incident Hypertension With Common Antiretroviral Agent Combinations in the OPERA Cohort

Laurence Brunet, Philip C. Lackey, Jennifer S. Fusco, **Gerald Pierone Jr**, Michael B. Wohlfeiler, Douglas T. Dieterich, Cassidy E. Henegar, Vani Vannappagari, Bryn Jones, Annemiek de Ruiter, Gregory P. Fusco



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

Poster Session-L1 | Renal Disease

2:30 PM - 4:00 PM • Poster Hall

854



HIV Superinfection in Kidney Transplant Recipients With HIV Who Received Organs From Donors With HIV

Grace Rozek, Yolanda Eby, Diane Brown, Darin Ostrander, Craig Martens, Sarah E. Benner, Eben Habtehyimer, Dorry L. Segev, Christine M. Durand, Aaron A. R. Tobian, Andrew D. Redd, for the HOPE in Action Investigators

855

APOL1 Genotype and Graft Function in South African HIV+-to-HIV+ Kidney Transplant Recipients

Robert Freercks, Kathryn Manning, Swetha Ashokkumar, Miruthula T. Selvan, Savania Nagiah, Jurgen Heymann, Jeffrey B. Kopp, Elmi Muller, Andrew D. Redd

856



Human Antibody Repertoire and Allograft Rejection Among Kidney Transplant Recipients With HIV

Xianming Zhu, William R. Morganlander, Christine M. Durand, Dorry L. Segev, Andrew D. Redd, Jonah Odim, Diane Brown, Yolanda Eby, Serena M. Bagnasco, Benjamin Larman, Aaron A. R. Tobian, for the HOPE in Action Investigators

857



Acute Drop in eGFR When Initiating SGLT2 Inhibitors vs Other Antihyperglycemic Medications Among PWH

Lara Haidar, Robin M. Nance, L. Sarah Mixson, Bridget M. Whitney, Carolyn A. Fahey, Stephanie A. Ruderman, Greer Burkholder, Laura Bamford, Robert Kalayjian, Katerina Christopoulos, Alexander Commanday, April C. Pettit, Joseph A. Delaney, Heidi M. Crane, Sherif Eltonsy, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)

858

Associations Between Antiretroviral Therapy Use, Vitamin C Renal Leak, and Vitamin C Deficiency

Ifechukwude Ebinuwa, Pierre-Christian Violet, Thom Greene, Irene Rozga, Razi Berman, Nicholas Munyan, Kenneth Wilkins, Seble Kassaye, Mark Levine, **Stephanie Teng**, for the MACS/ WIHS Combined Cohort Study (MWCCS)

859

Renal Outcomes in People With HIV-1 and Renal Impairment Treated With B/F/TAF in Randomized Trials

Frank Post, David Wohl, Geoffroy Liegeon, Indira Brar, Debbie Hagins, Yazdan Yazdanpanah, Anchalee Avihingsanon, Hui Liu, Keith Aizen, Jason T. Hindman, Samir K. Gupta

Poster Session-L2 | GLP-1 Receptor Agonists

2:30 PM - 4:00 PM • Poster Hall

860

Racial Inequity in Initiation of Semaglutide Therapy Among People With HIV in Care Across the US

Stephanie A. Ruderman, **Andrew W. Hahn**, Lara Haidar, Sherif Eltonsy, Lydia N. Drumright, Jimmy Ma, Conall O'Cleirigh, Sonia Napravnik, Katerina Christopoulos, Edward Cachay, George Yendewa, Amanda Willig, Geetanjali Chander, Heidi M. Crane, Rob Fredericksen, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)



- 861** **Cardiometabolic Effects of Semaglutide in People With HIV: The SLIM LIVER Study**
Jordan E. Lake, Doug Kitch, Amy Kantor, Raja Muthupillai, Pablo Belaunzarán-Zamudio, Carl Fichtenbaum, Hugo Perazzo, Sonya L. Heath, Todd Brown, Alan Landay, Jennifer Kinslow, Fred R. Sattler, Kristine M. Erlandson, for the ACTG A5371 Protocol Team
- 862** **Durability of Semaglutide Effects After Drug Discontinuation in HIV-Associated Lipohypertrophy**
Allison Ross Eckard, Qian Wu, Abdus Sattar, Kianoush Ansari-Gilani, Danielle Labbato, Corri Lynn O. Hileman, Aaron A. Fletcher, Grace A. McComsey
- 863**  **Impact of Antidiabetic Medications on Weight Change Among People With HIV**
Lara Haidar, Robin M. Nance, Bridget M. Whitney, Stephanie A. Ruderman, Allison Webel, Geetanjali Chander, Amanda Willig, Edward Cachay, Kenneth Mayer, Jeffrey M. Jacobson, Richard Moore, Lydia N. Drumright, Heidi M. Crane, Joseph A. Delaney, Sherif Eltonsy, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)
- 864** **Liraglutide for Obesity in HIV (LIROH): A Single-Arm, Open-Label Clinical Trial in South Africa**
 Ngundu Behuhuma, Gugulethu Gasa, Anne Derache, Buhle Nhlapo, Sfundu Khumalo, Nomathemba Chandiwana, Megan Lam, Kristien Bird, Henrik Kloverpris, Janet Lo, Mohammed K. Ali, Francois Venter, Mark J. Siedner, Limakatso Lebina, **Jennifer Manne-Goehler**
- 865** **The Projected Impact of Post-ART BMI Maintenance on Diabetes Risk: A Modeling Study**
 Parastu Kasaie, Yao Zhao, Kendall Reid, Elizabeth Humes, Katherine Kurgansky, Lucas Gerace, Yanxun Xu, Catherine Lesko, Kelly Gebo, Kristine M. Erlandson, **Keri N. Althoff**

Poster Session-L3 | Biomarkers of Aging

2:30 PM - 4:00 PM • Poster Hall

- 866**  **ART Exposure and Accelerated Aging in PLHIV: Insights From Proteomic and Methylation Clocks**
Nadira Vadaq, Victoria Rios Vazquez, Louise E. van Eekeren, Adriana Navas, Jéssica dos Santos, Wilhelm A. Vos, Albert L. Groenendijk, Marc J. T. Blaauw, Erni Nelwan, Leo Joosten, Jan van Lunzen, Cheng-Jian Xu, Vasiliki Matzaraki, Andre van der Ven, Mihai G. Netea, for the 2000HIV Human Functional Genomics Partnership Program
- 867**  **Epigenetic Age Acceleration and CD4/CD8 Ratio in People With Well-Controlled HIV Infection**
Alejandro de Gea Grela, Andrés Esteban-Cantos, Francisco Jurado, Lucía Gutiérrez, Patricia Martínez-Martín, Cristina Marcelo, Juan Carlos González, María Jiménez-González, Alejandro Díez-Vidal, María del Mar Arcos-Rueda, Luis Ramos, Juan Miguel Castro, Berta Rodés, Jose R. Arribas, Rocío Montejano Sanchez

868 Inflammatory Markers and Frailty, Cognitive Impairment, Clinical Outcomes, and Mortality in PWH

Win Min Han, Kunling Wu, Katherine Tassiopoulos, Kate Ailstock, Morgan Cummings, Stephen Kerr, Anchalee Avihingsanon, Ponego Ponatshego, Mosepele Mosepele, Netanya Utay, Nicholas Funderburg, Kristine M. Erlandson, for the ACTG A5322 (HAILO) Study Team

869 Novel Biomarkers Link Inflammation, T-Cell Exhaustion, Bone Health, and Frailty in People With HIV

Michael L. Freeman, Wendy Fitzgerald, Brian Claggett, Leonid Margolis, Kristine M. Erlandson, Carey Shive

870 The Association of Cytomegalovirus Serostatus on Immune Recovery Among People With HIV

Raynell Lang, Joshua Quisias, Sally B. Coburn, Hartmut Krentz, Brenda Beckthold, Kevin Fonseca, Michael Parkins, M. John Gill

871 Validation of SARC-F Tool for Sarcopenia Screening in People Aging With HIV



Joselito Malca Hernandez, Noah Brazer, Ahmed Abdeen, Daniel Granda, Yvett Pinedo Ramirez, Flor Gonzales, Miguel Tapia, Patricia Garcia, Evelyn Hsieh

872 Mitochondrial DNA Variation and Physical Function Among Men With and Without HIV

Jing Sun, Weiqun Tong, Wen Shi, Kristine M. Erlandson, Beth Jamieson-Karavodin, Frank Palella, Jennifer Schrack, Todd Hulgán, Dan E. Arking, Todd Brown, for the MACS/WIHS Combined Cohort Study (MWCCS)

873 Senescence-Associated Secretory Phenotype Biomarker Profiles of Age-Related Outcomes in PWH

Mary C. Masters, Janeway Granche, Raha M. Dastgheyb, Katherine Tassiopoulos, Alan Landay, Carrie Johnston, Susan Koletar, George A. Kuchel, James L. Kirkland, Tamar Tchkonja, Kristine M. Erlandson, Frank Palella, for the ACTG A5322 (HAILO) Study Team

874 Multicomponent Exercise Associated With a Healthier Gut Microbiota Profile in Older Adults With HIV



Laura Martín Pedraza, Fátima Brañas, Fernando Dronda, Laura Luna, Pablo Ryan, Santiago Moreno, Marta Martínez, Matilde Sánchez-Conde

875 Muscular Markers for Early Identification of Sarcopenia and Frailty States in Older People With HIV

Eugènia Negro, Irini Sereti, Ana Martínez, Sandra González, Jordi Puig, Gemma Monté-Rubio, Adam Rupert, Patricia Echeverria, Anna Bonjoch, Josep Puig, Diana Hernandez

876 Metformin for Reversal of Accelerated Biological Aging in Persons With HIV: A Pilot Clinical Trial



Cristina Marcelo, Andrés Esteban-Cantos, Francisco Jurado, Javier Rodríguez-Centeno, Rocío Montejano Sanchez, Lucía Gutiérrez, Alejandro de Gea Grela, Patricia Martínez-Martín, Juan Carlos González, Luz Martín-Carbonero, Jose Ignacio Bernardino, Berta Rodés, Jose R. Arribas

Poster Session-M1 | PASC: Natural History and Classification Systems

2:30 PM - 4:00 PM • Poster Hall

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Higher Mortality Following SARS-CoV-2 Infection in Rural Dwellers Persists 2 Years After Infection

Jerrold Anzalone, Michael T. Vest, Makayla E. Schissel, Brad Price, Lucio Miele, San Chu, Sally L. Hodder, for the National COVID Cohort Collaborative (N3C)

918

HIV Infection and Long COVID: A RECOVER Program, EHR-Based Cohort Study

Kellie L. Hawkins, Dima Dandachi, Colby Lewis, M. Daniel Brannock, Zoe Verzani, Saajjad Abedian, Sohrab Jaferian, Shannon Wuller, Jennifer Truong, Margot Gage Witvliet, Kristen Marks, Edward M. Gardner, Ighowwerha Ofotokun, Roy M. Gulick, Kristine M. Erlandson, for the RECOVER Consortium

919

Putting the PASC Score to the Test: Clinical vs Statistical Accuracy in Long COVID

Alba M. Azola, Leah H. Rubin, Rebecca E. Easter, Rebecca Veenhuis, Hannah Parker, Christina Della Penna, Holly Schultz, Isabel Santiuste

920

Parametric Survival Analysis of Long COVID: A Cohort Study on the Time to Symptom Resolution

Warren Malambo, Patrick Kaonga, Mutale S. Kawana

921



Assessing the Burden of Long COVID in Persons With HIV Using the RECOVER Scoring System

Kamaria Dansby, Cyra C. Mehta, Tsungirirai Maramba, Lauren F. Collins, Caitlin A. Moran, Phyllis C. Tien, Brad Aouizerat, Joseph Margolick, Michelle Floris-Moore, Kara Chew, Valentina Stosor, Gypsyamber D'Souza, Kathryn Anastos, Ighowwerha Ofotokun

922

Long COVID Is a Multisystem Disorder: Assessment of the National Academies Definition

Lawrence Huang, Amitabh Gunjan, Anudeep S. Appe, Paul A. McKelvey, Heather A. Algren, Mark Berry, Essy Mozaafari, Bill J. Wright, Jennifer J. Hadlock, **Jason D. Goldman**

923

Completeness of COVID-19 Outcomes Among People With HIV Receiving Care in New York City in 2020

Jenny Shen, Keith M. Sigel, Joseph P. McGowan, Daniel Bertolino, Kathryn Anastos, Uriel R. Felsen, Denis Nash, Viraj V. Patel, Mckaylee M. Robertson, Miguel A. Hernan, Sarah L. Braunstein, Heidi E. Jones, **David B. Hanna**

924



COVID-19 Symptoms, Vaccination, and Long COVID Between Cancer Survivors and the US General Population

Jincong Q. Freeman, Victoria Umutoni, Xinyi Li, Olivia Zou, Ted O. Akhiwu

925



A Population-Based Study of Functional Disability, COVID-19 Symptoms, and Long COVID Among US Adults

Jincong Q. Freeman, Xinyi Li, Victoria Umutoni, Ted O. Akhiwu, Heather J. Hoffman

926



Cognitive Trajectories 1 Year Before and After COVID-19 in an Early-Treated HIV Cohort

Ferron F. Ocampo, Tyler Hamby, Luxe-Naree Poonpitak, Carlo Sacdalan, Suwanna Puttamaswin, Somchai Sriplienchan, Nittaya Phanuphak, Phillip Chan, Trevor Crowell, Lydie Trautmann, Sandhya Vasani, Robert Paul, Serena Spudich, for the RV254/SEARCH 010 Study Team

Poster Session-N1 | ART-Related and Social Determinants of TB Transmission and Treatment Outcomes

2:30 PM - 4:00 PM • Poster Hall

948

Modelling the Contribution of Incarceration to TB Transmission in Ukraine

Jack Stone, Adelina Arteni, Frederick Altice, Peter Vickerman

949

Mental and Physical Health of People With TB in Southern Africa at the Start of Treatment and Beyond

Guy K. Muula, Nicolas Banholzer, Denise Evans, Jacqueline Huwa, Idiovino Rafael, Marie Ballif, Cordelia Kunzekwenyika, Carolyn Bolton-Moore, Gunar Günther, Andreas D. Haas, Annika Sweetland, Matthias Egger, Lukas Fenner, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - Southern Africa

950



HIV and Tuberculosis Stigma Affecting Individuals With Pulmonary Tuberculosis in East Africa

Kirsten K. Prabhudas-Strycker, Lameck Diero, Winnie Muyindike, Helen Byakwaga, Neelima Navuluri, Sylvia Kitur, Joseph Mining'wo, Bob Ssekyanzi, Alexis Byaruhanga, Suzanne Goodrich, Harold Kooreman, Constantin T. Yiannoutsos, Aggrey Semeere, Kara K. Wools-Kaloustian, Leslie A. Enane, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - East Africa Region

951



Neuropsychiatric Outcomes in Adults With HIV and TB on Twice-Daily BIC/FTC/TAF With Rifampicin

Gillian L. Dorse, Rubeshan Perumal, Kogieleum Naidoo, Marothi P. Letsoalo, Kelly E. Dooley, Anushka Naidoo

952

High Incident TB Among Individuals Switched to Dolutegravir or Protease Inhibitor Based 2nd Line ART

Claudia Danielle Minkoulou Engamba, Sivile Sulanjji, Lameck Chirwa, Chitalu Chanda, Nyuma Mbewe, Lloyd Mulenga, for the VISEND Study Team

953



Unmasking and Tracking Tuberculosis Risk During HIV Acquisition and Antiretroviral Therapy

Fatoumatta Darboe, Alaa Abdellatif, Shaista Afzal, Delia Pinto-Santini, Siavash Pasalar, Gabriela K. Fragiadakis, Ann Duerr, Peter W. Hunt, Sara Suliman

Poster Session-O1 | Long-Acting Antiretrovirals for Pregnant and Breastfeeding Women

2:30 PM - 4:00 PM • Poster Hall

1014



LA-ART for Breastfeeding Women With HIV in Zimbabwe: Clinical Impact and Cost-Effectiveness

Sujata Tewari, Risa Hoffman, Shahin Lockman, Clare Flanagan, Karen Webb, Stephanie Horsfall, Anesu Chimwaza, Caitlin Dugdale, Judith Currier, Efson Dhodho, Angela Mushavi, Florence Ebem, Kudakwashe Takarinda, Sophie Desmonde, Andrea L. Ciaranello



- 1015 Long-Acting Cabotegravir/Rilpivirine in Pregnancy**
William R. Short, Matty Zimmerman, Mariam Aziz, Jillian Baron, Philip Bolduc, Eric Farmer, Naima Joseph, Stephan Kohlhoff, Florence Momplaisir, Alexander Nelson, Natalie Nielsen, Dimple Patel, Stephen Pagkalinawan, Mireya Wessolossky, Rachel Scott
- 1016 Modeling Tail-Phase PK From Early Pregnancy to Postpartum and Fetal Exposure to Long-Acting CAB-RPV**
 **Shakir Atoyebe**, Catriona Waitt, Adeniyi Olagunju
- 1017 A Long-Acting Dolutegravir Formulation Improves Drug Safety Profile During Pregnancy**
 **Emma G. Foster**, Brady Sillman, Micah Summerlin, Christine A. Adalikwu, Baojin Yao, Yutong Liu, Benson Edagwa, Howard Gendelman, Aditya N. Bade
- 1018 Population PK and CYP3A Inhibition Capacity of Ritonavir in Pregnancy: A Model-Based Meta-Analysis**
 Jeremiah Momper, Marlon Liyanage, Mark Mirochnick, Brookie Best, Emily Barr, Alice Stek, Kristina Brooks, Sandra Burchett, Kathleen Powis, Tim Cressey, Edmund Capparelli, **Safa Algharbi**

Poster Session-O2 | Complications in Maternal HIV
 2:30 PM - 4:00 PM • Poster Hall

- 984 Patterns of Adiposity and Gestational Weight Gain in Pregnant South African Women Living With HIV**
 **Mustafa Shuaib**, Jennifer Jao, Hayli Geffen, Helene C. Theunissen, Hlengiwe Madlala, Sandisiwe M. M. Matyesini, Elton Mukonda, Elaine Abrams, Landon Myer
- 985 Genome-Wide Association With Postpartum Weight Change in Mothers on DTG or EFV in DOLPHIN-2**
 **Rebecca Jensen**, Ray Monk, Thokozile R. Malaba, Eunice Zhang, Duolao Wang, Sylvia Nassiwa, Catriona Waitt, Lucy Read, Jim Read, Helen E. Reynolds, Catherine Orrell, Landon Myer, Daniel Carr, Saye Khoo, for the DOLPHIN-2 Study Group
- 986 Depression, Sleep, and Anxiety Among Pregnant and Postpartum Women Using Dolutegravir and Efavirenz**
Danni Wu, Kristin Baltrusaitis, Teacler Nematadzira, Malinda Kaiyo-Utete, Anne Coletti, Katie McCarthy, Chelsea Krotje, Lameck Chinula, Shahin Lockman, Lynda Stranix-Chibanda, for the IMPAACT 2010 (VESTED) Study Team
- 987 Sleep Patterns in South African Pregnant Women Living With HIV on Dolutegravir: A Prospective Study**
 **Hayli Geffen**, Jennifer Jao, Hlengiwe Madlala, Sandisiwe M. M. Matyesini, Elton Mukonda, Landon Myer, Elaine Abrams
- 988 Prior Pregnancy Affects Aging-Related Non-AIDS Comorbidity Burden in US Women With and Without HIV**
Lauren F. Collins, Cyra C. Mehta, Jordan E. Lake, Seble Kassaye, Kathryn Anastos, Tonya N. Taylor, Elizabeth F. Topper, Michelle Floris-Moore, Margaret Fischl, Mirjam-Colette Kempf, Audrey L. French, Phyllis C. Tien, Frank Palella, Ighowwerha Ofotokun, Anandi N. Sheth

- 989** **Characteristics and Outcomes of Pregnant Women With HIV Undergoing Tuberculosis Screening in Uganda**
Christina Yoon, Lelia H. Chaisson, Shafic Makumbi, David W. Dowdy, Patrick Phillips, Henry Ssenyondo, Suzanne Dufault, Sylvia LaCourse, Annette Nakimuli, Fred C. Semitala
- 990** **Incidence of Tuberculosis in South African Women Living With HIV During Pregnancy and Postpartum**
 **Jasantha Odayar**, Mustafa Shuaib, Jennifer Jao, Molebogeng Rangaka, Hlengiwe Madlala, Sandisiwe M. M. Matyesini, Elton Mukonda, Landon Myer, Elaine Abrams

Poster Session-P1 | Health and Outcomes of Children Exposed to HIV/ART in Utero

2:30 PM - 4:00 PM • Poster Hall

- 1019** **Neurodevelopmental Disorders in French HIV-/ARV-Exposed Uninfected Children: A National Cohort Study**
 Pierre Frange, Laurent Chouchana, **Mathis Collier**, Jeanne Sibuide, Arnold Munnich, Jean-Marc Treluyer, Stéphane Blanche
- 1020** **Prenatal PrEP Exposure and Language Development Among Children at 5 Years**
 **Lauren A. Gomez**, John Kinuthia, Felix Abuna, Sarah Benki, Mary Marwa, Salphine Watoyi, Bilhah Aomo, Nancy Ngumbau, Ben Ochieng, Anna Larsen, Joshua Stern, Barbra Richardson, Grace John-Stewart, Jillian Pintye, for the UW-KNH PrEP in Pregnancy Studies Team
- 1021** **Growth Faltering Is Partially Ameliorated by Infant Gut *Bifidobacterium* in Children Exposed to HIV**
Nicole Tobin, Christine J. McGrath, Fan Li, Charles Mutinda, Priscah Lihanda, Mame M. Diakhate, Grace John-Stewart, Benson O. Singa, Grace Aldrovandi
- 1022** **Insulin-Like Growth Factors and Stunting in African Infants Exposed to HIV and Uninfected**
Brenda C. Kakayi, Patricia DeMarrais, Kristin Baltusaitis, Lynda Stranix-Chibanda, Clemensia Nakabiito, Vivian Rexroad, Maxensia Owor, Sufia Dadabhai, Dhayendre Moodley, Friday Saidi, Avy Violari, Gerhard Theron, Mary G. Fowler, Takara L. Stanley, for the IMPAACT P1084s Protocol Team
- 1023** **Cardiometabolic Outcomes in HEU vs HU Children in a SA Birth Cohort: Influence of Maternal Lipids**
Calli Dogon, Jennifer Pellowski, Heather Zar, Angela Bengtson, Tiffany Burd, Maresa Botha, Lesley Workman
- 1024** **Obesity and Metabolic Comorbidities in Young Adults With Perinatal HIV Exposure Without Infection**
 **Nikhita Chahal**, Allison K. Arpante, Julia E. Johnson, Camille A. Dash, Mollie W. Ockene, Isabel Zheng, Autumn Boutin, Hang Lee, Kathleen Corey, Takara L. Stanley, Steven Grinspoon, Lindsay T. Fourman
- 1025** **Transcriptome Perturbations in Peripheral Blood Cells of HIV-Exposed Uninfected Infants**
 Li Yin, Upasana Nepal, Kai-Fen Chang, Samiksha Borkar, Isaac D. Rapple, Jerry Shen, Bernard M. Fischer, Guglielmo M. Venturi, Shivangi Choudhary, Kristina De Paris, John W. Sleasman, Maureen M. Goodenow

1026



Comparing Telomere Length Between Children Who Were and Were Not Exposed to HIV in Kenya

Jillian Neary, Irene Njuguna, Tiffany Pan, Daniel Matemo, Fiona McBride, Alvin Onyango, Maureen King'e, Prestone O. Owiti, Celestine Adogo, Dalton Wamalwa, Dan T. A. Eisenberg, Grace John-Stewart

1027



HIV Exposure Affects Gut Virome Richness but Not Diversity Among Kenyan Infants

Emily R. Begnel, Rabia Maqsood, LaRinda A. Holland, Ednah Ojee, Prestone O. Owiti, Judith Adhiambo, Eliza Mabele, Soren Gantt, Bhavna H. Chohan, John Kinuthia, Dalton Wamalwa, Efreem S. Lim, Dara A. Lehman, Jennifer Slyker

1028



HIV Exposure Does Not Affect Cytomegalovirus Acquisition Risk in a Setting of Optimized Maternal ART

Emily R. Begnel, Mi-Suk Kang Dufour, Kerusha Govender, Jing Hu, Elisabeth McClymont, Ednah Ojee, Prestone O. Owiti, Judith Adhiambo, Eliza Mabele, Bhavna H. Chohan, Dara A. Lehman, John Kinuthia, Dalton Wamalwa, Soren Gantt, Jennifer Slyker

1029



Rapid Waning in Hepatitis B Virus Vaccine Immunity Among Children HIV-Exposed Uninfected in Botswana

Lynette Bhebhe, Bonolo B. Phinius, Tsholofelo K. Ratsoma, Gorata Mpebe, Chanana Tsayang, Kabo Baruti, Basetsana K. S. Phakedi, Linda D. T. Mpofu-Dobo, Patience Motshosi, Justine Legbedze, Jennifer Jao, Kathleen Powis, Sikhulile Moyo, Motswedi Anderson, Simani Gaseitsiwe

Poster Session-Q02 | Mpox Epidemiology

2:30 PM - 4:00 PM • Poster Hall

1090

Understanding Mpox and HIV Coinfection: Insights From a Major Cohort Study in Brazil

Mayara Secco Torres da Silva, Thiago Torres, Carolina Coutinho, Eduardo Mesquita Peixoto, **Matheus Oliveira Bastos**, Pedro Silva Martins, João Paulo Bortot, Amanda Echeverría-Guevara, Maira Braga Mesquita, Ana Paula Lovetro, Edson Elias Silva, Estevão Portela Nunes, Sandra Wagner Cardoso, Valdilea Gonçalves Veloso, Beatriz Grinsztejn

1091

WITHDRAWN

1092

Mpox Reinfections in California, May 2022 to August 2024

Jessica Watson, Kayla Saadeh, Alyssa Newman, Aaron Cook, Wyatt Hanft, Kelly A. Johnson, Sam Schildhauer, Jill Hacker, Shiffen Getabecha, Alex Espinosa, Kathleen Jacobson, Robert E. Snyder, Eric Tang

1093

Sexual Behaviors Among GBMSM Infected With Mpox in California (May 2022-July 2024)

Kayla Saadeh, Sam Schildhauer, Edwin Chojolan, Awa Keinde, Kelsey MacCuish, Jessica Watson, Eric Tang, Kathleen Jacobson, Robert E. Snyder

1094 Long-Term Sequelae of Mpox: A Cohort Study in 2 Tertiary Centers
Rene Bulnes, Stephanie Reyes, Shivani Sundar, Tianna Petersen Petersen, Mamta K. Jain, Netanya Utay

1095 Mpox Viral Load and Illness Severity in MSM Living With and Without HIV by Vaccine Status
Guido Schäfer, Hauke Walter, Knud Schewe, Malte Monin, Michael Sabranski, Axel Adam, Stefan Hansen, Stefan Fenske, Katharina Cron, Christian Hoffmann

Poster Session-Q03 | The Intersection of HIV With COVID-19
2:30 PM - 4:00 PM • Poster Hall

1096 Impact of COVID-19 Healthcare Disruptions on ART Initiation and Viral Suppression: US, 2018-2021
Sarita Shah, Felicia Hardnett, Jun Li, Alexander Ewing, Brenna C. Hogan, Vincent C. Marconi, Jonathan Colasanti, Catherine Lesko, Adrienne E. Shapiro, M. John Gill, Maile Karris, Joseph J. Eron, Peter F. Rebeiro, Keri N. Althoff, Kate Buchacz, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

1097 Disparities in COVID-19 Therapeutics Access Among People With and Without HIV: An N3C Analysis
Emmanuel Nazaire Essam Nkodo, Pooja Maheria, Eric G. Hurwitz, Jerrod Anzalone, Dongmei Li, Jessica Islam, Jing Sun, Zachary Butzin-Dozier, Sandra Safo, Tommy Williams, Shukrih A. Hassan, Marlene Camacho-Rivera, Rena C. Patel, Nada Fadul, for the National COVID Cohort Collaborative (N3C)

1098 Impact of COVID-19 Pandemic on the Newly Diagnosed PWH: Data From 2 Clinical Centres in Italy
Andrea Carbone, Francesca Lombardi, Valentina Iannone, Pierluigi Francesco Salvo, Giorgio Tiecco, Jacopo Logiudice, Francesco Castelli, Roberta Gerami, Antonella Cingolani, Giancarlo Scoppettuolo, Carlo Torti, Simona Di Giambenedetto, Eugenia Quiros-Roldan

1099 Impact of COVID-19 Pandemic in Deaths of PLWH From ART Program of a Peruvian Hospital
Jorge Tello Arana, Carlos Gonzales Rayme, Silvana Maldonado Berrospi, Alfredo Chiappe-Gonzales, Juan Montenegro-Idrogo

1100 Differential Impact of Social Determinants of Health by Sex in HIV for COVID-19 Hospitalizations
Dimple Vaidya, Kenneth Wilkins, Eric G. Hurwitz, Zachary Butzin-Dozier, Elaine Hill, Pooja Maheria, Jessica Islam, Jing Sun, Dongmei Li, Sandra Safo, Marlene Camacho-Rivera, Charisse Madlock-Brown, **Rena C. Patel**, for the National COVID Cohort Collaborative (N3C)

Poster Session-Q04 | Criminal Justice, Mental Health, and Syndemics Intersect With HIV
2:30 PM - 4:00 PM • Poster Hall

1101 A Syndemic View of Criminal Justice: Jail's Impact on HIV, Syphilis, and Overdose in Washington 2023
Steven J. Erly, Danika A. Troupe, Silas M. Hyzer, Rachel M. Amiya

- 1102 HIV Acquisition After Prison Release in Washington State and Implications for Prevention Efforts**
Danika A. Troupe, Steven J. Erly, Helen E. Jack, Courtney G. Bagdon-Cox, Rachel M. Amiya
- 1103 Exploring Depression and Interventions Among PLHIV: Insights From the African Cohort Study**
Gabriel Saemisch, Ilana Lapidus-Salaiz, Seth Frndak, Nicole Dear, Ajay P. Parikh, Jaclyn Hern, Hannah Kibuuka, Valentine Sing'Oei, John Owuoth, Jonah Maswai, Emmanuel Bahemana, Zahra Parker, Victor Anyebe, Julie Ake, Neha Shah, for the African Cohort Study (AFRICOS) Study Group
- 1104 WITHDRAWN**

- 1105 HIV Diagnosis Following Discharge From Psychiatric Hospitalization: A Claims-Based, Real-World Study**
 **Samuel Bunting**, Max Hyman, Aniruddha Hazra
- 1106 Housing Status and HIV Outcomes Among Reproductive-Age Women Living With HIV in the Southern US**
Shreya Ganguly, Olivia Christman, Qian Yang, Cyra C. Mehta, Tina T. Tisdale, Ayako W. Fujita, Deborah Konkle-Parker, Maria L. Alcaide, Aadia Rana, Seble Kassaye, Elizabeth F. Topper, Daniel Westreich, Anandi N. Sheth

Poster Session-Q05 | Epidemiology of HIV in Transgender and Nonbinary Persons

2:30 PM - 4:00 PM • Poster Hall

- 1107 WITHDRAWN**
- 1108 Recent HIV Acquisition Among Transgender Women From Midwest Brazil**
Sylvia L. M. Teixeira, Thiago Silva Torres, Bruno Vinícius D. Diniz e Silva, José Henrique S. Pilotto, Ingebourg Georg, Carlos S. Jesus, Paulie Marcelly R. Santos, Karlla Antonieta A. Caetano, Regina Maria B. Martins, Megmar Aparecida S. Carneiro, Monick L. Guimarães, Sheila A. Teles
- 1109 High HIV Burden Among Transgender Women in the State Capital and Rural Towns in Central Brazil**
 **Bruno Vinícius D. Diniz e Silva**, Larissa Silva Magalhães, Kamila Cardoso dos Santos, Sylvia L. M. Teixeira, Ingebourg Georg, Karlla Antonieta A. Caetano, Robert L. Cook, Sheila A. Teles, Megmar Aparecida S. Carneiro, for the Núcleo de Estudos em Epidemiologia e Cuidados em Doenças Transmissíveis e Agravos à Saúde Humana (NECAIH)

1110 Time to Antiretroviral Initiation Among Transgender Women Living With HIV in France (1997-2022)
Juliette Hemery, Pierre Tattevin, Esaïe Marshall, Margot Annequin, Thibault Chiarabini, Nathalie Dournon, Anaenza Maresca, Jade Ghosn, Valentina Isernia, Florence Michard, Segolene Perrineau, Giovanna Rincon, Bruno Spire, Pierre De Truchis, Sophie Grabar

Poster Session-R1 | Self, Couple, and Mobile Testing
2:30 PM - 4:00 PM • Poster Hall

1177 Expanding HIV Self-Test Reach: Comparative Outcomes Across Facility, Community, and Online Channels
Thi Thi Win, Moe Kyaw Kyaw, Yin Min Thauang, Linn Htet, Kyaw Phyo Naing, Sai Lone Tip

1178 National HIV Self-Test Distribution Program: HIV Testing, Diagnosis, and Treatment, 3/2023-5/2024
Allison Lale, Robin J. MacGowan, Avery Bourbeau, Patrick S. Sullivan, Reva S. Downey, Kevin Delaney

1179 Estimating Need for Annual HIV Testing Met by a Nationwide Mailed HIV Self-Testing Program
Jessica M. Keralis, Kevin Delaney, Travis Sanchez, **Patrick S. Sullivan**

1180 Engaging Male Partners of HIV-Negative Pregnant Women in HIV Testing Using Oral HIV Self-Test
Maganizo B. Chagomerana, Annie Thom, Nora E. Rosenberg, William C. Miller, Irving F. Hoffman, Agatha Bula, Mitch M. Matoga, Mina C. Hosseinipour

1181 Moderators of a Home-Based Couple Intervention on Couple HIV Testing and Counselling Uptake in Kenya
Zachary A. Kwen, Kevin Owuor, Lynae Darbes, Anna Helova, Evelyne Owengah, Elizabeth A. Bukusi, Abigail Hatcher, Moses Okombo, Janet M. Turan

1182 Evaluating the Effectiveness and Population Impact of Status-Neutral HIV Screening in AZ
Lazaro Ruiz, Sheila Soto

Poster Session-S1 | Choice and Options as Prevention Tools
2:30 PM - 4:00 PM • Poster Hall

1200 Persistence of Oral PrEP Use in the United States, 2017-2023
Ya-Lin A. Huang, Weiming Zhu, Laura M. Mann, Karen W. Hoover

1201 WITHDRAWN

1202 Evaluating Pharmacy-Based PrEP Delivery for Sex Workers in Zimbabwe: Pilot Quasi-Experimental Study
 **Oppah Kuguyo**, Marisa Fujimoto, Constance Watadzaushe, Albert Takaruza, Laura Packel, Primrose Matambanadzo, Getrude Ncube, Owen Mugurungi, Frances Cowan, Sandra I. McCoy, Euphemia L. Sibanda

MONDAY

1203 Patterns of Choice, Switching, and Discontinuation of Oral and Injectable PrEP Among Adolescents

Laio Magno Santos de Sousa, Beo O. Leite, Fabiane Soares, Lorenza Dezanet, Mateus Westin, Diana R. Zeballos Rivas, Dirceu Greco, Paula Massa, Alexandre Grangeiro, Ines Dourado, for the PrEP1519 Study Group

1204 Support for Over-the-Counter PrEP Among Transgender Women and Transfeminine Nonbinary People



Lauren R. Violette, Samuel Jenness, Vanessa M. McMahan, laah L. Lucas, Mariah Valentine-Graves, Joanna A. Caldwell, Travis Sanchez, Stefan Baral, Douglas Krakower, Julia Marcus

1205 Male Circumcision, HIV, and Hepatitis B: Results From the Tanzania HIV Impact Survey

Alexander Kailembo, Sarah Porter, Daimon Simbeye, Oscar E. Rwabiyago, Samwel Sumba, Ahmed Khatib, Mohamed Hassan, Tapa Nkumbula, Jonathan Grund, George S. Mgomella, Mahesh Swaminathan

1206 Online and Less Frequent Monitoring of Oral HIV PrEP Use Are Noninferior to Standard of Care



Marije L. Groot Bruinderink, Anders Boyd, Lotte Werner, Vita W. Jongen, Laura Blitz, Colette van Bokhoven, Joey Woudstra, Sophie Boers, Hannelore M. Götz, Allard R. Feddes, Frenk van Harreveld, Maria Prins, Elske Hoornenborg, Udi Davidovich, Maarten Schim van der Loeff

Poster Session-S2 | Epidemic Prevention Strategies

2:30 PM - 4:00 PM • Poster Hall

1207 Spillover Infections Drive Transmission in HIV Prevention Trials: BCPP/Ya Tsie Study



Lerato Magosi, Eric Tchetgen Tchetgen, Vlad Novitsky, Molly Pretorius Holme, Janet Moore, Pam Bachanas, Christophe Fraser, **Sikhulile Moyo**, Kathleen Hurwitz, Tendani Gaolathe, Joseph Makhema, Shahin Lockman, Max Essex, Victor De Gruttola, Marc Lipsitch, for the Botswana Combination Prevention Project (BCPP/Ya Tsie Trial)

1208 Cost-Effectiveness of Vaccination Strategies to Control Future Mpox Outbreaks in England

Xu-Sheng Zhang, Siwaporn Niyomsri, Sema Mandal, Hamish Mohammed, Miranda Mindlin, Gayatri Amirthalingam, Andre Charlett, Claire Dewsnap, Bennet Dugbazah, David Phillips, Mary E. Ramsay, Josephine G. Walker, **Peter Vickerman**

1209 Estimating Population Immunity and Impact of COVID-19 Vaccination in Washington and Oregon

Mia Moore, Larissa Anderson, Chloe Bracis, David Swan, Ian Painter, Erik Everson, Holly Janes, Joshua T. Schiffer, Laura Matrajt, Dobromir Dimitrov

1210 Epidemiology and Predictors of COVID-19 Vaccine Uptake Among People With HIV in the US, 2020-23

Adrienne E. Shapiro, Rachel A. Bender Ignacio, Bridget M. Whitney, Robin M. Nance, Bryan Lau, April C. Pettit, Michael Saag, Katerina Christopoulos, Jeffrey M. Jacobson, Laura Bamford, Sonia Napravnik, Richard Moore, Kenneth Mayer, Heidi M. Crane, Mari Kitahata, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)

Poster Session-T1 | Still Here: Syphilis

2:30 PM - 4:00 PM • Poster Hall

MONDAY

1239 Syphilis Screening in Hospitalized People With HIV: A Key Strategy to Tackle HIV and STI Epidemics

Mayara Secco Torres da Silva, Isabel C. Ferreira Tavares, Carolina Coutinho, Thiago Torres, Eduardo Mesquita Peixoto, Brenda Hoagland, Ingebourg Georg, Leonardo Rosadas, Estevão Portela Nunes, Emilia Moreira Jalil, Rodrigo O. Silva Escada, André M. Japiassu, Sandra Wagner Cardoso, Valdilea Gonçalves Veloso, Beatriz Grinsztejn

1240 Differences in Presentation and Outcome of Subsequent Episodes of Syphilis in People Living With HIV

Leticia Espinosa, Jorge Peris, Ana Moreno, Isidro Hernandez, María Ezquerria Marigómez, Ana Abad, **Jose L. Casado**

1241 Unravelling the Pathogenesis and Outcome of Serofast Status in People Living With HIV

Leticia Espinosa, Ana Moreno, María Ezquerria Marigómez, Cristina Fernández-Chica, Javier Guzman, Ana Abad, Pedro Esteve, **Jose L. Casado**

1242 No CSF Study in Neuro Asymptomatic Syphilis in People With HIV: Clinical and Serologic Outcomes



Maria L. Otth, Catalina Novoa, Sandra Gonzalez, Camila Jorquera, Rebeca Northland, Marcelo Wolff

1243 Describing the Cascade of Care for Neurosyphilis in People Living With HIV: Finding the Gaps

Shaul A. Navarro-Lara, Hector O. Rivera-Villegas, Nancy Sierra-Barajas, Angelina Silva-Casarrubias, Yanink Caro Vega, Alvaro López-Iñiguez, Brenda E. Crabtree Ramirez

1244 Syphilis Among Women of Reproductive Age With or Without HIV in the Southern US

Maria L. Alcaide, Erin R. Carr, Candice A. Sternberg, Nicholas F. Fonseca Nogueira, Laura Beauchamps, Patricia Racchamarich, Jonell E. Potter, Daniel Westreich, Seble Kassaye, Elizabeth F. Topper, Aadia Rana, Deborah Konkle-Parker, Deborah L. Jones, Anandi N. Sheth, Madison S. Meyer

1245 Epidemic of *Treponema pallidum* Strains in Japan and Biomarkers for Molecular Epidemiology

Eisuke Adachi, Wakana Sato, Ayako Sedohara, Hiroshi Yotsuyanagi, Yasutoshi Kido

1246 Temporal Changes in Syphilis Prevalence and Population Characteristics Among MSM in India

Mihili Gunaratne, Allison M. McFall, Matthew Hamill, Talia A. Loeb, Griffin J. Bell, Jiban J. Baishya, Ashwini Kedar, Archit Sinha, A. K. Srikrishnan, Sunil S. Solomon, Shruti H. Mehta, Gregory M. Lucas

1247 Has Rapid Scale-Up of Dual HIV/Syphilis Testing in Antenatal Care Improved Syphilis Testing Coverage?

Aliza Monroe-Wise, David Maman, Olanrewaju Edun, Andrew Storey, Morkor N. Owiredo, Magdalena Barr-Dichiara, Agnes Chetty, Van Thi Thuy Nguyen, Maeve Brito De Mello, **Cheryl C. Johnson**



1248 Monitoring the Success of Public Health Efforts to Reduce Congenital Syphilis, King County, WA

Tim W. Menza, Anna Berzkalns, Roxanne P. Kerani, Katie Heidere, Jennifer E. Balkus, Chase Cannon, Julie Dombrowski, Matthew Golden

1249 Risk Factors for Incomplete Treatment for Syphilis in Pregnant Oral PrEP Users in South Africa



Kalisha Bheemraj, Dvora L. Joseph Davey, Rufaro Mvududu, Sumaya Dadan, Nafisa Wara, Landon Myer, Alex de Voux, for the SCOPE-PP Study Team

Poster Session-T2 | Advances in Sexual and Reproductive Health in HIV

2:30 PM - 4:00 PM • Poster Hall

MONDAY

1250 HIV Status and Other Factors Associated With Infection Complicating Abortion in Botswana

Bogadi Loabile, Warren B. Bilker, Khumo Khunou, Ngwao Ngwako, Billy Tsimba, Merrian Brooks, Thabo Moloi, Chelsea Morroni, Robert Gross

1251 Irregular Menstruation Among Women Is Associated With COVID-19 Infection, but Not Vaccination

Emily M. Cherenack, Suresh Pallikkuth, Patricia Racchamarich, Nicholas F. Fonseca Nogueira, Daniel Westreich, Elizabeth F. Topper, Deborah Konkole-Parker, Aadia Rana, Seble Kassaye, Anandi N. Sheth, Deborah L. Jones, Maria L. Alcaide

1252 Incidence of Intended & Unintended Pregnancies Among Women With HIV on ART: 5-Year Cohort in Abidjan



Prescilia Visi Vumba, Abert Minga, Delphine Gabillard, Thierry Tiendrebeogo, Shino Arikawa, Valerie Journot, Angele Yao, Eugène Messou, Renaud Becquet

1253 Unmet Need for Family Planning Underestimated Among Women Living With HIV in Kenya

Alison Drake, Erica Wetzler, Aparna Seth, Agnes K. Karingo, Nancy Mwongeli, Celestine Atieno, June Moraa, Jenna Udren, Jennifer A. Unger, John Kinuthia

