

9<sup>TH</sup> EDITION DECEMBER 10-13, 2019  
**HIV PERSISTENCE  
DURING THERAPY**  
Reservoirs & Eradication Strategies Workshop

FINAL  
PROGRAM

FLORIDA  
**MIAMI** USA  
[www.hiv-persistence.com](http://www.hiv-persistence.com)

10<sup>TH</sup> EDITION

DECEMBER 2021

# HIV PERSISTENCE DURING THERAPY™

Reservoirs & Eradication Strategies Workshop



[www.hiv-persistence.com](http://www.hiv-persistence.com)

## SUMMARY

|                           |    |
|---------------------------|----|
| COMMITTEES .....          | 4  |
| WELCOME ADDRESS .....     | 5  |
| PROGRAM AT A GLANCE ..... | 6  |
| SCIENTIFIC PROGRAM .....  | 8  |
| POSTERS .....             | 19 |
| PARTNERS .....            | 34 |
| MAP .....                 | 35 |
| GENERAL INFORMATION ..... | 37 |



9<sup>TH</sup> EDITION DECEMBER 10-13, 2019  
**HIV PERSISTENCE  
DURING THERAPY™**  
Reservoirs & Eradication Strategies Workshop

### Steering Committee

Alain Lafeuillade, MD  
Infectious disease private practice, La Valette du Var – FRA

David Margolis, PhD  
University of North Carolina, Chapel Hill – USA

Karl Salzwedel, PhD  
National Institute of Allergy and Infectious Diseases, Bethesda – USA

Mario Stevenson, PhD  
University of Miami Leonard M. Miller School of Medicine, Miami – USA

### Scientific Committee

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| José Alcami, Madrid – ESP                    | Richard Koup, Bethesda – USA            |
| Monsef Benkirane, Montpellier – FRA          | Guenter Kraus, Beerse – BEL             |
| Nicolas Chomont, Montreal – CAN              | Sharon Lewin, Melbourne – AUS           |
| Tae-Wook Chun, Bethesda – USA                | Javier Martinez-Picado, Badalona – ESP  |
| Janice Clements, Baltimore – USA             | John W. Mellors, Pittsburgh – USA       |
| John Coffin, Boston – USA                    | Sarah Palmer, Sydney – AUS              |
| Steven Deeks, San Francisco – USA            | Vicente Planelles, Salt Lake City – USA |
| J. Victor Garcia-Martinez, Chapel Hill – USA | Guido Poli, Milan – ITA                 |
| Romas Geleziunas, Foster City – USA          | Christina Psomas, Montpellier – FRA     |
| Warner Greene, San Francisco – USA           | Douglas Richman, La Jolla – USA         |
| George Hanna, Princeton – USA                | Jean-Pierre Routy, Montreal – CAN       |
| Daria Hazuda, West Point – USA               | Andrea Savarino, Rome – ITA             |
| Jacques Izopet, Toulouse – FRA               | Robert Siliciano, Baltimore – USA       |
| Rowena Johnston, New York City – USA         | Carine Van Lint, Gosselies – BEL        |
| Jonathan Karn, Cleveland – USA               | Jan Van Luzen, London – UK              |

# WELCOME ADDRESS

Dear Colleagues,

Welcome to the ninth International Workshop on HIV Persistence during Therapy. Since the first edition of this workshop in 2003 in St Maarten, the issues of HIV Persistence and reservoirs have become increasingly more relevant, not only for the biologist but also for the clinician facing the problem of the long-term control of this persistent retroviral infection.

Several meetings have now included reviews on these topics in their program, but this biennial workshop is unanimously recognised as the reference workshop on HIV reservoirs and eradication strategies.

Our main objective is to keep it driven by science and new data. To this end, abstracts have undergone a rigorous selection procedure by the Scientific Committee.

This year's Workshop has focused on improving participation by young investigators, in particular through submitting oral or poster abstracts, but also through receiving grants for attendance. These scholarships have been made possible by both the National Institutes of Health and the Steering Committee involvement. We all are all very grateful for this development that we hope will bring new energy, thinking and ideas to the field.

The program format will continue to follow the past successes and include presentations of new, unpublished data and a panel of experts to sum up the current advances in the field.

Lastly, we thank all the participants who have chosen to present their work here: the excellence of the abstracts we have received undoubtedly guarantees and interesting and thought-provoking workshop.

We wish you all an enjoyable and fruitful workshop.



*Alain Lafeuillade, MD, Chairman,  
On behalf of the Steering Committee*

# PROGRAM

| Time                       | TUESDAY, DECEMBER 10                                                                            |                                                                                                                      | WEDNESDAY, DECEMBER 11                        |
|----------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 8:00<br>9:00<br>AM         |                                                                                                 |                                                                                                                      | SESSION 1:<br>Basic Science<br>of HIV Latency |
| 9:00<br>10:00<br>AM        | NIMH Satellite<br>Symposium:<br>CNS<br>and Myeloid<br>Cell Reservoirs                           | Meeting<br>of the Martin<br>Delaney<br>Collaboratories<br>Community<br>Advisory Board<br><br>HIBISCUS<br>ISLAND ROOM |                                               |
| 10:00<br>10:30<br>AM       |                                                                                                 |                                                                                                                      |                                               |
| 10:30<br>AM<br>12:30<br>PM |                                                                                                 |                                                                                                                      |                                               |
| 12:30<br>2:00<br>PM        | Lunch<br>on your own                                                                            | Lunch on your own                                                                                                    | Lunch                                         |
| 2:00<br>3:30<br>PM         | NIAID satellite symposium:<br>Martin Delaney Collaboratories<br>research highlights (SESSION 1) |                                                                                                                      | SESSION 3:<br>Virology<br>of HIV Persistence  |
| 3:30<br>4:00<br>PM         | Coffee Break                                                                                    |                                                                                                                      |                                               |
| 4:00<br>5:30<br>PM         | NIAID satellite symposium:<br>Martin Delaney Collaboratories<br>research highlights (SESSION 2) |                                                                                                                      | Poster viewing                                |
| 5:30<br>7:30<br>PM         | Opening Lecture                                                                                 |                                                                                                                      |                                               |
| 7:30<br>PM                 | Welcome Dinner                                                                                  |                                                                                                                      | Dinner on your own                            |

# AT A GLANCE

| THURSDAY, DECEMBER 12                                        | FRIDAY, DECEMBER 13                                                                          |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>SESSION 4:</b><br>Immunology<br>of HIV Persistence        | <b>SESSION 7:</b><br>Human studies<br>and drug<br>development II                             |
| Coffee Break                                                 |                                                                                              |
| <b>SESSION 5:</b><br>Human studies<br>and drug development I | <b>SESSION 8:</b><br>New Therapeutic<br>Approaches II                                        |
| Lunch                                                        | Closing Ceremony                                                                             |
| <b>SESSION 6:</b><br>New Therapeutic<br>Approaches I         | <b>ALL THE SESSIONS<br/>WILL BE IN THE MAIN<br/>PLENARY SESSION ROOM<br/>(SALON A TO E).</b> |
| with wine and cheese tasting                                 |                                                                                              |
| Dinner on your own                                           |                                                                                              |

09:00  
12:00

## **NIMH SATELLITE SYMPOSIUM: CNS AND MYELOID CELL RESERVOIRS**

Chairs: Jeymohan JOSEPH, Division of AIDS Research, NIMH - USA  
Mario STEVENSON, University of Miami - USA

09:00  
09:15

### **Session Goals and NIMH Research Priorities in CNS and Myeloid Reservoirs**

Jeymohan JOSEPH, AIDS Research, NIMH - USA

09:15  
09:30

### **Unexpected Outcomes in the Rebound Zone: Utilizing Correlative PET/CT and Multi-Scale Imaging to Define SIV Rebound After ART Cessation**

Thomas HOPE, Northwestern University - USA

09:30  
09:45

### **Macrophage-tropic HIV-1 variants populate plasma viremia in chronic and acute subjects undergoing analytic treatment interruption**

Viviane MACHADO, University of Miami - USA

09:45  
10:00

### **Evidence of HIV Persistence in Circulating Myeloid Cells: Implications for HIV-associated Complications and Remission**