1254 Effect of Antiretroviral Regimen on Contraceptive Failure Among Women Using Injectable Contraception

Karen Diepstra, Daniel Westreich, Agatha Bula, Clara Lemani, John Chapola, Katie Mollan, Jill Hagey, Sam Phiri, Jane Chiwoko, Lameck Chinula, Mina C. Hosseinipour, Mackenzie Cottrell, Audrey Pettifor, Mollie E. Wood, Jennifer H. Tang

1255 PrEP Eligible but Missed: Preliminary Evidence Unlocking the Potential of Family Planning Services



Brenice Duroseau, Shemeka Thorpe, Ashleigh Lovette, Jason E. Farley

1256 Multipurpose Vaginal Rings: Preferences From a National Discrete Choice Survey With US Women

Ann Gottert, Sanyukta Mathur, Timothy Abuya, Irene Bruce, Shakti Shetty, Michelle Nguyen, Jessica M. Sales, Lisa B. Haddad, Barbara A. Friedland

- 1257 Oral PrEP and Sexual Health Screening Services Uptake Among Diverse Gender Identities in India**
Rifa T. Khan, Jalpa Thakker, Dinesh Kumar, Aditya Singh, Pradeep Amrose, Sunil S. Solomon
- 1258 STAR: A Prospective Cohort of Women of Reproductive Age With and Without HIV in the Southern US**
Elizabeth F. Topper, Danielle Johnson, Jinbing Zhang, Seble Kassaye, Deborah L. Jones, Deborah Konkle-Parker, Aadia Rana, Daniel Westreich, Maria L. Alcaide, Anandi N. Sheth
- 1259 Substance Use and Treatment Among Reproductive-Age Women With/Without HIV in the Southern US**
 Qian Yang, **Ayako W. Fujita**, Cyra C. Mehta, Tina T. Tisdale, Maria L. Alcaide, Aadia Rana, Deborah Konkle-Parker, Daniel Westreich, Seble Kassaye, Elizabeth F. Topper, Anandi N. Sheth, for the Study of Treatment And Reproductive Outcomes (STAR) Team
- 1260 Physical, Psychosocial, and Sexual Health in Adults Aged 50+ With and Without HIV in Denmark**
Ditte Scofield, Morten Frisch, Mikael Andersson, Merete Storgaard, Gitte Pedersen, Isik S. Johansen, Terese L. Katzenstein, Christian Graugaard, Lars H. H. Omland, Nina Weis, Ellen Frøsig Moseholm

Poster Session-U1 | Modeling

2:30 PM - 4:00 PM • Poster Hall

- 1289 Testing Healthcare System Resilience Using Microsimulation Modeling Under Various Shocking Scenarios**
Viviane D. Lima, Jieliu Zhu, K. Junine Toy, Jason Trigg, Morris Chan, Paul Sereda, Rolando Barrios, Julio S. G. Montaner
- 1290 Estimated Benefits of Providing On-Demand PrEP Options for Women in Cape Town: A Modeling Study**
 Sarah Stansfield, Mia Moore, Marie-Claude Boily, Jim Hughes, Deborah J. Donnell, Linda-Gail Bekker, **Dobromir Dimitrov**
- 1291 Model-Projected Costs Associated With Increasing Numbers of Medicare Beneficiaries With HIV Aged 65+**
Emily Hyle, Parastu Kasaie, Luke Ang, Elizabeth Humes, Jessica Phelan, Lucas Gerace, Ciara Duggan, Florence Ebem, John Orav, Ankur Pandya, Tim Horn, Jose Figueroa, Keri N. Althoff, Kenneth A. Freedberg
- 1292 Modeling the Impact of Increased PrEP Use on Sexually Acquired HIV Incidence in the United States**
 Benjamin La Brot, Jason Baron, **Tamar Tchelidze**, Nicole Robinson, Aniruddha Hazra, Kenneth Mayer
- 1293 Dynamic Choice HIV Prevention With Cabotegravir (CAB-LA): A Model-Based Cost-Effectiveness Analysis**
 Andrew N. Phillips, **Matt Hickey**, Starley Shade, Jane Kabami, James Ayieko, Elijah Kakande, Laura Balzer, Nicole Sutter, Loveleen Bansal-Matharu, Jennifer Smith, John Schrom, Gabriel Chamie, Diane V. Havlir, Moses Kanya, Maya Petersen

1294



Cost-Effectiveness of PrEP and Medications for Opioid Use Disorder in People Who Inject Drugs

John Chiosi, John Giardina, Sarah E. Wakeman, Anne M. Neilan, Andrea L. Ciaranello

1295

Ending the HIV Epidemic Among Men Who Have Sex With Men in the United States: A Modeling Analysis

Justine A. Scott, Hailey Spaeth, Kyu-young (Kevin) Chi, Pamela Pen-Erh Pei, Nattanicha Wattanimitgul, David P. Holland, Emily Hyle, **Kenneth A. Freedberg**

1296

Optimizing Investment in HIV Testing Services, ART, and PrEP to Reduce HIV Incidence in South Africa

Caitlin Dugdale, Anneke L. Claypool, Linda-Gail Bekker, Munashe Machoko, Daniel Otero-Leon, Catherine Orrell, Pamela Pen-Erh Pei, Katherine Gill, Xinwen Xu, Anne M. Neilan, Prakriti Shrestha, Justine A. Scott, Robin Wood, Mohammad S. Jalali, **Kenneth A. Freedberg**

1297



Impact of Rapid Long-Acting PrEP Scale-Up Among MSM: Closing the Unmet Needs and Towards Ending HIV

Haoyi Wang, David Van de Vijver, Jon Tosh, Melanie Schroeder, Kai J. Jonas

Poster Session-U2 | Cardiovascular Risk, Weight

2:30 PM - 4:00 PM • Poster Hall

1298

Trajectories of Weight Changes After GLP-1 Receptor Agonists Initiation Among Patients With HIV

Jing Sun, Pooja Maheria, Carolyn Bramante, Hsing-Yu Hsu, Eric G. Hurwitz, Zachary Butzin-Dozier, Jerrod Anzalone, Todd Brown, Rena C. Patel, for the National COVID Cohort Collaborative (N3C)

1299

Cardiometabolic Risks and the Transition to InSTIs in Aging PLWH in South Africa

Julia K. Rohr, F. Xavier Gómez-Olivé, Jacques Du Toit, Kathleen Kahn, Shafika Abrahams-Gessel, Brendan Maughan-Brown, Carla Roberts-Toler, Thomas A. Gaziano, Stephen Tollman, Till W. Barnighausen, Jennifer Manne-Goehler

Poster Session-U3 | Mental Health

2:30 PM - 4:00 PM • Poster Hall

1300

Addressing Alcohol Use and Depression as a Strategy to Reduce HIV in KwaZulu-Natal, South Africa

Mellesia Jeetoo, Dyanna Charles, Yao-Rui Yeo, Jasmine Su, John K. Mbaya, Sheela Shenoi, Neo Morojele, Tony Moll, R. Scott Braithwaite

1301

Impact of SEARCH Person-Centered Care/Prevention on Clinical Outcomes by Alcohol Use in East Africa

Gabriel Chamie, Matt Hickey, Joshua Schwab, Florence Mwangwa, Janice Litunya, Sabina Ogachi, Judith A. Hahn, Jennifer Temple, Elijah Kakande, Jane Kabami, Laura Balzer, Maya Petersen, Diane V. Havlir, Moses Kamya, **James Ayieko**, for the SEARCH Consortium

1302



Depression and Suicide Risk Among Sexual and Gender Minorities: Insights From the ImPrEP CAB Brasil

David Richer Araujo Coelho, Carolina Coutinho, Brenda Hoagland, Alessandro S. Farias, Jose Valdez Madruga, Josué Lima, Maria Paula Mourão, Cristina Pimenta, Cristina Moreira Jalil, Marcos Benedetti, Monica Derrico, Thiago Silva Torres, Valdilea Gonçalves Veloso, Beatriz Grinsztejn, for the ImPrEP CAB Brasil Study Group

1303

Effects of a Cash Transfer Intervention on Internalized HIV Stigma Among ART Initiates in Tanzania

Emmanuel Katabaro, Matilda Mlowe, Janeth Msasa, Kassim Hassan, Babuu Joseph, Hamza Maila, Agatha Mnyippembe, Solis Winters, Lila Sheila, Amon Sabasaba, Prosper Njau, Anthony Kapesa, Evelyn Konje, Laura Packel, Sandra I. McCoy

1304

Low-Barrier HIV Care Outcomes in the Context of Homelessness, Substance Use, and Mental Illness

Julie Dombrowski, Fredericka Albertina T. Sesay, Chase Cannon, Meena Ramchandani, Raaka Kumbhakar, Jimmy Ma, Maria Corcorran, Elaine Thomas, Tim W. Menza, Brian Flaherty

MONDAY



TUESDAY, MARCH 11, 2025

POSTER SESSIONS BY DAY

Poster Session-A3 | Persistence and Evolution of SARS-CoV-2

2:30 PM - 4:00 PM • Poster Hall

- 309**  **ScRNA-seq of HRSV/SARS-CoV-2 Co-Infection Reveals Unique Cellular Responses and lncRNA Signatures**
Claudia Vanetti, Luca Piacentini, Lorenzo Citterio, Micaela Garziano, Irma Saulle, Jacopo Aiello, Martina Broggiato, Claudio Fenizia, Diego Bottan, Daria Trabattoni, Mario Clerici, Mara Biasin
- 310**  **Emergence of Divergent Spike Haplotypes in Individuals With Persistent SARS-CoV-2 Infections**
Luke Blagdon Snell, Suzanne Pickering, Adela Alcolea-Medina, Rahul Batra, Michael H. Malim, Gaia Nebbia, Jonathan Edgeworth, Stuart Neil, Rui Galao
- 311** **Evolving of Immune Evasion During a SARS-CoV-2 Chronic Infection: A Pathway to Variants of Concern**
Suzanne Pickering, Luke Blagdon Snell, Xiaohao Xu, Helena Winstone, Jeffrey Seow, Carl Graham, Rahul Batra, Michael H. Malim, Katie Doores, Jonathan Edgeworth, Gaia Nebbia, Stuart Neil, **Rui Galao**
- 312**  **Genetic Mutation Differences Patterns of SARS-CoV-2 in Immunocompromised Patients Versus Controls**
Karen Zafilaza, Antoine Fauchois, Valentin Leducq, Quentin Le Hingrat, Stephane Marot, Theophile Cocherie, Romane Guilbaud, Valentine Marie Ferré, Charlotte Charpentier, Diane Descamps, Eve Todesco, Anne-Geneviève Marcelin, Vincent Calvez, Cathia Soulié
- 313** **SARS-CoV-2 Intra-Host Evolution During Acute Infection in People With COVID-19**
Carla della Ventura, Annalisa Bergna, Cosmin L. Ciubotariu, Haneen Chmes, Mario C. Corbellino, **Agostino Riva**, Spinello Antinori, Gianguglielmo Zehender, Alessia Lai
- 314** **Prevalence, Spread, and Mutation of SARS-CoV-2 Variants in COVID-19 Testing in Salvador, Brazil**
Anna Carolina Dantas, Hellen B. M. Oliveira, Taiana Tainá S. Pereira, Amanda F. Lima, Janaina M. F. Matos, Thais Aranha Rossi, Laio Magno Santos de Sousa, Fabiane Soares, Ines Dourado, Thiago Silva Torres, Luciane A. Amorim Santos, Danielle S. Medeiros, Fernanda K. Barreto, Guilherme G. Campos, Lucas M. Marques

Poster Session-A4 | Nuclear Events in HIV-1 Replication and the Control of Gene Expression and Viral Production

2:30 PM - 4:00 PM • Poster Hall

- 315** **CPSF6 Regulates Cellular Permissivity to HIV-1 Infection Through Alternative Polyadenylation**
Daphne Cornish, Kathryn A. Jackson-Jones, Ted Ling Hu, Lacy M. Simons, William J. Cisneros, Edmund Osei Kuffour, Francesca Agnes, Yujin Lee, Paul Bieniasz, Ramon Lorenzo-Redondo, Judd F. Hultquist



316 A Targeted CRISPR Screen Identifies ETS1 as a Regulator of HIV Latency

Ashokkumar Manickam, Terry Hafer, Abby Felton, Nancie Archin, **David M. Margolis**, Michael Emerman, Edward Browne

317 HIV-1 Membraneless Organelles Orchestrate Viral Genome Maturation and Immune Evasion

Francesca Di Nunzio, Selen M. V. Ay, Julien Burlaud Gaillard, Anastasia Gazi, Philippe Roingeard, Fabrizio Mammano, Yevgeniy Tatirovsky, James Di Santo, Celine Cuche, Viviana Scoca, Jean-Sebastien Diana

318 Design of SHIVs Encoding HIV-1 Recombinase Brec1 Recognition Site for Nonhuman Primate Cure Studies

Ryan Krause, Edward Kreider, Amie Albertus, Kevin Newcombe, Suvadip Mallick, Weimin Liu, Yingying Li, Emily Lewis, Katharine Bar

319 Convergence of NF- κ B Pathways Increases HIV-1C Transcriptional Fitness



Hrimkar B. Buch, Aboli Varunjikar, Udaykumar Ranga

320 Fatty Acid Synthesis Controls Both Cellular Susceptibility to HIV and New Particle Production



Joshua A. Acklin, Erika Pontillo, Ming Ye, Bruce Walker, Alison Ringel

321 Direct Sequencing of Full-Length HIV-1 RNA Reveals the Functional Significance of Site-Specific m6As

Ga-Eun Lee, Sarah Golconda, **Sanggu Kim**

322 Functional Study of N6-Methyladenosine (m6A) Machinery in HIV Infection of Primary CD4+ T Cells

Lacy M. Simons, Kathryn A. Jackson-Jones, Abolfazl Arab, Albertas Navickas, Aubrey M. Sawyer, Hani Goodarzi, Judd F. Hultquist

Poster Session-B3 | Effect of HIV on the Immune System

2:30 PM - 4:00 PM • Poster Hall

359 Single-Cell Multi-Omics Uncovers the Immune Heterogeneity in HIV-Infected INRs



Xiaosheng Liu, Leidan Zhang, Ling Chen, Liyuan Zheng, Jia Tang, Fada Wang, Yang Han, Xiaojing Song, Wei Cao, Taisheng Li

360 Variability in Immunometabolic Signatures Among People w/ HIV Defines Immune Outcomes and Progression

Simon Gressens, Mohamed R. Joma, Rachelle Saleh, Lara Tabet, Cassiopée Adam, Julien Pansiot, Katia Bourdic, Guislaine Carcelain, Nicolas Noel, Olivier Lambotte, Mireille Laforge

361 Effect of Delayed ART Initiation on Anti-CD4 Autoantibodies in ART-Naive People With HIV

Brian P. Epling, Andrea Lisco, **Shweta Mistry**, Birgit Grund, Jason Baker, Carlos Brites, Julien Gras, Sandy Pillay, Blessing Uche, Peter Burbelo, Irini Sereti, for the INSIGHT START Study Group

362



CD4-Binding Site Abs Modify the Negative Association Between Cluster A Abs and CD4 Count in PWH

Mehdi Benlarbi, Jonathan Richard, Tommaso Clemente, William D. Tolbert, Marc Messier-Peet, Marzena Pazgier, Frank Maldarelli, Antonella Castagna, Madeleine Durand, Andrés Finzi

363

Prevalence and Activity of Anti-Interferon Autoantibodies in People Living With HIV

Olivia Payne, Andrey Brodskiy, Orest Idilli, Sarah Griffith, Laura McCoy, Marc Lipman, James Brown, Dimitra Peppas, Doug Fink

364

Secreted ORF8 Reprograms Macrophages to Enhance Lung Epithelial Cell Infection by SARS-CoV-2

Yusuke Matsui, Rahul K. Suryawanshi, Mauricio Montano, Taha Y. Taha, Mir M. Khalid, Kanika Khanna, Jin Tang, Yuan Zhou, Xiaohui Fang, Mazharul Maishan, Robyn M. Kaake, Michael A. Matthay, Nevan J. Krogan, Melanie Ott

365



Occult CMV Replication Is a Persistent Driver of Effector T-Cell Expansion in PWH on Effective ART

Nived Collercandy, Camille Vellas, Manon Nayrac, Mary Requena, Thomas Richarme, Justine Latour, Karl Barange, Laurent Alric, Guillaume Martin-Blondel, Jacques Izopet, Pierre Delobel

366

IL-10/PD-1 Blockade Leads to Enhanced BA Synthesis and Type I IFN Production

Khader Ghneim, Felipe Ten-Caten, Susan P. Ribeiro, Mirko Paiardini, Rafick P. Sekaly

367

Activated Platelets Render Functionally Deficient Natural Killer Cells in People Living With HIV

Brita Ostermeier, Sanchita Pandey, Carles Moreno Soriano, Cheryl Clarkson-Paredes, Tomas Raul Wiche Salinas, Gregory Cresswell, Anastas Popratiloff, Mirko Paiardini, Sanjay B. Maggiorini

368

Elevated Lymph Node Metabolic Activity During Long-Term Antiretroviral Therapy

Chuen-Yen Lau, Mahathir Khan, Jessica Earhart, Govind Nair, Esther Mena, Frank Maldarelli

369



Immunometabolism of Innate Lymphocytes in People Living With HIV-1 Versus HIV-2

Maryam Khan, Claire Pardieu, Athavan Umaipalan, Hafiza Rahman, Helena Miras, John Thornhill, Sarah Rowland-Jones, Jane Deayton, Sian Henson, Chloe Orkin, Neil McCarthy, for the SHARE Collaborative

370



Non-HIV Chronic/Latent Viruses and Immune Aging: Sex Effects Comparable to Those of HIV and CMV

Renying (Loulou) Cai, Nancy Yi Yang, Mel Krajden, Amber Campbell, Melanie Murray, Helene Cote, for the Children and Women Antiretrovirals and Markers of Aging (CARMA) Study, CTN 277



Poster Session-B4 | Nonimmune Effects of HIV Infection

2:30 PM - 4:00 PM • Poster Hall

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Sex Differences in Cytokine Responses and Genetic Regulation Thereof in People Living With HIV

Suzanne D. E. Ruijten, Nadira Vadaq, Albert L. Groenendijk, Louise E. van Eekeren, Wilhelm A. Vos, Marc J. T. Blaauw, Mihai G. Netea, Andre van der Ven, Jéssica dos Santos, Vasiliki Matzaraki, for the 2000HIV Human Functional Genomics Partnership Program

372

Dynamic Changes in the Peripheral Blood Monocytes Following Long-Acting Injectable CAB/RPV in PLWH

Maria Antonella Zingaropoli, Eeva Tortellini, Maria Silvia Guardiani, Anna Carraro, Federica F. D. Dominelli, Cosmo Del Borgo, Raffaella Marocco, Giulia Mancarella, Lorenzo Ansaldo, Maria Rosa Ciardi, Claudio Maria Mastroianni, Miriam Lichtner

373

Changes in Serum Level of Cell-Free Mitochondrial DNA Fragments in Acute and Chronic HIV Infection

Jing Sun, Lolita S. Nidadavolu, Hsing-Yu Hsu, Jacquie Astemborski, Jonah B. Sacha, Paul Kievit, Charles Roberts, Gregory Kirk, Todd Brown, Peter Abadir, for the ALIVE and MWCCS Cohorts

374

The Molecular Cargo of Exosomes Is Able to Discriminate Between PLWH With or Without NADCs

Jose M. Benito, Asier Ureta, Clara Restrepo, Manuel Pedregal, Héctor Callata, Sara Nistal, Alejandro Velastegui, Edinson Caviedes, Hector Peinado, Manuel J. Gómez, Fátima Sánchez-Cabo, Alberto Alcázar, Emma Martínez-Alonso, Jesús García-Foncillas, **Norma Rallón**

375

HIV-Encoded Proteins Induce Pulmonary Arterial Hypertension via Increases in Podocan-Like Protein 1

Laszlo Kovacs, Taylor C. Kress, Rodger MacArthur, Coleton Jordan, Simone Kennard, Eric J. Belin de Chantemele

376

Compromised Intestinal Barrier Resilience to Cytokine Disruption Causing Leakage in People With HIV

Maliha W. Shaikh, Shalini Singh, Leila B. Giron, Lijuan Zhang, Shivanjali Shankaran, Phillip A. Engen, Michelle Villanueva, Alan Landay, Ali Keshavarzian, **Mohamed Abdel-Mohsen**

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Acute HIV-1 Infection Triggers Myelopoiesis Suppression and Pancytopenia Through IFN- γ Signaling

Shuai Gao, Liang Shan

Poster Session-C3 | Using Vaccines for Therapy

2:30 PM - 4:00 PM • Poster Hall

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Age Inversely Correlates With T-Cell Response to MVA.HIVconsvX Vaccination in PWH on ART

Cynthia L. Gay, Yinyan Xu, Ann Marie Weideman, Joann Kuruc, Fiona Shaw, Shayla Conrad, Alexis Sponaugle, Carolina Kapper, Greg Laird, Joshua C. Cyktor, Joseph J. Eron, David M. Margolis, Michael Hudgens, Tomáš Hanke, **Nilu Goonetilleke**



426 Unadjuvanted CD40.HIVRI.ENV Vaccine Late Boost Induces Durable Immune Responses: ANRS/VRIO6 Trial
Lucile Hardel, Christiane Moog, Aurélie Wiedemann, Mélanie Durand, Odile Launay, Fabio Candotti, Véronique Rieux, **Yves Lévy**, Alpha Diallo, Song Ding, Mireille Centlivre, Rodolphe Thiebaut, Giuseppe Pantaleo, Jean-Daniel Lelièvre, Laura Richert

427 Augmenting HIV-Specific CAR-T Cell Functionality by Treatment With Novel Cytokine-Based Scaffold
 **Sara Lamcaj**, Niraj Shrestha, Zhongyu Zhu, Ying Xiong, Gregory Sowd, Boro Dropulic, Hing Wong, Harris Goldstein

428 ChAdOx1.HIVconsvX and MVA.HIVconsvX Vaccination Is Safe and Immunogenic in PWH on ART: The CM Study
Cynthia L. Gay, Yinyan Xu, Ann Marie Weideman, Shayla Conrad, Fiona Shaw, Sofia Mariano, Melissa Mischell, Susan Pedersen, Alexander Bradley, Ally Odom, Michael Hudgens, Mehri McKellar, Emmanuel Walter, Tomáš Hanke, Nilu Goonetilleke

429 A Novel Immunotherapeutic Platform for Amplifying HIV, CMV, or SARS-CoV-2-Specific T-Cell Responses
 **Marta Santos Bravo**, Erin Cole, April Mueller, Christopher Hiner, Agnes Sydenstricker, Adilyn Voss, Jian Hua, Scott Gartforth, Steven Almo, Harris Goldstein

430 Therapeutic HIV Vaccine ± TLR4 Adjuvant Impact on Monocyte Subsets in Early-Treated Youths With HIV
 **Alessia Neri**, Giulio Olivieri, Chiara Pighi, Arianna Rotili, Sarah Moreland, Elena Morrocchi, Suteeraporn Pinyakorn, Glenna Schluck, Ellen Turk, Shaun Barnabas, Mark Cotton, Mark de Souza, Nicola Cotugno, Merlin Robb, Paolo Palma

Poster Session-C4 | Preventive Vaccine Strategies

2:30 PM - 4:00 PM • Poster Hall

431 Enhanced HIV Antibody Precursor Development With Early-Life Germline Targeting Immunization
 **Yasmine Issah**, Ashley N. Nelson, Xintao Hu, Xiaoying Shen, Gabriel Ozorowski, Leigh M. Sewall, Shiyu Zhang, Andrew B. Ward, David Montefiori, Rogier W. Sanders, John P. Moore, Koen K. Van Rompay, Kristina De Paris, Sallie Permar

432 A VLP-Forming mRNA Vaccine Protects Macaques From Heterologous SHIV Infection
Peng Zhang, Vinay Gopan, **Mamta Singh**, Flavio Matassoli, Parul Agrawal, Shayne Andrew, Kathryn Foulds, Sunny Himansu, Leonidas Stamatatos, Andrea Carfi, Paolo Lusso

433 Cytoplasmic Tail Engineering of Stabilized mRNA Env Immunogens Enhances Neutralizing Response
Edward Kreider, Ashwin N. Skelly, Weimin Liu, Yuhong Xiao, Wenge Ding, Amie Albertus, Natalia Perez Devia, Barton Haynes, Pamela J. Bjorkman, George M. Shaw, James Hoxie, Beatrice H. Hahn, Drew Weissman

434 Improved Immunogenicity of a VLP-Forming mRNA Vaccine for HIV-1
 **Mamta Singh**

- 435 An AI-Redesigned Contemporary HIV-1 Env Consensus Antigen Is More Immunogenic Than a Native Sequence**
Eric Lewitus, Hongjun Bai, Thujitha Thuraisamy, Bonnie Slike, Michelle Zemil, Tanya Krubit, Diane Bolton, Gordon Joyce, Shelly Krebs, Victoria Polonis, Mangala Rao, Mohamad-Gabriel Alameh, Julie Ake, Sandhya Vasan, Morgane Rolland
- 436 Incidence and Predictors of STIs and Effect on Immune Activation in the HVTN 705/HPX2008 Trial**
Mitch M. Matoga, Jin J. Kee, Michal Juraska, Susan Buchbinder, Nigel Garrett, Frank Tomaka, Wouter Willem, Alison C. Roxby, Huub Gelderblom, Lynda Stranix-Chibanda, Mina C. Hosseini-pour, Ludo Lavreys, M. Juliana McElrath, Linda-Gail Bekker, Glenda Gray, for the HVTN705/HPX2008 Research Group
- 437 3-Step Heterologous Immunization Schema Results in Development of Cross-Neutralizing VRC01-Class Abs**
Parul Agrawal, Kelsey Salladay, Arineh Khechaduri, Julianna A. Rose, Latha Kallur Siddaramaiah, Todd Reese, Xiaoying Shen, David Montefiori, Michael S. Seaman, Marie Pancera, Leonidas Stamatatos

Poster Session-C5 | Immunity to Mpox

2:30 PM - 4:00 PM • Poster Hall

- 438 Evolution and Durability of Mpox-Specific Antibodies Among Vaccinated or Infected Individuals**
Wang-Da Liu, Tai-Ling Chao, Kai-Hsiang Chen, Hsin-Yun Sun, Guei-Chi Li, Wen-Chun Liu, Cheng-Hsin Wu, Yi-Ching Su, Chia-Yi Lin, Chih-Hao Hung, Sui-Yuan Chang, Chien-Ching Hung
- 439 Antibody Responses Decline Post-MVA Vaccination but Persist Following Mpox Infection**
 **Joanne Byrne**, Aisling Murphy, Alejandro Abner Garcia Leon, Gurvin Saini, Alan Landay, Liem Binh Luong Nguyen, Cathal O'Broin, Mary Horgan, Carlos Mejia-Chew, Corinna Sadlier, Eoghan de Barra, Jane A. O'Halloran, Virginie Gautier, Mallon W. G. Paddy, Eoin R. Feeney, for the All Ireland Infectious Diseases Cohort Study
- 440 Immune Response to Mpox in PWH and PrEP Users After Infection, but Not in Response to Vaccination**
 **Olivia de la Calle-Jiménez**, Guiomar Casado Fernández, Inés Armenteros-Yeguas, Luis Fernando Lemus Aguilar, Jorge Pérez-García, Javier Rodríguez Añover, Elena Mateos, Reynaldo Homen, Noemí Cabello-Clotet, Anabel Negredo, María Paz Sánchez Seco, Jorge Del Romero, Vicente Estrada, Montserrat Torres, Mayte Coiras
- 441 MVA Vaccine Produces Potent Serologic and Immunologic Response to Mpox in People With HIV**
 **Maryam Khan**, Scott Jones, Hafiza Rahman, Helena Miras, Ashley Otter, John Thornhill, Neil McCarthy, Krishanthi Subramaniam, Chloe Orkin, for the SHARE Collaborative
- 442 Mpox-Specific T-Cell Responses in Recovered and Vaccinated Individuals**
 **Aideen S. Teeling**, Thomas C. Morningstar, Antonio Estacio, Feng Yun Yue, Megan Buchholz, Katerina Pavenski, Patti Lou Cheateley, Darrell H. S. Tan, Annam Imran, Suji Udayakumar, Joseph De Fazio, Mutian Wang, Mario Ostrowski

- 443 Immune Response After 2 Years From MVA-BN Vaccination by HIV Infection and CD4 Cell Count**
Valentina Mazzotta, Giulia Matusali, Eleonora Cimini, Francesca Colavita, Jessica Paulicelli, Rozenn Esvan, Aurora Bettini, Alessandra Oliva, Flavia Cristofanelli, Giulia Micheli, Eleonora Tartaglia, Alessandro Caioli, Enrico Girardi, Fabrizio Maggi, Andrea Antinori

Poster Session-C6 | Natural-Born Killers: NK Cells

2:30 PM - 4:00 PM • Poster Hall

- 444 RV550: IL-15 Superagonist N-803 With ART in Acute HIV Infection Enhances T and NK Cell Proliferation**
Hiroshi Takata, Julian Pacheco, Suteeraporn Pinyakorn, Carlo Sacdalan, Pathariya Promsena, Somchai Sriplienchan, Kiat Ruxrungtham, Morgane Rolland, Jeffrey Safrit, Bobby Reddy, Sandhya Vasan, Lydie Trautmann, Afam Okoye, for the RV550 and RV254/SEARCH010 Study Groups
- 445 NF-kappa-B Signaling in Natural Killer Cells Predicts Post-Treatment HIV Control**
 **Ashley F. George**, Tongcui Ma, Natalie Elphick, Kyrilia C. Young, Reuben Thomas, Julie Frouard, Antonio Rodriguez, Tony R. Figueroa, Meghann Williams, Rebecca Hoh, Jonathan Li, Katherine S. Pollard, Steven G. Deeks, Michael Peluso, Nadia R. Roan
- 446 HLA-E Prevents Natural Killer Cell Inhibition of HIV-1 Replication in Peripheral Blood CD4+ T Cells**
 **Amanda M. Dudek**, Alex T. H. Cocker, Fabian P. Suchy, Katie Han, Elena J. Sasu, Peter Parham, Matthew H. Porteus
- 447 Differential CD8T/NK Cell-Mediated HIV-1 Control After TIGIT or KLRG1 Blockade and ART in hBLT Mice**
 **Ildefonso Sánchez-Cerrillo**, Ilya Tsukalov, María Agudo-Lera, Olga Popova, Patricia Fuentes, Lucio Jesús García Fraile Fraile, Ignacio de los Santos, María Lázaro-Díez, Vladimir Vrbanc, María Luisa Toribio, Francisco Sánchez-Madrid, Julia G. Prado, Meritxell Genescà, María Jose Buzon, Enrique Martín Gayo
- 448 Elucidating the Role of Natural Killer Cells in Antibody Breadth During HIV Infection**
Izumi de los Rios Kobara, Uma Maheswari Mangalanathan, Kishor Mandalia, Julie Overbaugh, Catherine Blish

Poster Session-C7 | New Concepts in Immunotherapy

2:30 PM - 4:00 PM • Poster Hall

- 449 Combination of eCD4-IgG1 Delivered by AAV9 and AZD5582 in SIV-Infected, ART-Suppressed Infant RM**
 **Jairo A. Fonseca**, Alexis C. King, Omotayo Farinre, Shan Liang, Lucas Alves Britto Da Costa, Adrian Khoei, Stephanie Ehner, Jennifer S. Wood, Matthew R. Gardner, Koen K. Van Rompay, Jeffrey D. Lifson, Mackenzie Cottrell, Mauricio A. Martins, Ann M. Chahroudi
- 450 Using Nanobodies as an Intracellular Biological to Block HIV-1 Through Innate Antiviral Mechanisms**
 **Florence M. Stel**, Esther M. Zijlstra-Willems, Charlotte E. J. Verkuijlen, Leanne C. Helgers, Killian Vlaming, Neeltje Koostra, Theo B. H. Geijtenbeek

451 **Viral Genetic Traits of Durable Control in Dual Immunotherapy-Treated SHIV-Infected Rhesus Macaques**
Manukumar Honnayakanahalli Marichannegowda, So-Yon Lim, Jina Lee, Brandon Keele, James Whitney, Satish Pillai

452 **WITHDRAWN**

453 **HIV-Induced Sialoglycans on Infected Cells Promote Immune Evasion From Myeloid Cell-Mediated Killing**
 **Shalini Singh**, Rui Liu, Opeyemi S. Adeniji, S. M. Shamsul Islam, Han Xiao, Mohamed Abdel-Mohsen

454 **Sialidase Conjugation Enhances the Anti-HIV Activity of the 10-1074 Antibody in Humanized Mice**
 **S. M. Shamsul Islam**, Leila B. Giron, Rui Liu, Ali Danesh, Shalini Singh, Paul W. Denton, Han Xiao, Mohamed Abdel-Mohsen

455 **Cannabidiol Has Sex-Dependent Anti-Inflammatory Effects in Long-Term Suppressed HIV-1 Adults**
 **Clémence Couton**, Chloé Robin, Valentin Beauvais, Alicia Harry, Kossi Ayena, Barbara De Dieuleveult, Helene Klein, Elodie Villalonga-Rosso, Sophie Robert, Laurent Hocqueloux, Thierry Prazuck, Lucile Mollet

456 **IFI16 Controls PVR and Gal-9 Expression and Its Targeting Improves Immunotherapy Against HIV-1**
 Marta Calvet-Mirabent, Ilya Tsukalov, Ildefonso Sánchez-Cerrillo, Olga Popova, Ignacio de los Santos, Lucio Jesús García Fraile Fraile, Sergio Serrano-Villar, Santiago Moreno, Francisco Sánchez-Madrid, Arantzazu Alfranca, **Enrique Martín Gayo**

457 **Investigating the Effects of ADCC and CAR NK/T Cells on HIV-1 Cell-to-Cell Transmission**
 **Tanvi Mathur**, Alon Herschhorn, Dmitrii Mazurov

458 **Natural Killer Cells Preferentially Kill HIV-Infected CD4 T Cells Using Death Receptors**
Lesley R. de Armas, Akshay Iyer, Suresh Pallikkuth, Rajendra Pahwa, Paula Vaz, Maria G. Lain, Savita Pahwa

459 **Tri-Specific Killer Engagers in Macaques Potently Induce NK Cell Responses in Blood and Tissues**
 **Julien A. Clain**, Ross T. Cromarty, Kevin Nguyen, Hannah Flores, Yvette Soigner, Tumpa Dasgupta, Emma Eungard, Zachary Davis, Timothy Schacker, Justin Harper, Mirko Paiardini, Jeffrey Miller

460 **Extracellular Acyl-CoA-Binding Protein Prevents Autophagy and T-Cell Function in People With HIV**
Stephane Isnard, Nazanin Gharari, Léna Royston, Tsoarello Mabanga, Carolina A. Berini, Julien van Grevenynghe, Guido Kroemer, Jean-Pierre Routy

461 **Gut Microbiome Dynamics and Immune Responses in People With HIV Receiving N-803**
 **Ashma Chakrawarti**, Chris Basting, Ross T. Cromarty, Jodi Anderson, Ty Schroeder, Kevin Escandon, Patrick Soon-Shiong, Jeffrey Safrit, Jeffrey Miller, Joshua Rhein, Timothy Schacker, Nichole Klatt

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Heterogeneity of PD-1 Expression in PLHIV and Its Relationship With Host and Viral-Related Factors

Adriana Navas, Jéssica dos Santos, Vasiliki Matzaraki, Nadira Vadaq, Maartje Jacobs-Cleophas, Albert L. Groenendijk, Wilhelm A. Vos, Marc J. T. Blaauw, Louise E. van Eekeren, Mareva Delporte, Mihai G. Netea, Linos Vandekerckhove, Leo Joosten, Hans Koenen, Andre van der Ven, for the 2000HIV Human Functional Genomics Partnership Program

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IL-10 Treatment Enhances CD8 T-Cell Activation and Cytotoxicity in SIV Infection: The Yin and Yang

Nongthombam Bobby, Grey De La Torre, Whitney Ortiz, Binhua Ling

Poster Session-D03 | HIV Reservoirs in Cells and Tissues

2:30 PM - 4:00 PM • Poster Hall

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CD4+ T Cells Harboring Inducible HIV Genomes Display a Senescent-Like Phenotype

Helene Roux, Amélie Pagliuza, **Remi Fromentin**, Jean-Pierre Routy, Nicolas Chomont

515

Macrophage-Tropic TF SHIV D-Infected NHP Model of Reservoir Persistence and Decay on ART

Suvadip Mallick, **Ryan Krause**, Alexander McFarland, Hannah Schrader, Richard W. Camp, Gregory D. Whitehill, Francesco E. Marino, Rachel Podgorski, Himanshu Garg, Emily Lewis, George M. Shaw, Tricia Burdo, Katharine Bar

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Anatomical Sites in FIND 2.0 Decedents Harbor Compartmentalized, Transcriptionally Intact HIV-1 Env

Melanie Moodie, Maria A. Papathanasopoulos, Adriaan E. Basson, Nadia Sabet, Ebrahim Variava, Neil Martinson, Tanvier Omar, Monique Nijhuis, Annemarie M. J. Wensing

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Biomarkers of HIV Latency in Tissues From People With HIV

Xinlian Zhang, Andrew Qazi, Roni Lobato Ventura, Antoine Chaillon, Davey Smith, Sara Gianella Weibel, **Nadejda Beliakova-Bethell**

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HIV Can Persist in Multiple Subsets of SARS-CoV-2-Specific CD4+ T Cells in Tissues During ART

Xiaoyu Luo, Julie Frouard, Antoine Chaillon, Sushama Telwatte, Jason Neidleman, Pavitra Roychoudhury, Cheryl Dullano, Stephanie Solso, Robert Deiss, Steven Yukl, Nancie Archin, Davey Smith, Sara Gianella Weibel, Nadia R. Roan

519

Women With HIV Have a Lower Frequency of Monocyte Reservoir Reactivation Than Men With HIV

Celina Abreu, Jordin Dixson, Lily Pohlenz, Ruoyu Wang, Erin Shirk, Hayley Romero, Janice Clements, Leah H. Rubin, **Rebecca Veenhuis**

520

Well-Seeded Reservoirs in Gut Are Associated With Tertiary Lymphoid Structures With Activated ISR

Ramon Lorenzo-Redondo, Muhammad S. Arif, Christopher T. Thuruthiyil, Sean Pascoe, Maryam A. Shaaban, Yanique S. G. Thomas, Jenna M. Hasson, Muhammad R. Haque, Flora A. Engelmann, Isabelle Clerc, Michael D. Raven, Mariluz Arainga-Ramirez, Elena Martinelli, Francois Villinger, Thomas J. Hope

TUESDAY



New Investigator
Scholarship Award



Late-Breaking
Abstract

- 521 HIV-1 Clade C Reservoir Traits in Blood and Lymph Node Tissue in Acute and Chronic Treated Infection**
Kavidha Reddy, Chantal Molechan, Guinevere Lee, Tatenda Chikowore, Nicole Reddy, Krista Dong, Zaza Ndhlovu, Thumbi Ndung'u
- 522 HIV Burden Is Associated With Specific Bacteriome Profiles Relative to Specific Gut Segments**
 **Mattia Trunfio**, Davey Smith, Noah Gaitan, Mina Awad, Magali Porrachia, Alan Wells, Jesus Rivera-Nieves, Elizabeth Hastie, Patricia K. Riggs, Sara Gianella Weibel, Antoine Chaillon
- 523 Viral and Microbial Environment in the Male Genital Tract of People Living With HIV**
 **Elizabeth Hastie**, Aleksander Georgian, Mina Awad, Magali Porrachia, Alan Wells, Gemma Caballero, Brady Lapke, Mattia Trunfio, Sarah LaMere, Stephen A. Rawlings, Davey Smith, Antoine Chaillon, Sara Gianella Weibel

Poster Session-D06 | Immune Pressure on HIV Reservoirs
 2:30 PM - 4:00 PM • Poster Hall

- 539 Resistance of Inducible, Infectious HIV-1 to Autologous Neutralizing IgG After Long-Term ART**
 **Natalie F. McMyn**, Joseph Varriale, Hanna Wu, Vivek Hariharan, Jun Lai, Anushka Singhal, Kenneth Lynn, Karam Mounzer, Pablo Tebas, Luis J. Montaner, Colin M. Kovacs, Rebecca Hoh, Steven G. Deeks, Janet M. Siliciano, Robert F. Siliciano
- 540 High Networked CD8+ T-Cell Epitopes Exhibit Markedly Reduced Mutability in the Latent HIV Reservoir**
Fernando Senjobe, Itai Muzhing, Jonathan Urbach, Anusha Nathan, Rhoda Tano-Menka, Clarety Kaseke, Gaurav D. Gaiha
- 541 Autologous IgGs Mediate Log Reductions in HIV Infection in a PTC, Contributing to ART-Free Remission**
 **Junlin Zhuo**, Mauro Garcia, Jesper D. Gunst, Katarzyna Janowska, Muralikrishna Lella, Xiao Huang, Donald Lubbeck, Cayla Wilson, Christy L. Lavine, Michael S. Seaman, Derek W. Cain, Priyamvada Acharya, Ole S. Sogaard, Janet M. Siliciano, Robert F. Siliciano
- 542 Afucosylation of Broadly Neutralising Antibodies to Eliminate HIV+ CD4+ T Cells and Macrophages**
 **Morgane Brunton-O'Sullivan**, Olivia Wilhelm, Christine Jordan, Hans Kek, Laura Rikard-Bell, Pradhupa Ramanathan, Amy Chung, Pantelis Poubourios, Bruce Wines, Anthony Jaworowski, Anna C. Hearps
- 543 Immune Dynamics During Reproductive Aging and Substance Use in Women With HIV**
 **Konstantin Leskov**, Anna Agaponova, Kathleen M. Weber, Elizabeth Daubert, Antoine Chaillon, Magali Porrachia, Jennifer Kinslow, Eileen Scully, Alan Landay, Saba Valadkhan, Alan Wells, Mary Ann Checkley, Benjamin Luttge, Sara Gianella Weibel, Jonathan Karn
- 544 Latency Reversal Induced by CD4+ T-Cell Recognition of HIV-1 Alternate Reading Frame Proteins**
 **Joel Sop**, Tyler Beckey, Joel Blankson

545



Reduced Metabolic Flux Protects HIV-Expressing CD4+ T-Cells From CTL-Mediated Elimination

Alberto Herrera, Louise Leyre, Tan Thanh Huynh, Feng Wang, Paul Zumbo, Maider Astorkia Amiama, Doron Betel, R. Brad Jones

546

Engineering Natural Killer Cells With Nkp30-Based Chimeric Antigen Receptors (CARs) to Target HIV

Nancy Q. Zhao, **Ruoxi Pi**, Marion N. Santo, David N. Nguyen, Thanmayi Ranganath, Christof Seiler, Susan Holmes, Alexander Marson, Catherine Blish

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Preclinical Evaluation of Effector Function-Enhanced Variants of N6 bNAb

David Wensel, Hossam Omar, Charles Mazzucco, Shreya Pal, Robert Ferris, James Schawwalder, Sarah Hindson, Erik Meyer, Lewis Hanham, Hangfei Qi, Allan Tenorio, Umesh Hanumegowda, Richard Dunham, Mark Krystal

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Long-Term ART Enhances Cytotoxic Response and Reduces the Reactivation Capacity of HIV-1 Reservoir

Alicia Simón Rueda, Guiomar Casado Fernández, Elena Mateos, Mario Manzanares, Virginia Víctor, Noemí Cabello-Clotet, Javier Rodríguez Añover, Reynaldo Homen, Juncal Pérez Somarriba, María José Núñez Orantos, José Sanz, Montserrat Torres, Vicente Estrada, Mayte Coiras, Clara Sánchez Menéndez