Brooks MITCHELL, University of Hawaii at Manoa - USA

10:00  
10:15

### **Genetic and functional differences in the CNS vs systemic HIV-1 reservoirs**

Maria GONZALEZ PEREZ, University of Massachusetts Medical School - USA

10:15  
10:30

### **HIV-infected macrophages evade NK cell-mediated killing while driving inflammation**

Kiera CLAYTON, Ragon Institute - USA

---

 10:30 - 11:00 AM Break

---

11:00  
11:15

### **Targeting lncRNA SAF to induce apoptosis in HIV-1 infected macrophages**

Tsaikat BOLIAR, Cornell University - USA

11:15  
11:30

### **Low-level Persistent/Latent HIV-1 Infection of Macrophages Corresponds to Decreased NF- $\kappa$ B Activity**

Tim HANLEY, University of Utah Health Sciences Center - USA

11:30  
11:45

### **Effects of Blocking NOX Signaling on HIV Persistence and HIV-associated Neurocognitive Dysfunction in a Murine HAND Model**

Christina GAVEGNANO, Emory University - USA

11:45  
12:00

### **Detection and modulation of HIV reservoirs in HIV infected patients on ART**

Avi NATH, NIH - USA



## TUESDAY, DECEMBER 10, 2019

09:00  
01:30

**MEETING OF THE MARTIN DELANEY COLLABORATORIES COMMUNITY ADVISORY BOARD**  
**HIBISCUS ISLAND ROOM**

02:00  
03:30

**NIAID SATELLITE SYMPOSIUM: MARTIN DELANEY COLLABORATORIES RESEARCH HIGHLIGHTS (SESSION 1)**

02:00  
02:30

**DARE Collaboratory**

**Introduction**

Steven DEEKS, University of California, San Francisco - USA

**Engaging CD8 + T cell responses in SIV Reservoir Reduction or Reactivation Control**

Afam OKOYE, Oregon Health & Science University - USA

02:30  
03:00

**BEAT-HIV Collaboratory**

**Introduction**

Luis MONTANER, The Wistar Institute - USA

**Peripheral Blood SIV/HIV Originates from Infected Cells in Tissues**

Leticia KURI-CERVANTES, University of Pennsylvania - USA

**Contribution of Antigenic Exposure to the Persistence of HIV-Infected CD4 + T Cells In Vivo**

Francesco R. SIMONETTI, Johns Hopkins University - USA

03:00  
03:30

**BELIEVE Collaboratory**

**Introduction**

R. Brad JONES, Weill Cornell Medicine - USA

**Combination IL-15 Therapy in a SHIV NHP Model**

James B. WHITNEY, Beth Israel Deaconess Medical Center - USA

---

 3:30 - 4:00 PM Coffee Break

---

04:00  
05:30

**NIAID SATELLITE SYMPOSIUM: MARTIN DELANEY COLLABORATORIES RESEARCH HIGHLIGHTS (SESSION 2)**

04:00  
04:30

**I4C Collaboratory**

**Introduction**

Dan BAROUCH, Beth Israel Deaconess Medical Center - USA

**Origin of Rebound Virus in Chronically SIV-Infected Monkeys Following Treatment Discontinuation**

Po-Ting LIU, Beth Israel Deaconess Medical Center - USA

**HIV-1 Diversity Considerations for Clinical Studies of Passively Transferred Broadly Neutralizing Antibodies**

Kshiti WAGH, Los Alamos National Laboratory - USA

04:30  
05:00

## **DefeatHIV Collaboratory**

### **Introduction**

Hans-Peter KIEM, Fred Hutchinson Cancer Research Center - USA

### **CAR T Cell-Treated Rhesus Macaques Suppress SHIV Viremia Following ART Treatment Interruption**

Christopher PETERSON, Fred Hutchinson Cancer Research Center - USA

05:00  
05:30

## **CARE Collaboratory**

### **Introduction**

David MARGOLIS, University of North Carolina at Chapel Hill - USA

### **Novel Bivalent Chemical Degradors to Reverse HIV Latency**

Anne-Marie TURNER, UNC HIV Cure Center, University of North Carolina, Chapel Hill - USA

### **Improved Killing of HIV-infected Cells by a Combination of Three Antibodies: Implications for Clearing Persistent Infection**

Marina TUYISHIME, Department of Surgery, Duke University Medical Center, Durham, NC - USA

05:30  
05:45

## **CanCURE Overview**

Eric COHEN, IRCM, Human Retrovirology research unit, Montréal - CAN

---

 5:45 - 6:00 PM Break

---

06:00

## **WELCOME**

Mario STEVENSON, University of Miami - USA

06:05  
07:30

## **Opening Lecture**

### **Introduction**

Chairs:

Karl SALZWEDEL, National Institute of Allergy and Infectious Diseases, Bethesda - USA

David MARGOLIS, University of North Carolina at Chapel Hill - USA

### **Ending the HIV Pandemic: Follow the Science**

Anthony S. FAUCI, National Institute of Allergy and Infectious Diseases (NIAID), Bethesda, WA - USA

### **Bringing curative interventions for HIV to resource-limited parts of the world**

Mike McCUNE, HIV Frontiers, Global Health Innovative Technology Solutions, Bill & Melinda Gates Foundation - USA

07:30

## **WELCOME DINNER**

## SESSION 1: BASIC SCIENCE OF HIV LATENCY

Chairs: Jonathan KARN, Professor and Chair, Department of Molecular Biology and Microbiology, School of Medicine, Director, Case Center for AIDS Research, Cleveland/Akron, OH - USA  
Una O'DOHERTY, Associate Professor Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania, PA - USA  
Christina PSOMAS, Clinical and Translational Research in the Department of Infectious Diseases of Montpellier University Hospital - FRA

### ► OP 1.0: Cellular Mechanisms that Establish and Maintain HIV Latency

**Lecturer:** Andrew HENDERSON, Professor of Medicine, Assistant Dean Graduate Medical Sciences Department of Medicine and Microbiology, Section of Infectious Diseases Boston University School of Medicine, Boston, MA - USA

### ► OP 1.1: Expression Profiling of HIV Latently-Infected Cells Using Nanostring And Mass Cytometry

Author(s): H. Sperber <sup>1,2,\*</sup>, T. Ma <sup>3</sup>, N.R. Roan <sup>3</sup>, S.K. Pillai <sup>1</sup>

<sup>1</sup>Vitalant Research Institute - San Francisco (USA)

<sup>2</sup>Free University of Berlin - Berlin (GER)

<sup>3</sup>Gladstone Institutes - San Francisco (USA)

### ► OP 1.2: A quantitative single cell, single molecule RNA-FISH + IF and single cell RNA-seq analysis reveals stochasticity of reactivation of latent provirus.

Author(s): G. Kalpana <sup>1,\*</sup>, R. Pathak <sup>1</sup>, A. La Porte <sup>1</sup>, E. Bock <sup>1</sup>, C. Eliscovich <sup>1</sup>, L. Martins <sup>2</sup>, A. Spivak <sup>2</sup>, U. Dixit <sup>1</sup>, V. Planelles <sup>2</sup>, R. Singer <sup>1</sup>

<sup>1</sup>Albert Einstein College of Medicine - New York (USA)

<sup>2</sup>University of Utah School of Medicine - Salt Lake City (USA)

### ► OP 1.3 : Single-cell transcriptome sequencing of latently-infected cells ex vivo using PCR-activated cell sorting (PACS).

Author(s): I. Clark <sup>1,2,\*</sup>, A. Abate <sup>1</sup>, F. Quintana <sup>2</sup>, S. Deeks <sup>1</sup>, D. Douek <sup>3</sup>, E. Boritz <sup>3,\*</sup>

<sup>1</sup>UCSF - San Francisco (USA)

<sup>2</sup>Harvard - Boston (USA)

<sup>3</sup>NIH - Bethesda (USA)

### ► OP 1.4 : Single cell analysis of in vivo HIV reservoir uncovers novel markers of latent cells

Author(s): N. Roan <sup>1,\*</sup>, Jason Neidleman <sup>1,8</sup>, Xiaoyu Luo<sup>1</sup>, Julie Frouard<sup>1,8</sup>, Feng Hsiao <sup>1,8</sup>, Guorui Xie <sup>1,8</sup>, Vincent Morcilla<sup>2</sup>, Katherine Sholtis James<sup>3</sup>, Rebecca Hoh<sup>4</sup>, Ma Somsouk<sup>5</sup>, Peter Hunt<sup>6</sup>, Steve Deeks<sup>4</sup>, Nancie Archin<sup>3</sup>, Sarah Palmer<sup>2</sup>, Warner C. Greene <sup>1,7</sup>

<sup>1</sup>Gladstone Institute of Virology and Immunology, San Francisco, CA (USA)

<sup>2</sup>Centre for Virus Research, the Westmead Institute for Medical Research, The University of Sydney, Sydney, NSW 2145 (AUS)

<sup>3</sup>Division of Infectious Diseases, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC (USA)

<sup>4</sup>Division of HIV, Infectious Diseases and Global Medicine, University of California San Francisco, San Francisco, CA (USA)