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Plasma Cytokines and NF- κ B Signaling Drive Transcriptomic Diversity in CD4+ T Cells From PWH on ART

Yingfan Wang, German Gornalusse, David Siegel, **Alton Barbehenn**, Rebecca Hoh, Jeffrey Martin, Frederick Hecht, Christopher Pilcher, David Murdoch, David M. Margolis, Cynthia Rudin, Florian Hladik, Steven G. Deeks, Sulggi Lee, Edward Browne

550

TLRS Ligands and IL-15 Induce Trained Immunity in CD4 Cells and Limit HIV Infection and Persistence

Muhammad Bilal Latif, Enoch S. Muyanja, Mojahidul Islam, Jeffrey A. Tomalka, Hilmi Al-Shakhshir, George N. Palakis, Susan P. Ribeiro, Ashish A. Sharma, Rafick P. Sekaly, for the Pathology Advanced Translational Research Unit (PATRU)

Poster Session-D07 | HIV Clones in the Reservoir

2:30 PM - 4:00 PM • Poster Hall

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Phenotypic and Functional Heterogeneity Contribute to the Persistence of the Clonal CD4 Reservoir

Isabella A. T. M. Ferreira, Alberto Herrera, Tan Thanh Huynh, Emily Stone, Noemi L. Linden, Virender K. Pal, Cintia Bittar, Marie Canis, Marina Caskey, Paul Bieniasz, Michel Nussenzweig, R. Brad Jones

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Latent HIV Clonal Dynamics: Integration Sites and Their Role in Maintenance of Latency In Vivo

Virender K. Pal, Frauke Mücksch, Ali Danesh, Marie Canis, Tan Thanh Huynh, Thomas R. Dilling, Itzayana G. Miller, Theodora Hatzioannou, R. Brad Jones, Guinevere Lee, Paul Bieniasz

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Targeting of HIV-Infected Clones by Cognate Peptide Stimulation and Antiproliferative Drugs

Joel Blankson, Joel Sop, Tyler Beckey, Isha Gurumurthy, Kellie Smith, Francesco R. Simonetti, **Filippo Dragoni**

554 Sequencing of HIV-1 Proviruses in Large Infected T-Cell Clones Reveals a Predominance of Solo-LTRs
Dimitar Demirov, Shahinur Akter, Shadab Parvez, Leah Danielle Brandt, Elias Konstantine Halvas, Sean C. Patro, Jason W. Rausch, John W. Mellors, Xiaolin Wu, Mary Kearney

555 Chromosomal Integration Site Profile of HTLV-1-Infected Cells Is Distinct From HIV-1-Infected Cells
Alex Hochroth, Nicolás Ducasa, Maxime Bellefroid, Ce Gao, Chloe M. Naasz, Xu G. Yu, Mirna Biglione, Mathias Lichterfeld

556 Reservoir-Harboring T-Cell Clones Have a Cytotoxic Immunophenotype That May Affect HIV Inducibility
Alberto Herrera, Isabella A. T. M. Ferreira, Tan Thanh Huynh, Emily Stone, Noemi L. Linden, Cintia Bittar, Marina Caskey, Michel Nussenzweig, R. Brad Jones

557 The Paucity of Clonal SIV Proviral Sequences During Early ART Treatment
Margaret Hallmets, Celeste Coleman, Chrysostomos Perdios, Anna T. Brown, Clara Krzykwa, Lori Rowe, Brandon Keele, Charles Goodman, Joseph C. Mudd

Poster Session-E4 | Addressing NeuroHIV in Lower- and Middle-Income Settings

2:30 PM - 4:00 PM • Poster Hall

615 Neuronal Injury in a Subset of PWH During Acute HIV Infection and Up to 5 Years After Immediate ART
Phillip Chan, Suteeraporn Pinyakorn, Carlo Sacdalan, Eugène Kroon, Pathariya Promsena, Donn Colby, Somchai Sriplienchan, Nittaya Phanuphak, Sandhya Vasan, Robert Paul, Magnus Gisslén, Henrik Zetterberg, Victor Valcour, Lydie Trautmann, Serena Spudich, for the RV254/SEARCH 010 Study Team

616 Plasma Microbiome Composition Among Neurobehavioral Phenotypes (NBPs) in People With HIV (PWH)
Mohammadsobhan Sheikh Andalibi, Lora Khatib, Bin Tang, Donald R. Franklin, Robert K. Heaton, Rob Knight, Scott L. Letendre, Ronald Ellis

617 High Anticholinergic Burden and Poor Sleep Quality in People With HIV
Maria Mazzitelli, Mattia Trunfio, Vincenzo Scaglione, Anna Tozzo, Lolita Sasset, Davide Leoni, Anna Favaro, Anna Maria Cattelan

618 Prevalence of Mental Disorders Among PWH in Rwanda: A Low-Cost Nurse-Led Screening Approach
Michel Gasana, Laura Risbjerg Omann, Simeon Tuyishime, Gallican N. Rwibasira, Jean Damascene Iyamuremye, Valentine Dushimiyimana

619 Cognitive and Sensorimotor Difficulties in Well-Controlled People With HIV Living in Uganda
Leah H. Rubin, Kathleen Ridgeway, Rebecca E. Easter, Raha M. Dastgheyb, Jonathan H. Ye, Eran F. Shorer, Aggrey Anok, Stephen Tomusange, Julie Mannarino, Deanna Saylor, Noeline Nakasujja, Gertrude Nakigozi, Robert Paul

620 **No Impact on the CNS After Switching to Dolutegravir/Lamivudine From a 3-Drug Regimen**

Linn Renborg, Aylin Yilmaz, Kristina Nyström, Staffan Nilsson, Henrik Zetterberg, Magnus Gisslén

621 **WITHDRAWN**

622 **Greater Cognitive Decline in Cognitively Unimpaired Older Thai PWH at Baseline**

Akarin Hiransuthikul, Tanakorn Apornpong, Stephen Kerr, Chuleeporn Wongvoranet, Win Min Han, Hay Mar Su Lwin, Napon Hiranburana, Sasiwimol Ubolyam, Anchalee Avihingsanon, for the HIV-NAT 006 and 207 Study Teams

Poster Session-E5 | It's All About the Vessels: NeuroHIV and Vascular Dysfunction

2:30 PM - 4:00 PM • Poster Hall

623 **Hypertension: A Major Factor in Low Verbal Fluency Among People Aged 50+ Living With HIV in Senegal**

Caroline Couturier, Hélène Font, Marie Kerbie Plaisy, Ababacar Niang, Judicaël Malick Tine, Jean-François Dartigues, Nathalie De Rekeneire, Moussa Seydi, Ndeye Fatou Ngom, Antoine Jaquet, Charlotte Bernard

624 **No Evidence of a Detrimental Effect of Pitavastatin on Neurocognitive Function Among People With HIV**

Kristine M. Erlandson, Ashley McKhann, Doug Kitch, Frank Palella, Ronald Ellis, Beau Ances, Markella V. Zanni, Marissa Diggs, Gerald Bloomfield, Carl Fichtenbaum, Judith Aberg, Pamela Douglas, Heather Ribaudo, Steven Grinspoon

625 **Number and Effectiveness of Antihypertensives Are Associated With Cognitive Performance in PWH**



Azin Tavasoli, Bin Tang, Scott L. Letendre, Robert K. Heaton, Ronald Ellis

626 **Increased Cerebral Arterial Transit Time in Obese Females With HIV and Metabolic Syndrome**

Eric Decloedt, Md Nasir Uddin, Chantel Schreuder, Lauren Jennings, Roland van Rensburg, Anika Coetzee, Abrar Faiyaz, Nhat Hoang, Catherine Orrell, Giovanni Schifitto

Poster Session-F2 | Drug-Drug Interactions and Pharmacology Challenges With Important Coconditions

2:30 PM - 4:00 PM • Poster Hall

645 **Drug Interactions Between Dolutegravir (DTG) and Escalating Doses of Rifampicin (RIF): DORIS Study**

Yashna Singh, Jerome R. Semakula, Peter Chodacki, Sheetal Kassim, Lucy Read, Laura Dickinson, Laura J. Else, Helen E. Reynolds, Jim Read, Duolao Wang, Catriona Waitt, Catherine Orrell, Saye Khoo, for the DoRIS Study Group

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TAF Achieves Adequate Intracellular Tenofovir-DP Concentrations With Rifampicin-Based TB Therapy

Rephaim Mpofo, Nomathemba Chandiwana, Simiso M. Sokhela, Michelle Moorhouse, Francois Venter, Peter Anderson, Lubbe Wiesner, Marta Boffito, Gary Maartens, Phumla Sinxadi

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Pharmacokinetics of Twice-Daily TAF in Adults With HIV-Associated TB on BIC/FTC/TAF and Rifampicin

Emmanuella C. Osuala, Ivan N. Nkuhairwe, Marothi P. Letsoalo, Kogieleum Naidoo, Rubeshan Perumal, James F. Rooney, Roeland Wasmann, Paolo Denti, Kelly E. Dooley, Anushka Naidoo, for the INSIGHT Study Team

648

Estradiol Concentrations in Trans Women on BIC/FTC/TAF Compared to Those Without HIV

Alice Tseng, Mona Loutfy, Ashley Lacombe-Duncan, Yasmeen Persad, Raymond Fung, Ian Armstrong, Louie L. Y. Chan, Quang Nguyen, Suza Hranilovic, Darrell H. S. Tan, Roberta Halpenny, Nirubini Jeyarajah, Jennifer McCully, V. Logan Kennedy, Kimberly K. Scarsi

649

Reduced Metformin Concentrations in Obese Women With HIV Treated With Dolutegravir

Roland van Rensburg, Tracy Kellermann, Veshni Pillay-Fuentes Lorente, Christiena du Plessis, Catherine Orrell, Innocent Maposa, Gert van Zyl, Giovanni Schifitto, Eric Decloedt

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Pharmacokinetics of Switching to B/F/TAF in PWH Post-Renal Transplant: BIK Switch Study

Corwin Coppinger, Stanley Cooper, Britta Witting, Ryan P. Coyle, Alexandra Dunbar, Lucas Ellison, Lane Bushman, Kristina Brooks, Peter Anderson, Catherine Small

Poster Session-G2 | Long-Acting Therapy: What Observational Data Tell Us About the "Real World"

2:30 PM - 4:00 PM • Poster Hall

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Long-Term CAB+RPV LA Effectiveness in Virologically Suppressed Individuals in the OPERA Cohort

Brooke Levis, Ricky K. Hsu, Jennifer S. Fusco, **Michael Sension**, Laurence Brunet, Quateka Cochran, Gayathri Sridhar, Vani Vannappagari, Jean van Wyk, Michael B. Wohlfeiler, Gregory P. Fusco

675

Outcomes on Cabotegravir + Rilpivirine in Suppressed People With HIV (PWH) in TRIO Health US Cohort

Andrew Frick, **Paul Sax**, Supriya Sarkar, Janna Radtchenko, Gayathri Sridhar, Leigh Ragone, Joseph J. Eron, Steven Santiago, Moti Ramgopal, Karam Mounzer, Charles Walworth, Jean van Wyk, Richard A. Elion, Vani Vannappagari

676

Clinical Outcomes Among Virologically Suppressed Women Receiving CAB+RPV LA in the OPERA Cohort

Brooke Levis, **Jessica A. Altamirano**, Cindy Markarian, Quateka Cochran, Courtney Sherman, Mona-Gekanju Toeque, Laura Armas, Gayathri Sridhar, Vani Vannappagari, Kimberley Brown, Jennifer S. Fusco



- 677 Long-Acting Cabotegravir and Rilpivirine in Older People With HIV in the GEPP0 Cohort**
Andrea Calcagno, Maria Vittoria Cossu, Samuele Gardini, Stefania Arsuffi, Stefano Calza, Jovana Milic, Benedetto Maurizio Celesia, Giancarlo Orofino, Andrea De Vito, Giuseppe Vittorio De Socio, Federica Barrera, Maria Mazzitelli, Agostino Riva, Emanuele Focà, Giovanni Guaraldi, for the GEPP0 Study Group
- 678 Long-Acting Cabotegravir/Rilpivirine in Real Life: Sex-Based Characteristics, PROs, and Effectiveness**
Ana González-Cordón, Berta Torres, Leire Berrocal, Maria Martínez-Rebollar, Ivan Chivite, Alexy Inciarte, Paula Arreba, Juan Ambrosioni, Lorena de la Mora, Alberto Foncillas, Jose L. Blanco, Esteban Martínez, José M. Miró, Josep Mallolas, Montserrat Laguno, for the Cabotegravir-Rilpivirine Research Group
- 679 Interim Week 48 Results in Young South Africans on Long-Acting Injectable ART: The AFINAty Study**
Lauren Jennings, Chantel Schreuder, Nyiko Mashela, Metsekae Madimabe, Millicent Atujuna, Linda-Gail Bekker, Catherine Orrell
- 680 Impact of Oral Lead-In on PK and Virologic Outcomes in People With HIV Transitioning to CAB+RPV LA**
Marta Fernández-González, Christian Ledesma, María Losada-Echeberria, Guillermo Telenti, Javier Garcia-Abellan, Sergio Padilla Urrea, Melissa Bello-Perez, Enrique Barrajón Catalán, Paula Mascarell, Angela Botella, Daria De Stefano, Daniela D'Urso, Leandro López, Mar Masiá, Felix Gutierrez
- 681 Low-Level Viremia and Risk Factors for Failure on Long-Acting Cabotegravir/Rilpivirine (LA CAB/RPV)**
Natalie Nielsen, Bradley Taranto, Mohammad Mahdee Sobhanie, Ashley Lipps, Joy Lehman, Susan Koletar, Carlos Malvestutto, Yesha Patel
- 682 Outcomes of LAI ART for People With Detectable HIV Viremia in the NYC Public Healthcare System**
Anthony Gerber, Eunice Casey, Ofole Mgbako, Emma Kaplan-Lewis
- 683 Why Do People With HIV Stop Long-Acting Injectable Cabotegravir/Rilpivirine and What Happens?**
Katerina Christopoulos, Matt Hickey, Janet Grochowski, Francis Mayorga-Munoz, Xavier Erguera, Samantha Dilworth, Elizabeth Imbert, Ayesha Appa, Matthew A. Spinelli, Chesa Cox, Mary Shiels, Jon Oskarsson, Monica Gandhi
- 684 What Do Early Adopters of Long-Acting Injectable Cabotegravir/Rilpivirine Think About It?**
Katerina Christopoulos, Moira McNulty, Lauren F. Collins, Matt Hickey, Mallory O. Johnson, Aaloke Mody, Kimberly Koester, Geoffroy Liegeon, Jorge Salazar, Samantha Dilworth, Sophie Plotkin, Kaylin Dance, Xavier Erguera, Elizabeth Montgomery, Jonathan Colasanti, for the MODERN ART Study Team
- 685 Outcomes in Those Who Discontinued Injectable Cabotegravir/Rilpivirine and Resumed Oral ART**
Tali Faggiano, Jeffrey Yin, Nimish Patel, Afsana Karim, Laura Bamford, Lucas Hill



- 686 Implementation of LA-CAB/RPV in US Clinic Settings: A Survey of Front-Line Clinicians**
William R. Short, Michelle Ogle, Eric Farmer, Angela Kapalko, Bruce Packett, Angela Riley, Amanda Binkley
- 687 Distance to Care Measures Predict Injection Visit No-Shows Among Cabotegravir/Rilpivirine Recipients**
Nimish Patel, Lucas Hill, Jeffrey Yin, Inmaculada Hernandez, Kari Abulhosn, Elvia Suarez, Afsana Karim, Laura Bamford
- 688 First Year of Lenacapavir Long-Acting Injectable Use in the OPERA Cohort**
 Laurence Brunet, **Karam Mounzer**, Ricky K. Hsu, Philip C. Lackey, Michael Sension, Michael B. Wohlfeiler, Joshua Gruber, Megan S. Dunbar, Seojin Park, Jennifer S. Fusco, Gregory P. Fusco

Poster Session-G4 | New Agents and Novel Administration
 2:30 PM - 4:00 PM • Poster Hall

- 701**  **A 24-Week Phase II Maintenance Study of TMB-365/TMB-380 Q8W in People With Suppressed HIV-1 Infection**
 YingAn Lai, Edwin DeJesus, Michael Sension, Gordon E. Crofoot, Moti Ramgopal, Mezgebe Berhe, Kuei-Ling Kuo, **Jacob P. Lalezari**, Chin-Ming Chang, Martin H. Markowitz
- 702** **A Multicenter Study of Albuviride Combined With 3BNC117 in Multidrug-Resistant HIV-1 Infection**
 Yihong Zhou, Yaokai Chen, Vijay Harypursat, **Yuanyuan Qin**
- 703** **Efficacy of Switching to Ainaovirine-Based Antiretroviral Regimen in Virologically Suppressed PWH**
Hong Qin, Fujie Zhang, Hao Wu, Ping Ma, Qingxia Zhao, Hongxia Wei, Hongzhou Lu, Wang Hui, Shenghua He, Zhu Chen, Yaokai Chen, Min Wang, Weiping Cai, Xinming Yun
- 704**  **Evaluating Efficacy of Crushed Bictegravir/Emtricitabine/Tenofovir Alafenamide Administered via Tube**
Joshua T. Mercure, Kayla Bey, Eric Gillett, Jeffrey C. Pearson, Suzanne McCluskey, Alex Rock
- 705**  **Creating an Ultralong-Acting Dolutegravir Prodrug Homodimer**
Bhoomika Gowda, Suyash Deodhar, Nam Le, Samiksha S. Raut, Brandon Hanson, Brady Sillman, Brian Kearney, Alborz Yazdi, Howard Gendelman, Benson Edagwa
- 706** **Development of a 2-Drug Long-Acting Removable Formulation for HIV Suppression**
 Martina Kovarova, Sarah Wessel, Rae Ann Spagnuolo, Nurjahan Begum, Lijun Ling, Diana Battaglia, Katie Mollan, Amanda Schauer, Jose Victor Garcia Martinez, **Manse Kim**
- 707** **Identification and Characterization of Novel Chemical Scaffolds With Anti-HIV Activities**
Ryan Jeep, Liangqun Huang, Tram A. Ngo, Fu-Yue Zeng, James Boehlke, Luke Bennett, Ian Pass, Ashootosh Tripathi, Pamela Schultz, Pankaj Kumar, Thomas D. Y. Chung, David H. Sherman, Chaoping Chen

- 708 A Strategy for Durable AAV-Vectored bNAb Expression in Adult Rhesus Macaques**
Michael Kuipa, Peter Koroma, Isai Leguizamo, Priya Dhole, Matthew R. Gardner
- 709 Trosunilimab Safety, Pharmacokinetics, and Pharmacodynamics in People With and Without HIV-1**
 Manal Abunimeh, Cynthia Brinson, Olayemi Osiyemi, Ana Pires, Mong-Jen Chen, Preethi Krishnan, **Franco Antonio Felizarta**, Harsh Sharthiya, Heide Betman, Nael Mostafa, Veronica Wangsadipura, Daniel Cohen, Moti Ramgopal
- 710 Preclinical Evaluation of an Ultra-Long-Acting Tenofovir Prodrug Nanosuspension**
 **Samiksha S. Raut**, Srijanee Das, Grace Bybee, Haritha Chava, Mojisola Ogunnaike, Weimin Wang, Anup Pathania, Nam Le, Howard Gendelman, Larisa Poluektova, Natalia Osna, Benson Edagwa

Poster Session-H2 | Epidemiology of HIV Drug Resistance
 2:30 PM - 4:00 PM • Poster Hall

- 729 High Prevalence of Baseline NRTI Resistance in PWH Switched From Second-Line PI/r to B/F/TAF**
 Jean Bernard Marc, **Samuel Pierre**, Paul Sax, Johnny Wu, Sean E. Collins, Emelyne Dumont, Fabienne Homeus, Santiago Avila Rios, Claudia Garcia-Morales, Vanessa Rivera, Dennis Israelski, Bernard Liautaud, Jean W. Pape, Serena Koenig, Patrice Severe
- 730 HIV-1 Drug Resistance Trends in the Era of Modern Antiretrovirals: 2018-2024**
Ron M. Kagan, John D. Baxter, Taekkyun Kim, Elizabeth M. Marlowe
- 731 Rilpivirine Drug-Resistant Mutations in Experienced Patients in Mexico: Impact on Long-Acting ART**
 Angel J. Granados-Gomez, Elsa Y. Vidal Laurencio, Juan P. Ramirez-Hinojosa, Gilbert Perez-Rodriguez, Juan J. Calva-Mercado, **Luis E. Soto-Ramirez**
- 732 Despite Increasing Use of INIs to Treat HIV Infection, Resistance to This Class Remains Stable**
Vincent Calvez, Rachid Agher, Basma Abdi, Marc Wirden, Elisa Teyssou, Karen Zafilaza, Christine Katlama, Marc-Antoine Valantin, Roland Tubiana, Luminita Schneider, Antoine Faycal, Romain Palich, Valerie Pourcher, Anne-Geneviève Marcelin, Cathia Soulié
- 733 Molecular Epidemiology of HIV-1 Transmitted Drug Resistance Among Subtypes Circulating in Italy**
Daniele Armenia, Claudia Alteri, Valeria Micheli, Bianca Bruzzzone, Isabella Bon, Celestino Bonura, Tiziano Allice, Romina Corsini, Federica Novazzi, Marialinda Vatteroni, Ada Bertoli, Gabriele Ibba, Antonia Bezenchek, Maurizio Zazzi, Maria Mercedes M. Santoro, for the Italian NGS Network

Poster Session-13 | HBV Diagnostics and Treatment

2:30 PM - 4:00 PM • Poster Hall

767 **Changes in Antiviral Treatment Eligibility With the New WHO 2024 Guidelines in Senegal**
Bruce Shinga S. Wembulua, Judicaël Malick Tine, Ndeye Fatou Ngom, Ousseynou Ndiaye, Melissa Sandrine Pandi, Messan Akotia, Moussa Seydi, Gilles Wandeler, Adrià Ramírez Mena

768 **Continuum of Hepatitis B Surface Antigen Expression Among PWID and MSM Living With HIV in India**
 **Talia A. Loeb**, Mihili Gunaratne, Hussain Syed Iqbal, Mark Anderson, A. K. Srikrishnan, Allison M. McFall, Gregory M. Lucas, Mary Rodgers, Muniratnam S. Kumar, David Thomas, Ashwin Balagopal, Shruti H. Mehta, Sunil S. Solomon, Gavin Cloherty, Chloe Thio

769 **HBsAg Seroclearance in HBV-Coinfected People With HIV in the Era of Tenofovir-Containing Therapy**
Chien-Ching Hung, Yu-Shan Huang, Hsin-Yun Sun, Li-Hsin Su, Yi-Ching Su, Wen-Chun Liu, Sui-Yuan Chang

770 **Hepatitis B Reactivation in PWH With Isolated Anti-Core Pattern on Therapies Excluding Tenofovir**
 **María del Mar Arcos-Rueda**, Alejandro de Gea Grela, Luis Ramos, Carmen Busca, Rafael Mican, Rocío Montejano Sanchez, María Luisa Montes, Jose Ignacio Bernardino, Rosa De Miguel Buckley, Jose R. Arribas, Juan González-García, Luz Martín-Carbonero

771 **HBV Reactivation Post-Switch to HBV-Inactive ART: A Scoping Review**
Kyle Ring, Chloe Orkin, Milosz Parczewski, Marta Boffito, Federico Garcia, Anna Maria Geretti

772 **Outcomes in HIV-Hepatitis B Coinfection Without Tenofovir-Containing Antiretroviral Therapy**
Amir Mohareb, Patrick Mialhes, Julie Bottero, Caroline Lascoux-Combe, Julie Chas, Sarah Maylin, Audrey Gabassi, Hayette Rougier, Emily Hyle, Constance Delaugerre, Karine Lacombe, Anders Boyd

773 **WITHDRAWN**

774 **Increased Detection of HBV DNA and Mutational Analysis in HBsAg-Negative Specimens at NHLS/DGM**
 **Nondumiso A. Nkosi**, Omphile E. Simani, Gloria S. Selabe

775 **HBV Seroconversion in People With HIV: Relevance of Clinical History and Viral Markers Monitoring**
Marianna Menozzi, Adriana Cervo, Gianluca Cuomo, Mattia Simion, Alessandra Soffritti, Lorenzo Piermatteo, Stefano D'Anna, Romina Salpini, Valentina Svicher, Cristina Mussini

776 **Performance Evaluation of the Xpert Hepatitis B Molecular Test Among Pregnant Women in Uganda**
Viola Kasone, Judith A. Kyokushaba, Proscovia Namuwenge

777



The Impact of HIV Infection on All-Cause Mortality Among Individuals Treated for HBV in Rwanda

Jean Damascene Makuza, Dahn Jeong, Richard L. Morrow, Prince A. Adu, Marie Paul Nisingizwe, Alpamys Issanov, Georgine Cua, Héctor A. Velásquez García, Janvier Serumondo, Albert Tuyishime, Joseph Puyat, Alnoor Ramji, Michael Law, Naveed Z. Janjua

Poster Session-J3 | HIV-Related Cancer: Epidemiology, Incidence, Demographics

2:30 PM - 4:00 PM • Poster Hall

798

Trends in Common Cancer Diagnoses Among People With HIV in North America, 2006-2020

Sally B. Coburn, Elizabeth Humes, Michael Horberg, Michael Silverberg, Jeffrey Martin, Raynell Lang, Chad Achenbach, Lesley Park, Minh Ly T. Nguyen, Mari Kitahata, Maile Karris, Heidi M. Crane, Joseph J. Eron, Keri N. Althoff, Richard Moore, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

799



Cancer Risk of People With HIV Younger Than 50 Years: Italy, 1997-2023

Camilla Muccini, Pierluca Piselli, Claudia Cimaglia, Alessandra Bandera, Giulia Marchetti, Valentina Mazzotta, Luca Pipitò, Alessandro Tavelli, Stefano Rusconi, Carlo-Federico Perno, Enrico Girardi, Antonella d'Arminio Monforte, Diego Serraino, Antonella Cingolani, for the Icona Foundation Study Group

800

Predictors of Mortality Among Patients With Virus-Associated Cancers in a High HIV-Prevalence Region

Thomas Odeny, **Dorothy Mangale**, Phiona A. Adagi, Everlyne Nyandieka, Harriet F. Adhiambo, Kevin Owuor, Betsy Abente, Donella Atieno, Sharon Ouma, Caroline Wafula, Angela A. McLigeyo

801

WITHDRAWN

802

Cancer Risk Among People Who Inject Drugs With HIV in the United States, 2010-2019

Jennifer K. McGee-Avila, Cameron B. Haas, Eric A. Engels, **Carol-Ann Swain**, Tabassum Insaf, Colby Cohen, Jennifer Hayes, Tyler Adamson, Meredith S. Shiels, Qianlai Luo

803

Cancer Incidence in Women With HIV in Europe and Australia: A Combined D:A:D and Respond Analysis

Win Min Han, Lauren Greenberg, Alisa Timiryasova, Lene Ryom, Bastian Neesgaard, for the D:A:D and RESPOND Collaborations

804



Low-Level HIV Viremia Increases Immunosuppressive Markers Elevating Cancer and CVD Risk in InSTI Era

Violeta Lara-Aguilar, Óscar Brochado-Kith, Manuel Llamas-Adan, Sergio Grande García, Sonia Arca De Lafuente, Ignacio de los Santos, Coral Sainz-Pinós, Mario Alía, Carmen Prado, Amanda Fernández Rodríguez, Ricardo Madrid, Luz Martín-Carbonero, Verónica Briz

TUESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

Poster Session-K3 | Antiretroviral Therapy and CVD Risk

2:30 PM - 4:00 PM • Poster Hall

- 824 Change in Cardiometabolic Risk Markers Following Switch to Integrase Inhibitors Differs by Sex**
Cecile D. Lahiri, Cyra C. Mehta, Qian Yang, Julie B. Dumond, Maria L. Alcaide, Frank Palella, Jordan E. Lake, Leah H. Rubin, Audrey L. French, Seble Kassaye, Michael Augenbraun, Anjali Sharma, Ighovwerha Ofotokun, Anandi N. Sheth, Jessica A. Alvarez
- 825 Dolutegravir-Based Antiretroviral Therapy and Cardiometabolic Health Risk in Persons With HIV**
Katuku Aizire, Antonio Bandala-Jacques, Sara K. Nsibirwa, Ponsiano Ocama, Gregory Kirk, for the HIV and Hepatocellular Carcinoma in Uganda (H2U) Consortium
- 826 Changes in Cardiometabolic Parameters After ART Initiated Within 1 Year of HIV Acquisition**
Nikos Pantazis, Sabin Caroline, Sophie Grabar, Marc van der Valk, Laurence Meyer, Mar Masiá, Christina Carlander, M. John Gill, Fiona Burns, Shema Tariq, Giota Touloumi, Kholoud Porter, for the CASCADE Collaboration
- 827 Potential of the Short Chain Fatty Acid Caproic Acid in Protection Against CVD in HIV Infection**
 Florent Bertrand, Minh Tran, Rémi Bunet, Hardik Ramani, Sylla Mohamed, Madeleine Durand, Carl Chartrand-Lefebvre, Petronela Ancuta, Nicolas Chomont, Alan Landay, **Mohamed El-Far**, Cécile Tremblay

Poster Session-L4 | Frailty and Aging

2:30 PM - 4:00 PM • Poster Hall

- 877 Statins Reduce Frailty in People With HIV**
 Jovana Milic, Alessandra Carrobbio, Marianna Menozzi, Giuseppe Mancini, Gianluca Cuomo, Federico Motta, Chiara Mussi, Cristina Mussini, Paolo Raggi, Giada Sebastiani, **Giovanni Guaraldi**
- 878 Frailty and All-Cause Mortality Among People With HIV Engaged in Clinical Care in the United States**
Stephanie A. Ruderman, Carolyn A. Fahey, Ryan P. Kyle, Edward Cachay, Joseph A. Delaney, Sonia Napravnik, Allison Webel, Kenneth Mayer, George Yendewa, Lydia N. Drumright, Laura Bamford, Charles Kamen, Michael Saag, Mari Kitahata, Heidi M. Crane, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)
- 879 Clinical and Economic Benefits of Preventing Physical Frailty and Falls Among PWH in the US**
Karen C. Smith, Cathryn Brown, Emily Hyle, Michael Paskewicz, Reyhaneh Zafarnejad, Todd Brown, Kenneth A. Freedberg, Kristine M. Erlandson, Elena Losina

880



Housing Instability and Frailty Among People With HIV Engaged in Clinical Care in the United States

Carolyn A. Fahey, Stephanie A. Ruderman, Bridget M. Whitney, Joseph A. Delaney, Rob Fredericksen, L. Sarah Mixson, Sonia Napravnik, Allison Webel, Kenneth Mayer, Edward Cachay, George Yendewa, Lydia N. Drumright, Laura Bamford, Michael Saag, Heidi M. Crane

881

Prognostic Factors of Physical Function Decline in the PREPARE Study

Grace Ditzenberger, Triin Umbleja, Todd Brown, Heather Ribaudo, Steven Grinspoon, Jennifer Schrack, Markella V. Zanni, Judith Aberg, Carl Fichtenbaum, Carlos Malvestutto, Sarah Chu, Judith Currier, Pamela Douglas, Gerald Bloomfield, Kristine M. Erlandson

882



Understanding the Life Expectancy Sex Gap: Disparate Patterns in Noncommunicable Disease Mortality

Katherine Kooij, Wendy Zhang, Jason Trigg, Erin Ding, Nance Cunningham, Michael Budu, Megan E. Marziali, Viviane D. Lima, Kate Salters, Rolando Barrios, Julio S. G. Montaner, Robert S. Hogg

883

10-Minute Targeted Geriatric Assessment Identifies Vulnerable and Frail Older Persons With HIV

Marilia Bordignon Antonio, Jessica Castilho, Paridhi Ranadive, Thiago Silva Torres, Vanessa Gama, Sandra Wagner Cardoso, Roberta Schiavon Nogueira, Jose Valdez Madruga, Carlos Brites, Estela Luz, Bryan Shepherd, Vivian I. Avelino-Silva, Marlon Aliberti, for the ELEA-Brasil Cohort

884

The 10-Year Prevalence of Hearing Loss and Dementia Among People With HIV in the United States

Ethan D. Borre, Anjali Srinivasan, Julie Deleger, Lauren K. Dillard, John Giardina, Juliessa M. Pavon, Sachin J. Shah, Judy R. Dubno, Sherri L. Smith, Shibani Mukerji, Kenneth A. Freedberg, Howard W. Francis, Christine S. Ritchie, Gillian D. Sanders Schmidler, **Emily Hyle**

885

Clinical Outcomes of Immune Nonresponse Among Virally Suppressed Adults Living With HIV in Thailand

Sirawit Suteetamrong, Vasin Vasikasin, Yanisa Kanjanavithayakul, Monchai Duangpraphat, Tanin Apiyangkool, **Worapong Nasomsong**

886

Falls Associated With High Medication Regimen Complexity in People With HIV

Yunhan Chen, Archana Asundi, Samantha Roche

887

Integrated Digital Strategy for Stigma Evaluation in Routine Care for PWH

Alfonso Cabello, Patricia Torres, Ana Cortés, Beatriz Alvarez, Irene Carrillo, Aws Al-Hayani, Laura Prieto-Pérez, Marta López De Las Heras, Gema Fuensalida, Ainara Durán, Raúl Córdoba, Marta Del Olmo, Javier Arcos, Miguel Górgolas

888



Latent Class Analysis Identifies Distinct Comorbidity Profiles in Older (>65 Years) People With HIV

Fabrizio Drago, Kylie Getz, Luke Soshnik-Schierling, Stephen Crystal, Chintan V. Dave, Mackey Friedman, Henry F. Raymond, Jason Roy, Markella V. Zanni, Michael T. Yin, Stephanie Shiao



889



Multimorbidity and Quality of Life Among Older People Living With HIV in Urban Tanzania

Theresia A. Ottaru, Christopher H. Mbotwa, Joan Rugemalia, Sylvia Kaaya, Lisa R. Hirschhorn, Pilly Chillo, Dannielle Grayer, Edith Tarimo, Mary C. Masters, Claudia Hawkins

Poster Session-L5 | Weight Gain

2:30 PM - 4:00 PM • Poster Hall

890

Weight and Body Composition After Switch to DTG/3TC From DTG/3TC/ABC: A Randomized Open-Label Trial

Karen Brorup Heje Pedersen, Magnus Soeltoft Lindhardt, Andreas Knudsen, Gitte Kronborg, Nina Weis, Anne-Mette Lebech, Ole Kirk, Jannik Helweg-Larsen, Christian Philip Fischer, Ann-Brit Eg Hansen, Søren Møller, Hartwig R. Siebner, Jens Dahlgaard Hove, Jan Gerstoft, **Thomas Benfield**

891

Re-Examining InSTI Effects on Weight Gain Among Treatment-Naïve People With HIV in North America

Kassem Bourgi, Peter F. Rebeiro, Lakeisha Boyd, Samir K. Gupta, Cal Cohen, Jean C. Lee, Jordan E. Lake, Frank Palella, Amy Justice, George Yendewa, Jennifer O. Lam, Michelle Floris-Moore, Marina Klein, Timothy Sterling, John Koethe, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

892

Weight Change on F/TAF vs Placebo: Using Common F/TDF Groups to Bridge Data Across Clinical Trials

David Glidden, Andrew Whiteman, Yuan Tian, Andrea Marongiu, Joshua Gruber, Cal Cohen

893

Body Composition Changes in People With HIV Switching From or Maintaining TDF-Based Regimens

Jovana Milic, Stefano Calza, Stefano Renzetti, Federico Motta, Gianluca Cuomo, Marianna Menozzi, Giuseppe Mancini, Cristina Mussini, **Giovanni Guaraldi**

894

Risk Factors Associated With Extreme Weight Gain in People With HIV

Laven Mavarani, Sarah Albayrak-Rena, Stefanie Sammet, Felix Maischack, Anja Potthoff, Martin Hower, Andreas Schoenfeld, Dirk Schadendorf, Boerge Schmidt, **Stefan Esser**, for the HIV HEART Aging Cohort Study Group

895



Serum Metabolomic Signatures Associated With InSTI-Related Weight Gain in Women With HIV

Chin-An Yang, Young-Mi Go, Brahmchetna Bedi, Cyra C. Mehta, Ighowwerha Ofotokun, Anandi N. Sheth, Mohammed K. Ali, Maria L. Alcaide, Frank Palella, Jordan E. Lake, Leah H. Rubin, Deborah Konkole-Parker, Anjali Sharma, Cecile D. Lahiri, Jessica A. Alvarez

896

Weight Change in Trial of Switching From Second-Line bPI to B/F/TAF in a Context of Food Insecurity

Fabienne Homeus, Samuel Pierre, Jean Bernard Marc, Jodany Bernadin, Vanessa Rivera, Sean E. Collins, Letizia Trevisi, Abigail Zion, Adina Zhang, Elizabeth Fox, Jean W. Pape, Serena Koenig, **Vanessa Rouzier**

TUESDAY



897



Body Composition Changes in People With HIV Switching to DTG/3TC or BIC/TAF/FTC

Silvana Di Gregorio, Lucas R. Brun, Santiago Mourelo, Mar Masiá, Lucio Jesús García Fraile Fraile, María J. Crusells, Pere Domingo, Adrian Curran, Roberto Güerri, Pablo Ryan, Jose L. Blanco, Maria-Jesus Vazquez, Marta De Miguel, Belen Alejos, **Esteban Martinez**, for the PASO-DOBLE (GeSIDA 11720) Randomized Trial Team

Poster Session-M2 | PASC: Immunobiologic, Metabolic, and Cardiovascular Complications

2:30 PM - 4:00 PM • Poster Hall

927

Hormonal Dysregulation in Long COVID: Exploring the Salivary Cortisol Profile

Marta Camici, Marta Franco, Lorenzo Talamanca, Manuela Petino, Jessica Paulicelli, Liliana Scarnecchia, Alessandra Vergori, Stefano Curcio, Roberto Baldelli, Paolo Zuppi, Andrea Antinori

928

In Vitro Modeling of the Effects of Impaired HDL on Atherogenesis in Long COVID Syndrome

Michael Wong, Madhav Sharma, **Theodoros Kelesidis**

929



Age-Dichotomous Associations of Long COVID With Frequency of Public SARS-CoV-2 Memory TCRs

Selin Akbas, Shuai Li, Hao Zhang, Tamilore Adeagbo, Ni Zhao, Alan Landay, Michael Peluso, Elizabeth Thompson, Andrea Cox, Yukari Manabe, Hongkai Ji, Annukka Antar

930

Persistent Immune Dysregulation and Metabolic Alterations Following SARS-CoV-2 Infection

Silvia Lucena Lage, Katherine Bricker-Holt, Joseph Rocco, Adam Rupert, Eduardo Pinheiro Amaral, Gabriel Rosenfeld, Thomas Dalhuisen, Avery Eun, Emily Fehrman, Jeffrey Martin, Steven G. Deeks, **Michael Peluso**, Irini Sereti, Timothy J. Henrich

931



Immune and Virologic Trajectories 1.5 Years Before and After COVID-19 in an Early-Treated HIV Cohort

Ferron F. Ocampo, Tyler Hamby, Luxe-Naree Poonpitak, Carlo Sacdalan, Suwanna Puttamaswin, Somchai Sriplienchan, Nittaya Phanuphak, Phillip Chan, Trevor Crowell, Lydie Trautmann, Sandhya Vasan, Robert Paul, Serena Spudich, for the RV254/SEARCH 010 Study Team

932



Longitudinal Changes in Arterial Stiffness and Inflammation From Pre- to Post-COVID-19 Infection

Jhony Baissary, Ornina Atieh, Jared C. Durieux, Alexander Merheb, Danielle Labbato, Theresa Foster, Michael Rodgers, Grace A. McComsey

933



[¹⁸F]F-AraG PET Imaging Reveals Increased Gut T-Cell Activation in People With Long COVID

Timothy J. Henrich, Michael Peluso, Robert Flavell, Dylan Ryder, Kofi Asare, Emily Fehrman, Thomas Dalhuisen, Rebecca Hoh, Badri Viswanathan, Youngho Seo, Jelena Levi, Jeffrey Martin, Steven G. Deeks, Henry VanBrocklin, **Emilio De Narvaez**, for the UCSF LIINC Study Team

TUESDAY



New Investigator
Scholarship Award



Late-Breaking
Abstract

934



Evidence of B-Cell Dysfunction in Individuals With Long COVID-Associated Dysautonomia

Montserrat Torres, Clara Sánchez Menéndez, Alicia Simón Rueda, Ana García-Casas, Jaime Bartolomé, Luis Fernando Lemus Aguilar, Elena Mateos, Jose Agualeles, Guillermo Santamaria Corral, Aránzazu Murciano Anton, Pablo Guisado Vasco, Mayte Coiras

Poster Session-N2 | Pathogenesis of TB Disease/TB Drug Exposure Relationships

2:30 PM - 4:00 PM • Poster Hall

954

Impact of Cytomegalovirus Infection on the Progression of TB Disease in People With HIV on ART

Sivaporn Gatechompol, Sasiwimol Ubolyam, Thitiporn Somjit, Chavachol Setthaudom, Anchalee Avihingsanon, Stephen Kerr, Frank van Leth, Frank Cobelens

955

Immune Profiles Can Differentiate Mycobacterial and KSHV Inflammatory Syndromes in Advanced HIV

Silvia Lucena Lage, Joseph Rocco, Ramya Ramaswami, Kathryn Lurain, Maura Manion, Brian P. Epling, Elizabeth Laidlaw, Logan Cook, Frances Galindo, Denise Whitby, Andrea Lisco, Robert Yarchoan, Irini Sereti

956



NAT-2 Polymorphism and Risk of Antituberculosis-Induced Hepatotoxicity in Thai People With HIV

Napon Hiranburana, Warat Usawakidwiree, Sasiwimol Ubolyam, Jiratchaya Sophonphan, Stephen Kerr, Gompol Suwanpimolkul, Pattama Torvorapanit, Pajaree Chariyavilaskul, Weeraya Phaisal, Anchalee Avihingsanon

957



Isoniazid Exposure Among Patients With Tuberculosis and Diabetes in Brazil

Felipe Ridolfi, Gustavo Amorim, Cody Staats, Marcelo Cordeiro-Santos, Afrânio L. Kritski, Marina C. Figueiredo, Bruno B. Andrade, Timothy Sterling, Valeria C. Rolla, for the Regional Prospective Observational Research in Tuberculosis (RePORT) - Brazil Consortium

958



Genetics of Plasma Rifapentine Clearance During Pulmonary Tuberculosis Treatment in Study 31/A5349

Ava Y. Xu, Yuki Bradford, Gustavo E. Velásquez, Vincent K. Chang, Marjorie Imperial, Ekaterina V. Kurbatova, Kia Bryant, Phumla Sinxadi, Marylyn Ritchie, John A. Capra, David W. Haas, Radojka M. Savic, for the Tuberculosis Trials Consortium (TBTC) Study 31/ACTG A5349 Study Team

Poster Session-N3 | Novel TB Case-Finding Strategies and Diagnostic Testing

2:30 PM - 4:00 PM • Poster Hall

959

High Diagnostic Yield of a Novel HIV-TB Case-Finding Strategy at Social Drinking Venues in Zambia

Andrew Kerkhoff, David Singini, Solomon Chifwamba, Lawrence Kushukila, Benson Njobvu, Minyoi Maimbolwa, Mary Kagujje, Monde Muyoyeta