<sup>5</sup>Department of Medicine, Division of Gastroenterology, San Francisco General Hospital and University of California, San Francisco, CA (USA)

<sup>6</sup>Division of Experimental Medicine, University of California San Francisco, San Francisco, CA (USA)

<sup>7</sup>Department of Medicine, University of California, San Francisco, CA (USA)

<sup>8</sup>Department of Urology, University of California, San Francisco, CA (USA)

### OP 1.5 : Quantifying the contribution of cellular proliferation to maintaining the HIV reservoir

Author(s): A. Hill <sup>1,\*</sup>, G. Andrei <sup>1</sup>, J. Gerold <sup>1</sup>

Harvard University - Cambridge, Ma (USA)

### OP 1.6 : Tyrosine Kinase Inhibition: the new Front in HIV Cure Efforts.

Author(s): V. Planelles <sup>1,\*</sup>, M. Szaniawski <sup>1</sup>, E. Williams <sup>1</sup>, E. Innis <sup>1</sup>, L. Martins <sup>1</sup>, A. Spivak <sup>1</sup>, J. Alcamí <sup>2</sup>, M. Coiras <sup>2</sup>

## SESSION 2: IN VITRO AND ANIMAL MODEL STUDIES OF HIV PERSISTENCE

### Chairs:

Ann CHAHROUDI, Associate Professor of Pediatrics, Division of Pediatric Infectious Diseases, Emory University School of Medicine, Atlanta, GA - USA

Afam OKOYE, Research Associate Professor Vaccine & Gene Therapy Institute, and Division of Pathobiology and Immunology, Oregon National Primate Research Center, Oregon Health & Science University, Beaverton - USA

### ► OP 2.0 : In vivo platforms for the evaluation of novel approaches to HIV persistence and eradication

**Lecturer:** J. Victor GARCIA MARTINEZ, Professor of Medicine, Center for AIDS Research, Division of Infectious Diseases, Chapel Hill - USA

### ► OP 2.1: Understanding the establishment and persistence of the rebound competent reservoir using barcoded viruses

**Lecturer:** Brandon F. KEELE, AIDS and Cancer Virus Program, Leidos Biomedical Research, Frederick National Laboratory, Frederick - USA

### ► OP 2.2 : Barcoded viruses facilitate tracking changes to the composition of the rebound-competent reservoir

Author(s): T. Immonen <sup>1,\*</sup>, C. Fennessey <sup>1</sup>, J. Lifson <sup>1</sup>, B. Keele <sup>1,\*</sup>

AIDS and Cancer Virus Program, Frederick National Laboratory for Cancer Research - Frederick (USA)

### ► OP 2.3 : Delay in Viral Rebound with TLR7 Agonist, N6-LS and PGT121 in SHIV-infected Macaques

Author(s): D. Hsu <sup>1,\*</sup>, D. Silsorn <sup>2</sup>, R. Imerbsin <sup>2</sup>, A. Pegu <sup>3</sup>, J. Mascola <sup>3</sup>, R. Geleziunas <sup>4</sup>, R. Koup <sup>3</sup>, D. Barouch <sup>5</sup>, N. Michael <sup>6</sup>, S. Vasan <sup>6</sup>

<sup>1</sup>MHRP - Bangkok (THA)

<sup>2</sup>AFRIMS - Bangkok (THA)

<sup>3</sup>NIH - Bethesda (USA)

<sup>4</sup>Gilead Sciences - Foster City (USA)

<sup>5</sup>BIDMC - Boston (USA)

<sup>6</sup>MHRP - Silver Spring (USA)

### ► OP 2.4: Chimeric Antigen Receptor T-Cells and Stem Cells Control and Protect Against SHIV Replication in Nonhuman Primates

Author(s): C. Peterson <sup>1,\*</sup>, B. Rust <sup>1</sup>, A. Zhen <sup>2</sup>, K. Brandenstein <sup>1</sup>, N. Poole <sup>1</sup>, C. Maldini <sup>3</sup>, G. Ellis <sup>3</sup>, S. Kitchen <sup>2</sup>, J. Riley <sup>3</sup>, H.P. Kiem <sup>1</sup>

<sup>1</sup>Fred Hutchinson Cancer Research Center - Seattle (USA)

<sup>2</sup>University of California, Los Angeles - Los Angeles (USA)

<sup>3</sup>University of Pennsylvania - Philadelphia (USA)

### ► OP 2.5: The latency reversal activity of the SMAC mimetic AZD5582 in ART-suppressed SIV-infected rhesus macaques is potentiated by CD8a cell depletion

Author(s): M. Mavigner <sup>1,\*</sup>, A. Brooks <sup>1</sup>, C. Mattingly <sup>1</sup>, T. Vanderford <sup>1</sup>, B. Keele <sup>2</sup>, J. Lifson <sup>2</sup>, R. Dunham <sup>3</sup>, D. Margolis <sup>3</sup>, G. Silvestri <sup>1</sup>, A. Chahroudi <sup>1</sup>

<sup>1</sup>Emory University - Atlanta (USA)

<sup>2</sup>Frederick National Laboratory for Cancer Research - Frederick (USA)

<sup>3</sup>UNC Chapel Hill - Chapel Hill (USA)

### ► OP 2.6 : Utilizing correlative PET/CT and multiscale imaging to define the dynamics of SIV infected cells from early ART initiation to the rebound after analytic treatment interruption

Author(s): T. Hope <sup>1,\*</sup>, M.S. Arif <sup>1</sup>, Y. Thomas <sup>1</sup>, I. Clerc <sup>1</sup>, A. Carias <sup>1</sup>, E. Allen <sup>1</sup>, M. Mcraven <sup>1</sup>, M. Ramirez <sup>2</sup>, P. Santangelo <sup>3</sup>, F. Villinger <sup>2</sup>

<sup>1</sup>Northwestern - Chicago (USA)

<sup>2</sup>New Iberia Research Center - New Iberia (USA)

<sup>3</sup>Georgia Tech - Atlanta (USA)

02:00  
03:30

## SESSION 3: VIROLOGY OF HIV PERSISTENCE

Chairs :

Katherine BAR, Associate professor of medicine, Perelman School of Medicine, University of Pennsylvania, USA

Zabrina BRUMME, Director, Laboratory Program, BC Centre for Excellence in HIV/AIDS, Saint Paul Hospital, Vancouver - CAN

### ▶ OP 3.0 : CD4-MBL-CAR/CXCR5 T cell immunotherapy shows promise at reducing SIV replication post-ART release

**Lecturer:** Pamela SKINNER, Professor Department of Veterinary and Biomedical Sciences Microbiology, Immunology and Cancer Biology (MICaB) Ph.D. Graduate Program, University of Minnesota, MN - USA

### ▶ OP 3.1: Differential decay of intact and defective proviral DNA in HIV-1-infected individuals on suppressive antiretroviral therapy

Author(s): M. Peluso<sup>1,\*</sup>, P. Bacchetti<sup>1</sup>, K. Ritter<sup>2</sup>, S. Beg<sup>3</sup>, P. Hunt<sup>1</sup>, T. Henrich<sup>1</sup>, J. Siliciano<sup>3</sup>, R. Siliciano<sup>3</sup>, G. Laird<sup>2</sup>, S. Deeks<sup>1</sup>

<sup>1</sup>University of California, San Francisco - San Francisco (USA)

<sup>2</sup>Accelevir Diagnostics - Baltimore (USA)

<sup>3</sup>Johns Hopkins School of Medicine - Baltimore (USA)

### ▶ OP 3.2: Women undergoing reproductive aging show increased reservoir sizes associated with removal of hormonal control of HIV-1 latency by estrogen

Author(s): J. Kam<sup>1,\*</sup>, C. Dobrowolski<sup>1,\*</sup>, E. Scully<sup>2</sup>, K.M. Weber<sup>3</sup>, A.L. Landay<sup>4</sup>

<sup>1</sup>Department of Molecular Biology and Microbiology, Case Western Reserve University School of Medicine - Cleveland (USA)

<sup>2</sup>Johns Hopkins University, Department of Medicine, Division of Infectious Diseases - Baltimore (USA)

<sup>3</sup>WIHS/CORE Center of Cook County Health - Chicago (USA)

<sup>4</sup>Rush University Medical Center, Department Internal Medicine - Chicago (USA)

### ▶ OP 3.3: Contribution of Antigenic Exposure to the Persistence of HIV-infected CD4+ T-cells in vivo

Author(s): F. Simonetti<sup>1,\*</sup>, H. Zhang<sup>1</sup>, G. Soroosh<sup>1</sup>, S. Beg<sup>1</sup>, H. Raymond<sup>2</sup>, K. McCormick<sup>2</sup>, S. Deeks<sup>3</sup>, F. Bushman<sup>2</sup>, J. Siliciano<sup>4</sup>, R. Siliciano<sup>1</sup>

<sup>1</sup>Johns Hopkins University - Baltimore (USA)

<sup>2</sup>University of Pennsylvania - Philadelphia (USA)

<sup>3</sup>University of California San Francisco - San Francisco (USA)

<sup>4</sup>Johns Hopkins University - Baltimore (USA)

### ▶ OP 3.4: Multiplexed RNA flow cytometric FISH allows single-cell viral transcriptional profiling and phenotypic characterization of translation-incompetent HIV reservoirs

Author(s): M. Dubé<sup>1,\*</sup>, D. Kaufmann<sup>1,\*</sup>, G. Sannier<sup>1</sup>, N. Brassard<sup>1</sup>, G.G. Delgado<sup>1</sup>, A. Baxter<sup>1</sup>, J.P. Routy<sup>2</sup>, N. Chomont<sup>1</sup>

<sup>1</sup>Research Centre of the Centre Hospitalier de l'Université de Montréal (CRCHUM) and Université de Montréal, Montreal, Quebec, Canada - Montréal (CAN)

<sup>2</sup>Chronic Viral Illnesses Service and Division of Hematology, McGill University Health Centre - Montréal (CAN)

### ▶ OP 3.5: Low Viral Reservoir Treated Individuals Show Unusual HIV Latency Distribution

Author(s): C. Gálvez<sup>1,\*</sup>, V. Urrea<sup>1</sup>, S. Benet<sup>1</sup>, B. Mothe<sup>1</sup>, L. Bailón<sup>2</sup>, J. Dalmau<sup>1</sup>, L. Leal<sup>3</sup>, F. García<sup>3</sup>, J. Martínez-Picado<sup>1</sup>, M. Salgado<sup>1</sup>

<sup>1</sup>AIDS Research Institute IrsiCaixa - Badalona (SPA)

<sup>2</sup>Infectious Diseases Department, University Hospital "Germans Trias i Pujol" - Badalona (SPA)

<sup>3</sup>Infectious Diseases Department, Hospital Clínic, University of Barcelona - Barcelona (SPA)

 3:30 - 4:00 PM Coffee Break

04:00  
07:00

## POSTER VIEWING SESSION WITH WINE AND CHEESE TASTING

07:00

## DINNER ON YOUR OWN



SESSION 4: IMMUNOLOGY OF HIV PERSISTENCE

Chairs :

Lydie TRAUTMANN, Associate Professor, OHSU, Vaccine & Gene Therapy Institute, Beaverton - USA  
R. Brad JONES, Assistant Professor, Department of Medicine, Weill Cornell Medicine, New York, NY - USA

► **OP 4.0: CellulaT Cells and The Cure Agenda**

**Lecturer:** Bruce WALKER, Founding Director of the Ragon Institute of MGH, MIT and Harvard and the Director of the Harvard University Center for AIDS Research, Cambridge, MA - USA

► **OP 4.1: HIV persistence during ART: Keeping memory, keeping HIV**

**Lecturer:** Nicolas CHOMONT, Associate Professor in the Department of Microbiology and Immunology at the Université de Montréal – CHUM Research Center, Montreal - CAN

► **OP 4.2: Characterizing “exceptional” control among HIV elite controllers**

Author(s): M. Peluso <sup>1,\*</sup>, P. Burbelo <sup>2</sup>, S. Kumar <sup>1</sup>, S. Munter <sup>1</sup>, R. Hoh <sup>1</sup>, S. Lee <sup>1</sup>, P. Hunt <sup>1</sup>, R. Rutishauser <sup>1</sup>, T. Henrich <sup>1</sup>, S. Deeks <sup>1</sup>

<sup>1</sup>University of California, San Francisco - San Francisco (USA)

<sup>2</sup>National Institutes of Health - Bethesda (USA)

► **OP 4.3: Single-cell TCR sequencing reveals that clonally expanded cells highly contribute to the inducible HIV reservoir during ART**

Author(s): P. Gantner <sup>1,\*</sup>, A. Pagliuzza <sup>2</sup>, M. Pardons <sup>1</sup>, M. Ramgopal <sup>3</sup>, J.P. Routy <sup>3</sup>, R. Fromentin <sup>2</sup>, N. Chomont <sup>1</sup>

<sup>1</sup>Université de Montréal - Montréal (CAN)

<sup>2</sup>CRCHUM - Montréal (CAN)

<sup>3</sup>Midway Immunology & Research Center - Fort Pierce (USA)

► **OP 4.4: Single-cell phenotyping of HIV-infected expanded clones in ART-suppressed individuals**  
Author(s): C. Dufour <sup>1,\*</sup>, M. Pardons <sup>1</sup>, R. Fromentin <sup>1</sup>, M. Massanella <sup>1</sup>, S. Palmer <sup>2</sup>, S. Deeks <sup>3</sup>, B. Murrell <sup>4</sup>, J.P. Routy <sup>5</sup>, N. Chomont <sup>1</sup>

<sup>1</sup>Centre de Recherche du CHUM and Department of Microbiology, Infectiology and Immunology, Université de Montréal - Montreal (CAN)

<sup>2</sup>Centre for Virus Research, The Westmead Institute of Medical Research, The University of Sydney - Sydney (AUS)

<sup>3</sup>Department of Medicine, University of California San Francisco - California (USA)

<sup>4</sup>Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet - Stockholm (SWE)

<sup>5</sup>Division of Hematology & Chronic Viral Illness Service, McGill University Health Centre - Montreal (CAN)

► **OP 4.5: The IciStem consortium: T-cell immunology in HIV-1 infected individuals after allogeneic stem cell transplantation**

Author(s): J. Martinez-Picado <sup>3,\*</sup>, J. Eberhard <sup>1,\*</sup>, M. Angin <sup>2</sup>, C. Passaes <sup>2</sup>, M. Salgado <sup>3</sup>, J.L. Díez Martín <sup>4</sup>, M. Nijhuis <sup>5</sup>, A. Wensing <sup>5</sup>, J. Schulze Zur Wiesch <sup>1</sup>, A. Sáez-Cirión <sup>2</sup>

<sup>1</sup>Department of Medicine, Infectious Diseases Unit, University Medical Center Hamburg-Eppendorf - Hamburg (GER)

<sup>2</sup>Institut Pasteur, HIV, Inflammation and Persistence - Paris (FRA)

<sup>3</sup>AIDS Research Institute IrsiCaixa - Barcelona (SPA)

<sup>4</sup>Hospital Universitario Gregorio Marañón, Instituto de Investigación Sanitarias Gregorio Marañón, Universidad Complutense - Madrid (SPA)

<sup>5</sup>University Medical Center - Utrecht (NET)

► **OP 4.6: Dynamics of HIV-Specific T-Cells on Long-Term ART Differ by Antigen Recognized and by Sex**

Author(s): Eva M. Stevenson<sup>1</sup>, Adam R. Ward<sup>1,2,3</sup>, Thomas R. Dilling<sup>1</sup>, John K. Bui<sup>1</sup>, John Mellors<sup>4</sup>, Rajesh Gandhi<sup>5</sup>, Deborah McMahon<sup>4</sup>, Joseph Eron<sup>6</sup>, Ronald Bosch<sup>7</sup>, Christina Lalama<sup>7</sup>, Joshua Cyktor<sup>4</sup>, and Brad Jones<sup>1,2</sup>, for the A5321 Team

<sup>1</sup>Department of Infectious Diseases, Weill Cornell Medicine, New York, NY (USA)

<sup>2</sup>Department of Microbiology, Immunology, and Tropical Medicine, George Washington University, Washington, DC (USA)

<sup>3</sup>PhD program in Epidemiology, George Washington University, Washington, DC (USA)

<sup>4</sup>University of Pittsburgh, Pittsburgh, PA (USA)

<sup>5</sup>Massachusetts General Hospital, Boston, MA (USA)

<sup>6</sup>University of North Carolina, Chapel Hill, NC (USA)

<sup>7</sup>Harvard University, Boston, MA (USA)

SESSION 5: HUMAN STUDIES AND DRUG DEVELOPMENT I

Chairs :

Bonnie HOWELL, Executive Director, Infectious Disease and Vaccines Merck, West Point, Pennsylvania, PE - USA

Javier MARTINEZ PICADO, ICREA Research Professor at Institut de Recerca de la Sida - IrsiCaixa, Barcelona – SPA