- 960 Effectiveness of Portable Digital X-Ray Machine in Tuberculosis Case-Finding in Nigeria**
Ademola Adelekan, Aderonke Agbaje, Olugbenga Daniel, Babatunde Pedro, **Patrick Dakum**
- 961 Machine Learning-Based Prediction of Active Tuberculosis in People With HIV Using Clinical Data**
Lena Bartl, Marius Zeeb, Marisa Kälin, Tom Loosli, Matthias Hoffmann, Katharina Grabmeier, Michael Knappik, Alexandra Calmy, Jose Damas, Niklaus D. Labhardt, Huldrych F. Günthard, Roger D. Kouyos, Katharina Kusejko, **Johannes Nemeth**, for the Swiss HIV Cohort Study
- 962 Genome-Wide Meta-Analysis Identifies Genetic Associations With Resistance to Mtb Infection**
Matheus Fernandes Gyorfy, Neel R. Gandhi, Qin Hui, Bruno B. Andrade, Neil Martinson, Mandar Paradkar, Senbagavalli Prakash, Kamakshi Prudhula Devalraju, Marina C. Figueiredo, Marcelo Cordeiro-Santos, Nombuyiselo Mofokeng, Fay Willis, Timothy Sterling, Amita Gupta, Yan V. Sun, for the TB GWAS Collaboration
- 963 Healthcare Worker- Versus Self-Collected Tongue Swabs for *Mycobacterium tuberculosis* Detection**
Anura David, Gregory P. Bisson, Salome Charalambous, Lesley E. Scott, Griffiths Kubeka, Lyndel Singh, Pedro Da Silva, Wendy S. Stevens, Yeonsoo Baik
- 964 Evaluating the Accuracy of Standard F TB-Feron FIA for TB Infection Diagnosis in Vietnam**
Han Thi Nguyen, Luan Vo, Andrew Codlin, Tom Wingfield, Rachel Forse, Emily Maclean, Jacob Creswell, Kristi Sidney, Beatrice Kirubi, Hoa Binh Nguyen, Luong Van Dinh, Ha Thu Doan, Lina D. Forsman, for the TBI Testing Team
- 965 Diagnostic Accuracy of the FujiLAM Assay to Detect Tuberculosis in Advanced HIV**
Tessa Adzemovic, Radha Rajasingham, Elizabeth K. Nalintya, Ann M. Fieberg, Emmanuel Mande, George Katende, Spencer Yueh, Olive Namakula, Patricia Nerima, Biyue Dai, David B. Meya, David R. Boulware
- 966 Diagnosis and Prognosis of Blood XpertUltra and Myco/F Blood Culture for TB in Advanced HIV Disease**
Phuong Le Trinh, Dieu Quang Nguyen, Thu Dang Anh Do, Emily Evans, Ly Trieu Vo, Dung Thanh Nguyen, Thach Ngoc Pham, Quang Le Nguyen, Khanh Hoang Dang, Trang Van Dinh, Cuong Do Duy, Dat Quoc Vu, Thuong T. T. Nguyen, H. Rogier van Doorn, Thuy Le

Poster Session-N4 | TB Preventive Therapy: Testing, Treatment Strategies, and Outcomes

2:30 PM - 4:00 PM • Poster Hall

- 967 Gaps in Latent Tuberculosis Infection Testing Practices: A 15-Year Serial Cross-Sectional Study**
Jorge R. Ledesma, Yuching X. Ni, Jacek Skarbinski

968 Effect of Alcohol Use on Active TB Incidence Among PWH With Prior Receipt of TB Preventive Therapy

Judith A. Hahn, Robin Fatch, Sowmya R. Rao, Adah Tumwegamire, Christine Ngabirano, Julian Adong, Nneka Emenyonu, Gabriel Chamie, Winnie Muyindike, for the International URBAN ARCH Center

969 The Impact of Rifampin Drug Interactions on TPT Completion and Safety Using High-Dose vs Standard

Jinell White, Federica Fregonese, Rachel Lim, Nancy Bedingfield, Victoria Cook, Fajri Gafar, Diana Gibson, Dina Fisher

970 Weekly Rifapentine and Isoniazid (3HP) vs Isoniazid Preventive Therapy (6H) Among People With HIV



Dickens Onyango, Jerphason Mecha, Lilian N. Njagi, Samson Aoro, John Kinuthia, Grace John-Stewart, Sylvia LaCourse

971 Patient and Provider Preferences for Long-Acting Tuberculosis Preventive Therapy

Marcia C. Vermeulen, Renae Furl, Harlan Sayles, Shahanara Valawalkar, Abhay Kadam, Samyra R. Cox, Vidya Mave, Charlotte Schutz, Amy Ward, Joelle Dountio Ofimboudem, Kimberly K. Scarsi, Graeme Meintjes, Susan Swindells, for the Longevity Consortium

972 Effect of Tuberculosis Preventive Therapy on Mtb-Specific T-Cell Profile in the A5279/BRIEF TB Trial



Pablo C. Alarcon, Xinyu Du, Manuel G. Faria, Ashley McKhann, Michelle A. Kendall, Michael L. Freeman, Susan Swindells, Amita Gupta, Gavin Churchyard, Richard E. Chaisson, Cheryl Day, Moises Huaman

Poster Session-O3 | Managing Maternal HIV

2:30 PM - 4:00 PM • Poster Hall

991 High Viral Suppression in Pregnant/Postpartum Women With HIV in a Couples-Based Behavioral Trial

Karen Hampanda, Lisa L. Abougi, Brenda Muluka, Margaret Kasaro, Janet M. Turan, Lynae Darbes, Benjamin H. Chi

992 Childhood Exposure to Violence and Pregnancy-to-Postpartum Viral Load of US Women With HIV

Deborah Kacanek, Jessica Lee, Carly Broadwell, Claire A. Berman, Emily Barr, Ellen Chadwick, Mariam Davtyan, Toinette Frederick, Kathleen Powis, Jennifer Jao, Liz Salomon, Kimbrae Sanders, Renee Smith, Lynn Yee, Kathleen M. Malee, for the Pediatric HIV/AIDS Cohort Study (PHACS)

993 Rapid Return of Viral Load (VL) Results to Pregnant/Postpartum Women via Mentor Mothers in Kenya

Pam Murnane, Sharon Ouma, Raphael Onyango, Nita Mukand, Francesca Odhiambo, Jane Kabami, Elizabeth A. Bukusi, Craig R. Cohen, James Ayieko

994 Evaluating and Revising an Adapted Scale for Antiretroviral Therapy (ART) Adherence Self-Efficacy

Lauren Sheu, Austin Wesevich, Maganizo B. Chagomerana, Wiza Kumwenda, Jacob N. Phulusa, Madalitso Maliwichi, Kate Burrows, Mina C. Hosseinipour



995 The Impact of Care Transitions on Pregnant Youth Living With HIV in Kisumu, Kenya

Rabbia Imran, Arnold Muhinji, Dorothy Mangale, Edwin Nyagesoa, Gladys Ontuga, Elvin H. Geng, Lisa L. Abougi

996 HIV Drug Resistance Patterns Among Pregnant Women After Dolutegravir Scale-Up in Sub-Saharan Africa



Linda Stoeger, Maria Casadellà, Anete Mendes-Muxlhanga, Ghyslain Mombo-Ngoma, Johannes Mischlinger, Michael Ramharter, Meral Esen, Mariona Parera, Antia Figueroa-Romero, Sergi Sanz, Roger Paredes, Tacilta Nhampossa, Clara Menéndez, Raquel González

Poster Session-04 | Antiretrovirals and Birth Outcomes

2:30 PM - 4:00 PM • Poster Hall

997 Perinatal and Infant Outcomes After Bictegravir Exposure in Pregnancy: A Canadian Surveillance Study



Jeffrey Man Hay Wong, Rosa Balleny, Terry Lee, Ari Bitnun, Isabelle Boucoiran, Jason Brophy, Jeannette Corneau, Fatima Kakkar, Athena McConnell, Laura Sauvé, Joel Singer, Alena Tse-Cheng, Deborah Money, for the Canadian Perinatal HIV Surveillance Program

998 Prematurity and Low Birth Weight in Children Born to Mothers Living With HIV in Spain

Blanca Bravo Queipo de Llano, **Talía Sainz**, Carlos Grasa, Marta Illán, Arantxa Berzosa, Asuncion Diaz, Inma Jarrin, Luis Prieto Tato, Rosa Polo, Maria Luisa Navarro, Jose Tomás Ramos Amador, Luis Escosa, for the Cohorte Nacional de Mujeres Embarazadas con VIH y sus hijos expuestos y Cohorte Nacional de VIH pediátrico (CoRISpe)

999 Birth Outcomes and HIV-1 Transmission in a Contemporary HIV Pregnancy Cohort, Washington State

Jane Hitti, Ann Melvin, Heather Jaspan, Alison C. Roxby, Jennifer E. Balkus, Lilian Manahan, Ronit Katz

1000 Impact of TLD on Birth Outcomes in South African Women: The ORCHID Cohort

Jamie E. Meyer, **Thokozile R. Malaba**, Hayli Geffen, Hlengiwe Madlala, Sandisiwe M. M. Matyesini, Elton Mukonda, Jennifer Jao, Elaine Abrams, Landon Myer

1001 Impact of Gestational Diabetes on Pregnancy Outcomes in South African Women Living With HIV

Elton Mukonda, Jamie E. Meyer, Elaine Abrams, Thokozile R. Malaba, Hayli Geffen, Hlengiwe Madlala, Sandisiwe M. M. Matyesini, Landon Myer, Jennifer Jao

1002 Immune Markers During Pregnancy and Birth Outcomes in South African WLH

Thokozile R. Malaba, Clive Gray, Tariq Webber, Hlengiwe Madlala, Berenice Alinde, Landon Myer, Marie-Louise Newell, for the PIMS Study Group

TUESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

1003



Antiretroviral Drugs Disrupt Macrophage Function and Vascular Development

Doty B. A. Ojwach, Daniel Simpkin, Justin Duruanyanwu, Tariq Webber, Portia Manngo, Berenice Alinde, Paola Campagnolo, Siamon Gordon, Fernando Martinez Estrada, Clive Gray

1004



Antiretroviral Drugs Affect the Placental Vasculature

Micah Summerlin, Christine A. Adalikwu, Aida M. Jemal, Baojin Yao, Emma G. Foster, Surendra K. Shukla, Nicole Liu, Anushka Sajja, Balasrinivasa R. Sajja, Yutong Liu, Lynda K. Harris, Benson Edagwa, Howard Gendelman

Poster Session-P2 | Exploring the Pediatric Reservoir

2:30 PM - 4:00 PM • Poster Hall

1030

Long-Term HIV Reservoir Dynamics in Early Treated Thai Children

Marta Massanella, Amélie Pagliuzza, Caroline Dufour, Thidarat Jupimai, Supranee Buranapraditkun, Rapisa Nantanee, Julie Mitchell, Mark S. Souza, Piyarat Suntarattiwong, Lydie Trautmann, Remi Fromentin, Thanyawee Puthanakit, Nicolas Chomont, for the HIVNAT209 Study Group

1031



NK Cell KIR Education Is Associated With Low HIV DNA Load in Early ART-Treated Children

Nicholas G. Herbert, Gabriela Z. L. Cromhout, Nomonde Bengu, Maria C. Puertas, Javier Martinez-Picado, Thumbi Ndung'u, Dimitra Peppas, Philip Goulder

1032

Evolving Expression of Co-Inhibitory Receptors and Plasma Cytokines in Children Living With HIV

Hinatea Dieumegard, Mojahidul Islam, Hadiya Johnson, Jade Canape, Madeleine Aby Diallo, Fatima Kakkar, Ari Bitnun, Jason Brophy, Stanley Read, Michael T. Hawkes, Rafick P. Sekaly, Ann M. Chahroudi, Ashish A. Sharma, **Hugo Soudeyns**, for the EPIC4 Study Group

1033

Proviral HIV-1 DNA Below Detection in Early-Treated Adolescents After Prior Treatment Interruption

Louise Kuhn, Kavidha Reddy, Chantal Molechan, Kennedy Otworld, Ana Barrios, Shaun Barnabas, Thanyawee Puthanakit, Diana Rutebarika, Tacilta Nhampossa, Maria G. Lain, Almoustapha Maiga, Moira Spyer, Paolo Palma, Mathias Lichterfeld, Mark Cotton, for the CARMA-Global Study Team of the EPIICAL Consortium

1034

Pediatric ART Interruptions Transiently Raise HIV DNA Without Large Changes to Long-Term Reservoirs

Daniel B. Reeves, Morgan Litchford, Carolyn Fish, Noah Cassidy, Agnes Langat, Daisy Chebet, Helen Moraa, Jennifer Slyker, Sarah Benki, Julie Overbaugh, Dalton Wamalwa, Grace John-Stewart, Joshua T. Schiffer, Dara A. Lehman

1035

Children With Very Early ART and Favorable Profiles for ART-Free Viral Control Research: Thai Cohort

Rapisa Nantanee, Suvaporn Anugulruengkitt, Wipaporn Natalie Songtaweasin, Supranee Buranapraditkun, Amélie Pagliuzza, Marta Massanella, Jinnaphak Seesuksai, Monta Tawan, Thidarat Jupimai, Siriwat Akapirat, Sasiwimol Ubolyam, Julie Mitchell, Nicolas Chomont, Lydie Trautmann, Thanyawee Puthanakit, for the HIVNAT209 Study Group



1036 Association Between HIV-Specific Antibodies and HIV Reservoir Markers in Early-Treated Children
Rapisa Nantanee, Suvaporn Anugulruengkitt, Wipaporn Natalie Songtaweessin, Siriwat Akapirat, Supraanee Buranapraditkun, Amélie Pagliuza, Marta Massanella, Jinnaphak Seesuksai, Monta Tawan, Thidarat Jupimai, Sasiwimol Ubolyam, Julie Mitchell, Nicolas Chomont, Lydie Trautmann, Thanyawee Puthanakit, for the HIVNAT209 Study Group

1037 Baseline Viral Load Impacts Premature Aging in Infants With Perinatally Acquired HIV in EARTH Cohort
 **Maria Raffaella Petrara**, Elena Ruffoni, Giuseppe Rubens Pascucci, Elena Morrocchi, Francesco Carmona, Nicola Cotugno, Paolo Rossi, Silvia Giunco, Carlo Giaquinto, Paolo Palma, Anita De Rossi, for the EPIICAL Consortium

Poster Session-P3 | Informing Cure Strategies in Children and Youth

2:30 PM - 4:00 PM • Poster Hall

TUESDAY

1038 Negative HIV Serology in Children Treated Early Reflects a Unique Immunologic Profile
Florence Buseyne, Caroline Charre, Josiane Warszawski, Jerome Le Chenadec, Thomas Montange, Ingrid Fert, Adeline Duretz, Elise Gardienet, Stéphane Blanche, Catherine Dollfus, Marie-Dominique Tabone, Albert Faye, Pierre Frange, Véronique Avettand-Fenoël, for the ANRS-MIE-EP59-CLEAC Study Group

1039 Distinct Innate Immune-Driven TNF α Pathway Is Linked With Durable ART-Free Aviremia in Pediatric HIV
 **Nicholas Lim**, Gabriela Z. L. Cromhout, Philip Goulder, Emily Adland, Alex K. Shalek, Nomonde Bengu, Vinicius Vieira

1040 Germline-Targeting SOSIP Trimer Immunizations Reduced Post-Rebound SHIV Loads in Infant Macaques
 Aiquan Chang, Nicole Soo, Tracy Ordonez, Olusola Omonije, Shilpi Pandey, Genevieve G. Fouda, Ann Hessell, Mauricio A. Martins, Nancy L. Haigwood, Sallie Permar, **Ria Goswami**

1041 Immune Correlates of Viral Rebound During Broadly Neutralizing Antibody Treatment in Children
 **Melanie Lancien**, Aischa Niesar, Seohyun Hong, Leah Carrere, Ajibola Gbolahan, Terence Mohammed, Shahin Lockman, Ce Gao, Sikhulile Moyo, Bryan S. Nelson, Michael Hughes, Xu G. Yu, Daniel Kuritzkes, Roger Shapiro, Mathias Lichterfeld

1042 HIV-Specific T-Cell Dynamics in Acute-Treated, Chronic-Treated, and Elite Controller People With HIV
 **Alicer K. Andrew**, Xiaoyu Luo, Jason Neidleman, Michael Peluso, Rebecca Hoh, Steven G. Deeks, Sulggi Lee, Steven Yukl, Nadia R. Roan

1043 Transcriptomics of Proviral Latency Reversal in Reservoirs of Youth With Perinatal HIV-1
 **Kristen Kelly**, Adit Dhumakupt, Kedi Le, Weiqiang Zhou, Hongkai Ji, Joseph Szewczyk, Ya Hui Chen, Elise Ohene-Kyei, Thuy Anderson, Allison Agwu, Deborah Persaud

Poster Session-P4 | Pharmacokinetics, Safety, and Efficacy of Antiretrovirals

2:30 PM - 4:00 PM • Poster Hall

1044 Maternal Antiretroviral Formulation Preferences for Neonates

Charlene Purdy, **Lario Viljoen**, Verah N. Luke, Samantha du Toit, Maria Groenewald, Lindee Ganger, Anneke C. Hesselning, Anthony Garcia-Prats, Tim Cressey, Adrie Bekker

1045 Acceptability of a Dolutegravir Dispersible Tablet and a Novel Oral Film Formulation in Neonates

Lario Viljoen, Charlene Purdy, Verah N. Luke, Samantha du Toit, Maria Groenewald, Lindee Ganger, Anneke C. Hesselning, Anthony Garcia-Prats, Tim Cressey, Adrie Bekker

1046 Safety and Pharmacokinetics of Long-Acting Cabotegravir and Rilpivirine in Children 20 to 40 kg

Moherndran Archary, Jorge Pinto, Edward P. Acosta, Amy Cheung, Thomas Kakuda, Ellen Townley, Jack Moye, Ryan Milligan, Rachel Scheckter, Gaerolwe Masheto, Pradthana Ounchanum, Linda Aupibul, Lee Fairlie, Edmund Capparelli, for the CRAYON/IMPAACT 2036 Study Team

1047 PK and Safety of Chronic Dolutegravir Administration in Neonates Exposed to HIV-1 (IMPAACT 2023)

Jeremiah Momper, Hardik Chandasana, Jiajia Wang, Benjamin Johnston, Sarah Bradford, Dwight E. Yin, Tara Deyampert, Ann M. Buchanan, Edward P. Acosta, Mark Mirochnick, Kathleen Powis, Diana F. Clarke, for the IMPAACT 2023 Protocol Team

1048 Alternative Dosing of ABC/3TC Dispersible Tablets to Align With Dolutegravir Dosing in Neonates

Navarat Panjasawatwong, Adrie Bekker, Helena Rabie, Samantha du Toit, Maria Groenewald, Nicolas Salvadori, Kanchana Than-in-at, Edmund Capparelli, Ratchada Cressey, Marc Lallemand, Mark Cotton, **Tim Cressey**, for the PETITE Study Team

1049 Week 24 Outcomes of F/TAF Plus Cobicistat-Boosted Protease Inhibitors in Children ≥ 2 y and ≥ 14 kg

Hilda A. Mujuru, Renate Strehlau, Pope Kosalaraksa, Jaime G. Deville, Meiling Pan, Vinicius Adriano Vieira, Kathryn Kersey, Natella Rakhmanina

Poster Session-Q01 | The HIV Care and Prevention Cascades: Novel Insights

2:30 PM - 4:00 PM • Poster Hall

1076 Low Rates of HIV Pre-Exposure Prophylaxis Prescriptions Among US Youth in a Claims Database

Nicholas Venturelli, Douglas Krakower, Laura Garabedian

1077 Oral and Injectable PrEP Use Among US Adolescents and Young Adults, 2019-2023

Laura M. Mann, Weiming Zhu, Ya-Lin A. Huang, Karen W. Hoover

1078 Durable Viral Suppression Using Different Definitions in a Ryan White HIV Program Clinic, 2018-2021

Kathleen A. McManus, Karen Diepstra, Theresa Chen, Andrew Strumpf, Sarah Ratcliffe, Daniel Westreich, Elizabeth T. Rogawski Mcquade

1079 Characteristics of Men Who Have Sex With Men Recruited via Virtual- v In-Person Venue-Based Sampling



Danielle Lonbong Njiometio, Julie Berg, Catlainn Sionean, Amy Baugher, for the NHBS Study Group

1080 Identifying Effective Recruitment Strategies to Engage Black Sexual Minority Men Living With HIV



Derek Dangerfield II, Rodman Turpin, DeMarc Hickson

1081 Refining Clinical Retention Metrics to Reflect the Realities of HIV Care in North America

Amber J. Hackstadt, Elisa S. Yazdani, Alicia R. Rector, Kelly Gebo, Catherine Lesko, Michael Horberg, Lauren Zalla, Heidi M. Crane, Jessie K. Edwards, Joseph J. Eron, M. John Gill, Mona Loutfy, Brenna C. Hogan, Keri N. Althoff, **Peter F. Rebeiro**, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

1082 Neighborhood Resources and ARV Adherence Among Partnered US GBMSM: Mediation by Social Determinants



Loren Dobkin, Luis Parra, Alison Walsh, Erin Kahle

1083 Geographically Diverse National Survey of People With HIV on Grindr Shows High Virologic Suppression



Hannah R. Schmidt, Megan J. Heise, Kevin Sassaman, Alexa D'Angelo, Tyler Martinson, Shivani Mahuvakar, Dustin Duncan, Keith J. Horvath, Sabina Hirschfield, Renessa Williams, Mallory O. Johnson, Christian Grov, Adam Carrico, Monica Gandhi, Matthew A. Spinelli

1084 Viral Nonsuppression Among PWH Diagnosed at an Older Age: Implications for Secondary HIV Prevention



Lauren O'Connor, Anne Monroe, Rachel Denyer, Amanda D. Castel, Many Magnus, for the DC Cohort Executive Committee

1085 Changes in the HIV Care Cascade and Prevalence From 2013 to 2023 in Rural Kenya and Uganda in SEARCH

Gabriel Chamie, Colette Aoko, Helen Sunday, George Agengo, Wafula E. Mugoma, Matt Hickey, Douglas Black, John Schrom, Elijah Kakande, Jane Kabami, James Ayieko, Maya Petersen, Diane V. Havlir, Moses Kamya, Laura Balzer, for the SEARCH Consortium

1086 High Burden of Untreated HIV in Malawian Fishermen: Prospective Data From a Cluster Randomized Trial

Augustine T. Choko, Kathryn L. Dovel, Sekeleghe Kayuni, Donaldson Conserve, Anthony Butterworth, Amaya Bustinduy, J. Russell Stothard, Wala Kamchedzera, Madalo Mukoka-Thindwa, James Jafali, Peter MacPherson, Katherine Fielding, Nicola Desmond, Liz L. Corbett

1087 PMTCT and KP Appropriate Services Improve HIV Viral Suppression Among Female Sex Workers: IBBSS 2023

Ikuzo Basile, Zephania Nzeyimana

1088 Unique Predictors of Retention and Viral Suppression Among People With HIV in Dominican Republic

Wilfredo R. Matias, **Karol Reyes**, Maria I. Curiel, Rairis A. Morrison, Maria L. Garcia, Carlos Adon, Louise C. Ivers

1089 Higher Baseline CD4 and Treatment Initiation Among Contacts of PLHIV: Thailand, 2020-2023

Junya Danyuttapolchai, Suchada Jiamsiri, Plearnpit Prommali, Jennifer Favaloro, Yutthapoom Sriksamjean, Usanee Kritsanavarin, Sumet Ongwandee, Suthat Chottanapund, Cheewanan Lertpiriyasuwat, Somboon Nookhai, Sanny Northbrook

Poster Session-Q06 | Race/Ethnicity and HIV

2:30 PM - 4:00 PM • Poster Hall

1111 Temporal Variations of Racial Disparities in HIV Incidence in the United States From 2008 to 2021



Jingwen Zuo, **Fanghui Shi**, Xiaoming Li, Xueying Yang

1112 WITHDRAWN

1113 WITHDRAWN

1114 WITHDRAWN

1115 Changes of Racial Disparities in Viral Suppression in People With HIV, 2013-2020

Xueying Yang, Cuihong Huang, Chen Zhang, Fanghui Shi, Jiajia Zhang, Bankole Olatosi, Sharon Weissman, Xiaoming Li

1116 Effect of the Ending the HIV Epidemic (EHE) Initiative on Racial/Ethnic Disparities in HIV Incidence



Lauren Zalla, Melissa Schnure, Andrew Zalesak, Zoe Dansky, David W. Dowdy, Maunank Shah, Catherine Lesko, Anthony Todd Fojo

1117 Studying Medication Adherence for Black People Living With HIV: An Intersectional Lens



Anais Mahone, Ayse Akincigil

1118 HIV Testing Barriers in Structurally Vulnerable Communities in St Louis: Best-Worst Scaling Survey

Noelle Le Tourneau, Emmanuel Tettah, Mckenzie Swan, Greg Gross, Todd Combs, Tyrell Manning, Virginia McKay

1119 WITHDRAWN



1120 Racial/Ethnic and Regional Disparities in HIV Testing Before, During, and After COVID-19 in the US

Haishan Yang, Jerrod Anzalone, Eric G. Hurwitz, Bohdan Nosyk, **Rena C. Patel**, Zang Xiao

Poster Session-Q07 | Incident HIV Infection

2:30 PM - 4:00 PM • Poster Hall

1121 Estimated HIV Incidence in 15-24-Year-Olds Across 2 Population HIV Impact Assessments (PHIA)

Chloe A. Teasdale, Rebecca A. Zimba, Andrea Low, Harriet Nuwagaba-Biribonwoha, Felix Ndagije, Lyson Tenthani, Owen Mugurungi, Philip Kreniske, **Elaine Abrams**

1122 HIV Incidence and Viral Suppression Among Ugandan Males With Female Bar and Sex Worker Partners



Xinyi (Cindy) Feng, Gertrude Nakigozi, Caitlin E. Kennedy, Fred Nalugoda, Godfrey Kigozi, Robert Ssekubugu, Larry W. Chang, Andrea L. Wirtz, Arthur Fitzmaurice, Grace Kigozi, Ronald Galiwango, Steven J. Reynolds, Aaron A. R. Tobian, Joseph Kagaayi, M. Kate Grabowski

1123 HIV Incidence Among Adults With Multiple Sex Partners in Kisumu County, Western Kenya

John Owuoth, Chiaka Nwoga, Valentine Sing'Oei, Adam Yates, June Otieno, Erica Broach, Qun Li, Zebiba Hassen, Michelle Imbach, Mark Milazzo, Tsedal Mebrahtu, Merlin Robb, Julie Ake, Christina S. Polyak, **Trevor Crowell**, for the RV393 Study Group

1124 Contact Investigation of Incident HIV in a Population Cohort: Implications for Case Finding and PrEP



Robert Ssekubugu, Aleya Khalifa, Griffin J. Bell, Josephine Mpagazi, Laura Beres, Anthony Ndyababo, Godfrey Kigozi, Hadijja Nakawooya, Gertrude Nakigozi, Ronald Galiwango, Caitlin E. Kennedy, Steven J. Reynolds, Joseph Kagaayi, Larry W. Chang, M. Kate Grabowski

1125 Uncovering Risk for Recent HIV Infections in 9 Provinces: Thailand, 2023-2024

Theerawit Tasaneeyapan, Benjawan Roudreo, Suvimon Tanpradech, Thitipong Yingyong, Supiya Jantaramanee, Panupit Thiengtham, Apiratee Kanphukiew, Wolfgang Hladik, Jennifer Favaloro, Michael Martin, Chunfu Yang, Bharat Parekh, Sanny Northbrook

1126 Recent HIV Infection Among Youth in Thailand: Who Is at Risk?

Suvimon Tanpradech, Benjawan Roudreo, Theerawit Tasaneeyapan, Thitipong Yingyong, Sanny Northbrook, Jennifer Favaloro, Supiya Jantaramanee, Apiratee Kanphukiew, Panupit Thiengtham

1127 New HIV-1 Diagnoses Among Different Generations of MSM in the Netherlands: Focus on Gen-Z

Daniela Bezemer, Ard van Sighem, Newton Otecko, Danja Sarink, Laura Koster, Matthijs Welkers, Thijs van der Laar, Jeroen van Kampen, **Annemarie M. J. Wensing**, Marc van der Valk, for the ATHENA Cohort

- 1128 Development of an HIV Risk Prediction Model Using Electronic Health Record Data in Spain**
 Maria L. Alamillo, Miguel García-Deltoro, Juan González del Castillo, Yesika Díaz, Maria Sainz, Domingo Mérida, Carolina Terrisse, Antonio Castro, **Arkaitz Imaz**, José L. Enríquez, Miguel León, Inma Jarrin
- 1129 Trend in the Proportion of Recent HIV Infections by Risk, Age, and Region in Armenia (2018-2022)**
 Lev Zohrabyan, **Tamara Hovsepyan**, Vardan Arzakanyan, Spartak Petrosyan
- 1130 Examining PopART Intervention Impact on HIV in the General Populations of Zambia and South Africa**
Bonnie Shook-Sa, Paul N. Zivich III, Stephen R. Cole, Nora E. Rosenberg, Deborah J. Donnell, Sizulu Moyo, Khangelani Zuma, Joseph J. Eron, Richard Hayes, Jessie K. Edwards

Poster Session-Q08 | Advanced HIV

2:30 PM - 4:00 PM • Poster Hall

- 1131 Addressing Advanced HIV Disease: Insights on CD4 Testing and AHD Prevalence at PEPFAR Sites**
Gabriel Saemisch, Karishma Srikanth, Thomas Minior, Jessica Stephens, Deidra Parrish, Nelly Maina, Samantha Serrano
- 1132 Trends in Advanced HIV Disease Prevalence in 5 African Countries: An Analysis of Household Surveys**
 Dominik Stelzle, Ajay Rangaraj, Joseph N. Jarvis, George Perrin, Nomthandazo Lukhele, Sirak Hailu Bantiewalu, Mugagga Kaggwa, Mkhokheli Ngwenya, Daniel Low-Beer, Meg Doherty, Nathan Ford, Shona Dalal
- 1133 Advanced HIV Disease in Individuals Already in Care: Incidence and Comparison With Late Presentation**
Andrea Antinori, Ashley Roen, Alessandro Cozzi-Lepri, Andrea Giacomelli, Annalisa Saracino, Antonio Di Biagio, Carlo Torti, Davide Checchi, Massimo Puoti, Eugenia Quiros-Roldan, Silvia Nozza, Sergio Lo Caputo, Enrico Girardi, Annalisa Mondì, for the Icona Foundation Study Group
- 1134 The Effect of Treat-All on People With Advanced HIV Disease in Lesotho**
 **Shanyah L. Mitchell**, Craig J. Heck, Daniela Quigee, Sara Wallach, Jason Zucker, Shannon Farley, Andrea Howard, Magdalena E. Sobieszczyk, Felix Ndagijje, Jessica E. Justman, Wafaa El-Sadr, Delivette Castor
- 1135 Burden of AIDS-Defining Conditions Among Adults With Perinatal HIV in North America, 2000-2022**
 **Nel Jason Haw**, Catherine Lesko, Derek Ng, M. John Gill, Maile Karris, Michael Horberg, Heidi M. Crane, Mona Loutfy, Kathleen McGinnis, Richard Moore, Allison Agwu, Keri N. Althoff, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

1136



C-Reactive Protein as a Predictor of Hospitalization and Mortality in Advanced HIV Disease in Uganda

Elizabeth L. Schwartz, Ann M. Fieberg, Biyue Dai, Caleb Skipper, David R. Boulware, David B. Meya, Elizabeth K. Nalintya, Radha Rajasingham, for the ENCORE Team

Poster Session-Q09 | Sexual Partner, Sexual Risk

2:30 PM - 4:00 PM • Poster Hall

1137

Vaginal and Anal Intercourse With Women Reported by Men Who Have Sex With Men, 2015-2019

Katrina M. Byrd, Weiming Zhu, Wei Wei, Ya-Lin A. Huang, **Karen W. Hoover**

1138

WITHDRAWN

1139



Geospatial Heterogeneity in Potential HIV Transmission Locations Among MSM in Bhopal, India

Griffin J. Bell, Steven J. Clipman, Allison M. McFall, Talia A. Loeb, Jiban J. Baishya, Ashwini Kedar, Archit Sinha, A. K. Srikrishnan, Boobalan Jayaseelan, Gregory M. Lucas, Sunil S. Solomon, Shruti H. Mehta

1140

Age-Stratified Sexual Partner Profiles to Characterize HIV Risk Across Lifespan: Botswana and Zambia

Kristen A. Stafford, Divya Hosangadi, Hope Sabao, Kesalefa Elliam, Billy Tsima, Wilbroad Mutale, Lloyd Mulenga, Bonaparte Nkomo, Chola Nakazwe, Susan Matroos, Ndwapi Ndwapi, Lillian Okui, Magen Mutepe, Stella Keipeile, Meagan Fitzpatrick, for the EPI-PLAN-HIV Study Group

1141

Couples-Based Homophily in HIV Testing and Treatment Engagement: A Multicountry Analysis

Kathryn Risher, Patrick Janulis, Augustine T. Choko, Stéphane Helleringer, Michelle Birkett

1142



HIV Prevalence in Intersecting Subgroups of Southern African Women: Insights From PHIA

Craig J. Heck, Daniela Quigee, Sara Wallach, Jason Zucker, Kavitha Ganesan, Shanyah L. Mitchell, Sarah Wiant, Shannon Farley, Magdalena E. Sobieszczyk, Andrea Howard, Jessica E. Justman, Wafaa El-Sadr, Delivette Castor

1143

Utilization of Assisted Partner Notification Services and Outcomes: A Population-Based Study

Nakawooya Hadijja, Victor Ssempijja, Robert Ssekubugu, Fredrick E. Makumbi, Tom Lutalo, Larry W. Chang, David Serwadda, Steven J. Reynolds, Gertrude Nakigozi, M. Kate Grabowski, Godfrey Kigozi

TUESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

Poster Session-R2 | Improving HIV Testing in Clinical Settings

2:30 PM - 4:00 PM • Poster Hall

- 1183 Effectiveness of Clinical Decision Support in Improving HIV Screening in Pediatric Primary Care**
Sarah Wood, Gabrielle Difiore, Mary Kate Kelly, Stephanie Mayne, Gregory Lawton, Anthony Luberti, Angela Raposselli, Haley Richardson, Robert Gross, Alexander Fiks, Brian Jenssen
- 1184 Impact of a New Opt-In Targeted Strategy for HIV Testing in Emergency Departments**
Jose Guardiola, Miriam Carbo, Emilia Miro, Juan Carlos Hurtado, Agustin Avila, Neus Robert, Gemma Fernandez Ribas, Jordi Llaneras, Ariadna Rando, Elisenda Miro, Laia Sentis, Juan González del Castillo, Oscar Miro, for the Urgencias VIHgila Project
- 1185 Validation of a National HIV Testing Eligibility Screening Tool in Tanzania**
Galal N. King'ori, Robert Nelson, Steve J. Gutreuter, Amy Medley, Catherine J. Nnko, Frank Msangi, Joyce Thomas, James J. McOlogi, Moses Bateganya, Zeye M. Nkomela, Upendo Kategile, George S. Mgomella, Neema Mlole, Oscar E. Rwabiyago
- 1186 Transfusion Risk of HIV, HBV, and HCV in Low- and Middle-Income Countries Without Nucleic Acid Testing**
Jodie L. White, Dorothy Kyeyune-Bwabazaire, Ezra Musisi, Paula Saa, Jamel Groves, Jeffrey M. Linnen, Ronnie Kasirye, Irene Lubega, Thomas C. Quinn, Heather A. Hume, Evan M. Bloch, Susan L. Stramer, Mary G. Fowler, Philippa Musoke, Aaron A. R. Tobian
- 1187 Clinical Features Are Poor Identifiers of Advanced HIV Disease in the Absence of CD4 Quantification**
 **Phoebe Allebone-Salt**, Thomas S. Harrison, Nelesh P. Govender, Joseph N. Jarvis, Rachel Wake
- 1188 HIV Recent Infection Surveillance Adds 17 Minutes to HIV Testing Services per Patient With HIV**
 Kiely Flynn, **Suzue Saito**, Eugenie Poirot, Jean Claude Irabona, Collins Kamanzi, Vusumuzi Maliwa, Cebisile Ngcamphalala, Samkelo Simelane, Tom Oluoch, Pasipamire Munyaradzi, Monita Patel, Gallican N. Rwibasira, Lenhle Dube, Harriet Nuwagaba-Biribonwoha
- 1189 Missed Opportunities: HIV Screening Deficits in Japanese Syphilis Patients**
Toshibumi Taniguchi, Kazutaka Yamagishi, Misuzu Yahaba, Hiroshi Yoshikawa, Hidetoshi Igari
- 1190 Machine Learning Risk Stratification Compared With a Counselor-Guided Screening Tool**
Daniel G. Wandina, Emmanuel K. Maingi, Sharon M. Minyatta, Denice O. Juma, Judah M. Musau, Robert Osoi Osoi, Moses K. Kitheka, Edmod O. Obat

Poster Session-S3 | Biomarkers and Technology to Support PrEP Use

2:30 PM - 4:00 PM • Poster Hall

- 1211 Self-Reported PrEP Use Is Associated With Short- and Long-Term Pharmacologic Metrics in Kenyan Women**
Jennifer Velloza, Deepalika Chakravarty, David Glidden, Gakuo Maina, Charlene Biwott, Catherine Kiptinness, Matthew A. Spinelli, Hideaki Okochi, Purba Chatterjee, Erica Sedlander, Nelly Mugo, Kenneth Ngure, Monica Gandhi
- 1212 Point-of-Care Urine Tenofovir Feedback Counseling Improves PrEP Adherence for US MSM in Pilot RCT**
Matthew A. Spinelli, Leah Davis Ewart, Emily Ross, Megan J. Heise, Renata Buccheri, Shivani Mahuvakar, David Glidden, K. Rivet Amico, Emily Arnold, Guohong Wang, Hideaki Okochi, Jennifer Manuel, Susan Buchbinder, Adam Carrico, Monica Gandhi
- 1213 Oral Fluid Concentrations of Tenofovir and Emtricitabine for Antiretroviral Adherence Monitoring**
 **Xin Niu**, Eric Edwards, Jeannette Dienhart, Richard Haaland, Orphan Siriprakaisil, Pra-Ornsuda Sukrakanchana, Tim Cressey, Paul Drain
- 1214 Are Sex-Specific Cutoffs Needed With a Next-Gen Urine Tenofovir Assay for Adherence Monitoring?**
 **Xin Niu**, Derin Sevenler, Sandy Dossantos, Mehmet Toner, Rebecca Sandlin, Orphan Siriprakaisil, Pra-Ornsuda Sukrakanchana, Tim Cressey, Paul Drain
- 1215 Technology-Based Oral Daily Pre-Exposure Prophylaxis Intervention for Online Population in India**
Jalpa Thakker, Sunil S. Solomon, Dinesh Kumar, Jade Bell, Allison M. McFall, Rifa T. Khan, Subash Gosh, Viswanathan Arumugam, Jagadish Patil, Latika Karve, Kanchan Pawar, Conjeevaram K. Vasudevan, Anthony Reddy, Deepak Naren, Sukhvinder Kaur

Poster Session-S4 | Barriers to Uptake and Persistence With Biomedical Prevention

2:30 PM - 4:00 PM • Poster Hall

- 1216 Suboptimal Laboratory Testing of PrEP Users: United States, 2022-2023**
 **Karen W. Hoover**, Weiming Zhu, Ya-Lin A. Huang, Laura M. Mann, Rupa Patel, Athena Kourtis
- 1217 Factors Associated With PrEP Uptake, Persistence, and Adherence Among Incarcerated People in Zambia**
Brianna R. Lindsay-Renninger, Cassidy W. Claassen, Muyunda Siyambango, Linah K. Mwango, Caitlin Baumhart, Nasho Nyirongo, Morley Mujansi, Clement Moonga, Godfrey Muchanga, Chiti Bwalya, Monica Gandhi, Maurice Musheke, Michael E. Herce

- 1218 Trends in 2016 CDC-Recommended PEP Regimens and Bictegrovir for HIV PEP: United States, 2015-2023**
John Le, Weiming Zhu, **Ya-Lin A. Huang**, Jesse O'Shea, Laura M. Mann, Karen W. Hoover, Athena Kourtis, Mary Tanner
- 1219 Impact of Initiation Delay, Duration, and Prior PrEP Usage on FTC/TDF-Containing PEP Efficacy**
Max von Kleist, **Lanxin Zhang**, Julie Fox, Simon Collins
- 1220 Impact of the Anti-Homosexuality Act 2024 on HIV Prevention Efforts and PrEP Uptake Among Young MSM**
Cecilia Birungi, Ashraf O. Waziri
- 1221 Cost-Effectiveness of Different Risk-Group Targeting Across 3 Types of PrEP in Zimbabwe**
Mellesia Jeetoo, **Yao-Rui Yeo**, Dyanna Charles, Jasmine Su, Owen Mugurungi, Tsitsi Apollo, Getrude Ncube, Ngwarai Sithole, Karen Webb, Kudakwashe Takarinda, Emily Gwavava, Bekezela Bobbie Khabo, R. Scott Braithwaite
- 1222 Leveraging Community to Provide PrEP to Key Population in China: Results From a PrEP Clinical Trial**
Weiming Tang, Yifan Dai, Chengxin Fan, Chunyan Li, Songjie Wu, Quanmin Li, Joseph D. Tucker, Jonathan Lio, Haojie Huang, Ke Liang, Linghua Li, Aniruddha Hazra, Renslow Sherer, Zhuoheng Yin
- 1223 Longer Distances Traveled by Rural vs Urban PrEP Users for PrEP Care: United States, 2023**
Weiming Zhu, Laura M. Mann, Rupa Patel, Ya-Lin A. Huang, Karen W. Hoover
- 1224 Pre-Exposure Prophylaxis Uptake in High Female-to-Male HIV Prevalence Regions in the US**
 **Ashvini Vaidya**, Lauren F. Collins, Anandi N. Sheth, Jessica M. Sales, Daniel Westreich
- 1225 Self-Reported Frequent vs Infrequent HIV Risk and Actual Diagnoses in MSM: Implications for PrEP**
Nicolas Salvadori, Suwalai Chalermpanmetagul, Sirintip Piyarad, Sawitree Chairahaeng, Sumet Ongwandee, Jullapong Achalapong, Surachet Arunothong, Pra-Ornsuda Sukrakanchana, Woottichai Khamduang, Nicole Ngo-Giang-Huong, Jean Yves Mary, Sakorn Pornprasert, Gonzague Jourdain
- 1226 The Influence of Racialized Economic Segregation on Unmet HIV Prevention Needs in the Real World**
Li Tao, Juan Yang, Chris Nguyen, Joshua Gruber, Kristin Baker, Woodie Zachry
- 1227 The County-Level Analysis of PrEP-to-Need Ratio With HIV Diagnosis in the US, 2012-2021**
Guohan Xia, **Xueying Yang**, Fanghui Shi, Xiaoming Li

Poster Session-S5 | PrEP Implementation: Hopes, Dreams, and Aspirations

2:30 PM - 4:00 PM • Poster Hall

1228



Diagnosis, Resistance, and ART Outcomes After HIV Acquisition on CAB-LA PrEP in Routine Care in US

Catherine A. Koss, Monica Gandhi, Elias Konstantine Halvas, Hideaki Okochi, Lisa Georgetti Gomez, Amy Heaps, Amit (Mickey) Dhir, Aniruddha Hazra, Jessica A. Altamirano, Prerak Shukla, Hussein Safa, Christopher Bositis, Carolyn Chu, John W. Mellors, Urvi M. Parikh, for the SeroPrEP Study Team

1229

The Cost-Effectiveness and Optimal Price Level of Injectable PrEP With Lenacapavir in South Africa

Lise Jamieson, Leigh F. Johnson, Linda-Gail Bekker, Hasina Subedar, **Gesine Meyer-Rath**

1230

PURPOSE 1: Preference for Twice-Yearly Injection vs Daily Oral Pills for HIV PrEP in Cisgender Women

Leila E. Mansoor, Joanne Batting, Noah Kiwanuka, Elizabeth Spooner, Dylan Mezzio, Pamela Wong, Alexander Kintu, Christoph Carter, Thesla Palanee-Phillips