► **OP 5.0: Discovery and development of novel latency reversing agents**

**Lecturer:** Richard DUNHAM, Scientific Leader and Fellow at ViiV Healthcare; Adj Asst Professor at UNC-CH Région de Raleigh-Durham, NC - USA

► **OP 5.1: Virologic Outcomes of Vesatolimod Administration in People Living with HIV on ART**

**Lecturer:** Joseph HESSELGESSER, Research scientist, Gilead, Foster city, CA - USA

► **OP 5.2: HIV Post-Treatment Control Despite Plasma Viral Evolution and Dual Infection**

Author(s): J. Li <sup>1,\*</sup>, B. Etemad <sup>1</sup>, G. Namazi <sup>1</sup>, Y. Wen <sup>2</sup>, N. Jilg <sup>3</sup>, E. Esmaeilzadeh <sup>1</sup>, X. Zhang <sup>4</sup>, R. Sharaf <sup>1</sup>, Z. Brumme <sup>5</sup>, M. Kearney <sup>6</sup>

<sup>1</sup>Brigham and Women's Hospital, Harvard Medical School - Boston (USA)

<sup>2</sup>China Medical University - Shenyang (CHI)

<sup>3</sup>Massachusetts General Hospital, Harvard Medical School - Boston (USA)

<sup>4</sup>Beijing Friendship Hospital - Beijing (CHI)

<sup>5</sup>Simon Fraser University - Burnaby (CAN), <sup>6</sup>Frederick National Laboratory for Cancer Research - Frederick (USA)

► **OP 5.3: Optimization of Smac Mimetics as HIV-1 Latency Reversing Agents**

Author(s): J. Pache <sup>1,\*</sup>, P. Teriete <sup>1</sup>, M.D. Marsden <sup>2</sup>, A.M. Spivak <sup>3</sup>, D. Heimann <sup>1</sup>, A.J. Portillo <sup>1</sup>, V. Planelles <sup>3</sup>, J.A. Zack <sup>2</sup>, N.D.P. Cosford <sup>1</sup>, S.K. Chanda <sup>1</sup>

<sup>1</sup>Sanford Burnham Prebys Medical Discovery Institute - La Jolla (USA)

<sup>2</sup>University of California, Los Angeles - Los Angeles (USA)

<sup>3</sup>University of Utah School of Medicine - Salt Lake City (USA)

► **OP 5.4: HIV Particles Expressed in Semen under INSTI-based Suppressive Therapy are Largely Myeloid Cell-Derived and Exhibit Widely Diverse Genotypes**

Author(s): J. Johnson <sup>1,\*</sup>, D. Anderson <sup>2</sup>, J.F. Li <sup>1</sup>, A. Santos Tino <sup>3</sup>, J. Politch <sup>2</sup>, J. Lipscomb <sup>1</sup>, J. Defelice <sup>4</sup>, M. Gelman <sup>4</sup>, K. Mayer <sup>4</sup>

<sup>1</sup>CDC, Atlanta (USA)

<sup>2</sup>BU School of Medicine, Boston (USA)

<sup>3</sup>The DESA Group, Atlanta, USA <sup>4</sup>The Fenway Institute, Boston (USA)

► **OP 5.5: Impact of anti-PD-1 and anti-CTLA-4 on the HIV reservoir in vivo: The AMC-095 Study**

Author(s): Thomas A Rasmussen<sup>1</sup>, Laskhmi Rajdev<sup>2</sup>, Ajantha Rhodes<sup>1</sup>, Ashanti Dantanarayana<sup>1</sup>, Surekha Tennakoon<sup>1</sup>, Socheata Chea<sup>1</sup>, Danielle Rigau<sup>3</sup>, Shelly Lensing<sup>4</sup>, Rachel Rutishauser<sup>5</sup>, Sonia Bakkour<sup>6</sup>, Michael Busch<sup>6</sup>, Dirk P Dittmer<sup>7</sup>, Steven Deeks<sup>5</sup>, Christine Durand<sup>3</sup>, Sharon R Lewin<sup>1,8,3</sup>

<sup>1</sup>The Peter Doherty Institute for Infection and Immunity, The University of Melbourne and Royal Melbourne Hospital, Melbourne, (AUS)

<sup>2</sup>Department of Medicine, Albert Einstein College of Medicine, New York (USA)

<sup>3</sup>Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, Maryland (USA)

<sup>4</sup>Department of Biostatistics, University of Arkansas for Medical Biosciences, Arkansas (USA)

<sup>5</sup>Department of Medicine, University of California San Francisco, California (USA)

<sup>6</sup>Vitalant Research Institute, San Francisco, California (USA)

<sup>7</sup>Department of Microbiology and Immunology, University of North Carolina (USA)

<sup>8</sup>Department of Infectious Diseases, Alfred Hospital and Monash University, Melbourne (AUS)

► **OP 5.6: Intact Proviral DNA Levels Decline in People with HIV on Antiretroviral Therapy (ART)**

Author(s): J. Cyktor <sup>2,\*</sup>, R. Gandhi <sup>1,\*</sup>, R. Bosch <sup>3</sup>, H. Mar <sup>3</sup>, G. Laird <sup>4</sup>, B. Macatangay <sup>2</sup>, J. Eron <sup>5</sup>, R. Siliciano <sup>6</sup>, D. McMahon<sup>2</sup>, J. Mellors<sup>2</sup>

<sup>1</sup>Massachusetts General Hospital - Boston (USA),

<sup>2</sup>University of Pittsburgh - Pittsburgh (USA),

<sup>3</sup>Harvard TH Chan School of Public Health - Boston (USA),

<sup>4</sup>Accevir Diagnostics - Baltimore (USA),

<sup>5</sup>University of North Carolina - Chapel Hill (USA),

02:00  
03:30

SESSION 6: NEW THERAPEUTIC APPROACHES I

Chairs :

Ya-Chi HO, Assistant Professor of Microbial Pathogenesis and Medicine; Investigator, HIV Reservoirs and Viral Eradication Transformative Science Group (Cure TSG) New Haven, CT - USA  
Alberto BOSQUE, Assistant Professor, Department of Microbiology, Immunology and Tropical Medicine, George Washington University, Washington, WA - USA

► OP 6.0 Genome editing against HIV

**Lecturer:** Paula CANNON, Professor of Molecular Microbiology & Immunology; Associate Director of Cross School Programs for the MESH Academy Molecular Microbiology and Immunology, Los Angeles, CA - USA

► OP 6.1: Multispecific anti-HIV duoCAR-T cell therapy mediates robust HIV suppression and elimination of HIV-infected cells in humanized mice

Author(s): K. Anthony-Gonda <sup>1,\*</sup>, A. Bardhi <sup>2</sup>, A. Ray <sup>2</sup>, W. Krueger <sup>1</sup>, D. Schneider <sup>1</sup>, Z. Zhu <sup>1</sup>, R. Orentas <sup>1</sup>, D. Dimitrov <sup>3</sup>, H. Goldstein <sup>2</sup>, B. Dropulic <sup>1</sup>

<sup>1</sup>Lentigen, a Miltenyi Biotec Company - Gaithersburg (USA)

<sup>2</sup>Albert Einstein College of Medicine - Bronx (USA)

<sup>3</sup>University of Pittsburgh - Pittsburgh (USA)

► OP 6.2: Location, abundance and persistence of CAR/CXCR5 transduced T cells within lymphoid tissues of SIV-infected rhesus macaques

Author(s): H. Abdelaal <sup>1,\*</sup>, M. Pampusch <sup>1</sup>, P. Skinner <sup>1</sup>, E. Berger <sup>2</sup>

<sup>1</sup>University of Minnesota - Minneapolis (USA)

<sup>2</sup>University of Minnesota - The National Institutes of Health, Bethesda, Md (USA)

► OP 6.3: Combinatorial latency reversal activity of Inhibitor of Apoptosis antagonists (IAPa) with mechanistically distinct classes of HIV latency reversal agents

Author(s): S. D. Falcinelli<sup>1,3</sup>, D. M. Irlbeck<sup>1,5</sup>, A.-M. Turner<sup>1</sup>, J. Peterson<sup>1,3</sup>, F. Potjewyd<sup>2</sup>, L. I. James<sup>1,2</sup>, D. Margolis<sup>1,3,4</sup>, N. Archin<sup>1,4</sup>, R. Dunham<sup>1,5</sup>

<sup>1</sup>UNC HIV Cure Center (USA)

<sup>2</sup>Center for Integrative Chemical Biology and Drug Discovery (USA)

<sup>3</sup>Dept. of Microbiology and Immunology (USA)

<sup>4</sup>Dept. of Medicine University of North Carolina, Chapel Hill, NC (USA)

<sup>5</sup>HIV Drug Discovery, ViiV Healthcare, Research Triangle Park, NC (USA)

► OP 6.4:  $\alpha 4\alpha 7$ -blockade delays viral rebound in SHIV infected macaques treated with a combination of HIV bNAbs

Author(s): E. Martinelli <sup>1,\*</sup>

CBR, Population Council - New York (USA)

► OP 6.5: Replacing daily cART with AAV-expressed eCD4-Ig

Author(s): M. Gardner <sup>1,\*</sup>, M. Davis-Gardner <sup>1</sup>, M. Farzan <sup>1</sup>

<sup>1</sup>The Scripps Research Institute - Jupiter (USA)

☕ 3:30 - 4:00 PM Coffee Break

04:00  
07:00

POSTER VIEWING SESSION WITH WINE AND CHEESE TASTING

07:00

DINNER ON YOUR OWN

## SESSION 7: HUMAN STUDIES AND DRUG DEVELOPMENT II

Chairs:

David SMITH, University of California, San Diego School of Medicine, La Jolla - USA

## ► OP 7.0 Main challenges of human studies in the HIV eradication field

**Lecturer:** Beatriz MOTHE PUJADAS, MD, PhD. Associate Investigator. HIV Unit & IrsiCaixa AIDS Research Institute. Hospital Germans Trias i Pujol. UVic-UC, Barcelona - SPA

## ► OP 7.1 : Whole Body Imaging of HIV Persistence, Viral Biomarkers and Immune Activation

**Lecturer:** Timothy HENRICH, Associate Professor of Medicine at University of California, San Francisco, CA - USA

## ► OP 7.2: Plasma and Antibody Glycomic Biomarkers of Time to HIV Rebound and Viral Setpoint

**Author(s):** L. Giron <sup>1,\*</sup>, E. Papasavvas <sup>1</sup>, L. Azzoni <sup>1</sup>, K. Mounzer <sup>2</sup>, J. Kostman <sup>2</sup>, I. Sanne <sup>3</sup>, C. Firnhaber <sup>4</sup>, Q. Liu <sup>1</sup>, L. Montaner <sup>1</sup>, M. Abdel-Mohsen <sup>1,\*</sup><sup>1</sup>The Wistar Institute - Philadelphia (USA)<sup>2</sup>Philadelphia FIGHT - Philadelphia (USA)<sup>3</sup>University of the Witwatersrand - Johannesburg (ZAF)<sup>4</sup>University of Colorado School of Medicine - Aurora (USA)

## ► OP7.3: Single cell RNA-seq identifies host genes that correlate with HIV-1 reservoir size

**Author(s):** R. Thomas <sup>1,\*</sup>, A. Waickman <sup>2</sup>, P. Ehrenberg <sup>1</sup>, A. Geretz <sup>1</sup>, M. Eller <sup>1</sup>, S. Tovnanabutra <sup>1</sup>, J. Ananworanich <sup>1</sup>, N. Chomont <sup>3</sup>, J. Currier <sup>2</sup>, N. Michael <sup>1</sup><sup>1</sup>U.S. Military HIV Research Program, Walter Reed Army Institute of Research - Silver Spring (USA)<sup>2</sup>Viral Diseases Branch, Walter Reed Army Institute of Research - Silver Spring (USA)<sup>3</sup>Université de Montréal, Faculty of Medicine - Montreal (CAN)

## ► OP 7.4: Sex differences in the latent reservoir of virally suppressed HIV-1 infected individuals living in Rakai, Uganda

**Author(s):** T.C. Quinn <sup>3,\*</sup>, J. Prodder <sup>1,\*</sup>, A.M. Capoferri <sup>2</sup>, K. Yu <sup>1</sup>, S.J. Reynolds <sup>3</sup>, J. Kasule <sup>4</sup>, D. Serwadda <sup>4</sup>, E. Scully <sup>2</sup>, K.J. Kwon <sup>2</sup>, A.D. Redd <sup>3</sup><sup>1</sup>Western University - London (CAN)<sup>2</sup>Johns Hopkins School of Medicine - Baltimore (USA)<sup>3</sup>National Institutes of Health - Baltimore (USA)<sup>4</sup>Rakai Health Sciences Program - Kalisizo (UGA)

## ► OP 7.5: Clones Of HIV Infected Cells Are Widely Distributed In T Cell Subsets In Blood And In Anatomic Tissues

**Author(s):** F. Maldarelli <sup>1,\*</sup>, M. Gozoulis <sup>1</sup>, X. Wu <sup>2</sup>, L. Perez <sup>3</sup>, R. Gorelick <sup>4</sup>, C. Lange <sup>1</sup>, S. Hill <sup>1</sup>, J. Virga <sup>1</sup>, T. Uldrick <sup>5</sup>, R. Yarchoan <sup>6</sup>, S. Hughes <sup>1</sup><sup>1</sup>CCR/NCI - Frederick (USA)<sup>2</sup>Leidos Inc - Peoria (USA)<sup>3</sup>VRC/NIAID - Bethesda (USA)<sup>4</sup>Leidos, INC - Peoria (USA)<sup>5</sup>CCR/NCI - U Washington (USA)<sup>6</sup>CCR/NCI - Bethesda (USA)

## ► OP 7.6: Tissue-specific differences in the mechanisms that govern HIV latency in blood, liver, gut and genital tract in ART-suppressed women

**Author(s):** S. Moron-Lopez <sup>1,\*</sup>, G. Xie <sup>2</sup>, P. Kim <sup>3</sup>, J. Wong <sup>1</sup>, J. Price <sup>4</sup>, N. Elnacheff <sup>4</sup>, R. Greenblatt <sup>4</sup>, P. Tien <sup>1</sup>, N. Roan <sup>2</sup>, S. Yukl <sup>1</sup><sup>1</sup>University of California San Francisco - SFVAMC - San Francisco (USA)<sup>2</sup>University of California San Francisco - Gladstone Institutes - San Francisco (USA)<sup>3</sup>San Francisco VA Medical Center (SFVAMC) - San Francisco (USA)<sup>4</sup>University of California San Francisco - San Francisco (USA)

## SESSION 8: NEW THERAPEUTIC APPROACHES II

## Chairs:

Susanna VALENTE, Associate Professor Department of Immunology and Microbiology 130 Scripps Way, 3C1, Jupiter, FL - USA

Lesley de ARMAS, Department of Immunology and Microbiology, University of Miami Miller School of Medicine, Miami - USA

Guido POLI, Division of Immunology, Transplantation and Infectious Diseases, San Raffaele Scientific Institute - ITA

## ► OP 8.0: A viable pathway to HIV-1 remission

**Lecturer:** Michael FARZAN, Professor and co-chair of the Department of Immunology and Microbiology on the Florida campus of The Scripps Research Institute, FL - USA

## ► OP 8.1: The Human IL-15 Superagonist N803 Does Not Reverse Latency in ART-suppressed, SHIV-infected macaques

Author(s): G. Webb<sup>1,\*</sup>, J. Berrocal<sup>2</sup>, K. Busman-Sahay<sup>1</sup>, S. Abdulhag<sup>1</sup>, J. Smedley<sup>1</sup>, J. Safrit<sup>3</sup>, J. Estes<sup>1</sup>, P. Skinner<sup>2</sup>, J. Sacha<sup>1</sup>

<sup>1</sup>Oregon Health and Science University - Portland (USA)

<sup>2</sup>University of Minnesota - St. Paul (USA)

<sup>3</sup>NantKWest - Culver City (USA)

## ► OP 8.2: How Long is Long-term? Delivery of anti-HIV Antibodies Using AAV Vector

Author(s): J. Martinez-Navio<sup>1,\*</sup>, R. Desrosiers<sup>1,\*</sup>, S. Fuchs<sup>1</sup>, D. Mendes<sup>1</sup>, E. Rakasz<sup>2</sup>, G. Gao<sup>3</sup>, J. Lifson<sup>4</sup>,

<sup>1</sup>University of Miami - Miami (USA)

<sup>2</sup>Wisconsin National Primate Research Center UW - Madison (USA)

<sup>3</sup>Gene Therapy Center UMass - Worcester (USA)

<sup>4</sup>Frederick National Laboratory for Cancer Research - Frederick (USA)

## ► OP 8.3: Intensification of ART with ABX464 decreases the total HIV reservoir and HIV transcription initiation in CD4+ T cells from HIV-infected ART-suppressed individuals

Author(s): S. Bernal<sup>1,\*</sup>, S. Moron-Lopez<sup>2,\*</sup>, S. Bernal<sup>1,\*</sup>, J.M. Steens<sup>3</sup>, J.K. Wong<sup>4</sup>, J. Martinez-Picado<sup>1</sup>, S.A. Yuki<sup>4</sup>