1231

Characteristics of Persons Diagnosed With HIV in a Population-Based PrEP Program in British Columbia

K. Junine Toy, **Raquel M. Espinoza**, Jason Trigg, Wendy Zhang, Erin Ready, Paul Sereda, David Moore, Rolando Barrios, Julio S. G. Montaner

Poster Session-T3 | Understanding HPV

2:30 PM - 4:00 PM • Poster Hall

1261

Probability of Anal Human Papillomavirus Infection Following Acute HIV Acquisition in Thailand

Supanat Thitipatarakorn, Sujittra Suriwong, Siriporn Nonenoy, Aphakan Klinasukontakul, Sumitr Tongmuang, Piranun Hongchookiat, Napasawan Chinlaertworasiri, Pravit Mingkwanrungruang, Reshmie Ramautarsing, Nipat Teeratakulpisarn, Nittaya Phanuphak

1262

Incidence and Clearance of Anal Human Papillomavirus Infection in an Acute HIV Cohort in Thailand

Supanat Thitipatarakorn, Sujittra Suriwong, Siriporn Nonenoy, Aphakan Klinasukontakul, Jirat Makphol, Piranun Hongchookiat, Thanyapat Chaya-Ananchot, Napasawan Chinlaertworasiri, Pravit Mingkwanrungruang, Reshmie Ramautarsing, Nipat Teeratakulpisarn, Nittaya Phanuphak

1263



HPV Clearance After Immunization: Investigating Risk Factors Associated With Clearance at Anal Site

Elena Bruzzesi, Federica Gandini, Sara Diotallevi, Riccardo Lolatto, Angelo Roberto Raccagni, Caterina Candela, Girolamo Piromalli, Flavia Passini, Massimo Cernuschi, Silvia Aliverti, Paola Striglia, Andrea M. Tamburini, Roberto Burioni, Antonella Castagna, Silvia Nozza

- 1264 Sustained HIV Viral Suppression as a Predictor of High-Risk Human Papillomavirus Infection**
Douglas Gaitho, Silvia Kadima, Isaac Kirui, Daniel Kiptum, Sylvester Kimaiyo

Poster Session-T4 | Global STI Epidemiology

2:30 PM - 4:00 PM • Poster Hall

- 1265 Diagnostic Screening and Treatment of Curable STIs in Pregnancy and Impact on Pregnancy Outcomes**
 **Dorothy C. Nyemba**, Alex de Voux, Rufaro Mvududu, Remco Peters, Sinead Delany-Moretlwe, Leigh F. Johnson, Thomas Coates, Landon Myer, Dvora L. Joseph Davey
- 1266 High Incidence of Curable Sexually Transmitted Infections in HPTN 084: A Tertiary Analysis**
Harriet Nuwagaba-Biribonwoha, Brett S. Hanscom, Daniel Haines, Yaw O. Agyei, Joseph Makhema, Juliet Mpendo, Nyaradzo Mgodi, Victor Mudhune, Jennifer Farrior, Lydia Soto-Torres, James F. Rooney, Alex Rinehart, Mina C. Hosseinipour, Sinead Delany-Moretlwe, for the HPTN 084 Study Team
- 1267 Geospatial Trends of Sexually Transmitted Infections in South Carolina (SC), 2008-2020**
Syeda Shehirbano Akhtar, Bankole Olatosi, Buwei He, Shujie Chen, Jiajia Zhang
- 1268 Depressive Symptoms on the Incidence of Sexually Transmitted Infections Among Reproductive-Age Women**
Paul N. Zivich III, Andrew Edmonds, Michelle Floris-Moore, Catalina Ramirez, Brian W. Pence, Maria L. Alcaide, Deborah L. Jones, Seble Kassaye, Deborah Konkle-Parker, Anandi N. Sheth, Elizabeth F. Topper, Aadia Rana, Daniel Westreich
- 1269 High STI Prevalence and Low Past PrEP Use Among Women Who Engage in Sex Work in Southwestern Uganda**
Jane Kabami, Cecilia Akatukwasa, Jennifer Velloza, Laura Balzer, Hellen N. Atuhaire, Alan Asiimwe, Stella Kabageni, Michael Ayebare, Shem Ankwantiriire, Blian Beinmatsiko, Lisa Georgetti Gomez, Richard Aruho, James F. Rooney, Moses Kanya, **Catherine A. Koss**, for the P4P Study Team
- 1270 Sexually Transmitted Infection Prevalence Among Adolescents and Adults in Western Kenya**
Julius L. Tonzel, Britt Gayle, Natalie Burns, Glenna Schluck, Paul Adjei, Josphat Kosgei, Deborah Langat, Rael Bor, Christine Akoth, Frederick Sawe, Margaret Yacovone, Trevor Crowell, for the Multinational Observational Cohort of HIV and other Infections (MOCHI) Study Group
- 1271 Asymptomatic Sexually Transmitted Infections in a Population of High-Risk Men Who Have Sex With Men**
 **Pierluigi Francesco Salvo**, Antonietta Vella, Valentina Iannone, Giuseppe Cucinotta, Rebecca Jo Steiner, Andrea Carbone, Francesca Lombardi, Simona Di Giambenedetto, Carlo Torti, Gianmaria Baldin

- 1272 Epidemiology of Bacterial STIs in MSM With or At Risk of HIV in the Region of Madrid (2021-2023)**
Luis Ramos, **Juan Berenguer**, Pablo Ryan, Mar Vera, Leire Pérez-Latorre, Ignacio de los Santos, María de Lagarde, Santos del Campo Terrón, Eva Orviz, Beatriz Alvarez, José Sanz, Beatriz Brazal, José M. Bellón, Luz Martín-Carbonero, Juan González-García
- 1273 Identification of Clinical Phenotypes in MSM With HIV From a Prospective Study on Acute HCV and STIs**
Pablo Ryan, **Juan Berenguer**, Luis Ramos, Leire Pérez-Latorre, Ignacio de los Santos, Laura Bermejo Plaza, Santos del Campo Terrón, Eva Orviz, Pilar Ruiz-Seco, Rafael Torres, Juan C. López, Beatriz Brazal, José M. Bellón, Luz Martín-Carbonero, Juan González-García
- 1274 Prevalence and Incidence of HIV/STIs Among MSM and Men Who Have Sex With Women in the SAMURAI Study**
Thesla Palanee-Phillips, **Elizabeth Montgomery**, Ellen Luecke, Nkosiphile Ndlovu, Sihle K. Zulu, Krishnaveni Reddy, Nompumelelo Sigcu, Lindsay Kew, Reolebogile Kgoa, Chayla Hart, Millicent Atujuna, Katherine Gill, Pippa Macdonald, Alexandra Minnis, for the SAMURAI Study Team

Poster Session-U4 | Machine Learning and mHealth
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- 1305 Comparing 2 mHealth Technologies to Support PrEP Use Among MSM and Transgender People in the US**
Albert Y. Liu, David Glidden, Juwonn Moss, Cat-Dancing Alleyne, Janie Vinson, Janet Myers, Kimberly Koester, Stefani Butts, Rikki Montoya, Tommy Sanchez, Jorge Roman, Maria Rybicki-Newman, Susanne Doblecki-Lewis, Hyman Scott, Susan Buchbinder
- 1306 Characteristics of Dapivirine Ring Users in the SEARCH Dynamic Choice HIV Prevention Studies**
Elijah Kakande, Nicole Sutter, Laura Balzer, Douglas Black, Jane Kabami, James Ayieko, Gabriel Chamie, Helen Sunday, Marilyn Nyabuti, Colette Aoko, Catherine A. Koss, Maggie Czarnogorski, Maya Petersen, Moses Kamya, Diane V. Havlir, for the SEARCH Collaboration
- 1307 Machine Learning to Predict Persons With HIV at Risk of Falling Out of Care**
Ravi Goyal, Gordon Honerkamp-Smith, Alan Wells, Susan J. Little, **Thomas Martin**
- 1308 An AI-Powered Preventive Intervention for Stigma and Suicidal Ideation in HIV Self-Management**
Diego S. Villanueva Guzman, Yuanchao Ma, Sofiane Achiche, Kim Engler, David Lessard, Bertrand Lebouche
- 1309 Developing Machine Learning Algorithms to Predict Treatment Interruptions in HIV Care in Uganda**
Alex Mirugwe, Solomon Ssevvume, Edward Bichetero, Alice Namale, Evelyn Akello, Paul Katongole, Rose Baryamutuma, Paul Mbaka, Enos Sande, Arthur Fitzmaurice, Kenneth Musenge

1310



Exposure and Engagement Drive Impact: Results From a Digital Health Trial With Rwandan Adolescents

Rebecca Hemono, Lauren Hunter, Emmyson Gatere, Laetitia Kayitesi, Therese Bagwaneza, Raissa Umutoni, Natacha Mugeni, Stefano Bertozzi, Rebecca Hope, Sandra I. McCoy

1311

Digital Strategy to Improve PrEP Adherence Among MSM: A Stepped-Wedge Randomized Trial in China

Chunyan Li, Zhuoheng Yin, Quanmin Li, Linghua Li, Songjie Wu, Ke Liang, Gifty Marley, Chengxin Fan, Yifan Dai, Haojie Huang, Aniruddha Hazra, Jonathan Lio, Joseph D. Tucker, Renslow Sherer, Weiming Tang

1312



Impact Analysis and Machine Learning Forecasts of HIV Viral Load Suppression in 21 African Countries

Amobi A. Onovo, Melaku Dessie, Gonza Omoro, Sara Herbst

1313



Enhanced Language Models for Predicting and Understanding HIV Care Disengagement

Junzhe Shao, Waverly Wei, Qiuran Lyu, Rebecca Hemono, Xinwei Ma, Joseph Giorgio, Zeyu Zheng, Emmanuel Katabaro, Matilda Mlowe, Amon Sabasaba, Caroline Lister, Siraji Shabani, Prosper Njau, Sandra I. McCoy, Jingshen Wang

Poster Session-U5 | Novel Interventions

2:30 PM - 4:00 PM • Poster Hall

1314

Hair Salons as a Promising Space to Offer HIV Prevention Services for Young Women in Lesotho

Alain Amstutz, Malena Chiaborelli, Pontšo Sekhesa, Madeleine Sehrt, Tsepang Mohloanyane, Meri Hyöky, Donaldson Conserve, Karen Hampanda, **Mamaswatsi Kopeka**, for the Hair SALON Collaborative

1315



Capacity for PrEP Implementation at Pharmacies in Baltimore and San Diego: A Mixed-Methods Study

Lipin Lukose, Iheanyichukwu Samuel Onwubiko, Shanaya Sidhu, Terence Hendrix, Amanda Rosecrans, Gabriel A. Wagner, Sheree Schwartz, Christopher Kemp

1316

Evaluating Spatially Targeted HIV and Harm Reduction Strategies Among People Who Inject Drugs

Jasmine Wang, Steven J. Clipman, Shruti H. Mehta, A. K. Srikrishnan, Shobha L. Mohapatra, Muniratnam S. Kumar, Gregory M. Lucas, Carl A. Latkin, Sunil S. Solomon, Amy Wesolowski

1317

Traditional Healers: A Nontraditional Gateway to Engagement in HIV Care in Rural Uganda

Radhika Sundararajan, Suzanne McCluskey, Denis Nansera, Winnie Muyindike, Juliet Mwanga-Amumpaire, Misha Hooda

1318

Home CAB/RPV Provides Novel Approach to Achieve Viral Suppression in PWH With Adherence Challenges

Megan E. Dieterich, Monica E. Gouzoulis, Keyerra Richardson, Erin E. Kelley, Robert E. Bangert, David A. Fessler, Sarah Henn, Stephen E. Abbott, Namrata P. Shah, Rachel E. McLaughlin, Meghan Davies, H. Jonathon E. Rendina



- 1319 Uptake of Online HIV PrEP and PEP in Kenya After Removal of Subsidies: A Pilot Extension Study**
Daniel K. Were, Albert Tele, Linda U. Nzabamwita, Rouella Mendonca, Geoffrey Odhyambo, Salima Saidi, Samira Abdurashid, Elizabeth Irungu, Kelly Curran, Kaitlyn Atkins
- 1320 Community-Based Versus Facility-Based Services to Improve HIV Care in the Gold Mining Zones of Mali**
 Marion Fiorentino, François M. Cavarro, Moussa Guindo, Aliou Kamissoko, Fodé Traore, Gwenaëlle Maradan, Michel Bourrelly, Marion Mora, Fodié Diallo, Zoumana Diarra, Mamadou Cisse, Bintou Dembele Keita, Bruno Spire, **Luis Sagaon Teyssier**
- 1321 Community FSW Peer Model or HIV Prevention to Reach Epidemic Control and Sustainability: Tanzania**
Neema Makyao, Amos Nyirenda, Mary P. Ngowa, Magreth Kagashe
- 1322 Trial of Enhanced Peer Referral With HIV Self-Testing on PrEP Initiation Among Young Kenyan Women**
Katrina Ortblad, Njeri Wairimu, Carlos Culquichicon, Irene Njeru, Rachel C. Malen, Adriana M. Reedy, Maureen McGowan, Margaret Mwangi, Agata Muthoni, Dorcas Kiboi, Fei Gao, Jared M. Baeten, Kenneth Ngunjiri, for the Peer PrEP Study Team
- 1323 nPEP When You Need It: A 24/7 Post-Exposure Prophylaxis Hotline in the District of Columbia**
Rachel Harold, Jason Beverley, Adam Visconti, Matthew Copeland, Princy Kumar, Leah Lujan, Ashleigh Dunworth, Camilla Stanley, Ronald Beaulieu, Elizabeth Selden, Rebecca N. Kumar, Amanda Spence, Mariam Ayub, Kate Drezner, Christiana Williams
- 1324 HIV Health Care Transition: Five-Year Rates of Retention and Viral Suppression**
 **Camille Knable**, Patrick Ryscavage, Vicki Tepper, Matthew Grant
- 1325 Impact of Differentiated HIV Service Delivery Models on Quality of Life in Uganda**
Benson Nasasira, Grace Banturaki, Nelson Kalema, Joseph Musazi, Aidah Nanvuma, Joanita Kigozi, Nancy Kiarie, Joash Ntenga Moitui, Joseph Kabanda, Arthur Fitzmaurice, Noela C. Owarwo, Damazo Kadengye, Jonathan Izudi, Barbara Castelnovo

Poster Session-U6 | Treatment Continuity

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- 1326 Trends in HIV Viral Nonsuppression and Drug Resistance Among PWID on Dolutegravir ART in Kenya**
Loice W. Mbogo, Ceejay L. Boyce, Stephen E. Hawes, Betsy C. Sambai, Brandon L. Guthrie, William Sinkale, David K. Njenga, Bhavna H. Chohan, Aliza Monroe-Wise, Esther Gitau, Sarah Masyuko, Geoffrey S. Gottlieb, Paul Drain, Lisa M. Frenkel, Carey Farquhar, for the DREAM Kenya Programme

1327



Heterogeneity of Disengagement From Antiretroviral Care Matters for Treatment Success

Claire M. Keene, Jonathan Euvrard, Aaloke Mody, Scott Colwell, Tali Cassidy, Jacob McKnight, Mike English, Ingrid Katz, Catherine Orrell

1328



Patterns of Engagement After Restarting Antiretroviral Treatment in South Africa

Claire M. Keene, Jonathan Euvrard, Aaloke Mody, Scott Colwell, Tali Cassidy, Mike English, Jacob McKnight, Ingrid Katz, Catherine Orrell

1329



Reasons for Discontinuation of Cabotegravir Long-Acting (CAB-LA) Among Clients in Zambia

Damian J. Phiri, Mutinta Nyumbu, Adamson P. Ndhlovu, Lackeby Kawanga, Jemmy Musangulule, Musonda Musonda, Sarah Hatchard

1330

Detection and Linkage of PLWH Who Are Out of Care in 94 Emergency Departments Across the US

Jamie L. Mignano, Hilary Armstrong, Angelique Griffin, Monique Rucker, Carol Vincent, Starr West, Derek Spencer

1331

HIV Treatment Interruptions: A Lorenz Curve Analysis of Countries Achieving the 95-95-95 Targets

Michael J. A. Reid, Matias Grande, Ingrid Katz, Jasmine Buttolph, Emily K. Dokubo, Kiran Rodrigues, Hilary Wolf, **Rituparna Pati**, for the PEPFAR GHSD Research Collaboration

1332



Point-of-Care Urine Self-Testing Feasibility to Measure TFM Adherence and Predict Viral Suppression

Renata Buccheri, Megan J. Heise, Kevin Sassaman, Tyler Martinson, Hannah R. Schmidt, Alexa D'Angelo, Dustin Duncan, Keith J. Horvath, Sabina Hirschfield, Renessa Williams, Mallory O. Johnson, Christian Grov, Adam Carrico, Monica Gandhi, Matthew A. Spinelli

1333

Effect of COVID-19 Pandemic on ART Access and Timely Initiation in Adults With HIV in 31 Countries

Ben Farhat Jihane, Safari Mbewe, Helen Byakwaga, Denis Nash, Eugène Messou, Valdilea Gonçalves Veloso, Sarita Shah, Rohidas Borse, Metsekae Madimabe, Denna Michael Mkwashapi, Gad Murenzi, Oliver Ezechi, Diana Barger, Antoine Jaquet

1334

HIV Treatment Continuity in Haiti: Lorenz Curve Analysis of IIT, 2022-2024

Michael J. A. Reid, Tiana Jaramillo, Lorin Letcher, Hamfrey Sanhokwe, Linda Mattocks

1335

Clinical and HIV Surveillance Data to Determine Care Status for People With HIV in Washington, DC

Shannon Hammerlund, Lauren O'Connor, Lisa Mele, Maria Jaurretche, DeMarc Hickson, Rachel Denyer, Alan Greenberg, Amanda D. Castel, Anne Monroe, for the DC Cohort Executive Committee

1336



Does Retention in Care Still Correlate With HIV Viral Suppression: Do We Need Different Strategies?

Joshua Craft, Olivia Benda, Elton Tang, Shannon Galvin



- 1337 Uptake of Injectable Cabotegravir/Rilpivirine for Treatment of HIV Infection in US, 2021-2023**
Jesse O'Shea, James P. Henson, Abigail Derton, **Athena Kourtis**, Kate Buchacz
- 1338 Comparative Yield of Data Sources for Health Department Data to Care Services**
Julie Dombrowski, Richard Lechtenberg, Jennifer E. Balkus
- 1339 Developing Analytic Strategies to Investigate Long-Acting Injectable Antiretroviral Effectiveness**
Thibaut Davy-Mendez, Valerie Lucas, Joseph J. Eron, Claire Farel, Barbera Jean Turner, Angela Perhac, Sonia Napravnik, **Sarah E. Rutstein**
- 1340 Prevalence of Unsuppressed Viral Load: Comparison of 2016-17 and 2022-23 Tanzania HIV Impact Surveys**
Abbas Ismail, Damian Damian, Prosper Njau, Tepa Nkumbula, Emilian Karugendo, Fahima Issa, Rebecca Laws, Malewo Optatus, George S. Mgomella, Mahesh Swaminathan, Alexander Kailembo, Nicolas Schaad, Sarah Porter



WEDNESDAY, MARCH 12, 2025

POSTER SESSIONS BY DAY

Poster Session-A5 | Antiviral Inhibition of Viral Replication and Evasion by HIV-1

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323 Host Gene SLC35A2 Restricts CXCR4-Tropic HIV-1 Replication at the Stage of Viral Fusion

Jamie Guenthoer, Hannah L. Itell, Julie Overbaugh

324 Novel Strategy to Inhibit HIV by Targeting Integrase/INI1 Interaction Based on the TAR RNA Mimicry

Swati Halder, Updesh Dixit, Emilie Ernst, Rajiv Pathak, Xuhong Wu, Dina Mofed, Vinayaka R. Prasad, David Cowburn, Xiaohe Tong, Asim Debnath, Ganjam V. Kalpana

325 Novel Functions of TRIM21: Post-Translational Regulation of Cytoplasmic Antiretroviral APOBEC3s

Aubrey M. Sawyer, Hannah E. Hudson, Isabelle Clerc, Chisu Song, Richard T. D'Aquila

326 The Effects of Accessory Genes on T/F HIV Infection of Primary CD4+ T Cells From Tissues

Harnoor Virk, Guorui Xie, Xiaoyu Luo, Kailin Yin, Jason Neideman, Ifeanyi Ezeonwumelu, Julie Frouard, Ashley F. George, Daniel Sauter, Frank Kirchhoff, Nadia R. Roan

327 RhoA Restricts HIV-1 by Modulating IFN Signaling and Is Counteracted by Vpr

Caterina Prelli Bozzo, Alexandre Laliberté, Aurora De Luna, Meta Volcic, Helene Hönigsperger, Maximilian Hirschenberger, Denise Clesle, Annika Betzler, Konstantin M. J. Sparrer, Frank Kirchhoff

328 The Role of Capsid-Host Interaction on Lentiviral Evolution

Clare Gill, Molly Ohainle

329 Capsid Mutant HIV-CRISPR Screens Reveal Mechanisms of TRIM5 Restriction

Isaiah Grant, Laura Gong, Molly Ohainle

330 A Virus-Packagable CRISPR Screen to Uncover Genes Underlying SIVcpz Replication in Human Cells

Michael Young, Molly Ohainle

Poster Session-B5 | HIV and Inflammation

2:30 PM - 4:00 PM • Poster Hall

378 HIV Drives CARD8 Inflammasome Activation and Proinflammatory Cytokine Release by Myeloid Cells

Marilia R. Pinzone, Francesco R. Simonetti, Liang Shan

- 379**  **Genome-Wide Association of NLRP3 Inflammasome Plasma Cytokines in Virally Suppressed People With HIV**
Ryan Chung, **Sonia Savur**, Sannidhi Sarvadhavabhatla, Alton Barbehenn, Caroline H. Sheikhzadeh, Maria Sophia Donaire, Vivian Pae, Xiuping Chu, Daniel Winder, Colin T. Maguire, Rafick P. Sekaly, Brian Agan, Jeffrey A. Tomalka, Nilah Ioannidis, Sulggi Lee
- 380** **Extracellular Vesicles From the Cells Harboring HIV Defective Provirus Initiate Inflammatory Cascade**
Hongyan Sui, John G. Bernbaum, Hiromi Imamichi, H. Clifford Lane, Tomozumi Imamichi
- 381**  **Extracellular Vesicles' miRNAs Correlate With Inflammatory Markers in Tanzanians With HIV**
Mussa H. Bago, Godfrey Barabona, Doreen Kamori, Lilian Nkinda, Takamasa Ueno
- 382** **Proinflammatory Markers in Persons Living With HIV, HCV, and/or Drug Use**
Wei-Wen Hsu, Heidi L. Meeds, Janani Madhuravasal Krishnan, Krishna M. Roskin, Matthew Juhascik, John M. Cafardi, Jennifer L. Brown, Caroline Freiermuth, Michael S. Lyons, Kenneth E. Sherman, **Jason T. Blackard**
- 383** **The Systemic Inflammatory Profile Differs According to the Mechanism of HIV Control**
Norma Rallón, Alejandra Manquillo, Clara Restrepo, Sara Nistal, Aws Al-Hayani, Alfonso Cabello, Irene Carrillo, Laura Prieto-Pérez, Miguel Górgolas, Juan C. López, Ana Muñoz, Vicente Estrada, **Jose M. Benito**
- 384**  **Host Transcriptional Signatures Associated With Distinct Inflammatory Bioprofiles in People With HIV**
Dana Alalwan, Alejandro Abner Garcia Leon, Willard Tinago, Padraig McGettrick, Aoife Cotter, Eoin R. Feeney, Jane A. O'Halloran, Eoghan de Barra, Obada Yousif, Mary Horgan, Corinna Sadlier, Alan Landay, Gabriel Gonzalez, Mallon W. G. Paddy
- 385** **Intestinal CD4:CD8 Ratio and Systemic Inflammatory Parameters in Suppressed HIV-1 Infection**
Francesca Cossarini, Pablo Canales-Herrerias, Divya Jha, Michael Tankelevich, Alexandra E. Livanos, Saurabh Mehandru
- 386** **Living With HIV Mimics the Proinflammatory FUT2 Non-Secretor Phenotype in the Intestines**
Leila B. Giron, Maliha W. Shaikh, Shivanjali Shankaran, Phillip A. Engen, Michelle Villanueva, Ceylan E. Tanes, Kyle Bittinger, Alan Landay, Michael J. Corley, Ali Keshavarzian, Mohamed Abdel-Mohsen
- 387**  **Ultra-Low Level Soluble p24 Is Associated With Inflammation in People With HIV on Suppressive ART**
Matteo Augello, Alessandra Mingione, Valeria Bono, Roberta Rovito, Camilla Tincati, Filippo Martinelli Boneschi, Giulia Marchetti
- 388** **Inflammatory and Microbial Signatures Linked to Cardiovascular Outcomes in People With/Without HIV**
Rachel MacCann, Gurvin Saini, Jesvin Xavier, Alejandro Abner Garcia Leon, Manon Vanbellinghen, Neeltje Koostra, Junhui Li, Padraig McGettrick, Alan Landay, Aoife Cotter, Alan Winston, Peter Reiss, Paul W. O'Toole, Sabin Caroline, Mallon W. G. Paddy



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Methamphetamine Use Disorder in ART PWH Is Associated With Elevated NLRP3 Inflammasome Activation

Felipe Ten-Caten, Fernanda C. Coirada, Alexander L. Silva-Junior, Caroline H. Sheikhzadeh, Sannidhi Sarvadhavabhatla, Alton Barbehenn, Poonam Vohra, Cassandra Yun, Nitasha A. Kumar, Paula J. Lum, Kara L. Lynch, Steven G. Deeks, Rafick P. Sekaly, Sulggi Lee, Susan P. Ribeiro

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Understanding NLRP3 Inflammasome Activation at the Intersection of HIV and Aging

Heidi Zapata, Shanshan Du, Archit Kumar, Bill Lee, Christopher Radcliffe, Lydia Aoun-Barakat, Sui Tsang, Brent Vanderwyk, Albert Shaw

Poster Session-B6 | Animal Models of Infection

2:30 PM - 4:00 PM • Poster Hall

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Ex Vivo Isolation and Characterization of Live, Envelope Expressing, SHIV-Infected CD4 T Cells

Joseph P. Casazza, Joana Dias, Bianca C. Ralph, David R. Ambrozak, Jianfei Hu, Amy Henry, Farida Laboune, Lucio Gama, Stephen D. Schmidt, Timothy S. Johnston, Giulia Fabozzi, Sabrina Helmold Hait, Daniel C. Douek, Richard A. Koup

392

Lobule Zone-Dependent Accumulation of Vd1 and Vd2 gd-T Cells in the Livers of SIV+ Infant Macaques

Nina Derby, Brooke I. Johnson, Kimberly A. Meyer, Jeremy V. Smedley, Don L. Sodora

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IL-15, Type I Interferon, Fatty and Amino Acid Pathways Link to SIV Reservoir and Rebound in Infants

Tehillah Chinunga, Giuliana X. Xavier, Fernanda R. Bruno, Felipe Ten-Caten, Katherine Bricker-Holt, Ann M. Chahroudi, Susan P. Ribeiro

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Immunometabolic Reprogramming by Caloric Restriction Leads to Protection From SIV in Rhesus Macaques

Naveen Suresh Babu, Chrysostomos Perdios, Anna T. Brown, Celeste Coleman, Carolina Allers, Matilda Mostrom, Lara Doyle-Meyers, Ricki Colman, Anne Le, Pratik Khare, Clovis Palmer, Joseph C. Mudd

395

A New Mouse Model of HIV in Pregnancy: The EcoHIV Pregnancy Model

Michelle M. Ranjbar, Ingrid Hsieh, Maud Collomb, Shreya Dhumé, Lena Serghides

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Clinical and Immune Characteristics of ART+SIV/P. fragile-Infected Macaques With Persistent Viremia

Sydney Nemphos, Hannah Green, James Prusak, Sallie Fell, Natalie Guy, Matilda Mostrom, Coty Tatum, Kelly Goff, Nicholas Maness, Preston Marx, Carolina Allers, Brooke Grasperge, Amitinder Kaur, Berlin Londono-Renteria, Jennifer Manuzak

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Analysis of SIV Envelope Diversity During Untreated Infection

Haoyue Li, Emily J. Fray, Vivek Hariharan, Dan H. Barouch, Janet M. Siliciano, Robert F. Siliciano



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STLV-1 in *Chlorocebus aethiops* as a Model for New Approaches to Human Retrovirus Research

Víctor Â. Folgosi, Liliane A. Carneiro, Felipe B. Freitas, Mayara N. Santana da Silva, Amanda Lopes Silva, Gerlane N. Noronha, Ariela S. Farias, Carlos Fernando Apoliano, Sabri S. Sanabani, Hebert F. Culler, Igor Costa, Luís Alberto de Pádua Covas Lage, Camila Malta Romano, Shirley V. Komninakis, Jorge Casseb

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WITHDRAWN

Poster Session-C8 | Coordinated Immune Responses and Viral Control

2:30 PM - 4:00 PM • Poster Hall

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Distinct Signatures of Trained Immunity Reveal Heterogeneity Among Elite HIV Controllers

Aarthi Talla, **Joao Lucas Lima Calandrini de Azevedo**, Michael Peluso, Thomas Dalhuisen, Rebecca Hoh, Steven G. Deeks, Sulggi Lee, Ashish A. Sharma, Rafick P. Sekaly, for the Pathology Advanced Translational Research Unit (PATRU)

465

Lymph Node Dendritic Cells Harbor an Altered Transcriptomic Profile Despite Years of Suppressive ART

Riddhima Banga, Erica Lana, Francesco Procopio, Mathilde Foglierini-Perez, Matthias Cavassini, Rafael Trunfio, Sébastien Déglise, Giuseppe Pantaleo, Matthieu Perreau, Andrea Mastrangelo

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Mapping the Spatial Landscape of Lymph Nodes With Undetectable Versus Active HIV Replication

Candace Liu, Marta Calvet-Mirabent, Michael Angelo, Enrique Martin Gayo

467



Longitudinal Phenotypic and Transcriptional Profiling of Immune Cells in Early-Treated Acute HIV

Jozefien De Clercq, Sofie Rutsaert, Jolien Vermeire, Linos Vandekerckhove, Sarah Gerlo

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Markers of Immunologic Control for Future Identification of HIV Post-Treatment Controllers

Raniero Chimienti, **Elena Bruzzesi**, Gabriel Siracusano, Camilla Volpi, Matilde Certo, Riccardo Lolatto, Francesca Sironi, Lucia Garbarino, Michela Mazzocco, Angelo Roberto Raccagni, Raffaele Dell'Acqua, Stefania Dispinseri, Daniela Cesana, Silvia Nozza, Mauro Malnati

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Impaired Antigen Presentation and TGFβ Signaling Fosters Th17 Differentiation in PLWH Under ART

Valentino D'Onofrio, Loïc Schrooyen, Gonzalo Salgado-Montes de Oca, Linos Vandekerckhove, Ashish A. Sharma, Rafick P. Sekaly

WEDNESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

470



Females With HIV Favor Interferon Responses Over Inflammation Upon TLR7 Activation

Alisa Huber, Nadira Vadaq, Albert L. Groenendijk, Victoria Rios Vazquez, Joost A. H. Martens, Vasiliki Matzaraki, Maartje Jacobs-Cleophas, Jan van Lunzen, Mihai G. Netea, Leo Joosten, Andre van der Ven, Jéssica dos Santos, for the 2000HIV Human Functional Genomics Partnership Program

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CITE-Seq and Single Cell $\alpha\beta$ TCRseq Unravels HIV-1 Specific GZMB Subset in Post-Treatment Controllers

Giacomo Schmidt Frattari, Miriam Rosás-Umbert, Mariane Høgsbjerg Schleimann, Martin Tolstrup, Jesper D. Gunst, Ole S. Søgaard

Poster Session-C9 | Immunity to SARS-CoV-2 and Other Viruses

2:30 PM - 4:00 PM • Poster Hall

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Diminished Immune Imprinting at the Upper Respiratory Tract Following SARS-CoV-2 Breakthrough Infection

Jian Zou, Jinyuan Liu, Mengping Chen, Chunyang Bai, Linlin Zhou, Jiajing Jiang, **Xuan He**

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Spike Ferritin Nanoparticle (SpFN) Recalls Memory B Cells in SARS-CoV-2-Experienced Donors

Lauren Smith, Kerri Lal, Bonnie Slike, Huy Nguyen, Emilie Goguet, Peifang Sun, Allison Malloy, Simon Pollett, Edward Mitre, Andrew Letizia, Sandhya Vasan, Julie Ake, Nelson Michael, Gordon Joyce, Shelly Krebs

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Optimized ACE2-Fc With Picomolar Pan-Neutralization of SARS-CoV-2 Variants, Including JN.1 and KP.2

Ferran Abancó i Espuga, Ferran Tarrés-Freixas, Rosalba Lepore, Elisa Molina, Edwards Pradenas, Dalia Raïch-Regué, Bonaventura Clotet, Alfonso Valencia, Júlia Vergara-Alert, Joaquim Segalés, Jorge Carrillo, Nuria Izquierdo-Useros, Julià Blanco, Benjamin Trinité

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Long COVID Is Associated With Lower Percentages of Mature, Cytotoxic NK-Cell Phenotypes

Tasha Tsao, Amanda M. Buck, Lilian Grimbert, Brian Lafranchi, Belen Altamirano Poblano, Dylan Ryder, Avery Eun, Kathleen Bellon Pizarro, Melissa Buitrago, Kofi Asare, Emily Fehrman, Peter W. Hunt, Michael Peluso, Oscar A. Aguilar, Timothy J. Henrich, for the Long-term Impact of Infection with Novel Coronavirus (LIINC) Study Group

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The XBB.1.5 mRNA Booster Vaccine Does Not Significantly Increase XBB.1.5 Mono-Reactive T Cells

Joel Sop, Alicia Mercado, Alexis Figueroa, Tyler Beckey, Caroline Traut, Li Zhang, Kellie Smith, Joel Blankson

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Evaluation of Salivary Antibody in Protection From SARS-CoV-2 Infection

Sharon Walmsley, Majid Nabipoor, Gary Chao, Lesley Ward, Rizani Ravindran, Erik Lovblom, Jennifer Gommerman, for the STOPCoV Research Team



478 Evaluation of the PHH-1V COVID-19 Vaccine-Induced T-Cell Responses in Adolescents: HIPRA-HH-3 Study
Ignasi Esteban, Raúl Pérez-Caballero, Elena Aurrecoechea, Roc Pomarol, Laia Bernad, Ruth Peña, Manuel Cañete, Antoni Prenafeta, Laura Ferrer, Pere Soler-Palacín, Borja Guarch, Silvina Natalini Martínez, Julia G. Prado, Montserrat Plana, for the RBDCOV Study Group

479 T-Cell Immunity of PHH-1V COVID-19 Vaccine in PWH and Adults With Immunosuppressive Conditions
 **Raúl Pérez-Caballero**, Ignasi Esteban, Laia Bernad, Elena Aurrecoechea, Yovaninna Alarcón-Soto, Ruth Peña, Susana Benet, Jorge Carrillo, Nuria Izquierdo-Useros, Julià Blanco, Laura Ferrer, Beatriz Mothe, Montserrat Plana, Julia G. Prado, for the RBDCOV Study Group

480 Torque Teno Virus: A Predictive Biomarker for SARS-CoV-2 Vaccine Response in Immunosuppressed People
 **Gonzalo Cabrerizo**, Nicolás Ducasa, Cecilia Monzani, Paula Benencio, Ezequiel Mauro, Fernando Cairo, Milagros Acevedo, Denise Giannone, María Belén Vecchione, Federico Remes Lenicov, Manuel Barbero, Margarita Anders, Manuel Mendizabal, Maria Florencia F. Quiroga, Mirna Biglione

481 Limited Effectiveness of High-Dose Flu Vaccine in Augmenting Immunity in Older People With HIV
 **Jonah Kupritz**, Sheldon Davis, Prabhsimran Singh, Tianhao Liu, Daniel Diaz-Pachón, Allan Rodriguez, Rajendra Pahwa, Savita Pahwa, Suresh Pallikkuth, for the Miami Center for AIDS Research

482 Herpes Zoster Reactivation in a Cohort of People Living With HIV Vaccinated With Recombinant Vaccine
 **Stefania Arsuffi**, Luca Rossi, Fabio Riccardo Colombo, Elisa Mirovic, Miriam Inverardi, Davide Laurenda, Ilaria Izzo, Deborah Castelli, Francesca Gaffurini, Itala Polesini, Giorgio Tiecco, Francesco Castelli, Stefano Calza, Eugenia Quiros-Roldan, Emanuele Focà

483 Persistence of Seroprotection After Modified Hepatitis B Vaccine Schedule in People Living With HIV
Caroline Troccoli, Denise V. Potsch, Pietra S. Nascimento, Cristina B. Hoffer, Paulo F. Barroso, Juliana Miguel, Livia Villar

WEDNESDAY

Poster Session-D08 | HIV Reservoir Landscape and Dynamics

2:30 PM - 4:00 PM • Poster Hall

558 Longitudinal Analysis of HIV Reservoir Dynamics Using Q4ddPCR in Individuals Who Are ART-Treated
Rachel K. Scheck, Gregory Gladkov, Adam R. Ward, Mark Melzer, Deborah McMahon, Ronald J. Bosch, Bernard J. Macatangay, Joshua C. Cyktor, Joseph J. Eron, John W. Mellors, Rajesh T. Gandhi, Lisa Buchauer, R. Brad Jones, Christian Gaebler, for the ACTG A5321 Study Team

559



Paucity of HIV Envelope Expressing Cells Upon Latency Reversal in ART-Suppressed PWH

Jonathan Richard, Mehdi Benlarbi, Remi Fromentin, Lorie Marchitto, Amélie Pagliuzza, Amie Albertus, Derek Yang, Jean-Pierre Routy, Amos B. Smith III, Drew Weissman, Edward Kreider, Daniel E. Kaufmann, Marzena Pazgier, Nicolas Chomont, Andrés Finzi

560

Early ART Initiation Is Associated With Faster Decay of the Transcriptionally Active HIV Reservoir

Julie Janssens, **Cordelia M. Isbell**, Sun Jin Kim, Alton Barbehenn, Rebecca Hoh, Michael Peluso, Satish Pillai, Nadia R. Roan, Steven G. Deeks, Sulggi Lee, Steven Yukl, Adam Wedrychowski, Timothy J. Henrich

561

In-Depth Evaluation of the Intact Proviral DNA Assay for the Quantification of HIV-1 Reservoir

Thuy Nguyen, Mary Zipparo, Lindsey Adams, Annie Glassey, Afra Rahman, Ulisses Santamaria, Catherine Rehm, Jessica Earhart, Chuen-Yen Lau, **Frank Maldarelli**

562

Deciphering the HIV-2 Proviral Reservoir in Antiretroviral-Naive Individuals

Fella Mazouz, Romane Guilbaud, Quentin Le Hingrat, Florence Damond, Thibault Saint-Joannis, Eddy Biesaga, Romain Coppee, Diane Descamps, Jade Ghosn, **Charlotte Charpentier**

563



CCR5 Expression Is Critical for the Maintenance of HIV Control and Reservoir Size

Jéssica dos Santos, Zhenhua Zhang, Adriana Navas, Louise E. van Eekeren, Mareva Delporte, Hanneke Maas, Vasiliki Matzaraki, Albert L. Groenendijk, Wilhelm A. Vos, Hans Koenen, Jan van Lunzen, Mihai G. Netea, Linos Vandekerckhove, Yang Li, Andre van der Ven, for the 2000HIV Human Functional Genomics Partnership Program

564

Ex Vivo Antigen Stimulation Induces HIV-1 Viral Outgrowth From a Pericentromeric Provirus

Angelica Camilo-Contreras, Francesco R. Simonetti, Luis J. Montaner, Stuart Ray, Robert F. Siliciano, Janet M. Siliciano, Arturo Casadevall, Daniel Smith, Hao Zhang

565



Multomics Clustering Reveals Distinct HIV Reservoir Profiles in the 2000HIV Cohort

Victoria Rios Vazquez, Mareva Delporte, Vasiliki Matzaraki, Wilhelm A. Vos, Marc J. T. Blaauw, Louise E. van Eekeren, Albert L. Groenendijk, Jéssica dos Santos, Mihai G. Netea, Andre van der Ven, Linos Vandekerckhove, for the 2000HIV Human Functional Genomics Partnership Program

566



Sex-Specific Immune Responses Shape Proviral Landscapes in Individuals on Long-Term Suppressive ART

Toong Seng Tan, Ce Gao, Aischa Niesar, Chloe M. Naasz, Samantha K. Marzi, Alex Hochroth, Sruthi Kalavacherla, Mathias Viard, Steven G. Deeks, Michael Peluso, Jeffrey M. Jacobson, Mary Carrington, Mathias Lichterfeld, Xu G. Yu

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Female Sex Is Associated With Continuous Decline in Intact HIV-1 Proviruses

Yijia Li, Nadia R. Roan, Tom Medvec, Sharon Riddler, Greg Laird, Albine Martin, John W. Mellors, Charles Rinaldo, Phyllis Tien, Bernard J. Macatangay



- 568 A Virology Quality Assurance Program to Assess Inter-Lab Reproducibility of HIV-1 Reservoir Assays**
Maria Blasi, Darin Weed, Salvatore Scianna, Bhavna Hora, Thynn Thane, Miranda Carper, Raul Louzao, Wes Rountree, Mars Stone, Michael P. Busch, Elizabeth R. Wonderlich, Keith Crawford, Thomas Denny
- 569 The Cross Subtype Intact Proviral DNA Assay Detects 97% of Proviruses From Diverse HIV Clades**
 Morgan Litchford, Carolyn Fish, Noah Cassidy, Pavitra Roychoudhury, Ethan Nunley, Agnes Langat, Helen Moraa, Daniel B. Reeves, Elizabeth M. Obimbo, Grace John-Stewart, Dalton Wamalwa, Julie Overbaugh, **Dara A. Lehman**
- 570 Impact of Early ART Initiation With BIC/FTC/TAF on HIV-1 Reservoir Decay During Primary Infection**
 **Sònia Vicens-Artés**, Elisa Moraga, Juan Ambrosioni, Elisa De Lazzari, Lucía Bailón, Paula Suanzes, Carmen Busca, Beatriz Mothe, Jorge Del Romero, Vicenc Falco, Anna Cruceta, Josep Mallolas, Jose Alcamí, José M. Miró, Sonsoles Sánchez-Palomino, for the BIC-PHI Study Group
- 571 Rapid Clearance of the Inducible HIV-1 Reservoir After Initiation of Antiretroviral Therapy**
Maria C. Puertas, Lucía Bailón, Victor Urrea, Maria C. Garcia-Guerrero, Yovaninna Alarcón-Soto, Angel Rivero, Beatriz Mothe, José Moltó, Javier Martínez-Picado, for the DUALITY Study Group
- 572 HIV Proviral Populations Differ by Sex and Immune Activation Levels During Antiretroviral Therapy**
 Chuen-Yen Lau, Thuy Nguyen, Matthew A. Adan, Jessica Earhart, Danielle Konlian, Lindsey Adams, Mary Zipparo, Jeanette Higgins, Catherine Rehm, Robert Gorelick, Brian Luke, Frank Maldarelli