<sup>1</sup>IrsiCaixa AIDS Research Institute - Badalona (SPA)

<sup>2</sup>University of California San Francisco - San Francisco (USA)

<sup>3</sup>ABIVAX - Paris (FRA)

<sup>4</sup>San Francisco VA Medical Center - San Francisco (USA)

## ► OP 8.4: HIV persistence despite reservoir decay during combinatorial immunotherapy including therapeutic conserved elements (CE) DNA vaccination, IPD-1 therapy, GS-986 TLR7-agonism, and CCR5 gene-edited CD4+ T cell infusion in rhesus macaques

Author(s): S. Dross<sup>1,\*</sup>, C. Peterson<sup>2</sup>, M. O'Connor<sup>1</sup>, H. Tunggal<sup>1</sup>, J. Li<sup>1</sup>, K. Jerome<sup>2</sup>, H.P. Kiem<sup>2</sup>, B. Felber<sup>3</sup>, J. Mullins<sup>1</sup>, D. Fuller<sup>1</sup>

<sup>1</sup>Department of Microbiology, University of Washington - Seattle (USA)

<sup>2</sup>Fred Hutchinson Cancer Research Center - Seattle (USA)

<sup>3</sup>Human Retrovirus Pathogenesis Section, Vaccine Branch, Center for Cancer Research, National Cancer Institute - Frederick (USA)

## ► OP 8.5: PD-1 Blockade boost Vaccine-Induced anti-HIV responses in the absence of HIV reactivation

Author(s): M. Marin Lopez<sup>1,\*</sup>, J.-G. Prado, M. Marin Lopez<sup>1,\*</sup>, E. Jimenez-Moyano<sup>1</sup>, D. Ouchi<sup>1</sup>, O. Blanch-Lombarte<sup>1</sup>, D. Gorman<sup>2</sup>, T. Hanke<sup>3</sup>, C. Brander<sup>1</sup>, B. Howell<sup>4</sup>, B. Mothe<sup>1</sup>

<sup>1</sup>IrsiCaixa - Badalona (Barcelona) (SPA)

<sup>2</sup>Merck & Co. Inc. - Palo Alto, California (USA)

<sup>3</sup>The Jenner Institute Nuffield Department of Medicine, University of Oxford - Oxford (GBR)

<sup>4</sup>Department of Infectious Disease, Merck & Co. Inc. - Kenilworth, Nj (USA)

## ► OP 8.6: Post-therapy viral set-point abatement following combined antiproliferative and immune-boosting interventions: Results from a randomized clinical trial

Author(s): R. Sobhie Diaz<sup>1,\*</sup>, L.B. Giron<sup>2</sup>, J. Galinskas<sup>1</sup>, J. Hunter<sup>1</sup>, M. Janini<sup>1</sup>, I.L. Shytaj<sup>3</sup>, R. Cauda<sup>4</sup>, M.C. Sucupira<sup>5</sup>, J. Maricato<sup>6</sup>, A. Savarino<sup>6</sup>

<sup>1</sup>Federal University of Sao Paulo, Infectious Diseases Department - São Paulo (BRA)

<sup>2</sup>Wistar Institute - Philadelphia (USA)

<sup>3</sup>Heidelberg University Hospital, Department of Infectious Diseases - Heidelberg (USA)

<sup>4</sup>Institute of Infectious Diseases, Gemelli Hospital, Catholic University of Sacred Heart - Rome (ITA)

<sup>5</sup>Federal University of Sao Paulo, Infectious Diseases Department - São Paulo (BRA)

<sup>6</sup>Department of Infectious Diseases, Italian Institute of Health - Rome (ITA)

## ► OP 8.7: B cell depletion alone or in combination with IL-15 or PD-1 blockade facilitates enhanced control of virus replication in SIV-infected rhesus macaques

Author(s): Y. Fukazawa<sup>1,\*</sup>, L.J. Picker<sup>1,\*</sup>, Y. Fukazawa<sup>1,\*</sup>, H. Behms<sup>1</sup>, B.E. Randall<sup>1</sup>, B. Varco-Merth<sup>1</sup>, H. Park<sup>1</sup>,

B.K. Felber<sup>2</sup>, G.N. Pavlakis<sup>2</sup>, J.D. Lifson<sup>3</sup>, A.A. Okoye<sup>1</sup>

<sup>1</sup>Vaccine and Gene Therapy Institute and Oregon National Primate Research Center, Oregon Health & Science University - Beaverton, Or (USA)

<sup>2</sup>Center for Cancer Research, National Cancer Institute - Frederick, Md (USA)

## CLOSING CEREMONY

Alain LAFEUILLE, Infectious disease private practice, La Valette du Var - FRA

David MARGOLIS, University of North Carolina, Chapel Hill, NC - USA

Karl SALZWEDEL, NIAID, Division of AIDS, Bethesda, MD - USA

Mario STEVENSON, University of Miami Leonard School of Medicine, Miami, FL - USA

## SESSION 1: BASIC SCIENCE OF HIV LATENCY

### ► PP 1.1: Remodeling of the core leads HIV-1 pre-integration complex into the nucleus of human lymphocytes

Author(s): F. Di Nunzio <sup>1,\*</sup>, G. Blanco-Rodriguez <sup>1</sup>, A. Gazi <sup>2</sup>, B. Monel <sup>3</sup>, S. Frabetti <sup>1</sup>, V. Scoca <sup>1</sup>, O. Schwartz <sup>4</sup>, J. Krijnse-Locker <sup>2</sup>, P. Charneau <sup>1</sup>

<sup>1</sup>Department of Virology, VMV, Institut Pasteur - Paris (FRA), <sup>2</sup>Unit of Ultra-structural bio-imaging (UBI), Institut Pasteur - Paris (FRA), <sup>3</sup>Institut Pasteur - Paris (FRA) - <sup>4</sup>Department of Virology, UVI, Institut Pasteur - Paris (FRA)

### ► PP 1.2: Combination of quadruplex qPCR and next-generation sequencing for qualitative and quantitative analysis of the HIV-1 latent reservoir

Author(s): C. Gaebler <sup>1,\*</sup>

<sup>1</sup>The Rockefeller University - New York (USA)

### ► PP 1.3: Single cell analysis reveals molecular signatures of HIV latency in primary cell models

Author(s): S. Telwatte <sup>1,2,\*</sup>, M. Montano <sup>3</sup>, R. Resop <sup>4</sup>, E. Battivelli <sup>5</sup>, S. Morón-López <sup>1</sup>, E. Verdin <sup>5</sup>, W. Greene <sup>3</sup>, A. Bosque <sup>4</sup>, J. Wong <sup>2</sup>, S. Yukl <sup>2</sup>

<sup>1</sup>University of California, San Francisco (UCSF) - San Francisco (USA), <sup>2</sup>San Francisco VA Health Care System - San Francisco (USA), <sup>3</sup>Gladstone Institutes - San Francisco (USA), <sup>4</sup>George Washington University - Washington (USA), <sup>5</sup>Buck Institute for Research and Aging - San Francisco (USA)

### ► PP 1.4: Evaluation of IAP/SMAC Mimetics as Latency Reversal Agents in Primary Cells and Cytokine induction in In Vivo Models Predictive of Cytokine Release

Author(s): B. Howell <sup>1,\*</sup>, W. Shipe <sup>1</sup>, G. Adam <sup>1</sup>, S. Quan <sup>1</sup>, L. Li <sup>2</sup>, C.N.A. Sim <sup>2</sup>, R. Dunham <sup>3</sup>, D. Margolis <sup>4</sup>, B. Henry <sup>2</sup>, D. Hazuda <sup>1</sup>

<sup>1</sup>Merck & Co., Inc - West Point (USA), <sup>2</sup>MSD - Singapore (Singapore), <sup>3</sup>Viiv - Chapel Hill (USA), <sup>4</sup>UNC - Chapel Hill (USA)

### ► PP 1.5: Live-Track of HIV genome in the nuclear space

Author(s): F. Di Nunzio <sup>1,\*</sup>, V. Scoca <sup>1</sup>, G. Blanco-Rodriguez <sup>1</sup>, D. Ershov <sup>2</sup>, J.Y. Tinevez <sup>2</sup>

<sup>1</sup>Department of Virology, Institut Pasteur - Paris (FRA), <sup>2</sup>Image Analysis Hub/ C2RT, Institut Pasteur - Paris (FRA)

### ► PP 1.6: Genome-wide RNAi screen identifies MAPK-RPK required for HIV-1 proviral silencing in non-T cell reservoir cell-line model