Poster Session-D09 | Molecular Mechanisms of HIV Persistence and Latency

2:30 PM - 4:00 PM • Poster Hall

- 573 BACH2 Controls Seeding and Establishment of Long-Lived HIV-1 Reservoir in Memory CD4+ T Cells**
 **Hongbo Gao**, Yuhao Li, Liang Shan
- 574 Blockade of HIV Latency Reversal in CD4+ T Cells From ART-Suppressed PLWH by the Antisense RNA AST**
Rui Li, Fabio Romerio, Kaveh Daneshvar, Xinjie Ji, Michelle Pleet, Grace Igbinosun, Mohd Shameel Iqbal, Fatah Kashanchi, Alan Mullen
- 575 HIV Reactivation Potential Evaluated by RNA-Seq and DNA Methylation Following LRA Stimulation**
 **Giuseppe Rubens Pascucci**, Elena Emili, Alessia Neri, Elena Morrocchi, Nicole Colantoni, Arianna Rotili, Chiara Pighi, Giulio Olivieri, Stefania Bernardi, Giovanna Leone, Ann M. Chahroudi, Mathias Lichterfeld, Benjamin Reece Bone, Nicola Cotugno, Paolo Palma

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Activation of Latent HIV-1 by Retinol Binding Protein 4

Chiara Pastorio, Khumoekae Richard, Luis J. Montaner, Konstantin M. J. Sparrer, Frank Kirchhoff

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Zaprinast Reprogrammes Resting CD4+ T-Cell Metabolism and Induces HIV Latency Reversal Ex Vivo

Valentin de Masson d'Autume, Valentin LeDouce, Sophie O'Reilly, Nathan François, Matthew Angieladis, Tara McGinty, Jose Carlos Valle Casuso, Alan Macken, Olivier Rohr, Carine Van Lint, Asier Sáez-Cirión, Aoife Cotter, Eoin R. Feeney, Mallon W. G. Paddy, Virginie Gautier

578



Anti-HIV Gene Editing Is Inhibited in Active HIV Provirus Through Long-Terminal Repeat Demethylation

Mohamed Bouzidi, Li Du, Prerna Dabral, Manukumar Honnayakanahalli Marichannegowda, Satish Pillai

579

Macrophage Training Reactivates Latent HIV-1 From HAART-Suppressed PBMCs of PLWH

Sinu P. John, Heera James, Christine Perritano, Iain D. C. Fraser

580



Interference of HIV Integration via Changes in CPSF6 and SC35 Expression Due to TKIs in Macrophages

Mario Manzanares, Juliana Manosalva Perez, Elena Mateos, Alicia Simón Rueda, Diego Megías, Montserrat Torres, Vicente Planelles, Adam M. Spivak, Mayte Coiras, **Clara Sánchez Menéndez**

581

Thymosin α 1 Enhances IL-15 Pathway Between MoDCs and CD8+ T Cells and Restrains HIV Latency In Vitro

Chaoyu Chen, Jingna Xun, Jiangrong Wang, Renfang Zhang, Tangkai Qi, Li Liu, Xinyu Zhang, Zichen Song, Yinzong Shen, Hongzhou Lu, Jun Chen

581.5



Cyclic Adenosine 3',5'-Monophosphate Agonist Prevents Establishment and Reversal of HIV Latency

Prerna Dabral, Li Du, Mohamed Bouzidi, Satish Pillai

Poster Session-D10 | HIV Reservoirs in Tissues

2:30 PM - 4:00 PM • Poster Hall

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Predominance of Non-T Follicular Helper Cell Subsets in the Lymph Node Viral Reservoir During ART

Vincent H. Wu, Jayme Nordin, M. Betina Pampera, Perla Mariana Del Río Estrada, Fernanda Torres Ruiz, Mauricio González Navarro, Yara Andrea Luna Villalobos, Santiago Avila Rios, Gustavo Reyes-Teran, Michael Betts

583

Lymph Node Immune Landscape Reveals the Role of Innate Immunity on HIV Reservoir in ART-PLWH

Michail Orfanakis, Spiros Georgakis, Jolien Vermeire, **Susan P. Ribeiro**, Vincent C. Marconi, Linos Vandekerckhove, Khader Ghneim, Ashish A. Sharma, Rafick P. Sekaly, Constantinos Petros

584



Depletion of CX3CR1+ Effector CD8 TRM Cells Is Associated With HIV-1 Reservoir in the Colon on ART

Nived Collercandy, Camille Vellas, Manon Nayrac, Mary Requena, Justine Latour, Karl Barange, Laurent Alric, Guillaume Martin-Blondel, Jacques Izopet, Pierre Delobel



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HIV Reservoir in Jejunum Exhibits Distinct Phenotypic Features and Evokes Innate Cell Redistribution

Marta Calvet-Mirabent, Monet Yuan, Xiaoyu Luo, Julie Frouard, Jason Neidleman, Ashley F. George, Stan Tamaki, Antoine Chaillon, Elizabeth Hastie, Davey Smith, Collin Kieffer, Sara Gianella Weibel, Nadia R. Roan

586

Single Cell Characterization of the Gastrointestinal HIV Reservoir

Jackson Peterson, Elizabeth Bennett, Shipra Chandel, Katherine James, Brigitte Allard, Matthew Clohosey, Taylor Whitaker, Caroline Baker, Susan Pedersen, Anne Peery, Cynthia L. Gay, David M. Margolis, **Nancie Archin**, Edward Browne

587



HIV Transcriptional Regulation in the CNS of ART-Suppressed People With HIV

Janna Jamal Eddine, Emily Chalmers, Jingling Zhou, Sarah Byrnes, Sushama Telwatte, Bruce Brew, Michael Roche, Thomas Angelovich, Melissa Churchill

588

Association of CSF Viral Compartmentalization and Macrophage Tropism With Neurosymptomatic HIV

Laura P. Kincer, Sarah B. Joseph, Natalie M. Bowman, Chris Evans, Alyssa Vecchio, Ameet Dravid, Serena Spudich, Magnus Gisslén, Prema Menezes, Joseph J. Eron, Richard W. Price, Ronald I. Swanstrom

WEDNESDAY

Poster Session-E6 | CNS HIV Reservoirs

2:30 PM - 4:00 PM • Poster Hall

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HIV Transcripts in Blood May Identify Patients at Lower Risk of Brain Injury in Cure Research

Kazuo Suzuki, Angelique Levert, Emma Yoo, Lucette A. Cysique, Takaomi Ishida, Nicholas Olsen, Louise Evans, Bruce Brew, John Zaunders

628

Unmasking the Independent Role of CSF HIV RNA Dynamics by Single Copy Assay in Neurobiotypes

Lucette A. Cysique, Natasha Hills, Sarah O'Donnell, Kurt Lancaster, Lauriane Jugé, David Jakabek, Thomas M. Gates, Caroline Rae, Sarah Palmer, Bruce Brew

629

Adenosine, Guardian of the Brain: Possible Role in Protecting From HIV Neuropathogenesis

Yoelvis Garcia-Mesa, Fengchun Ye, Sheetal Sreeram, Wilber Romero-Fernandez, Jonathan Karn

630



Neuroinflammation Associated With Levels of HIV DNA in the Frontal Cortex of Virally Suppressed PWH

Sarah Byrnes, Janna Jamal Eddine, Jingling Zhou, Emily Chalmers, Michael Roche, Bruce Brew, Jacob D. Estes, **Thomas Angelovich**, Melissa Churchill

631

HIV-Infected Microglia Drive Transcriptional and Metabolic Changes in Complex Human Brain Organoids

Leanne C. Helgers, Pamela C. Capendale, Anoop T. Ambikan, Renata Vieira de Sa, Theo B. H. Geijtenbeek, Adithya Sridhar, Ujjwal Neogi, Dasja Pajkrt

Poster Session-E7 | Aging and NeuroHIV: Understanding Pathogenesis and Trajectories

2:30 PM - 4:00 PM • Poster Hall

- 633 Plasma Neopterin as a Potential Biomarker for Neurocognitive Impairment in Aging People With HIV**
Anna Prats, Tuixent Escribà, Sonia Villanueva-Hernández, Sandra González, Meritxell Cucurell, Ainhoa Yoldi, Montserrat Alegret, Mercè Boada, Eugènia Negredo, Bonaventura Clotet, Christian Brander, Roger Paredes, **Marta Ruiz-Riol**, Jose A. Muñoz-Moreno
- 634 A Blip or a Trend? Interpreting Fluctuations in Cognition Over Time in Older Adults With HIV**
Marie-Josée Brouillette, Marianne Harris, Graham Smith, Fiona Smail, Réjean Thomas, Shariq Haider, Scott L. Letendre, Susan Scott, Lesley K. Fellows, Nancy E. Mayo
- 635 Obstructive Sleep Apnea Contributes to Cognitive Difficulties Among Older Adults With HIV**
Marie-Josée Brouillette, Mahra Aldahbashi, Réjean Thomas, Marianne Harris, Graham Smith, Fiona Smail, Shariq Haider, Scott L. Letendre, Susan Scott, Lesley K. Fellows, Nancy E. Mayo
- 636 Association of Delayed HIV Diagnosis or ART Initiation With Risk of Age-Associated Dementia**
Jennifer O. Lam, Catherine Lee, Craig Hou, Dongjie Fan, Haihong Hu, Errol Lopez, William Towner, Michael Horberg, Michael Silverberg
- 637 Incidence and Risk Factors for Neurocognitive Disorders Among Persons With HIV in Washington, DC**
Shannon K. Barth, Yun S. Ji, Ellen Yeung, Morgan Byrne, Michael Horberg, Anne Monroe, Amanda D. Castel, for the DC Cohort Executive Committee
- 638 Systemic Immune-Inflammation Index Links to Slower Psychomotor Speed in Older People With HIV**
Crystal Wang, Raymond Jones, Evelyn Iriarte, Jun Yeong Byun, Kristen Krause, Casey Xavier Hall, Ronald Ellis, Mariana Cherner, Suzi Hong, David Moore, Scott L. Letendre, Jennifer Iudicello

Poster Session-F3 | Pharmacokinetics in the Real World: Long-Acting Drugs, Alternative Matrices, and Adherence

2:30 PM - 4:00 PM • Poster Hall

- 651 Tenofovir Diphosphate in Dried Blood Spots and HIV-1 RNA Suppression Among PWH on TAF (ACT Study)**
Ryan P. Coyle, Mary Morrow, Sarah C. Mann, Nicholas Barker, Erin Garst, Vincent A. Mainella, Stefanie Schwab, Corwin Coppinger, Lucas Ellison, Jia-Hua Zheng, Lane Bushman, Kristina Brooks, Samantha Mawhinney, Jose Castillo-Mancilla, Peter Anderson
- 652 WITHDRAWN**



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TFV-DP Is Associated With Baseline Virologic Suppression in PWH on TAF: Results From ACTG A5359

Stefanie Schwab, Mary Morrow, Samantha Mawhinney, Raphael J. Landovitz, Chanelle Wimbish, Lu Zheng, Madison Green, Pablo Belaunzarán-Zamudio, Paul Wannamaker, Kati Vandermeulen, Jose Castillo-Mancilla, Jennifer J. Kiser, Peter Anderson, Kristina Brooks, Aadia Rana, for the ACTG A5359 Study Team

654

Association of Trough Concentrations of Cabotegravir and Rilpivirine and HIV-1 RNA

Sebastian Noe, Arlette Baxmann, Farhad Schabaz, Ariane von Krosigk, Carmen Wiese, Eva Wolf, Celia Jonsson-Oldenbüttel

655



Inter- and Intraindividual Variability of LA CAB/RPV Pharmacokinetics After 1 Year of Continuous Use

Shawnalyn W. Sunagawa, Josh P. Havens, Sara H. Bares, Maureen Kubat, Jennifer O'Neill, Elizabeth Lyden, Timothy Mykris, Lee C. Winchester, Sean Avedissian, Anthony T. Podany, Courtney V. Fletcher, Kimberly K. Scarsi

656

Plasma Concentrations of Lenacapavir in People Living With Multidrug-Resistant HIV: Real-Life Study

Minh Le, Quentin Le Hingrat, Marc-Antoine Valantin, Claudine Duvivier, Charlotte Charpentier, Sidonie Lambert-Niclot, Anne-Geneviève Marcelin, Valerie Pourcher, Jade Ghosn, Gilles Peytavin

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Intracellular Pharmacokinetics of Favipiravir-5'-Ribofuranosyl Triphosphate in People With COVID-19

Elizabeth Challenger, Laura J. Else, Laura Dickinson, Tim Rowland, Colin Hale, Rebecca Lyon, Helen E. Reynolds, Justin Chiong, Beth Thompson, Richard Fitzgerald, Henry Pertinez, Andrew Owen, Tom E. Fletcher, Saye Khoo, for the AGILE CST-6 Study Group

WEDNESDAY

Poster Session-G3 | ART in Vulnerable and Treatment-Experienced Populations

2:30 PM - 4:00 PM • Poster Hall

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Long-Term Virologic Suppression Rates in the Ward 86 HIV Clinic's Long-Acting ART Program (SPLASH)

Nathanael L. Gistand, Matthew A. Spinelli, Megan J. Heise, Jon Oskarsson, Katerina Christopoulos, Matt Hickey, Mary Shiels, Francis Mayorga-Munoz, Janet Grochowski, David Glidden, **Monica Gandhi**

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Long-Acting Injectable ART in Persons With HIV-1 Viremia in the South: A Tool to End the Epidemic

Jonathan Colasanti, Amalia Aldredge, Larisa Niles Carnes, Bradley L. Smith, Eudiah Ochieng, Erica Anderson, Vickie Robinson, Melissa Washington, Jeri Sumitani, Eric Leue, Della Corbin-Johnson, Priyasha Pareek, Meredith Lora, Wendy Armstrong, Lauren F. Collins

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Long-Acting Injectable Versus Oral HIV Antiretroviral Therapy for People Experiencing Homelessness

Kathleen O'Connor, Sarah Strieff, Alexandra Strough, Stephen Matzat, Barry Zevin, Joanna Eveland, Nicky Mehtani

- 692 A5359: Decreasing Oral Induction Duration in Support of LAI ART Use With Hardly Reached Populations**
Aadia Rana, Lu Zheng, Sara Sieczkarski, Jordan E. Lake, Carl Fichtenbaum, Pablo Belaunzarán-Zamudio, Jonathan Li, Paul Wannamaker, Jose Castillo-Mancilla, Kati Vandermeulen, Chanelle Wimbish, Karen T. Tashima, Raphael J. Landovitz, for the ACTG A5359 Study Team
- 693 Simplified Access and Retention Model for Vulnerable People With HIV: SIMPLIFIED Study Results**
Pablo Ryan, Guillermo Cuevas, Pedro Alfonso Torres, Laura Laguna Garcia, Beatriz Brazal, Marta De Miguel, Mariano Matarranz, Samuel Manzano, Juan Torres-Macho, Laura Martin-Gonzalez, Samuel Estevez, Victor De La Fuente, Lucia Serrano, Jorge Valencia
- 694 Forgiveness of Dolutegravir-Based Regimens Using Medication Possession Ratio: Andhra Pradesh, India**
Ramesh Allam, Manjula Thogarucheti, Nalini Chava, Ramesam Ganti, Jayakrishna Kurada, Vijay V. Yeldandi, Rajendra Prasad, Sreeramu S. Chakravarthy, Steven Y. Hong
- 695 Less Frequent Clinical and Viral Load Assessments During COVID-19 Did Not Increase Virologic Failure**
Andrew Carr, Modest Nwanbila, Lena Ktorza, Kaitlyn McCann, Goran Likevic, Tara Suchak, Rachael Jones, Anton Pozniak, Andrew Hill, Marta Boffito
- 696 Predictive Factors of Virologic Failure After Switching to B/F/TAF (ANRS-CO3-AquaviH-NA)**
 Alaric Peyrouny-Mazeau, Olivier Leleux, Pantxika Bellecave, Mojgan Hessamfar, Gwenaél Le Moal, Didier Neau, Laure Alleman, Charles Cazanave, Estibaliz Lazaro, Pierre Duffau, Marie-Anne Vandenhende, Bernard Castan, **Camille Tumiottto**, Fabrice Bonnet, for the ANRS-CO3-AquaviH-NA Cohort
- 697 Achievement of Undetectable HIV RNA in the PROMISE-US Study in Subjects Viremic at Baseline**
 Kaitlin Anstett, Princy Kumar, Charlotte-Paige M. Rolle, Christina Harbison, Namrata P. Shah, **Smitha Gudipati**, for the PROMISE-US Investigators
- 698 Outcomes for Persons With Triple-Class Resistant HIV and a History of Virologic Failure**
Suzanne M. Ingle, Fabrice Bonnet, Linda Wittkop, Alexandra Calmy, Ramon Teira, Timothy Sterling, Heidi M. Crane, Christoph Stephan, Marc van der Valk, Janne Vehreschild, Giota Touloumi, M. John Gill, Adam Trickey, Jonathan A. C. Sterne, Mojgan Hessamfar, for the Antiretroviral Therapy Cohort Collaboration (ART-CC)
- 699 Characteristics and Treatment Outcomes of People With HIV Prescribed Fostemsavir in the Trio Cohort**
 Andrew Frick, Cassidy E. Henegar, **Moti Ramgopal**, Janna Radtchenko, Isobel McEwen, Valeria Duran, Leigh Ragone, Michael Aboud, Steven Santiago, Greg Huhn, Karam Mounzer, Charles Walworth, Richard A. Elion, Vani Vannappagari

- 700 Effectiveness of Antiretroviral Therapy in People With and Without TB in the leDEA Cohort**
Lea Faure, Eugène Messou, Oliver Ezechi, Marcel Yotebieng, Kathryn Anastos, Pélégie D. Babakazo, Dominique M. Nsonde, Antoine Jean-Juste, Eduardo Gotuzzo, Timothy Sterling, Carina Cesar, Olivier Marcy, Nathalie De Castro, for the International Epidemiology Databases to Evaluate AIDS (leDEA) Collaboration

Poster Session-G5 | Antiviral Therapy for SARS-CoV-2

2:30 PM - 4:00 PM • Poster Hall

- 711 Potent, Pan-Coronavirus Antiviral Activity of the Novel 3CLpro Inhibitor ALG-097558**
 Cheng Liu, Ching-Wen Chang, Dirk Jochmans, Antitsa Stoycheva, Sarah K. Stevens, David McGowan, Neelam Oswal, David B. Smith, Julian A. Symons, Lawrence Blatt, David Perlin, Arnaud Marchand, Johan Neyts, Stanley Wang, **Andreas Jekle**
- 712 Novel Class of Small Molecules Inhibits SARS-CoV-2 PLpro Through Molecular Glue-Induced Dimerization**
 Teresa Ng, Orville A. Pemberton, Thomas E. Frederick, Emily Nicholl, Myron Srikumaran, Jun Chen, Alla Korepanova, Vincent S. Stoll, Andrew M. Petros, Sujatha M. Gopalakrishnan, Justin D. Dietrich, Liliam Rios Cordero, **David J. Hardee**, Amanda M. Nevins, Chaohong C. Sun
- 713 SARS-CoV-2 Ensitrelvir Resistance-Associated Mutations in Phase III Randomized Clinical Trial**
 **Manish C. Choudhary**, Rinki Deo, Annie F. Luetkemeyer, Kara Chew, Michael Hughes, Linda J. Harrison, Eric S. Daar, Joseph J. Eron, Simon Portsmouth, Takeki Uehara, Davey Smith, Judith Currier, Pavitra Roychoudhury, Alexander L. Greninger, Jonathan Li, for the SCORPIO-HR/ACTIV 2d (ACTG A5407) Study Team
- 714 Patterns of Remdesivir Initiation in Immunocompromised Patients Hospitalized With COVID-19**
Mark Berry, Eunyong Lee, Valentina Shvachko, Carrie Nielson, Kathleen Hurwitz, Nuvan Rathnayaka, Rachel Faller, Mazin Abdelghany, M. Alan Brookhart, Anand P. Chokkalingam
- 715 Machine Learning Identifies Predictors of Delayed Remdesivir Use in Hospitalized COVID-19 Patients**
Anne-Maud Ferreira, Cole Campton, Zanthia Wiley, Mark Berry, Celine Der-Torossian, Anand P. Chokkalingam, Bryan Downie, Rikisha Gupta
- 716 Tracking Key Remdesivir Resistance Mutations in SARS-CoV-2 Using GISAID Data (2020-2024)**
Toshibumi Taniguchi, Misuzu Yahaba, Hiroshi Yoshikawa, Hidetoshi Igari
- 717 Nirmatrelvir/Ritonavir for Chronic COVID-19: Outcome in 16 Severely Immunocompromised Patients**
 **Hanne Lamberink**, Sammy Huygens, Hannelore Bax, Corine Geurtsvankessel, Bart Rijnders
- 718 Synergistic Effect of NMV/r and Acquired Immunity in Reducing Severe COVID-19**
Warren Bao, Wayne Wisemandle, Heidi Leister-Tebbe, Romina Quercia, Jennifer Hammond



719



Metformin on Time to Sustained Recovery in Adults With COVID-19: ACTIV-6 Randomized Clinical Trial

Carolyn Bramante, Thomas Stewart, David R. Boulware, Matthew McCarthy, Russell Rothman, Ahmad Mourad, Florence Thicklin, Yue Gao, Michael Felker, Sean Collins, Sarah Dunsmore, Stacey Adam, Christopher Lindsell, Adrian Hernandez, Susanna Naggie, for the ACTIV-6 Study Group

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Optimal Timing and Immunogenicity of COVID-19 Booster Vaccination: The EU-COVAT-2 BOOSTAVAC Trial

Elena Alvarez, Lukas Bütikofer, Alejandro Abner Garcia Leon, Virginie Gautier, Jordi Cano Ochando, Katherine Loens, Amelie Michon, Helena H. Askling, Julia Jakobs, Ilse De Coster, Eoin R. Feeney, Sven Trelle, Pierre Van Damme, Oliver Cornely, Mallon W. G. Paddy, for the VACCELERATE Consortium

Poster Session-H3 | Clinical Impact of Drug Resistance in Trials and Cohorts

2:30 PM - 4:00 PM • Poster Hall

734

No Virologic Failure in Patients Switched to Doravirine Treatment With Past Resistance Mutations

Basma Abdi, Sanaa Saliba, Marc Wirten, Antoine Faycal, Theophile Cocherie, Romain Palich, Luminita Schneider, Sophie Seang, Marc-Antoine Valantin, Valerie Pourcher, Vincent Calvez, Anne-Geneviève Marcelin, Christine Katlama

735

HIV-1 Resistance Analysis of Treatment-Naive People With HIV and HBV Receiving B/F/TAF or DTG+F/TDF

Michelle D'Antoni, Archana V. Boopathy, Kristen Andreatta, Silvia Chang, Jason T. Hindman, Anchalee Avihingsanon, Laurie Vanderveen, Christian Callebaut

736

Resistance Analysis of Weekly Islatravir Plus Lenacapavir in People With HIV at 48 Weeks

Laurie Vanderveen, Silvia Chang, Lisa Selzer, Tracy Diamond, Ernest Asante-Appiah, Cyril Llamoso, Martin Rhee, Christian Callebaut

737



Virologic Success on InSTI-Based ART Despite Archived InSTI DRMs

Yanis Merad, Alice-Andrée Mariaggi, Marina Karmochkine, Jean-Paul Viard, Caroline Charre

738

Bictegravir + Lenacapavir: Baseline and Week 48 Resistance in ARTISTRY-1 Phase II

Nicolas Margot, Nina Pennetzdorfer, Vidula Naik, Mauricio Montezuma, Peter Sklar, Christian Callebaut

739

Real-World Robustness of B/F/TAF at Virologic Failure in the ANRS-CO3-AquiVIH-NA Cohort

Pantxika Bellecave, Alaric Peyrouny-Mazeau, Olivier Leleux, Mojgan Hessamfar, Gwenael Le Moal, Didier Neau, Laure Alleman, Charles Cazanave, Estibaliz Lazaro, Pierre Duffau, Marie-Anne Vandenhende, Bernard Castan, Fabrice Bonnet, **Camille Tumiottto**, for the ANRS-CO3-AquiVIH-NA Cohort

- 740 Shifting Paradigms: Doravirine's Potential in Treating Non-Group M HIV-1, the DORAVI-O Study**
Boris Derman, Jeanne Pfister, Fanny Lermecchain, Caroline Goudin, Jean-Christophe Plantier, **Elodie Alessandri-Gradt**

- 741 Impact of Resistance to Antiretroviral Therapy Among Veterans With Human Immunodeficiency Virus**
S. Scott Sutton, Joe Magagnoli, Tammy Cummings, Chase Williams, **Mary J. Christoph**, Cassidy Trom, Woodie Zachry, Michelle D'Antoni, Uche Mordi, Amy Weinberg, James W. Hardin

Poster Session-H4 | Dolutegravir Resistance

2:30 PM - 4:00 PM • Poster Hall

- 742 Population-Based Longitudinal Dynamics of HIV Drug Resistance During Dolutegravir Rollout in Uganda**
 **Michael A. Martin**, Steven J. Reynolds, Brian Foley, Fred Nalugoda, Thomas C. Quinn, Godfrey Kigozi, Robert Ssekubugu, Joseph Kagaayi, Oliver Ratmann, Christophe Fraser, Ronald Galiwango, David Bonsall, M. Kate Grabowski

- 743 Plasma DTG Exposure Test as Objective Tool to Identify People With HIV at Highest Risk of Resistance**
Kim Steegen, Jeremy Nel, Chijioke N. Ummunnakwe, Karabo Mophiring, Erin H. Smeijsters, Wouter M. Tiel Groenestege, Matthijs van Luin, Sean Currin, Lucas E. Hermans, Hugo A. Tempelman, Lucia Hans, Francois Venter, Monique Nijhuis, Annemarie M. J. Wensing

- 744 Plasma Dolutegravir Exposure as a Triaging Tool for HIV Drug Resistance Testing by ONT Sequencing**
 **Hendrik J. Coetser**, Dieketseng Magubane, Lucinda Gaelelwe, Esrom Letsoalo, Derryn Legg-E'Silva, Lucia Hans, Sean Currin, Kim Steegen

- 745 HIV Drug Resistance by Next-Generation Sequencing After Transition to TLD in Uganda and South Africa**
Suzanne McCluskey, Winnie Muyindike, Gugulethu Shazi, Victoria Nanfuka, Taing Nandi Aung, Jennifer Giandhari, Daniel Omoding, Bethany Hedt-Gauthier, Vincent C. Marconi, Mahomed-Yunus S. Moosa, Deenan Pillay, Richard Lessells, Ravindra K. Gupta, Mark J. Siedner

- 746 HIV Drug Resistance Among Individuals on Dolutegravir With Low-Level Viremia in Malawi**
Newton L. Kalata, Barbara Bighignoli, Sherri Pals, Alinune Kabaghe, Jonathan Mkungudza, Loise Panje, Grace Kusakala, Andreas Jahn, Joep J. van Oosterhout, Bianca Alvarez, Elfriede Agyemang, George Bello, Nellie Wadonda, Juliana D. Da Silva, Duping Zheng, for the Malawi HIV Drug Resistance Team

- 747 Predictors of HIV Drug Resistance to Dolutegravir in 4 PEPFAR-Supported Countries**
Juliana D. Da Silva, Sherri Pals, Newton L. Kalata, Nellie Wadonda, Mariama Tejan, Clement Zeh, Maria Liulchuk, Nalia Ismael, Nilesh Bhatt, Gillian Massamha, Christine Watera, Grace Namayanja, Elliot Raizes, for the CADRE Surveillance Network

Poster Session-14 | Hepatitis Epidemiology and Immunology
2:30 PM - 4:00 PM • Poster Hall

778 HeCaPred: An AI-Based Algorithm for HCC Prediction in Patients With HCV Chronic Infection After SVR

Anaïs Corma-Gómez, Jose M. Moyano, Francisco Tellez, Miriam Serrano-Fuentes, Luis Enrique E. Morano Amado, Diana Corona-Mata, Miguel Nicolás Navarrete Lorite, Francisco Jesús Vera-Méndez, Isabel Barroso, Rosario Palacios, Ignacio de los Santos, Olga Belinchon, Juan A. Pineda, Juan Macias, for the GEHEP-011 Study Group

779 A New Point-of-Care Ultrasound Protocol for Chronic Hepatitis B and HBV/HIV Coinfection in Zambia



Antonella Castagna, Annie Kanunga, Edford Sinkala, Enock Syabbalo, Helen Chitundu, Carolyn Chibundi, Guy K. Muula, Samuel Bosomprah, Giulia Morsica, **Costanza Bertoni**, Claudia Wallrauch, Tom Heller, Michael J. Vinikoor

780 High Prevalence of Triple Infection (HIV/HBV/HDV) Among Key Populations With HIV in India

Hussain Syed Iqbal, Talia A. Loeb, Mark Anderson, Mihili Gunaratne, A. K. Srikrishnan, Mary Rodgers, David Thomas, Allison M. McFall, Rifa T. Khan, Ashwin Balagopal, Gregory M. Lucas, Shruti H. Mehta, Chloe Thio, Gavin Cloherty, Sunil S. Solomon

781 WITHDRAWN

782 Simulation Modeling of Hepatitis B Virus Disease Progression, Hepatitis Flares, and Functional Cure

Amir Mohareb, Virginia Talbot, Arthur Y. Kim, Maya Hajny Fernandez, Anders Boyd, Kenneth A. Freedberg, Emily Hyle

783 HIV/HCV Coinfection: Extracellular Vesicles Modulate NK Functionality in Relation to Liver Fibrosis

Ariel A. Osegueda, Alan Adamczyk, Luz Leicaj, Leonel Cruces, Lucía Baquero, Paula Benencio, Tomas Langer, Virginia Gonzalez Polo, Matías Ostrowski, Natalia Laufer

784 In Vitro and In Vivo Immunogenicity of a Dendritic Cell-Based Vaccine Targeting HBV Epitopes

Nour Ghazzaui, Mathieu Surenaud, Guillaume Hypolite, Florence Picard, Émile Foucat, Anaïs Kembou, Marie-Laure Plissonnier, Mireille Centlivre, Fabien Zoulim, Aurélie Wiedemann, Véronique Godot, Yves Lévy, **Sylvain Cardinaud**

Poster Session-J4 | Cervical and Anal Cancer: Prevention and Screening

2:30 PM - 4:00 PM • Poster Hall

- 805 HPV Detection by Vaginal Self-Sampling and Urine Collection in Women Living With HIV: AUTOCOL Study**
Morgane Mailhe, Mélanie Bertine, Romane Guilbaud, Pauline Manchon, Aline-Marie Florence, Cécile Kedzia, Agnes Villemant, Marie-Aude Khuong, Laurent Blum, Manuella Mireille Onambebe Guindi, Cindy Godard, Diane Descamps, Charlotte Charpentier, **Jade Ghosn**, Valentine Marie Ferré
- 806 The Ivorian Cervical Cancer Screening Cascade: A 10-Year Program Evaluation According to HIV Status**
Simon Boni, David Goore, Franck Gnahatin, Mesmin Adie, Denise Kpebo, Apollinaire Horo, Innocent Adoubi, Antoine Jaquet, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - West Africa
- 807 2 vs 3 Doses of HPV9-Valent Vaccine in Women With HIV: Safety & Immunogenicity From Randomized Trial**
Debora R. Konopnicki, Christine Gilles, Yannick Manigart, Patricia Barlow, Anca Reschner, Coca Necsoi, Marc Delforge, Davy Vandenbroeck, Nicolas Dauby, Stephane De Wit
- 808 Optimizing Anal Cancer Screening in PWH: The Role of ADAR1 mRNA in Predicting High-Grade Lesions**
Melissa Bello-Perez, Paula Mascarell, Marta Fernández-González, Jose Alberto Garcia, Christian Ledesma, Ana Gutiérrez-Ortiz de la Tabla, Isabel Valencia, Angela Botella, Miguel Bardellini, Marta Inclán, Nieves Gonzalo-Jimenez, Javier Garcia-Abellan, Sergio Padilla Urrea, Felix Gutierrez, Mar Masiá
- 809 Anal Cancer Incidence Among Privately Insured People With and Without HIV in South Africa**
Eliane Rohner, Nathalie Veronica Fernandez Villalobos, Yann Ruffieux, Chido Chinogurei, Andreas D. Haas, Morna Cornell, Nicola Low, Gary Maartens, Jenni Noble, Naomi Folb
- 810 Evaluation of Anal Cancer Screening in 18–34-Year-Old Men Who Have Sex With Men Living With HIV**
Serina S. Applebaum, Elizabeth Chan, Lydia Aoun-Barakat, Michael Virata, Ritchie Hao, Amit C. Achhra

Poster Session-K4 | CVD Risk Prediction

2:30 PM - 4:00 PM • Poster Hall

- 828 Genomic Analyses of Cardiovascular Risk in People With HIV From the MVP Cohort**
 Boghuma K. Titanji, Amonae Dabbs-Brown, Jennie T. Mather, Qin Hui, Suyu Zhang, Catherine Mezzacappa, Roxane Rohani, Matthew S. Freiberg, Evelyn Hsieh, Brian Agan, Julie A. Womack, Ke Xu, Rafick P. Sekaly, Yan V. Sun, **Vincent C. Marconi**
- 829 The Additive Value of Coronary Calcium in Identifying Cardiovascular Risk in Ageing People With HIV**
 **Maithili Varadarajan**, Ruth Byrne, Abteahle Al-Hussaini, Brian Halliday, Edward Nicol, Alan Winston, Marta Boffito

- 830 BMI Is a Poor Surrogate for Excess Visceral Adiposity and Cardiovascular Risk in Persons With HIV**
Mohammed Zogheib, John Koethe, Jordan E. Lake, **Karam Mounzer**, Christian Caldji, Brandon Cash, Colleen McGary
- 831 Investigating the Predictive Role of NLR and PLR in Cardiovascular and Neurologic Outcomes in PWH**
Jonathan N. Tobin, Yiqi Tian, Megha Arora, Takreem Ahmed, Mariam A. Siyanbola, Alondra Torres Gonzalez, Kevin Fiscella, **Teresa H. Evering**
- 832 Cardiovascular Risk Assessment in Women Living With and Without HIV Using the PREVENT Model**
 **Tetiana Povshedna**, Renying (Loulou) Cai, Marcela A. P. Silva, Elizabeth King, Shelly Tognazzini, Angela Kaida, Melanie Murray, Helene Cote, for the British Columbia CARMA-CHIWOS Collaboration (BCC3; CIHR CTN 335)
- 833 Prediction of Cardiovascular Risk Among PWH: Comparing the PREVENT and Pooled Cohort Equations**
Matthew S. Durstenfeld, Megan M. McLaughlin, Monica Gandhi, Alexis Beatty, Priscilla Hsue
- 834 Lipidomic, Metabolomic, and Immune Profiles Precede Cardiovascular Events in People With HIV**
 **Joana Vitale**, Alberto Perez-Gomez, Silvia Chafino-Aixa, Carmen Gasca Capote, Laura Tarancon-Diez, María Reyes Jimenez-Leon, Sara Bachiller, Isabel Gallego, María Angeles Muñoz-Fernandez, Joaquim Peraire, Anna Rull, Francesc Vidal, Luis López-Cortés, Ezequiel Ruiz-Mateos, Adrian Curran
- 835 Patterns of Social and Biological Risk Factors in People With HIV and Risk of Cardiovascular Disease**
Cynthia N. Ramirez, Stacey Alexeeff, Andrea Altschuler, Nicola Bulled, Michael Horberg, Alexandra Lea, Tory Levine, Elise Riley, Haihong Hu, Alan Go, Derek Satre, Michael Silverberg
- 836 Agrarian Diet Intervention Improves Metabolic Health in Men With HIV Who Have Sex With Men**
John O'Connor, Jennifer Fouquier, Charles Neff, Amy Noe, Catherine Lozupone
- 837 Decreased Anti-Inflammatory Tryptophan Metabolites Correlate With Higher CVD Risk in PWH**
Manuela Ceccarelli, Alejandro Abner Garcia Leon, Eoin R. Feeney, Mary Horgan, Aoife Cotter, Eoghan de Barra, Corinna Sadlier, Padraig McGettrick, Giuseppe Nunnari, Jane A. O'Halloran, Mallon W. G. Paddy, for the All-Ireland Infectious Diseases Cohort Study

Poster Session-K5 | Atherosclerosis and Vascular Disease
2:30 PM - 4:00 PM • Poster Hall

- 838 Risk of Obesity, Cardiometabolic Disease, and MACE After Switch to Integrase Inhibitor in REPRIEVE**
 **Emma M. Kileel**, Carlos Malvestutto, Markella V. Zanni, Carl Fichtenbaum, Judith Aberg, Esteban Martinez, Aya Awwad, Sara H. Bares, Daniel Berner, Marek Smieja, Matthew P. Fox, Alana T. Brennan, Pamela Douglas, Heather Ribaud, Steven Grinspoon, for the REPRIEVE study

839



Determinants of De-Novo High-Risk Carotid Ultrasound Features in Middle-Aged People Living With HIV

Napon Hiranburana, Waratchaya Walailaksanaporn, Aurauma Chutinet, Tanakorn Apornpong, Stephen Kerr, Porntep Amornritvanich, Anchalee Avihingsanon

840



Seven-Year Progression of Coronary Artery Calcium Score in Middle-Aged Thai People Living With HIV

Napon Hiranburana, Sarawut Siwamogsatham, Pairoj Chattranukulchai, Monravee Tumkosit, Yanisa Jarusingdumrong, Thanawat Nochaiwong, Tanakorn Apornpong, Stephen Kerr, Porntep Amornritvanich, Anchalee Avihingsanon

841

Markers of Arterial Stiffness in People Living With HIV and Echocardiographic Outcomes

Karl Reis, Ponsiano F. Stephano, Salama Fadhil, Megan Willkens, Julie Karand, Eliaz Nyanza, Grace Ruselu, Ayubu Garubindi, Benson Issarow, Myung-Hee Lee, Cody Cichowitz, Rob N. Peck

842



Multomics Profiles of SHBG Are Associated With Subclinical Atherosclerosis in Men With HIV

Yi Wang, Wendy Post, Howard Hodis, Zheng Wang, Mallory Witt, Todd Brown, Mark Kuniholm, Patrick Caron, Clary B. Clish, Chantal Guillemette, Robert D. Burk, Robert C. Kaplan, Qibin Qi, David B. Hanna, Brandilyn A. Peters

843

Multomics Analysis of Gut Microbiome and Carotid Artery Atherosclerosis in Men With and Without HIV

Zheng Wang, Yi Wang, Brandilyn A. Peters, Wendy Post, Todd Brown, Frank Palella, Mallory Witt, Mark Kuniholm, Natalie Chichetto, Robert D. Burk, Kathryn Anastos, Howard Hodis, Robert C. Kaplan, Qibin Qi, David B. Hanna

844

PLHIV Exhibit a COVID-19 Independent Increase of Cardiovascular Mortality in Brazil, 2019-2023

Rodrigo Moreira, Valdilea Gonçalves Veloso, Beatriz Grinsztejn, Antonio G. Pacheco

845

Effect of Treatment for Opioid Use Disorder on Endothelial Function in People With and Without HIV

Jared C. Durieux, Ann K. Avery, **Corrilynn O. Hileman**

846



Cholesterol Synthesis Pathways in Monocyte-Derived Macrophages Link CMV and HIV to Atherosclerosis

Katelyn O'Hare, Brian Richardson, Emily Bowman, Banumathi Tamilselvan, Vargab Baruah, Christine O'Connor, Cheryl Cameron, Mark Cameron, Nicholas Funderburg, Michael L. Freeman

847

Endothelial Colony-Forming Cells From People With HIV Display an Interferon Gene Signature

Akif A. Khawaja, Robert Maughan, Ishrat Jahan, Lida Kabir, Koralia Paschalaki, Mark Nelson, Ruth Byrne, Anna Randi, Graham Taylor, Charis Pericleous, Marta Boffito, Michael Emerson

WEDNESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

848



CHIP Is Associated With Plasma Inflammatory Biomarkers and Vascular Events in People With HIV on ART

Caroline H. Sheikhzadeh, Alton Barbehenn, Stephanie Kuang, Sonia Savur, Danny Li, Xiuping Chu, Colin T. Maguire, Rafick P. Sekaly, Jeffrey A. Tomalka, Brian Agan, Anuradha Ganesan, Joseph Yabes, Alexander Bick, Priscilla Hsue, Sulggi Lee

849



ALDH Activity as a New Marker of Subclinical Atherosclerosis During ART-Treated HIV-1 Infection

Jonathan Dias, Etienne Moreira Gabriel, Tomas Raul Wiche Salinas, Abdelali Filali-Mouhim, Sylla Mohamed, Marc Messier-Peet, Julie Moreaux, Madeleine Durand, Carl Chartrand-Lefebvre, Jean-Pierre Routy, Nicolas Chomont, Mohamed El-Far, Cécile Tremblay, Petronela Ancuta

Poster Session-K6 | Statins: Impact and Usage

2:30 PM - 4:00 PM • Poster Hall

850

Statin Effect Heterogeneity on Plaque Volume and Composition in the REPRIEVE Mechanistic Substudy

Borek Foldyna, Xiner Zhou, Thomas Mayrhofer, Julia Karady, Jana Taron, Marton J. Kolossvary, Kayla Paradis, Sara McCallum, Markella V. Zanni, Carl Fichtenbaum, Judith Aberg, Pamela Douglas, Heather Ribaudo, Steven Grinspoon, Michael T. Lu, for the REPRIEVE Study Team

851

People With HIV at High Cardiovascular Risk Were Undertreated With Statins

Stefan Esser, Lukas Schipper, Sarah Albayrak-Rena, Stefanie Sammet, Felix Maischack, Laven Mavarani, Anja Potthoff, Martin Hower, Boerge Schmidt, Sebastian Doff, Dirk Schadendorf, Maximilian Platte, for the HIV HEART Aging Cohort Study Group

852

Low-Density Lipoprotein Changes in People With HIV Initiating Statins for Primary Prevention

Thibaut Davy-Mendez, Sonia Napravnik, Carol E. Golin, Joseph J. Eron, Stephen A. Berry, April C. Pettit, Greer Burkholder, Joseph A. Delaney, Mari Kitahata, Edward Cachay, George Yendewa, Kenneth Mayer, Richard Moore, Katerina Christopoulos, Ross J. Simpson, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)

853



Time-Updated Win Ratio Aligns With Primary REPRIEVE Findings and Suggests Early Pitavastatin Benefit

Emma Davies Smith, Pamela Douglas, Sara McCallum, James Troendle, Marissa Diggs, Sarah Chu, Michael T. Lu, Markella V. Zanni, Steven Grinspoon, Heather Ribaudo

Poster Session-L6 | Diabetes and Metabolic Dysfunction

2:30 PM - 4:00 PM • Poster Hall

898



Incident Diabetes Among People With HIV After Switching to Integrase Strand Transfer Inhibitors

Y. Joseph Hwang, Catherine Lesko, Todd Brown, G. Caleb Alexander, Lauren Zalla, Jarratt Pytell, Seun Falade, Richard Moore, Keri N. Althoff, Jonathan Colasanti, M. John Gill, Vincent C. Marconi, Michael Horberg, Maile Karris, Anthony Todd Fojo, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA



- 899 Decreased Adipose Tissue Gene Expression After a 48-Week Switch From an INSTI Regimen to TDF/3TC/DOR**
Christine Katlama, Antoine Faycal, Kenza Ngono-Ayssi, Luminita Schneider, Marc-Antoine Valantin, Claudine Duvivier, Zineb Ouazene, Christia Palacios, Aissata Didine Kaba, Yasmine Dudoit, Claire Lagathu, Veronique Béréziat, Lambert Assoumou, Jacqueline Capeau, **Jennifer Gorwood**, for the ADDORE Study Group
- 900 In Vitro Modulation of Adipocyte Differentiation by TAF/ TDF After Challenge With New ARV Regimens**
Maria Aurora Carleo, Paolo Maggi, Emiliano Del Genio, Alfonso Baldi, Antonio De Luca, Vincenzo Esposito
- 901 HIV-Induced Immunomodulation and Cardiometabolic Disease Development in Mice on High-Fat Diets**
 **Victoria R. Stephens**, Laventa Obare, Xiuqi Zhang, Kisyua Nthenge, Eseoghene Ogaga, Joshua Simmons, Mona Mashayekhi, Antentor Hinton Jr, David Harrison, Annet Kirabo, Celestine Wanjalla
- 902 HIV and Antiretrovirals Have Unique In Vivo Effects on Insulin Resistance in HIV**
Theodoros Kelesidis, Ravikanth Nanduri, Leila Fotoohabadi, Arnaud Kombe Kombe, Pratik Lama Tamang, Philip Hamid, Athanassios Kossyvakis, Shubhendu Sen Roy, Alka Khaitan, Emily Sims, Samir K. Gupta
- 903 Menopause Is Associated With Faster Increases in Insulin Resistance in Women With HIV**
Rebecca Abelman, Yifei Ma, Cyra C. Mehta, Qian Yang, James B. Brock, Maria L. Alcaide, Anjali Sharma, Michelle Floris-Moore, Elizabeth F. Topper, Kathleen M. Weber, Seble Kassaye, Deborah Gustafson, Cecile D. Lahiri, Phyllis C. Tien
- 904 Obstructive Sleep Apnea and Prevalent Diabetes Mellitus in the Multicenter AIDS Cohort Study**
 **Wassim A. Bouhsane**, Naresh M. Punjabi, Sanjay R. Patel, Valentina Stosor, Joshua H. Cho, Gypsyamber D'Souza, Joseph Margolick, Todd Brown, for the MACS/WIHS Combined Cohort Study (MWCCS)
- 905 Impact of HIV Infection on Adipose Tissue Fibrosis and Its Association With Insulin Resistance**
Diana L. Alba, MoonKyung Choi, Alaa Abdellatif, Stephen Brown Mayfield, Thuy Pham, David Berrios, Judy Gonzalez-Vargas, Antonio Rodriguez, Marin Ewing, Tony R. Figueroa, Dawei Bu, Steven G. Deeks, Philipp E. Scherer, Suneil K. Koliwad, Peter W. Hunt
- 906 Early Pregnancy Insulin Dynamics in South African Women With HIV on Dolutegravir: The ORCHID Study**
Julia Goedecke, Georgia Roussos, Kristina Utzschneider, Elton Mukonda, Justine Legbedze, Allison Zerbe, Landon Myer, Elaine Abrams, Hlengiwe Madlala, Sandisiwe M. M. Matyesini, Jody Rusch, Jami Josefson, Patrick Catalano, **Jennifer Jao**, for the ORCHID Study



Poster Session-L7 | Other Comorbidities

2:30 PM - 4:00 PM • Poster Hall

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Noncommunicable Diseases: A Significant Cause of Death Among People Living With HIV in Nigeria

Chiamaka H. Onuoha, Kehinde Balogun, Olaposi Olatoregun, Uchechukwu Chinedu, Chinenyenwa Henshaw

908

Risk Factors for Osteonecrosis Among People With HIV in Care Across the US in the Current ART Era

Heidi M. Crane, Robin M. Nance, Stephanie A. Ruderman, Bridget M. Whitney, Paola Nicoletti, Edward Cachay, Lydia N. Drumright, Richard Moore, George Yendewa, Kenneth Mayer, Geetanjali Chander, Michael Saag, Mari Kitahata, Inga Peter, Joseph A. Delaney, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)

909



Validation of SCORE and OST for Osteoporosis Risk Estimation in People Aging With HIV in Peru

Joselito Malca Hernandez, Ahmed Abdeen, Daniel Granda, Yvett Pinedo Ramirez, Flor Gonzales, Miguel Tapia, Patricia Garcia, Evelyn Hsieh

910

Prevalence, Incidence, and Correlates of Autoimmune Diseases in People With HIV From 1997 to 2023

Emanuela Zappulo, Alessandro Tavelli, Giulia Micheli, Cristina Seguiti, Sara De Benedittis, Adriana Cervo, Giordano Madeddu, Giuseppe Lapadula, Roberta Gagliardini, Miriam Lichtner, Andrea Gori, Giulia Marchetti, Antonella Castagna, Antonella d'Arminio Monforte, for the Icona Foundation Study Group

911

Disparities in Hospitalization Among People in the HIV Outpatient Study, United States, 2008-2022

Jun Li, Qingjiang Hou, Frank Palella, Rick Novack, Alexander Ewing, Ellen Tedaldi, Cynthia Mayer, Cynthia Frinhaber, Kalliope Chagaris, Kimberly Carlson, **Kate Buchacz**, for the HIV Outpatient Study

912

Uncovering Differential Disparities at the Intersection of Race, Sex, & HIV in Patients With Sepsis

Gwenyth L. Day, Anuj B. Mehta, Kristine M. Erlandson, **Joshua A. Barocas**

913



HIV Status and Psychiatric Diagnoses Among Transgender and Gender-Diverse Individuals

Fanghui Shi, Xueying Yang, Ruilie Cai, Jiajia Zhang, Sayward Harrison, Shan Qiao, Xiaoming Li

914

Kynurenine-Tryptophan (KT) Ratio and Inflammatory Biomarkers Associated With COPD in People With HIV

Stephanie A. Ruderman, **Kristina Crothers**, Engi F. Attia, Lydia N. Drumright, Kenneth Mayer, George Yendewa, Sonia Napravnik, Laura Bamford, Edward Cachay, Michael Saag, Richard Moore, Heidi M. Crane, Joseph A. Delaney, Peter W. Hunt, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)



915



Characteristics of Secondary Hemophagocytic Lymphohistiocytosis in People Living With HIV/AIDS

Xavier A. Flores-Andrade, Amy B. Peralta-Prado, Alvaro López-Iñiguez, Gonzalo Salgado-Montes de Oca, Jesús Delgado-de la Mora, Andrea Cárdenas-Ortega, Alberto Magallanes-López, Angel G. Vargas-Ruiz, Ana P. Rodríguez-Zulueta, Ethel Cesarman, Santiago Avila Rios

916



Safety of Full-Spectrum Cannabidiol for PWH: A Double-Blind, Randomized, Placebo-Controlled Study

Clémence Couton, Mathilde Wanneveich, Barbara De Dieuleveult, Elodie Pougoue Touko, Chloé Robin, Helene Klein, Kossi Ayena, Alicia Harry, Elodie Villalonga-Rosso, Laurent Hocqueloux, Lucile Mollet, Thierry Prazuck

Poster Session-M3 | PASC: Biological Clues to Pathogenesis

2:30 PM - 4:00 PM • Poster Hall

935

Long COVID Associates With Slow Viral Clearance and Viral Rebound During Acute SARS-CoV-2 Infection

Carly Herbert, Nisha Ramdeep, **AnnuKka Antar**, John Broach, Colton Wright, Pamela Stamegna, Katherine Luzuriaga, Nathaniel Hafer, David McManus, Yukari Manabe, Apurv Soni

936

Preserved Adrenal Function in People With Long COVID

AnnuKka Antar, Armaan Jamal, Zoe O. Demko, Elizabeth Pasetes, Tamilore Adeagbo, Selin Akbas, Cherie Marvel, Andrea Cox, Michael Peluso, Alan Landay, Neal Fedarko, Amir Hamrahian, Tracy Vannorsdall, Alba M. Azola, Yukari Manabe

937

Lack of Association of SARS-CoV-2 N- and S-Antigenemia With Long COVID

AnnuKka Antar, Perrine Lallemand, Zoe O. Demko, Armaan Jamal, Nuria Gallego Marquez, Tamilore Adeagbo, Selin Akbas, Elizabeth Pasetes, Paul Blair, Katy Shaw-Saliba, Andrea Cox, Michael Peluso, Robin Dewar, Alan Landay, Yukari Manabe

938

Exploring the Molecular Pathways of Long COVID With Post-Exertional Fatigue: A Multiomic Approach

Silvia Chafino-Aixa, Maria Nevot, Cora Loste, Francisco Muñoz-López, Gemma Lladós, Cristina Lopez Rodriguez, José Ramón Santos, Bonaventura Clotet, Roger Paredes, Francesc Vidal, Joaquim Peraire, Lourdes Mateu, Anna Rull, **Marta Massanella**, for the KING Cohort Study Group

939

Distinct Proinflammatory/Proangiogenetic Signatures Distinguish Children With Long COVID

Danilo Buonsenso, Nicola Cotugno, Paolo Palma

940



Plasma Biomarkers in Children and Young People With Long COVID

Jon Izquierdo-Pujol, Victor Urrea, Maria C. Puertas, Judith Dalmau, Alba González-Aumatell, Clara Carreras-Abad, Maria Méndez, Carlos Rodrigo, Javier Martinez-Picado, Sara Morón-López

WEDNESDAY



New Investigator
Scholarship Awardee



Late-Breaking
Abstract

941



Key Inflammatory Biomarkers Differentiate MIS-C From Convalescent COVID-19 and Kawasaki Disease

Tetyana Pidkova, Rosa Maria Pino Ramirez, Víctor Urrea, Marta Vidal, Ruth Aguilar, Gemma Moncunill, Jordi Antón, Carlota Dobaño, Claudia Fortuny Guash, Julià Blanco, Benjamin Trinité

942



Immune Profile of Children With Post-COVID-19 Cardiac Contractility Alterations: A Prospective Study

Costanza Di Chiara, Anna Cantarutti, Jolanda Sabatino, Domenico Sirico, Francesco Bonfante, Daniele Donà, Anita De Rossi, Carlo Giaquinto, Maria Raffaella Petrara, Giovanni Di Salvo

943

Autoantibody Prevalence After SARS-CoV-2 Infection: Comparing Baltimore, USA, and Rakai, Uganda

Adam Epstein-Shuman, Joanne H. Hunt, **Xianming Zhu**, Reinaldo Fernandez, Grace Rozek, Patrizio Caturegli, Ronald Galiwango, Godfrey Kigozi, M. Kate Grabowski, Larry W. Chang, Andrew D. Redd, Yu-Hsiang Hsieh, Steven J. Reynolds, Oliver Laeyendecker

944

Novel Plasma Biomarkers for the Detection of Long COVID Defined by Multiapproach Analysis

Mohamed R. Joma, Gildas Bertho, Cédric Caradeuc, Samuel Lebourgeois, Julien Pansiot, Lara Tabet, Rachelle Saleh, Wiem Bouchneb, Isabelle Pellegrin, Pierre Gressens, Esaïe Marshall, Agathe Goumbard, Dominique Salmon-Ceron, Luc De Chaisemartin, Mireille Laforge, for the NeuroDiderot Research Group

945

ACE2 Autoantibodies in Post-Acute Sequelae of SARS-CoV-2 Infection

Melissa Aagsalda-Garcia, Alan F. Garcia, Tiffany Shieh, Gehan Devendra, Dominic C. Chow, Cecilia M. Shikuma, Juwon Park

946



Shared Autoantibody Signature Is Not Identified in CSF During Long COVID

Debanjana Chakravarty, Thomas Ngo, Lindsay S. McAlpine, Jennifer Chiarella, Allison Nelson, Iris Tilton, Ravi Dandekar, Vishal Lashkari, PeiXi Chen, Kelsey Zorn, Shelli Farhadian, Serena Spudich, Samuel Pleasure, Michael Wilson

947



Post-Acute SARS-CoV-2 Antigenemia Is Associated With Some but Not All Long COVID Symptoms

Michael Peluso, Thomas Dalhuisen, Zoe Swank, Sarah Goldberg, Scott Lu, Samuel Han, Jessica Chen, Emily Fehrman, Khamal Anglin, Rebecca Hoh, Timothy J. Henrich, Dan Kelly, Steven G. Deeks, David Walt, Jeffrey Martin, for the UCSF LIINC Team

Poster Session-N5 | Cryptococcal Meningitis: Where Do We Go From Here?

2:30 PM - 4:00 PM • Poster Hall

973

Uptake of New Guidelines for Cryptococcal Meningitis in Botswana, Malawi, Uganda, and Zimbabwe

Jane Gakuru, Eltas Nyirenda Dziwani, Tshepo Leeme, Constantine Mutata, David B. Meya, Mosepele Mosepele, Henry Mwandumba, Chiratidzo Ndhlovu, Sile Molloy, Thomas S. Harrison, Joseph N. Jarvis, **David S. Lawrence**



- 974 Clinical Outcomes of People With HIV-Cryptococcal Meningitis on the New Treatment Regimen in Uganda**
Olivie C. Namuju, Richard Kwizera, Lillian Tugume, David R. Boulware, David B. Meya
- 975 Trends in Cryptococcal Meningitis Mortality Using Routine Longitudinal National Data From Botswana**
 **James Milburn**, Ookeditse Ntwayagae, Jodie Russell, Tony Chebani, Tshepo Leeme, David S. Lawrence, Daniel Grint, Mark Tenforde, Ava Avalos, Dinah Ramaabya, Justus Ogando, Margaret Mokomane, Madisa Mine, Joseph N. Jarvis
- 976 Pathway to Care Among Inpatients With Symptomatic Cryptococcal Meningitis in Johannesburg, SA**
Lia F. Edkins, Raphaella Berghammer-Bohmer, Asha MK Thombrayil, Jeremy Nel, Merika Tsitsi, Susan T. Meiring, Rudzani C. Mashau, David S. Lawrence, Kennedy Mupeli, Joseph N. Jarvis, Thomas S. Harrison, Tom Boyles, Nelesh P. Govender, Rachel Wake, Síle Molloy, for the IMPRINT Research Group
- 977 CMV and EBV Co-Infections and Mortality Risk in Patients With HIV-Associated Cryptococcal Meningitis**
 **Jayne P. Ellis**, Elisabetta Groppelli, Ronan Doyle, David S. Lawrence, David B. Meya, David R. Boulware, Henry Mwandumba, Cecilia Kanyama, Mina C. Hosseinipour, Graeme Meintjes, Conrad Muzoora, Mosepele Mosepele, Chiratidzo Ndhlovu, Thomas S. Harrison, Joseph N. Jarvis, for the AMBITION Study Group
- 978 Catastrophic Healthcare Expenditure From Cryptococcal Meningitis in Eastern and Southern Africa**
David S. Lawrence, Charles Muthoga, Jack Adams, Buhle Ndweni, Cecilia Kanyama, Graeme Meintjes, David B. Meya, Mosepele Mosepele, Henry Mwandumba, Conrad Muzoora, Chiratidzo Ndhlovu, Síle Molloy, Thomas S. Harrison, Lucy Cunnam, Joseph N. Jarvis, for the AMBITION Study Group

Poster Session-N6 | OI Pathogenesis and Recent Trends in ART and OI Treatment Outcomes

2:30 PM - 4:00 PM • Poster Hall

- 979 Epigenetic Changes With *T. gondii* in Brains of People With HIV and Their Possible Link to Gliomas**
Megha S. Srivatsa, Momtahina Tahmida, So Youn Shin, Sara Gianella Weibel, Ajay Bharti, Scott L. Letendre, Ronald Ellis, David Moore, Sarah LaMere
- 980 Factors Associated With Virologic Suppression in People Living With HIV and Tuberculosis in Brazil**
Ronaldo Coelho, Lara E. Coelho, Céila L. Szwarcwald, Cristina Pimenta, Sandra Wagner Cardoso, Valdilea Gonçalves Veloso, Beatriz Grinsztejn, Draurio Barreira, **Nathalie De Castro**

981 Recent Trends in Opportunistic Infections at ART Initiation in the NA-ACCORD of IeDEA, 2017-2021
Jonas Kulakauskas, Kate Buchacz, John T. Brooks, Jennifer O. Lam, M. John Gill, Michael Horberg, Maile Karris, Emily C. Williams, Kathleen McGinnis, Catherine Lesko, Richard Moore, **Keri N. Althoff**, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

982 Ceftriaxone or Aqueous Penicillin for Neurosyphilis: A Mexican Multicentric Retrospective Study
 **Rodrigo Ville Benavides**, Hector O. Rivera-Villegas, Luz A. Gonzalez-Hernandez, Pamela Alatorre-Fernández, Rafael Franco-Zendejas, Estefanía Sienra-Iracheta, Juan Carlos Rodríguez-Aldama, Edgar Pérez-Barragán, Jezer I. Lezama-Mora, Norma Eréndira Rivera-Martínez, Andrea Cárdenas-Ortega, Paulina Carreño-Pérez, Obed Ocampo-Valdez, Jaime F. Andrade Villanueva, Brenda E. Crabtree Ramirez, for the ANTS (Alternative Neurosyphilis Therapy Studies) Group

983 Burden of Opportunistic Infections and Causes of Death in Hospitalized Patients With AHD in Vietnam
Nam Xuan Ha, Dat Quoc Vu, Dieu Quang Nguyen, Ly Trieu Vo, Thach Ngoc Pham, Cuong Do Duy, Hao Thi Nguyen, Men Thi Trinh, Dao Thi Hong Phan, Chau H. T. Tran, Phuong Le Trinh, Khanh Hoang Dang, Thu Nguyen, H. Rogier van Doorn, Thuy Le, for the Talaromycosis Study Group

Poster Session-05 | HIV Acquisition and Prevention During Pregnancy and Breastfeeding
2:30 PM - 4:00 PM • Poster Hall

1005 Incident HIV Infection Among Pregnant Women in Botswana Has Decreased Since 2022
Aamirah Mussa, Gloria K. Mayondi, Modiegi Diseko, Judith Mabuta, Mompoti Mmalane, Joseph Makhema, Shahin Lockman, Jeffrey W. Imai-Eaton, Sikhulile Moyo, Chelsea Morroni, Rebecca Zash, Roger Shapiro

1006 Social Determinants Associated With Recent HIV Infection in Treatment-Naïve Pregnant Women in Malawi
Shuntai Zhou, Rachel Burdorf, Nathan Long, Gerald Tegha, Maganizo B. Chagomerana, Allan Jumbe, Madalitso Maliwichi, Shaphil Wallie, Yijia Li, Ronald I. Swanstrom, Mina C. Hosseinipour

1007 STI Testing Is Associated With Lower PrEP Discontinuation Among Women Initiating PrEP in Pregnancy
 **Jerusha Mogaka**, Felix Abuna, Eunita Akim, John Kinuthia, Lauren A. Gomez, Mary Marwa, Chelsea Morroni, Aamirah Mussa, Nancy Ngumbau, Celestine Adogo, Peter Okoth, Salphine Watoyi, Barbra Richardson, Grace John-Stewart, Jillian Pintye

1008 Impact of Offering PrEP Choice on HIV Incidence in High-Risk Pregnant Women in Kenya
 **Tessa Concepcion**, John Kinuthia, Felix Abuna, Eunita Akim, Lauren A. Gomez, Emma Mukenyi, Nancy Ngumbau, Jerusha Mogaka, Ben Ochieng, Monisha Sharma, Grace John-Stewart, Jillian Pintye

- 1009 PrEP Adherence and Acceptability of Urine Tenofovir Testing in Pregnant and Postpartum Women**
Dvora L. Joseph Davey, Kalisha Bheemraj, Rufaro Mvududu, Nafisa Wara, Sumaya Dadan, Kathryn L. Dovel, Monica Gandhi, Landon Myer

- 1010 TFV-DP Concentrations in PBMCs and Safety of Daily Directly Observed F/TDF PrEP During Pregnancy**
 **Linxuan Wu**, Peter Anderson, Nelly Mugo, Matilda Saina, Clare E. Brown, Torin Schaafsma, Katherine K. Thomas, Deborah J. Donnell, Elena A. Rechkina, Bhavna H. Chohan, Kenneth Ngunjiri, Sarah Mbugua, Elex Hill Bachelors, Lane Bushman, Kenneth K. Mugwanya, for the Women Benchmark Study Team

Poster Session-06 | Emerging Perspectives on Perinatal HIV Transmission

2:30 PM - 4:00 PM • Poster Hall

- 1011 Vertical HIV Transmission: Substantial Reductions but Not Elimination With Universal ART**
Nisha Jacob, Emma Kalk, Alexa Heekes, Florence Phelanyane, Kim Anderson, Mary-Ann Davies, Brian Rice, Andrew Boulle

- 1012 The Role of Maternal Broadly Neutralizing Antibody Activity in Perinatal Transmission of HIV-1**
 **Krithika Karthigeyan**, Dieter Mielke, Christian R. Binuya, Ria Goswami, Olusola Omonije, Elena Giorgi, Justin Pollara, John Isaac, Joshua Eudailey, Megan Connors, Carolyn Weinbaum, Sallie Permar

- 1013 ART Reverses Negative Natural Selection of HIV Disease-Linked HLA-I in KwaZulu-Natal, South Africa**
 **Nicholas G. Herbert**, Gabriela Z. L. Cromhout, Nomonde Bengu, Thilona Arumagam, Veron Ramsuran, Thumbi Ndung'u, Sunetra Gupta, Christian Brander, Mary Carrington, Bridget Penman, Philip Goulder

Poster Session-P5 | Risks and Responses to ART

2:30 PM - 4:00 PM • Poster Hall

- 1050 Infants With HIV Starting ART Within 4 Months of Age Can Achieve Sustained Undetectable HIV-1 DNA**
 **Alfredo Tagarro**, Kavidha Reddy, Sara Dominguez-Rodriguez, Shaun Barnabas, Kennedy Otumbe, Maria G. Lain, Almoustapha Maiga, Pablo Rojo, Louise Kuhn, Paolo Palma, Nicola Cotugno, Eleni Nastuoli, Carlo Giaquinto, Thumbi Ndung'u, Paolo Rossi, for the EPIICAL Consortium

- 1051 Hospitalization Incidence Among Young Children Living With HIV in the Western Cape, South Africa**
Kim Anderson, Brian S. Eley, Helena Rabie, Rudzani Muloiwa, James Nuttall, Lisa J. Frigati, David M. le Roux, Thandi Wessels, Jaco Murray, Vanessa Mudaly, Gayathri Sridhar, Leigh Ragone, Vani Vannappagari, Jonathan Euvrard, Mary-Ann Davies

1052 Inflammatory Cytokines in ART-Naive Kenyan Children Diagnosed With HIV at Hospital Admission

Lasata Shrestha, Irene Njuguna, Elizabeth M. Obimbo, Lisa Marie Cranmer, **Emily R. Begnel**, Daisy Chebet, Judith Adhiambo, Kenneth A. Tapia, Barbra Richardson, Hellen M. Okinyi, Cheryl Day, Grace John-Stewart, Dalton Wamalwa, Jennifer Slyker

1053 HIV Viral Load Patterns Since Dolutegravir Initiation in Children and Adolescents Living With HIV

Sophie Desmonde, Joycelyn Dame, Emile Sodinyessi, Agatha David, Sylvie N'Gbeche, Madeleine Amorissani-Folquet, Mariam Sylla, Kouadio Kouacou, Lehila Bagnan Tossa, Caroline Yonaba, Valérie Leroy, for the IeDEA Pediatric West African Database on AIDS (pWADA)

1054 Viral Suppression 12 Months After Switch to Dolutegravir by nRTI Backbone in Children/Adolescents

Renee de Waal, Andrew Boule, Carolyn Bolton-Moore, Safari Mbewe, Karl-Gunter Technau, Cleophas Chimbetete, Cordelia Kunzekwenyika, Geoffrey Fatti, Idiovino Rafael, Nosisa Sipambo, Irene Ayakaka, Mark Cotton, Mary-Ann Davies, Lee Fairlie, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - Southern Africa

1055 Transitioning Adolescents With HIV to TDF/3TC+DTG Improves Virologic Outcome: CIPHER-ADOLA Study

Yagai Bouba, **Aude Christelle Ka'e**, Maria Mercedes M. Santoro, Daniele Armenia, Davy-Hyacinte Gouissi, Alex Durand Nka, Suzie Tetang, Rachel Kamgaing, Francis Ateba, Annie Nga Motaze, Paul Koki Ndombo, Alexis Ndjolo, Carlo-Federico Perno, Francesca Ceccherini-Silberstein, Joseph Fokam, for the CIPHER-ADOLA Study Group

1056 Prevalence and Consequences of Low-Level Viremia Among Adolescents Living With HIV in South Africa

Zea Leon, Olanrewaju Edun, Siyanai Zhou, Gayle Sherman, Elona Toska

1057 HIV-1 Drug Resistance at Low- and High-Level Viremia in Kenyan Youth on Dolutegravir-Based Therapy

Rami Kantor, Winstone Nyandiko, Joel Hague, Allison DeLong, Edwin Sang, Ashley Chory, Josephine Aluoch, Eslyne Jekemboi, Millicent Orido, Joseph Hogan, Rachel Vreeman, Vlad Novitsky

1058 Enhanced Adherence Counselling Among Adolescents With Detectable Viremia in Cameroon

Alex Durand Nka, Suzie Moyo Tetang, Yagai Bouba, Aude Christelle Ka'e, Lum Forgwei, Davy-Hyacinte Gouissi, Rachel Kamgaing, Anne Esther Njom Nlend, Paul Koki Ndombo, Alexis Ndjolo, Maria Mercedes M. Santoro, Francesca Ceccherini-Silberstein, Carlo-Federico Perno, Joseph Fokam, for the CIPHER-ADOLA Study Group

1059 Differentiated Service Delivery Programme Impact on Clinical Outcomes Among Adolescents With HIV



Lara Lewis, Jienchi Dorward, Johan van der Molen, Jennifer A. Brown, Nigel Garrett, Yukteshwar Sookrajh, Lungile Hobe, Mlungisi Khanyile, Thokozani Khubone, Francesca Little, Thulani Ngwenya

- 1060 HIV Status Disclosure Among ART-Experienced Adolescents and Young Adults in 4 African Countries**
Nicole Dear, Seth Frndak, Natalie Burns, Ajay P. Parikh, Hannah Kibuuka, John Owuoth, Valentine Sing'Oei, Jonah Maswai, Emmanuel Bahemana, Abdulwasiiu Tihamiyu, Zahra Parker, **Trevor Crowell**, Neha Shah, Julie Ake, for the African Cohort Study (AFRICOS) Study Group

Poster Session-P6 | Health and Outcomes of Young People With HIV

2:30 PM - 4:00 PM • Poster Hall

- 1061 Long-Term Outcomes of Young Adults With Perinatal HIV Infection in the US and Puerto Rico**
Leah Kern, Alicia Jaramillo-Underwood, Kunjal Patel, Renee Smith, Stephen Spector, for the Pediatric HIV/AIDS Cohort Study (PHACS)

- 1062 WITHDRAWN**

- 1063 Psychotic Disorders in Young Adults With Perinatally Acquired HIV: A Multicentre UK Study**
Indira Mallik, Madeline Robertson, Krupa Ravi, Jessica Glenn, Lauren Nicholls, Sarah Dib, Graham Frize, Sally Hawkins, Sara Ayres, Sarah Fidler, Nadia Ahmed, Elizabeth Hamlyn, Caroline Foster

- 1064 Changes in Suicidality, Depression, and Anxiety After Integrative Mental Health Care in Thai Youth**
Tavitiya Sudjaritruk, Assawin Narkpongphun, Pradthana Ounchanum, Oramai Mueangmo, Worawan Wongjak, Tanachot Chaito, Pope Kosalaraksa, for the S-BETAH Study Group

- 1065 WITHDRAWN**

- 1066 Kidney Dysfunction in Young People Living With HIV on Dolutegravir-Based Regimens in Kampala, Uganda**
 **Esther M. Nasuuna**, Robert Kalyesubula, Risa Hoffman, Chido Dziva Chikwari, Helen A. Weiss

- 1067 Long-Term Immune Response to Vaccines in Vertically Infected People Living With HIV**
Annachiara Zin, Elisa Barbieri, Giulia Brigadoi, Andrea Berlese, Lorenzo Chiusaroli, Daniele Mengato, Andrea Francavilla, Carlo Giaquinto, **Daniele Donà**, Osvalda Rampon



Poster Session-P7 | Inflammation and Cardiovascular Complications

2:30 PM - 4:00 PM • Poster Hall

1068 Characterisation of Cardiac Disease in Adolescents With HIV in the Antiretroviral Therapy Era

Edith D. Majonga, Miriam Lacharie, Betty Raman, Hilda A. Mujuru, Kirti Naik, Anoop Shah, Rashida Ferrand, Masliza Mahmod

1069 Left Ventricular Mass Adjustment for Body Size in Youth With Perinatal HIV or Perinatal HIV Exposure

George W. Sawyer, Tzy-Jyun Yao, Paige Williams, Denise L. Jacobson, Elaine M. Urbina, Steven E. Lipshultz, Steven D. Colan, for the Pediatric HIV/AIDS Cohort Study (PHACS)

1070 Distinct Metabolic and Inflammation Signatures in Urban vs Rural Ugandan Youth With HIV

Sahera Dirajlal-Fargo, Shan Sun, Kate Ailstock, Rashidah Nazzinda, Christine Karungi, Daisy O. Oryem, Robert Kidega, Victor Musiime, Cissy Kityo, Grace A. McComsey, Nicholas Funderburg

1071 US and Ugandan HIV Youth: Exploring Differences in Inflammatory, Chemokine, and Vascular Signatures

Sahera Dirajlal-Fargo, Shan Sun, Jacqueline D. Corry, Kate Ailstock, Nate Lucas, Morgan Cummings, Rashidah Nazzinda, Christine Karungi, Victor Musiime, Danielle Labbato, Brian Reinert, Namal Liyanage, Jesse Kwiek, Grace A. McComsey, Nicholas Funderburg

1072 HIV Modifies Association of Biomarkers on Cardiac Fibrosis and Inflammation in South African Youth

Jennifer Jao, Lauren Bonner, Shan Sun, Morne Kahts, Stephen Jermy, Mothabisi Nyathi, Nana Asafu-Agyei, Justine Legbedze, Emma Carkeek, Grace A. McComsey, Matthew J. Feinstein, Irwin Kurland, Landon Myer, Heather Zar, Ntobeko Ntusi, for the CTAAC-Heart Study

1073 Changes in Inflammatory Biomarkers Among Youth Living With Perinatal HIV Infection and Exposure

Russell B. Van Dyke, George W. Sawyer, Paige Williams, Wendy Yu, Armando J. Mendez, Engi F. Attia, Mariana Gerschenson, Steven E. Lipshultz, for the Cardiac Toxicity Sub-Study of the Pediatric HIV/AIDS Cohort Study

1074 Inflammation Phenotypes in Children With Perinatally Acquired HIV in South Africa



Claire Davies, Steve Innes, Patrick Bouic, Bin Tang, Kennedy Ot wombe, Mark Cotton, Sara Browne, Florin Vaida

1075 Early-Treated Children With Perinatal HIV Show Elevated Monocyte Activation Into Late Childhood



Claire Davies, Steve Innes, Florin Vaida, Bin Tang, Kennedy Ot wombe, Mark Cotton, Sara Browne, Patrick Bouic

Poster Session-Q10 | HIV and Substance Use

2:30 PM - 4:00 PM • Poster Hall

- 1144 Increasing Methamphetamine Use and Group Sex Observed in MSM With Acute HIV Infection in Bangkok**
Phillip Chan, Carlo Sacdalan, Suteeraporn Pinyakorn, Eugène Kroon, Pathariya Promsena, Luxe-Naree Poonpitak, Somchai Sriplienchan, Nitiya Chomchey, Nittaya Phanuphak, Sandhya Vasani, Adam Carrico, Robert Paul, Lydie Trautmann, Serena Spudich, Donn Colby, for the RV254/SEARCH 010 Study Team
- 1145 Unstable Housing, Methamphetamine Use, and HIV Incidence Among Racial and Ethnic Minority Men**
Marjan Javanbakht, Allison D. Rosen, Steve Shoptaw, Pamina M. Gorbach
- 1146 Substance Use Is Associated With Higher HIV Viral Load and Reduced Viral Suppression in 6 US Cohorts**
Robin M. Nance, **Ryan P. Kyle**, Richard Moore, Pamina M. Gorbach, Brian Mustanski, Shruti H. Mehta, Marianna Baum, Kenneth Mayer, Peter W. Hunt, Oluwaseun Falade-Nwulia, Edward Cachay, Raul N. Mandler, Geetanjali Chander, Heidi M. Crane, Lydia N. Drumright
- 1147 Missed Opportunities for Drug Use Screening and Discussions Among People With HIV**
 **Sydney Bornstein**, Blair Altman, Hannah Yellin, Madhu Balachandran, Irene Kuo, Manya Magnus
- 1148 Impact of Residing or Injecting in Testing Center Catchments on HIV Testing in Churachandpur, India**
 **Talia A. Loeb**, Allison M. McFall, Mihili Gunaratne, Jiban J. Baishya, Ashwini Kedar, Archit Sinha, A. K. Srikrishnan, Sunil S. Solomon, Gregory M. Lucas, Shruti H. Mehta
- 1149 HIV Outcomes Among People With HIV Who Inject Drugs in West Virginia**
Rebecca Reece, Nicole Bryan, Sally L. Hodder
- 1150 Scope of the Overdose Crisis: Fatal Overdoses Among People With HIV Experiencing a Nonfatal Overdose**
 **Megan E. Marziali**, Katherine Kooij, Wendy Zhang, Michael Budu, Silvia S. Martins, Julio S. G. Montaner, Robert S. Hogg
- 1151 Progress Towards UNAIDS 95-95-95 Targets Among PWID Living With HIV Over 10 Years in Punjab, India**
Ashwini Kedar, Allison M. McFall, **Griffin J. Bell**, Talia A. Loeb, Mihili Gunaratne, Jiban J. Baishya, Archit Sinha, A. K. Srikrishnan, Sunil S. Solomon, Gregory M. Lucas, Shruti H. Mehta
- 1152 The Impact of Semaglutide on Alcohol Use Among People With HIV in Routine Clinical Care in the US**
Heidi M. Crane, Robin M. Nance, L. Sarah Mixson, Stephanie A. Ruderman, Bridget M. Whitney, Andrew W. Hahn, Mari Kitahata, Amanda Willig, Lara Haidar, Kaitlin A. Zinsli, George Yendewa, Allison Webel, Edward Cachay, Joseph A. Delaney, Geetanjali Chander, for the Centers for AIDS Research Network of Integrated Clinical Systems (CNICS)

WEDNESDAY

Poster Session-Q11 | HIV Transmission Insights Through Phylogenetics

2:30 PM - 4:00 PM • Poster Hall

1153 Introduction and Acquisition of HIV-1 Related to Recent Migration to Quebec (2016-2023)

Bluma Brenner, Réjean Thomas, **Jean-Pierre Routy**

1154 HIV Molecular Clusters Attributed to Sexual Transmission in the United States, 2015-2023

Kathryn G. Curran, Nivedha Panneer, Karen Schlanger, Anne Marie France, Alexa M. Oster

1155 Changing Clustering Rates in the Rhode Island HIV-1 Epidemic

Vlad Novitsky, Jon Steingrimsen, August Guang, Casey Dunn, Fizza Gillani, Joel Hague, John Fulton, Thomas Bertrand, Lila Bhattarai, Meghan MacAskill, Utpala Bandy, Joseph Hogan, **Rami Kantor**

1156 Evolution of HIV-1 A6 Clusters in Poland Following Full-Scale Armed Conflict in Ukraine



Karol Serwin, Kaja Mielczak, Anna Urbańska, Bogusz Aksak-Was, Piotr Ząbek, Ewa Siwak, Iwona Cielniak, Paweł Jakubowski, Monika Bociąga-Jasik, Bartosz Szetela, Malwina Karasińska-Cieślak, Magdalena Witak-Jędra, Miłosz Parczewski

1157 People Living With HIV Diagnosed Late Provide Source of HIV Infection to Others With Recent Diagnosis



Evangelia G. Kostaki, Georgios Adamis, Maria Chini, Simeon Metallidis, Vasileios Papastamopoulos, Dimitrios Chatzidimitriou, Antonios Papadopoulos, Mina Psychogiou, Dimitra Paraskeva, Sofia Kourkounti, Helen Sambatakou, Angelos Hatzakis, Gkikas Magiorkinis, Lemonia Skoura, Dimitrios Paraskevis

1158 Distribution of HIV-1 Variants in Population-Based National Surveys in Sub-Saharan Africa, 2015-2022

Peter D. Ghys, Jessica E. Justman, Andrew C. Voetsch, Alash'le Abimiku, Sani Aliyu, Hetal Patel, Joshua DeVos, Kristin Brown, Faith Ussery, Bharat Parekh, Chéri van der Walt, Vibha Kana, Sizulu Moyo, Mary Mahy, Joris Hemelaar

Poster Session-Q12 | Life Expectancy and Mortality Among People With HIV

2:30 PM - 4:00 PM • Poster Hall

1159 Life Expectancy Among Virally Suppressed Women and Men With HIV in the Bronx, New York, 1997-2021

Brandilyn A. Peters, Melissa Fazzari, Uriel R. Felsen, Heidi E. Jones, Mindy S. Ginsberg, David B. Hanna, Kathryn Anastos

1160 Mortality Trends Among Persons With Perinatal HIV in United States and Territories, 1978-2022

Preetam Cholli, Xueyuan Dong, Margaret A. Lampe, Yang Liu, Jessica Fridge, **Athena Kourtis**, Alexandra Balaji, Kate Buchacz



- 1161 Mortality in the HIV Outpatient Study (HOPS), Trends and Risks: 2007-2022**
Kimberly Carlson, Qingjiang Hou, Alexander Ewing, Kate Buchacz, Jonathan Mahnken, **Frank Palella**, Kalliope Chagaris, Rick Novack, Ellen Tedaldi, Jun Li
- 1162 Reducing HIV Diagnoses and Mortality Rate Further Increases Aging Resource Needs for PWH Into 2040**
Siobhan M. O'Connor, Ruiguang Song, Alex Viguerie, Kate Buchacz, Paul Farnham, Cynthia M. Lyles, Scott Grytdal, Angela B. Hutchinson, **John T. Brooks**
- 1163 Factors Associated With Mortality Among People With Advanced HIV Disease in Rural Uganda, 2018-2021**
Kabali Bwogi, Justine K. Nakiwala, Catherine N. Lwanira, Christopher Bwanika, Ivan Kasamba, Joseph B. Baluku, Jane Nakawesi, Joseph Kabanda, Julius Ssempiira, Grace Namayanja, Julius Kalamya, Catherine Senyimba, Ronald Mulebeke, Arthur Fitzmaurice, Barbara Mukasa
-  **1164 Projecting Demographics and Causes of Death Among People With HIV in Western Europe to 2050**
Julie Ambia, Ard van Sighem, Nikos Pantazis, M. John Gill, Sophie Abgrall, Antonella d'Arminio Monforte, Robert Zangerle, Andreu Bruguera, Janne Vehreschild, Matthias Cavassini, Inma Jarrin, Fabrice Bonnet, Jonathan A. C. Sterne, Suzanne M. Ingle, Adam Trickey
- 1165 Causes of Mortality Among Persons Living With HIV in Thailand, 2007-2022**
Wiphawee Kiatchanon, Niramorn Punsuwan, Sanny Northbrook, Suchunya Aungkulanon, Apiratee Kanphukiew, Jennifer Favaloro, Poonchana Wareechai, Cheewanan Lertpiriyasuwat
- 1166 Text Clustering Model for Defining Cause of Death Among PLHIV in Thailand (2020-2022)**
Apiratee Kanphukiew, Wiphawee Kiatchanon, Niramorn Punsuwan, Khunkansasi Pimpakhan, Suchunya Aungkulanon, Cheewanan Lertpiriyasuwat, Poonchana Wareechai, Natdanai Khosanam, Anunthawip Chaimao, Sanny Northbrook
- 1167 Changes Over Calendar Time in Discrimination of Prognostic Models for People With HIV Starting ART**
Martina Cusinato, **Suzanne M. Ingle**, Adam Trickey, Linda Wittkop, Ard van Sighem, Robert Zangerle, Enrico Girardi, Matthias Cavassini, Bernadino Roca, Amy Justice, Sophie Grabar, Niels Obel, Inma Jarrin, Andreu Bruguera, Jonathan A. C. Sterne, for the Antiretroviral Therapy Cohort Collaboration (ART-CC)
- 1168 Clinical Outcomes in Lung Transplantation in People Living With HIV: A Competing Risk Analysis**
German Contreras, George Golovko
- 1169 Epigenetic Age Acceleration and Mortality Among Persons Who Inject Drugs With Poorly Controlled HIV**
Jing Sun, David W. Sosnowski, April Shu, Hsing-Yu Hsu, Jill A. Rabinowitz, Shruti H. Mehta, Damani A. Piggott, Brion S. Maher, Gregory Kirk, for the AIDS Linked to the Intravenous Experience (ALIVE) Study Group



Poster Session-Q13 | HIV Epidemiology

2:30 PM - 4:00 PM • Poster Hall

- 1170 The HIV Epidemic Is Growing Faster in Countries Excluded From Gilead Voluntary Licenses**
Samuel Cross, Toby Pepperrell, Cassandra Fairhead, Andrew Hill
- 1171 Characteristics and Needs of Adult Lifetime Survivors With HIV in the United States, 2015-2022**
 Margaret A. Lampe, John Weiser, Xin A. Yuan, Sahithi Kalari, Kate Buchacz, Alexis Henderson, **Athena Kourtis**, Jason Craw, Joseph Prejean, Alexandra Balaji, Linda Beer
- 1172 Clinical and Programmatic Factors Associated With Low-Level Viremia in West Africa**
Ebiere C. Herbertson, Thierry Tiendrebeogo, Karen Malateste, Henri Chanal, Eugène Messou, Abert Minga, Armel Poda, Ephrem Mensah, Oliver Ezechi, Antoine Jaquet, Ighovwerha Ofotokun, Cecile D. Lahiri, for the International Epidemiology Databases to Evaluate AIDS (IeDEA) Collaboration - West Africa
- 1173 WITHDRAWN**
- 1174 WITHDRAWN**
- 1175 Prevalence and Risk Factors of HIV Viral Blips in the NA-ACCORD, 2010-2020**
Raynell Lang, Morris Chan, Jintong Yan, Michael Horberg, Jennifer O. Lam, Vincent C. Marconi, Keri N. Althoff, Joseph J. Eron, Kelly Gebo, M. John Gill, Maile Karris, Mona Loutfy, Haidong Lu, Richard Moore, Viviane D. Lima, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA
- 1176 Time From HIV Infection to Diagnosis Using CD4 Depletion Model: Thailand, 2014-2021**
Suchunya Aungkulanon, Wolfgang Hladik, Cheewanan Lertpiriyasuwat, Anne Peruski, Rommel Bain, Ruiguang Song, Poonchana Wareechai, Sanny Northbrook



Poster Session-R3 | Challenging and Innovative HIV Testing

2:30 PM - 4:00 PM • Poster Hall

- 1191 HIV Serologic Reactivity in Persons With HIV Who Started ART During Acute/Early Stages of Infection**
Vivian I. Avelino-Silva, Mars Stone, Clara Di Germanio, Eduard Grebe, Brian Custer, Steve Kleinman, Xutao Deng, Sandhya Vasan, Nittaya Phanuphak, Carlo Sacdalan, Siriwat Akapirat, Mark S. Souza, Michael P. Busch, Philip J. Norris, for the NHLBI Recipient Epidemiology and Donor Evaluation Study-IV-Pediatric (REDS-IV-P)
- 1192 Laboratory-Based HIV-1/2 Ag/Ab Immunoassay Performance in the United States, 2019-2023**
Patricia A. Bessler, Weiming Zhu, Allison Lale, Kevin Delaney, Ya-Lin A. Huang, Karen W. Hoover
- 1193 Use of DNA Profiling to Resolve Discrepant HIV Tests in the Setting of Injectable Cabotegravir PrEP**
Jessica M. Fogel, M. Ali Salih, Kathy Haddaway, Mark A. Marzinke, Christi Marshall, Zhe Wang, Vanessa Cummings, Estelle Piwowar-Manning, James F. Rooney, Marybeth McCauley, Beatriz Grinsztejn, Raphael J. Landovitz, Susan H. Eshleman, for the HPTN 083 Study Team
- 1194 Can HIV Testing Data and Recent HIV Infection Surveillance Identify Similar Signals of Transmission?**
Misheck Luhanga, Joe Theu, Melissa Arons, Reno Stephens, Davie Chalira, James L. Tobias, Alinune Kabaghe, Danielle Payne, Khumbo Namachapa, Evelyn Kim, Nellie Wadonda
- 1195 Preferences for HIV Testing Technologies in Seattle, Washington: A Mixed-Methods Study**
 **Lauren R. Violette**, Lisa A. Niemann, Maggie Murphy, Andy Cornelius-Hudson, Carl Capili, Joanne Stekler
- 1196 Clinical Validation of iMune qPCR as a Novel Solution to CD4 Counting Off Dried Blood Spots**
 **Tracy M. Sungu**, Riffat Munir, Denise Lawrie, Wendy S. Stevens, Lesley E. Scott
- 1197 Screening of MPXV, VZV, HSV-1, and HSV-2 Causing Mucocutaneous Vesicular Rashes by Multiplex HRM-PCR**
 Raphael Lumembe-Numbi, Prince Akil-Bandali, Fiston Cikaya-Kankolongo, Chloé Musuamba-Kayembe, Kinganda-Lusamaki Eddy, Placide Mbala-Kingebeni, Francisca Muyembe-Mawete, Martine Peeters, Angélique Rousseau, Nans Picout, Faustine Durand, Nadege Nziza Trouchaud, Steven Henry, Vincent Foulogne, **Joany Guy**
- 1198 Impact of Point-of-Care HIV-1 RNA Testing on Time to HIV Confirmation and ART Start in Buenos Aires**
Carina Cesar, Guillermo Vilorio, Agustin Nava, Ana Gun, Luciano Maldonado, Jonathan Garcia, Victoria Viera, Diego Salusso, Felipe Bilbao, Carla Petriglieri, Julian Garcia, Daniela Converso, Mariana Kundro, Maria I. Figueroa, Pedro Cahn

WEDNESDAY

1199



Characteristics of First-Time HIV Self-Testers Using the Online HIV Service ‘Stand By You’

Kantarida Sripanidkulchai, Supattra Rungmaitree, Theppharit Thiamprasert, Yuitiang Durier, Alan Maleesatharn, Suthat Chottanapund, Thanawong Buason, Pichapun Pongsakul, Usanee Kritsanavarin, Yenjit Somphoh, Pornvilai Uruchutchairut, Benjawan Khumcha, Kulkanya Chokephaibulkit

Poster Session-S6 | Innovations in PrEP Products

2:30 PM - 4:00 PM • Poster Hall

1232



MK-8527 PK/PD Threshold and Phase II Dose Selection for Monthly Oral HIV-1 Preexposure Prophylaxis

Yash Kapoor, Barbara Evans, Russ P. Carstens, Tracy Diamond, Anjana Grandhi, Gillian Gillespie, Peggy May Tan Hwang, Ryan Vargo, Randolph Matthews, Jesse C. Nussbaum, Rebeca M. Plank

1233

A Biodegradable Implant Releasing Low-Dose Islatravir Protects Macaques From Rectal SHIV Infection

Jiyoung S. Kim, Daniela Cruz, Daniel Kim, Archana Krovi, Chasity Norton, James Mitchell, Rachel Wier, Jeannette Dienhart, Mackenzie Cottrell, Seidu Inusah, Gregory Gatto, Walid Heneine, Gerardo Garcia-Lerma, Charles Dobard, **Leah Johnson**

1234



Qualitative Assessment of Acceptability and Preferences for Injectable and Oral PrEP in PURPOSE 1

Elizabeth Montgomery, Katherine Gill, Timothy S. Hardwick, Imogen Hawley, Heeran Makkan, Tara McClure, Cecilia Milford, Nzwakie Mosery, Amukelani Nyathi, Siyanda Tenza, Alinda M. Nyamaizi, Alexander Kintu, Christoph Carter, Moupali Das, Thesla Palanee-Phillips, for the PURPOSE 1 Qualitative Study Team

1235

Cost-Effectiveness of Community Pharmacy-Based HIV PrEP for Men Who Have Sex With Men in Atlanta

Jacinda Tran, Marita Zimmermann, Anu Mishra, Ryan Hansen

1236



Long-Acting Injectable CAB/MPA MPT Implant for Prevention of HIV and Unintended Pregnancy

Jasmine King, Isabella Young, Mackenzie Cottrell, Craig Sykes, Angela Kashuba, Rahima Benhabbour

1237

WITHDRAWN

1238

Dose-Ranging Pharmacokinetics and Efficacy of a 90-Day Multipurpose IVR Delivering Islatravir

Priya Srinivasan, Jasmine King, Jining Zhang, Isabella Young, Dawn Little, Mackenzie Cottrell, Craig Sykes, James Mitchell, Angela Kashuba, Gerardo Garcia-Lerma, **Rahima Benhabbour**, James Smith

Poster Session-T5 | DoxyPEP Reflections

2:30 PM - 4:00 PM • Poster Hall

- 1275 Post-Exposure Prophylaxis With Doxycycline (Doxy PEP) in a Cohort of High-Risk MSM: The PRIDOX Study**
Cristina Gómez-Ayerbe MD, PhD, Jesús Santos, María Lopez Jodar, Salvador Martín-Cortés, Isabel Pérez-Hernández, Andrés González, Rosario Palacios
- 1276 Doxycycline Post-Exposure Prophylaxis Continuum of Care Among MSM in Philadelphia, 2023**
Tanner Nassau, Kathleen Brady
- 1277 Characteristics of Breakthrough Chlamydia Cases Among Cisgender Women Assigned to Doxycycline PEP**
Jenell Stewart, Lauren R. Violette, Felix Ong'era Mogaka, Victor Omollo, Deborah J. Donnell, Josephine Odoyo, Elizabeth A. Bukusi, Jared M. Baeten, for the dPEP Kenya Study Team
- 1278 Acceptability of Doxycycline as Post-Exposure Prophylaxis in Southeastern Louisiana**
Shafay Shams, Jared Barrilleaux, Blane Edwards, Clare Kelsey, Hope Oddo Moise, Leandro Mena, Patricia Kissinger, Rebecca Lillis, Meredith Clement
- 1279 Factors Influencing Doxy-PEP Awareness Among Sexual/Gender Minorities: A Web-Based Survey in Brazil**
Mayara Secco Torres da Silva, Thiago Torres, Carolina Coutinho, Brenda Hoagland, Emilia Moreira Jalil, Marcos Benedetti, Cristina Pimenta, Sandra Wagner Cardoso, Paula Luz, Valdilea Gonçalves Veloso, Beatriz Grinsztejn
- 1280 Young Black Sexually Minoritized Men Living With HIV, Substance Use, and Syphilis Want Doxy-PEP**
Jade Pagkas-Bather, Ella Wiger, Ellen Almirol, Justin Knox, Yen-Tyng Chen, Dustin Duncan, John Schneider
- 1281 Increased Knowledge and Use of Doxycycline Postexposure Prophylaxis in King County, Washington**
Jennifer E. Balkus, Courtney Moreno, Francis Slaughter, Karen Chung, Chase Cannon, Tim W. Menza, Matthew Golden, Sara Glick
- 1282 The Actual Need for DoxyPEP Might Not Be as Large as Expected**
Roberto Rossotti, Daniele Calzavara, Enrico Caruso, Anna De Bona, Davide Moschese, Camilla Muccini, Daniele Tesoro, Pietro Vinti, Massimo Cernuschi, Alessandro Tavelli, Antonella d'Arminio Monforte, Giuseppe Lapadula
- 1283 Topical Doxycycline Inserts Show High Efficacy Against Vaginal Chlamydia Acquisition in Macaques**
David A. Garber, M. Melissa Peet, Hongwei Jia, J. Harrison Priode, James Mitchell, Chuong Dinh, Eric Edwards, Richard Haaland, Vivek Agrahari, Meredith R. Clark, S. Ajay Vishwanathan, Janet McNicholl, Gustavo F. Doncel, Walid Heneine, for the CDC Division of HIV Prevention CLIA Laboratory

WEDNESDAY

1284



Antimicrobial Consumption Among Users of Doxycycline Post-Exposure Prophylaxis in Milan, Italy

Angelo Roberto Raccagni, Sara Diotallevi, Riccardo Lolatto, Elena Bruzzesi, Flavia Badalucco Ciotta, Giacomo Ponta, Flavia Passini, Caterina Candela, Camilla Muccini, Antonella Castagna, Silvia Nozza

1285

Antimicrobial Resistance of *N. gonorrhoeae* at a Community-Based Clinic, 2023-2024

Jun Tao, Hannah Parent, Walther Pfiefer, Kristen Azevedo, Sean Sierra Patev, Glen Gallagher, Thomas Bertrand, Suzanne Bornschein, Richard Huard, Erick Costa, Yelena Malyuta, Max Erbe, Alexi Almonte, Amy Nunn, **Philip A. Chan**

1286



Effectiveness of Ceftriaxone Monotherapy for Gonorrhea Treatment

Chiara Fusetti, Federica Salari, Francesco Petri, Alberto Rizzo, Andrea Giacomelli, Andrea Cavallo, Francesco Caruso, Lorian Morelli, Cristina Gervasoni, Davide Mileto, Maria Vittoria Cossu, Alessandra Lombardi, Agostino Riva, Andrea Gori, Davide Moschese

1287

Prevalence of Tetracycline-Resistant Gonorrhea in British Columbia's HIV Treatment and PrEP Program

Raquel M. Espinoza, Paul Sereda, **K. Junine Toy**, Peter Phillips, Victor Leung, Rolando Barrios, Julio S. G. Montaner

1288

DoxyPrEP Impact on the Microbiome of Men Who Have Sex With Men and Transgender Women on HIV PrEP

Adam D. Burgener, **Troy Grennan**, Samantha Knodel, Marlon De Leon, Alana Lamont, Joshua Edward, Saira Mohammed, Tessa Tattersall, Jason Wong, Mark Hull, Amit Gupta

Poster Session-U7 | PrEP and PEP Use

2:30 PM - 4:00 PM • Poster Hall

1341



A Comparative Analysis of Access and Retention of Oral PrEP and CAB-LA at 1 Month in Zambia

Damian J. Phiri, Mwaka Musonda, Mutinta Nyumbu, Adamson P. Ndhlovu, Lackey Kawanga, Jemmy Musangulule, Martha Mulenza

1342

Patterns of PrEP Use Among Rural South Africa Youth Given Choice: Process Data From the LAPIS Trial

Maryam Shahmanesh, Jacob Busang, Thembelihle Zuma, Carina Herbst, Nonhlanhla Okesola, Natsayi Chimbindi, Nqobile Ngoma, Jaco Dreyer, Theresa Smith, Lucky Mtolo, Willem Hanekom, Limakatso Lebina, Janet Seeley, Andrew Copas, Kathy Baisley, for the LAPIS Study Group

1343

Peer Mobilisation Into Sexual Health Clinics Creates PrEP Demand Among High-Risk Rural Youth in SA

Maryam Shahmanesh, Rohey A. Bangura, Jacob Busang, Thembelihle Zuma, Carina Herbst, Nonhlanhla Okesola, Natsayi Chimbindi, Nqobile Ngoma, Jaco Dreyer, Lucky Mtolo, Theresa Smith, Limakatso Lebina, Janet Seeley, Andrew Copas, Kathy Baisley, for the Thetha Nami ngithethe nawe (Let's Talk) Research Group



- 1344** **Injectable Cabotegravir PrEP Discontinuations at a Peer Specialist-Led Program in Washington, DC**
Megan E. Dieterich, **Juan Carlos Loubriel**, Monica E. Gouzoulis, Erin E. Kelley, David A. Fessler, Meghan Davies, Rachel E. McLaughlin, Sarah Henn, H. Jonathon E. Rendina
- 1345** **Outcomes From a Multilevel Trial With Clinics and Young Women for PrEP in South Africa**
Courtney P. Bonner, **Alexandra Minnis**, Felicia A. Browne, Ilene S. Speizer, Laura Nyblade, Jacqueline Ndirangu, Tracy Kline, Ayanna Smith, Khatija Ahmed, Wendee M. Wechsberg
- 1346** **Impact of CAB-LA Versus Oral PrEP in Reducing HIV Incidence Among MSM in Thailand: A Modelling Study**
David Van de Vijver, Artit Wongsu, Jeroen van Kampen, Haoyi Wang, Kai J. Jonas, Rena Janamnuysook, Stephanie Popping, Nittaya Phanuphak
- 1347** **PrEP Use Trajectories and HIV Incidence Among PrEP Users in Brazil: Findings From the ImPrEP Study**
Carolina Coutinho, **Beatriz Grinsztejn**, Brenda Hoagland, Marcelo Cunha, Iuri Leite, Ronaldo Ismério, Mayara Secco Torres da Silva, Maria Cristina Abbade, Alessandro S. Farias, Jose Valdez Madruga, Marcos Benedetti, Cristina Pimenta, Thiago Torres, Valdilea Gonçalves Veloso, for the ImPrEP CAB Brasil Study Group
- 1348** **US Socioeconomic Disparities and Geographic Variations in HIV Preexposure Prophylaxis Providers**
Li Tao, Juan Yang, Chris Nguyen, Joshua Gruber, Kristin Baker, Julia Green, Dona Khoshabafard, Gina Brown, Woodie Zachry
- 1349** **Social Networks Influence PrEP Use and Preference for Long-Acting PrEP Among MSM In Baltimore**
Steven J. Clipman, Amit (Mickey) Dhir, Rose P. Kaptchuk, Miles Landry, Katie J. C. Zook, Allison M. McFall, Shruti H. Mehta, Sunil S. Solomon
- 1350** **Disparities in PrEP Use Among Latinx and Black Transgender Women in Los Angeles County, 2019 vs 2023**
Yingbo Ma, Kwa Sey
- 1351** **Early PEPFAR Implementation of Cabotegravir-LA and Implications for Long-Acting HIV Prevention**
 Carly E. LoVullo, Ashley Vij, Natasha Thaweesee, Nuha Naqvi, Trista Bingham, Emily K. Dokubo

Poster Session-U8 | PrEP Choice and Preferences

2:30 PM - 4:00 PM • Poster Hall

- 1352** **“I Like It but I Can’t Be the First”: Sex Workers’ Preferences for LAI PrEP Delivery in South Africa**
Katherine Rucinski, Venessa Chen, Chitra Singh, Nosipho Dladla, Nombuso Matenjwa, Emma McNeilly, Joel Steingo, Mfezi Mcingana, Carly Comins, Joseph G. Rosen, Amrita Rao, Stefan Baral, Harry Hausler, Sheree Schwartz

- 1353 HIV PrEP Method Preferences Among Transgender and Gender-Diverse Adults in the United States**
Dovie L. Watson, Louis Listerud, Ryan A. Drab, Willey Y. Lin, Florence Momplaisir, Jose Bauermeister
- 1354 Expanding the PrEP Market: Early Insights Offering Oral, Ring, and CAB PrEP in Sub-Saharan Africa**
 Nicolette Naidoo, Mark Conlon, Mu-Tien Lee, Carolyn Akello, Margaret Eichleay, Elizabeth Irungu, Emily Gwavava, Kevin Kórimba, Patricia Jeckonia, Imelda Mahaka, Rose Wilcher, Saiqa Mullick, Virginia Fonner, Ashley Mayo, Kristine Torjensen, for the CATALYST Study
- 1355 Long-Acting PrEP Preference Among Brazilian Sexual and Gender Minorities: Key Influencing Factors**
Thiago Torres, Mayara Secco Torres da Silva, Carolina Coutinho, Brenda Hoagland, Emilia M. Jalil, Sandra W. Cardoso, Marcos Benedetti, Cristina Pimenta, Paula Luz, Valdilea Gonçalves Veloso, Beatriz Grinsztejn
- 1356 PrEP Choices Among Sexual and Gender Minorities in Brazil: The ImPrEP CAB-LA Study**
 Carolina Coutinho, **Beatriz Grinsztejn**, Brenda Hoagland, Alessandro S. Farias, Jose Valdez Madruga, Josué Lima, Maria Paula Mourão, Ronaldo Zonta, Marcos Benedetti, Cristina Pimenta, Pedro Leite, Gabrielle O'Malley, Thiago Torres, Valdilea Gonçalves Veloso, for the ImPrEP CAB Brasil Study Group
- 1357 Acceptability of Long-Acting Cabotegravir Among Pregnant and Lactating People in South Africa**
 **Nafisa Wara**, Carey Pike, Elzette Rousseau, Pippa Macdonald, Pakama Mapukata, Bryan Leonard, Keitumetse Lebelo, Risa Hoffman, Catherine Orrell, Linda-Gail Bekker, Dvora L. Joseph Davey
- 1358 Regional Disparities in DoxyPEP Uptake Despite High Awareness Among MSM With HIV in the US**
 **Tyler Martinson**, Megan J. Heise, Kevin Sassaman, Hannah R. Schmidt, Alexa D'Angelo, Shivani Mahuvakar, Dustin Duncan, Keith J. Horvath, Sabina Hirschfield, Renessa Williams, Mallory O. Johnson, Christian Grov, Adam Carrico, Monica Gandhi, Matthew A. Spinelli

Poster Session-U9 | Long-Acting Injectable ART Implementation

2:30 PM - 4:00 PM • Poster Hall

- 1359 Characteristics of People With HIV Prescribed Long-Acting Cabotegravir/Rilpivirine in a US Cohort**
 **Sita Lujintanon**, Catherine Lesko, Matt Hickey, Lauren Zalla, Lucas Hill, Edward Cachay, Heidi M. Crane, Kenneth Mayer, Sarah E. Rutstein, Greer Burkholder, George Yendewa, April C. Pettit, Allan Rodriguez, Mallory O. Johnson, Katerina Christopoulos
- 1360 Clinical Consequences of Delaying Implementation of LA-ART for PWH With Persistent Viremia in the US**
 Ruitian Hu, Michelle Jones, Pamela Pen-Erh Pei, Wanyi Chen, Paul Sax, Ankur Pandya, Krishna Reddy, Emily Hyle, **Kenneth A. Freedberg**

- 1361 Longitudinal Renal Safety of a Population-Level TDF-Based HIV PrEP Program in British Columbia**
Raquel M. Espinoza, **K. Junine Toy**, Rosie B. Murphy, Shannon Bytelaar, Jason Trigg, Erin Ding, Erin Ready, Paul Sereda, David Moore, Rolando Barrios, Julio S. G. Montaner
- 1362 Disposition of Referrals for Long-Acting Antiretrovirals at the Ward 86 HIV Clinic in San Francisco**
 **Chesa Cox**, Francis Mayorga-Munoz, Anthonia Chimezie, Janet Grochowski, Diana Gleyzer, Matt Hickey, Katerina Christopoulos, Mary Shiels, Jon Oskarsson, Monica Gandhi
- 1363 Impact of 6-Monthly ART Dispensing on Retention in Malawi: A Target Trial Emulation Study**
Khumbo Shumba, Idah Mokhele, Elizabeth Kachingwe, Lise Jamieson, Matthew P. Fox, Sydney Rosen, Timothy Tchereni, Wyness Phiri, Stanley Ngoma, Rose Nyirenda, Sophie J. S. Pascoe, Amy Huber



Poster Sessions by Category

All poster sessions will be held from 2:30 PM to 4:00 PM on the scheduled day (listed in parentheses below). Posters should be displayed for the duration of the conference and are located in the Poster Hall.

A. Virology of HIV, SARS-CoV-2, or MPXV

- P-A1 Mpox and HIV Virology (Monday)
- P-A2 HIV-1 Envelope and Viral Tropism (Monday)
- P-A3 Persistence and Evolution of SARS-CoV-2 (Tuesday)
- P-A4 Nuclear Events in HIV-1 Replication and the Control of Gene Expression and Viral Production (Tuesday)
- P-A5 Antiviral Inhibition of Viral Replication and Evasion by HIV-1 (Wednesday)

B. Pathogenesis of HIV, SARS-CoV-2, or MPXV: Human Studies and Animal Models

- P-B1 Non-HIV Viruses (Monday)
- P-B2 Host-HIV Interaction (Monday)
- P-B3 Effect of HIV on the Immune System (Tuesday)
- P-B4 Nonimmune Effects of HIV Infection (Tuesday)
- P-B5 HIV and Inflammation (Wednesday)
- P-B6 Animal Models of Infection (Wednesday)

C. Host Immune Responses, Vaccines, and Immunotherapies: HIV, SARS-CoV-2, or MPXV

- P-C1 CD8 T Cells in Infection and After Vaccination (Monday)
- P-C2 B Cells and Neutralizing Antibodies (Monday)
- P-C3 Using Vaccines for Therapy (Tuesday)
- P-C4 Preventive Vaccine Strategies (Tuesday)
- P-C5 Immunity to Mpox (Tuesday)
- P-C6 Natural-Born Killers: NK Cells (Tuesday)
- P-C7 New Concepts in Immunotherapy (Tuesday)
- P-C8 Coordinated Immune Responses and Viral Control (Wednesday)
- P-C9 Immunity to SARS-CoV-2 and Other Viruses (Wednesday)

D. HIV Reservoirs, Latency, and Cure

- P-D01 Viral Rebound and Control (Monday)
- P-D02 Strategies for an HIV Cure (Monday)
- P-D03 HIV Reservoirs in Cells and Tissues (Tuesday)
- P-D04 Transcription in the HIV Reservoir (Monday)
- P-D05 Novel Interventions Toward an HIV Cure (Monday)
- P-D06 Immune Pressure on HIV Reservoirs (Tuesday)
- P-D07 HIV Clones in the Reservoir (Tuesday)
- P-D08 HIV Reservoir Landscape and Dynamics (Wednesday)
- P-D09 Molecular Mechanisms of HIV Persistence and Latency (Wednesday)
- P-D10 HIV Reservoirs in Tissues (Wednesday)

E. Neuropathogenesis and Neurologic Complications of HIV and SARS-CoV-2 Infection and Neurologic Complications of HIV in Adults

- P-E1 Neuroimaging in HIV (Monday)
- P-E2 Biomarkers for NeuroHIV Informing Pathogenesis (Monday)

- P-E3 Omics Approaches to Pathogenic Interrogation of NeuroHIV (Monday)
- P-E4 Addressing NeuroHIV in Lower- and Middle-Income Settings (Tuesday)
- P-E5 It's All About the Vessels: NeuroHIV and Vascular Dysfunction (Tuesday)
- P-E6 CNS HIV Reservoirs (Wednesday)
- P-E7 Aging and NeuroHIV: Understanding Pathogenesis and Trajectories (Wednesday)

F. Clinical Pharmacology in Adults

- P-F1 The Next Generation: Pharmacology of New Drugs, Formulations, and Modeling Strategies (Monday)
- P-F2 Drug-Drug Interactions and Pharmacology Challenges With Important Coconditions (Tuesday)
- P-F3 Pharmacokinetics in the Real World: Long-Acting Drugs, Alternative Matrices, and Adherence (Wednesday)

G. Antiviral Therapy: Preclinical Data, Randomized Trials, Efficacy, and Effectiveness Studies in HIV, SARS-CoV-2, or MPXV in Adults

- P-G1 Antiviral Therapy: Simplify, Modify, and Why! (Monday)
- P-G2 Long-Acting Therapy: What Observational Data Tell Us About the "Real World" (Tuesday)
- P-G3 ART in Vulnerable and Treatment-Experienced Populations (Wednesday)
- P-G4 New Agents and Novel Administration (Tuesday)
- P-G5 Antiviral Therapy for SARS-CoV-2 (Wednesday)

H. Resistance of HIV or SARS-CoV-2 to Small Molecules and Antibodies in Adults

- P-H1 HIV Resistance to bNAbs, Cabotegravir, GS 1720, and Other Agents (Monday)
- P-H2 Epidemiology of HIV Drug Resistance (Tuesday)
- P-H3 Clinical Impact of Drug Resistance in Trials and Cohorts (Wednesday)
- P-H4 Dolutegravir Resistance (Wednesday)

I. Hepatitis Viruses and Liver Complications in Adults

- P-I1 Hepatitis C Treatment and Outcomes (Monday)
- P-I2 Steatotic Liver Disease (Monday)
- P-I3 HBV Diagnostics and Treatment (Tuesday)
- P-I4 Hepatitis Epidemiology and Immunology (Wednesday)

J. HIV-Related Malignancies and Tumor Viruses

- P-J1 Liver Cancer, Lung Cancer, and NADC Pathogenesis (Monday)
- P-J2 Kaposi Sarcoma: Diagnosis, Treatment, Pathogenesis, and KSHV (Monday)
- P-J3 HIV-Related Cancer: Epidemiology, Incidence, Demographics (Tuesday)
- P-J4 Cervical and Anal Cancer: Prevention and Screening (Wednesday)

K. Cardiovascular Complications of HIV Infection and Antiretroviral Therapy

- P-K1 Heart Failure: Hiding in Plain Sight (Monday)
- P-K2 Hypertension (Monday)
- P-K3 Antiretroviral Therapy and CVD Risk (Tuesday)

- P-K4 CVD Risk Prediction (Wednesday)
- P-K5 Atherosclerosis and Vascular Disease (Wednesday)
- P-K6 Statins: Impact and Usage (Wednesday)

L. Other Complications of HIV Infection and Antiretroviral Therapy in Adults

- P-L1 Renal Disease (Monday)
- P-L2 GLP-1 Receptor Agonists (Monday)
- P-L3 Biomarkers of Aging (Monday)
- P-L4 Frailty and Aging (Tuesday)
- P-L5 Weight Gain (Tuesday)
- P-L6 Diabetes and Metabolic Dysfunction (Wednesday)
- P-L7 Other Comorbidities (Wednesday)

M. Clinical Manifestations and Outcomes of SARS-CoV-2, Including Long COVID

- P-M1 PASC: Natural History and Classification Systems (Monday)
- P-M2 PASC: Immunobiologic, Metabolic, and Cardiovascular Complications (Tuesday)
- P-M3 PASC: Biological Clues to Pathogenesis (Wednesday)

N. Tuberculosis and Other Opportunistic Infections, Including the Impact of HIV in Adults

- P-N1 ART-Related and Social Determinants of TB Transmission and Treatment Outcomes (Monday)
- P-N2 Pathogenesis of TB Disease/TB Drug Exposure Relationships (Tuesday)
- P-N3 Novel TB Case-Finding Strategies and Diagnostic Testing (Tuesday)
- P-N4 TB Preventive Therapy: Testing, Treatment Strategies, and Outcomes (Tuesday)
- P-N5 Cryptococcal Meningitis: Where Do We Go From Here? (Wednesday)
- P-N6 OI Pathogenesis and Recent Trends in ART and OI Treatment Outcomes (Wednesday)

O. Maternal and Fetal HIV and SARS-CoV-2

- P-O1 Long-Acting Antiretrovirals for Pregnant and Breastfeeding Women (Monday)
- P-O2 Complications in Maternal HIV (Monday)
- P-O3 Managing Maternal HIV (Tuesday)
- P-O4 Antiretrovirals and Birth Outcomes (Tuesday)
- P-O5 HIV Acquisition and Prevention During Pregnancy and Breastfeeding (Wednesday)
- P-O6 Emerging Perspectives on Perinatal HIV Transmission (Wednesday)

P. Childhood and Adolescent HIV, SARS-CoV-2, or MPXV

- P-P1 Health and Outcomes of Children Exposed to HIV/ART in Utero (Monday)
- P-P2 Exploring the Pediatric Reservoir (Tuesday)
- P-P3 Informing Cure Strategies in Children and Youth (Tuesday)
- P-P4 Pharmacokinetics, Safety, and Efficacy of Antiretrovirals (Tuesday)
- P-P5 Risks and Responses to ART (Wednesday)
- P-P6 Health and Outcomes of Young People With HIV (Wednesday)
- P-P7 Inflammation and Cardiovascular Complications (Wednesday)

Q. Epidemiology of HIV, COVID-19, and Mpox

- P-Q01 The HIV Care and Prevention Cascades: Novel Insights (Tuesday)
- P-Q02 Mpox Epidemiology (Monday)
- P-Q03 The Intersection of HIV With COVID-19 (Monday)
- P-Q04 Criminal Justice, Mental Health, and Syndemics Intersect With HIV (Monday)
- P-Q05 Epidemiology of HIV in Transgender and Nonbinary Persons (Monday)
- P-Q06 Race/Ethnicity and HIV (Tuesday)
- P-Q07 Incident HIV Infection (Tuesday)
- P-Q08 Advanced HIV (Tuesday)
- P-Q09 Sexual Partner, Sexual Risk (Tuesday)
- P-Q10 HIV and Substance Use (Wednesday)
- P-Q11 HIV Transmission Insights Through Phylogenetics (Wednesday)
- P-Q12 Life Expectancy and Mortality Among People With HIV (Wednesday)
- P-Q13 HIV Epidemiology (Wednesday)

R. Testing for HIV, COVID-19, and Mpox in Adults: New Tests, Population Studies, and Scale-Up

- P-R1 Self, Couple, and Mobile Testing (Monday)
- P-R2 Improving HIV Testing in Clinical Settings (Tuesday)
- P-R3 Challenging and Innovative HIV Testing (Wednesday)

S. Prevention of HIV, COVID-19, and Mpox in Adults

- P-S1 Choice and Options as Prevention Tools (Monday)
- P-S2 Epidemic Prevention Strategies (Monday)
- P-S3 Biomarkers and Technology to Support PrEP Use (Tuesday)
- P-S4 Barriers to Uptake and Persistence With Biomedical Prevention (Tuesday)
- P-S5 PrEP Implementation: Hopes, Dreams, and Aspirations (Tuesday)
- P-S6 Innovations in PrEP Products (Wednesday)

T. Contraception, Sexually Transmitted Infections, and Reproductive Health in Adults

- P-T1 Still Here: Syphilis (Monday)
- P-T2 Advances in Sexual and Reproductive Health in HIV (Monday)
- P-T3 Understanding HPV (Tuesday)
- P-T4 Global STI Epidemiology (Tuesday)
- P-T5 DoxyPEP Reflections (Wednesday)

U. Implementation and Scale-Up of Prevention and Treatment Interventions for HIV, and Impact of COVID-19 and Mpox on HIV-Related Programs

- P-U1 Modeling (Monday)
- P-U2 Cardiovascular Risk, Weight (Monday)
- P-U3 Mental Health (Monday)
- P-U4 Machine Learning and mHealth (Tuesday)
- P-U5 Novel Interventions (Tuesday)
- P-U6 Treatment Continuity (Tuesday)
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Session and Presentation Types

The CROI 2025 scientific program comprises various styles of presentations and sessions, each offering unique opportunities to amass new and important scientific information.

Preconference Workshops are presented before the opening session on the first day of CROI. Workshop content includes the current state-of-the-art in selected areas of HIV epidemiologic, clinical, and basic research, as well as an overview of the major themes to be presented at CROI.

Plenary Lectures are a balance of epidemiologic-, clinical-, and basic-science presentations given by leading authorities in the field. Each day of the conference features 2 plenary lectures of 25 minutes each.

Oral Abstract Sessions are 2-hour sessions presenting peer-reviewed, leading-edge research on a specific topic area. Speakers respond to questions from attendees in 1 of 2 question-and-answer periods moderated by experts in the field.

Themed Discussions include up to 5 select poster abstracts connected by a theme. A discussant provides a 5-minute introduction outlining the state of the topic field, and then each presenter gives a brief overview of their Poster Abstract in 5 minutes, followed by a rich discussion with the audience and presenters. At the conclusion of a Themed Discussion, the discussant provides a 5-minute summation highlighting key information and posing important questions for future research.

Poster Sessions comprise the majority of scientific information presented at CROI. Poster Abstract presenters are assigned to stand at their respective boards, organized by topic, on 1 of 3 conference days. Posters are available for viewing throughout the conference in the Poster Hall and in an electronic format accessible via the Mobile App. Posters may also be presented in:

- **Science Spotlights™** – Presenters may create a 2- to 3-minute video with audio narration that focuses on the research question, methodology, and key findings. Science Spotlights™ are accessible via the Mobile App or CROI webcast site.
- **PC Poster Picks** – Based on areas of expertise and personal interest, CROI Program Committee Members choose 5 to 6 Poster Abstracts that they are excited to visit in the day's Poster Session and highlight key questions for presenters.

Interactive Symposia sessions include a lively mixture of formats, such as case-based discussions, expert panels, and state-of-the-art talks followed by group discussion.

Schedule at a Glance

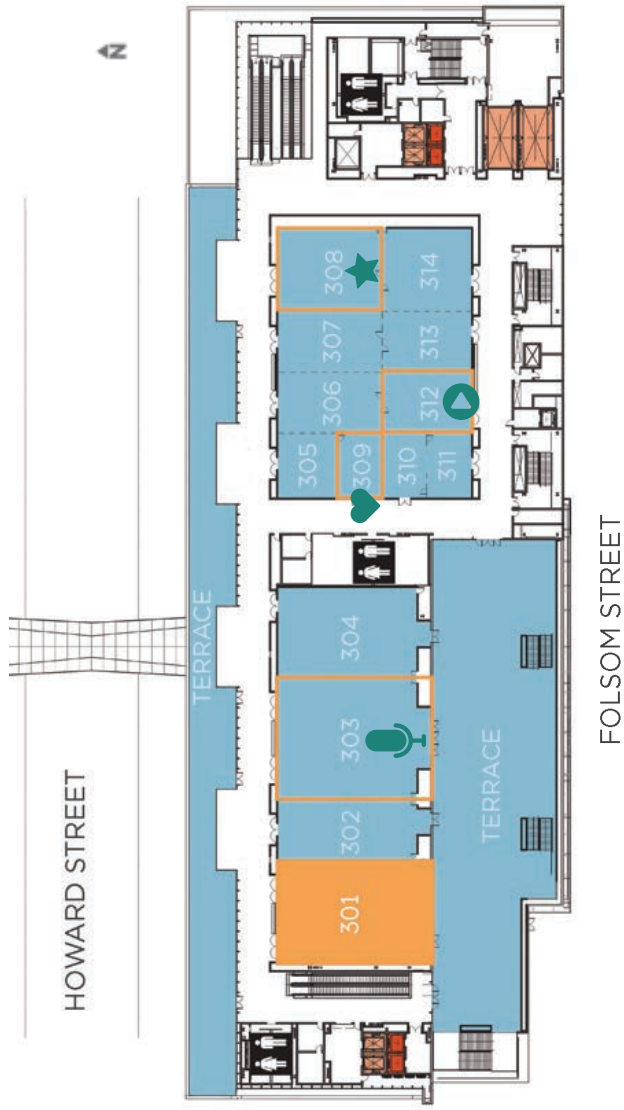
Sunday, March 9, 2025				
	San Francisco Ballroom A	San Francisco Ballroom B	San Francisco Ballroom C	San Francisco Ballroom D
8:30 AM – 12:30 PM		Scott M. Hammer Workshop for New Investigators and Trainees	Workshop Overflow	
Concurrent Technical Workshops				
2:00 PM–4:00 PM	Clinical Trial Design and Analysis	Workshop on Antiretroviral Therapy: Case-Based Panel Discussion	Frontiers in Laboratory Technologies	Case-Based Workshop on the Liver and Its Complications
Hall E				
5:00 PM – 7:00 PM	Opening Session			
	Bernard Fields Lecture: <i>How Integration Site Analyses Inform HIV Pathogenesis, Persistence, and Gene Therapy</i> Frederic D. Bushman, University of Pennsylvania, Philadelphia, PA, USA			
	Martin Delaney Presentation: <i>40+ Years of HIV: What's Changed, What Hasn't, What Shouldn't, What Must</i> Rebecca Denison, Founder of WORLD (Women Organized to Respond to Life-threatening Diseases), Oakland, CA, USA			
	N'Galy-Mann Lecture: <i>When Science Alone is Not Enough: The Intersection of Drug Use, Public Health, and Policy</i> Adeeba Kamarulzaman, Monash University Malaysia, Kuala Lumpur, Malaysia			
	Special Performance by the San Francisco Gay Men's Chorus			
7:00 PM – 9:00 PM	North Lower Lobby			
	Opening Reception			

Monday, March 10, 2025					
	San Francisco Ballroom A	San Francisco Ballroom B	San Francisco Ballroom C	San Francisco Ballroom D	Room 301
8:00 AM – 8:30 AM	North Lower Lobby				
	Continental Breakfast				
	Hall E				
8:30 AM – 9:30 AM	Monday Plenary Session <i>HIV Cure: A Translational Research Perspective</i> – Ole S. Seegaard, Aarhus University, Aarhus, Denmark <i>The Global HIV/AIDS Pandemic: Where Are We Now?</i> – Chris Beyrer, Duke University, Durham, NC, USA				
10:00 AM – 12:00 PM	Concurrent Oral Abstract Sessions Maternal-Child Health and Treatment of Malignancies	HIV Reservoirs and Cure Strategies	The Confections: Viral Hepatitis and Tuberculosis	Evolution of HIV and Mpox Epidemics	
12:15 PM – 1:15 PM	Meet the Luminary Sessions (Scholarship awardees only. Sign-up in advance is required.)				
	Concurrent Themed Discussions Meeting the Treatment and Prevention Needs of Transgender Women	Heart Failure: Hiding in Plain Sight	HIV Self-Testing: Here and Now	Down But Not Out: Elite Control of HIV	KS and KSHV: New Developments in Diagnosis, Therapy, and Pathogenesis
1:30 PM – 2:30 PM					
2:30 PM – 4:00 PM	Poster Hall Poster Sessions, including PC Poster Picks				
	Concurrent Interactive Symposia				
4:00 PM – 5:30 PM		Filling the Gaps: Challenges and Opportunities in the Care of Children and Youth With Perinatal HIV	Closing the Gaps in the HIV Response	Deciphering the Mystery of Viral Rebound	

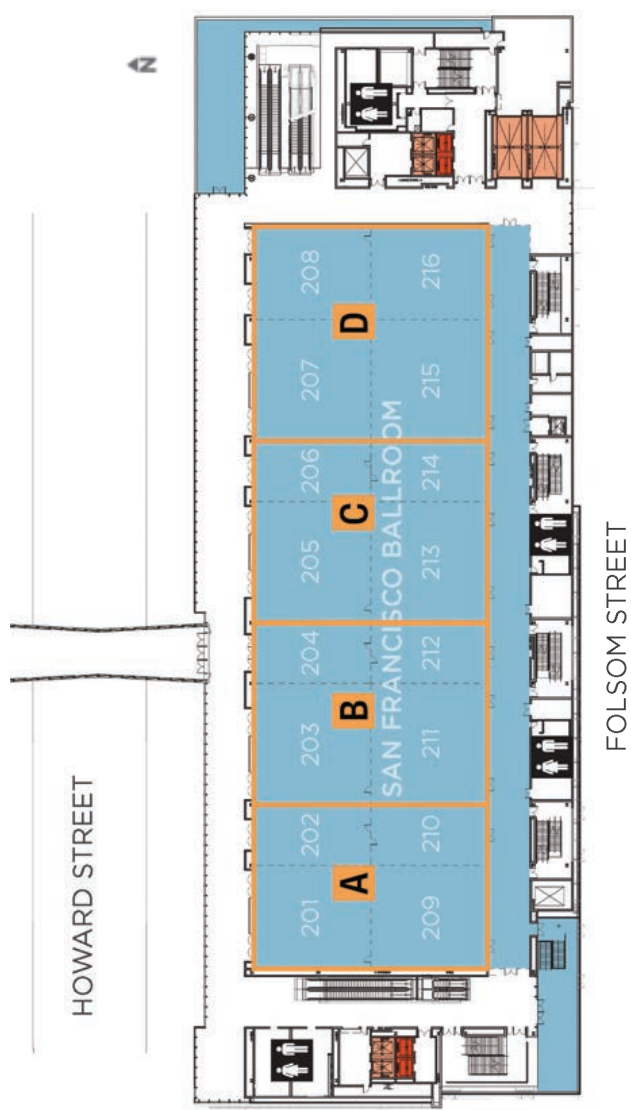
Tuesday, March 11, 2025				
	San Francisco Ballroom A	San Francisco Ballroom B	San Francisco Ballroom C	San Francisco Ballroom D
8:00 AM – 8:30 AM	North Lower Lobby			
	Continental Breakfast			
	Hall E			
8:30 AM – 9:30 AM	Tuesday Plenary Session <i>HIV in Pregnancy and Breastfeeding</i> – John Kinuthia, Kenyatta National Hospital, Nairobi, Kenya <i>Systems Vaccinology</i> – Bill Pulendran, Stanford University, Stanford, CA, USA			
	Concurrent Oral Abstract Sessions			
10:00 AM – 12:00 PM	What Do Viruses Do, and How Do They Do It?	Antivirals for HIV, MPVX, and SARS-CoV-2: New Drug Strategies and Resistance	Immunology and Vaccines	New Frontiers in STI Prevention
12:15 PM – 1:15 PM	Meet the Luminary Sessions (Scholarship awardees only. Sign-up in advance is required.)			
	Concurrent Themed Discussions			
1:30 PM – 2:30 PM	Natural-Born Killers	Machine Learning: Gearing Up for the Future	TB Infection and Prevention: Testing, Treatment, and Strategies	SARS-CoV-2 Persistence and Evolution
2:30 PM – 4:00 PM	Poster Hall			
	Poster Sessions , including PC Poster Picks			
	Concurrent Interactive Symposia			
4:00 PM – 5:30 PM		Long-Acting Preexposure Prophylaxis for HIV Prevention	Hot Topic: Menopause and HIV (4:00 PM – 5:00 PM) Tuberculosis: The Long Game (5:00 PM – 6:00 PM)	Breaking In and Setting Up Home: From HIV Nuclear Entry and Integration to Viral Gene Expression and Establishing the Reservoir

Wednesday, March 12, 2025			
	San Francisco Ballroom A	San Francisco Ballroom B	San Francisco Ballroom C
8:00 AM – 8:30 AM	North Lower Lobby		
	Continental Breakfast		
	Hall E		
8:30 AM – 8:30 AM	Wednesday Plenary Session		
	Long COVID: Causes, Consequences, and the Way Forward – Roger Paredes, Hospital Germans Trias, Pujol Badalona, Spain		
	Weight Gain in People With HIV – Jordan E. Lake, University of Texas Health Science Center, Houston, Texas, USA		
	Concurrent Oral Abstract Sessions		
10:00 AM – 12:00 PM	Gaps and Solutions in the HIV Response	Cardiometabolic Complications and Aging: The Clock Is Ticking	Viruses Always On My Mind: Neuropathogenesis From Acute HIV to SARS-CoV-2
12:15 PM – 1:15 PM		Late-Breaking Antiviral Therapy: It Doesn't Get Any Hotter Than This!	
	Concurrent Themed Discussions		
1:30 PM – 2:30 PM	"Growing Up" With HIV Exposure	Long COVID: Pathogenesis and Clinical Manifestations	Lessons in DoxyPEP Implementation
2:30 PM – 4:00 PM	Poster Hall		
	Poster Sessions, including PC Poster Picks		
	Concurrent Interactive Symposia		
4:00 PM – 5:30 PM		Making Sense of Integrate Strand Transfer Inhibitor Failure and Resistance	Pathogenesis of HIV in the Brain: The Final Frontier
			Putting People at the Center of Prevention: New Models of Delivery

Level 3 Map



Level 2 Map



Lobby Level Map

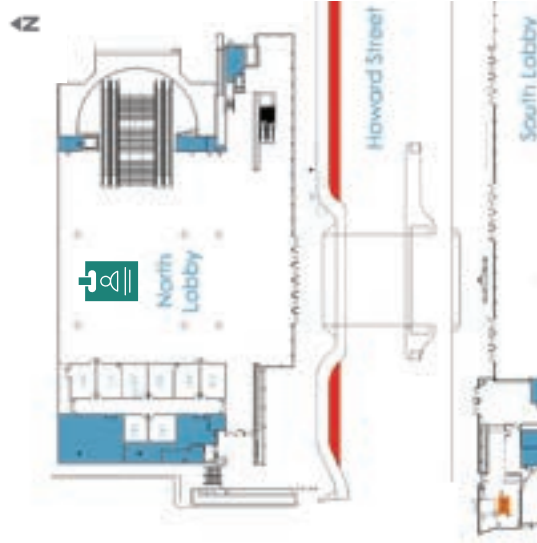


Exhibit Level Map