Author(s): H. Takeuchi <sup>1,\*</sup>, T. Ishida <sup>2</sup>, Y. Satou <sup>3</sup>, J. Gohda <sup>2</sup>, H. Kitamura <sup>1</sup>, S. Gan <sup>1</sup>, K. Takahashi <sup>1</sup>, Shoji Yamaoka <sup>4</sup>,

<sup>1</sup>Department of Molecular Virology, Tokyo Medical and Dental University - Tokyo (JAP), <sup>2</sup>Research Center for Asian Infectious Diseases, The Institute of Medical Science, The University of Tokyo - Tokyo (JAP), <sup>3</sup>Division of Genomics and Transcriptomics, Joint Research Center for Human Retrovirus Infection, Kumamoto University - Kumamoto (JAP)

<sup>4</sup>Department of Molecular Virology, Tokyo Medical and Dental University, Tokyo, Japan

\*authors contributed equally

### ► PP 1.7: Intact HIV Genomes are Enriched in Memory T-cells with Short Half-lives

Author(s): V. Morcilla <sup>1,\*</sup>, C. Bacchus-Souffan <sup>2</sup>, T. Schlub <sup>3</sup>, M. Fitch <sup>4</sup>, R. Hoh <sup>5</sup>, S. Deeks <sup>5</sup>, M. Hellerstein <sup>4</sup>, J. McCune <sup>6</sup>, P. Hunt <sup>2</sup>, S. Palmer <sup>1</sup>

<sup>1</sup>Centre for Virus Research, The Westmead Institute of Medical Research, The University of Sydney - Westmead (Australia), <sup>2</sup>Division of Experimental Medicine, Department of Medicine, University of California San Francisco - San Francisco (USA), <sup>3</sup>Sydney School of Public Health, Faculty of Medicine and Health, The University of Sydney - University of Sydney (Australia), <sup>4</sup>Department of Nutritional Sciences and Toxicology, University of California - Berkeley (USA), <sup>5</sup>Division of HIV, Infectious Diseases and Global Medicine, Department of Medicine, Zuckerberg San Francisco General Hospital, University of California San Francisco - San Francisco (USA), <sup>6</sup>Global Health Innovative Technology Solutions/HIV Frontiers, Bill & Melinda Gates Foundation - Seattle (USA)

### ► PP 1.8: HBV-related inflammation is linked to the level of genetically intact HIV proviruses

Author(s): X. Wang <sup>1,2,\*</sup>, J.M. Zerbato <sup>3</sup>, A. Avihingsanon <sup>4</sup>, A. Rhodes <sup>3</sup>, J. Audsley <sup>3</sup>, K. Singh <sup>3</sup>, W. Zhao <sup>3</sup>, M. Crane <sup>3</sup>, S. Lewin <sup>3</sup>, S. Palmer <sup>3</sup>

<sup>1</sup>Centre for Virus Research, The Westmead Institute for Medical Research - Westmead (AUS), <sup>2</sup>Sydney Medical School, The University of Sydney - Sydney (AUS), <sup>3</sup>The Peter Doherty Institute for Infection and Immunity, The University of Melbourne and Royal Melbourne Hospital - Melbourne (AUS), <sup>4</sup>HIV-NAT, Thai Red Cross AIDS Research Center (TRCARC) - Bangkok (THA)

### ► PP 1.9: Intact Proviruses from Naïve and Effector Memory T-Cells Match Persistent Viremia

Author(s): K. Fisher <sup>1,\*</sup>, B. Hiener <sup>1</sup>, T.E. Schlub <sup>2</sup>, E. Lee <sup>1</sup>, J.M. Milush <sup>3</sup>, R. Hoh <sup>3</sup>, R. Fromentin <sup>4</sup>, N. Chomont <sup>4</sup>, S.G. Deeks <sup>3</sup>, S. Palmer <sup>1</sup>

<sup>1</sup>Westmead Institute for Medical Research - Westmead (AUS), <sup>2</sup>University of Sydney - Sydney (AUS),

<sup>3</sup>University of California San Francisco - San Francisco (USA), <sup>4</sup>Université de Montreal - Montreal (CAN)



► PP 1.10: Global mapping of the macrophage transcriptome upon CCL2 neutralization reveals an association between activation of innate immune pathways and HIV-1 restriction  
 Author(s): D.A. Covino <sup>1,\*</sup>, L. Fantuzzi <sup>1,\*</sup>, J. Lu <sup>2</sup>, M.V. Chiantore <sup>3</sup>, G. Fiorucci <sup>4</sup>, C. Purificato <sup>1</sup>, L. Catapano <sup>1</sup>, C.M. Galluzzo <sup>1</sup>, R. Amici <sup>1</sup>, M. Pellegrini <sup>2</sup>

<sup>1</sup>National Center for Global Health, Istituto Superiore di Sanità - Rome (ITA), <sup>2</sup>Department of Molecular, Cell, and Developmental Biology, University of California Los Angeles - Los Angeles (USA), <sup>3</sup>Department of Infectious Diseases, Istituto Superiore di Sanità - Rome (ITA), <sup>4</sup>Institute of Molecular Biology and Pathology, CNR - Rome (ITA)

► PP 1.11 - 00078

HIV-1 Replication is Metabolically Regulated in an Ex vivo Human Tonsil Histoculture Model of Infection.

Author(s): R. Furler <sup>1,\*</sup>, K. Newcombe <sup>1</sup>, D. Nixon <sup>1</sup>

<sup>1</sup>Weill Cornell Medicine - New York (USA)

► PP 1.12: Histone deacetylase inhibitors induce transcription of unspliced but not multiply spliced HIV-1 RNA from proviral genomes during latency reversal, affecting antigen presentation and detection by CD8+ T cells

Author(s): T. Mota <sup>1,\*</sup>, C. Mccann <sup>1</sup>, S.H. Huang <sup>1</sup>, M. Dean <sup>1</sup>, R. Yanqin <sup>1</sup>, R. Thomas <sup>2</sup>, K. Colin <sup>3</sup>, H. David <sup>4</sup>, S. Jeffery <sup>5</sup>, J. Brad <sup>5</sup>

<sup>1</sup>Weill Cornell Medicine - Ny (USA), <sup>2</sup>GWU - Washington (USA), <sup>3</sup>Maple Leaf Clinic - Toronto (CAN),

<sup>4</sup>Whitman-Walker Health - Washington (USA), <sup>5</sup>NantBioScience Inc./NantKwest LLC - Culver City (USA)

► PP 1.13: Distinct HIV reservoir measures correlate with defective but not intact pro-viral DNA

Author(s): E. Papasavvas <sup>1,\*</sup>, L. Azzoni <sup>1</sup>, P. Tebas <sup>2</sup>, K. Mounzer <sup>3</sup>, J.R. Kostman <sup>4</sup>, D. Richman <sup>5</sup>, N. Chomont <sup>6</sup>, B. Howell <sup>7</sup>, L.J. Montaner <sup>1</sup>

<sup>1</sup>The Wistar Institute - Philadelphia (USA), <sup>2</sup>University of Pennsylvania - Philadelphia (USA), <sup>3</sup>Jonathan Law Immune Disorders Treatment Center, Philadelphia Field Initiating Group for HIV-1 Trials - Philadelphia (USA), <sup>4</sup>John Bell Health Center, Philadelphia Field Initiating Group for HIV-1 Trials - Philadelphia (USA), <sup>5</sup>VA San Diego Healthcare System and the University of California - San Diego (USA), <sup>6</sup>University of Montreal - Montreal (CAN), <sup>7</sup>Merck, Inc. - West Point (USA)

► PP 1.14: HIV integration site selection in the 3D genome: impact on viral and host gene expression

Author(s): M. Benkirane <sup>1,\*</sup>

IGH. CNRS-University of Montpellier - Montpellier (FRA)

► PP 1.15: Protein crotonylation sensitizes SMACm disruption of latent HIV by modulating the ncNF- $\kappa$ B signaling pathway at the step of p100 cleavage into p52

Author(s): G. Jiang <sup>1,\*</sup>, D. Li <sup>1,\*</sup>, S. Falcinelli <sup>2</sup>, L. Wong <sup>1</sup>, C. Garrido <sup>1</sup>, C. Galardi <sup>3</sup>, R. Dunham <sup>3</sup>, E. Brown <sup>1</sup>, N. Archin <sup>1</sup>, D. Margolis <sup>1</sup>

<sup>1</sup>UNC HIV Cure Center; Institute of Global Health & Infectious Diseases - Chapel Hill (USA), <sup>2</sup>UNC HIV Cure Center - Chapel Hill (USA), <sup>3</sup>UNC HIV Cure Center; HIV Drug Discovery, ViiV Healthcare - Chapel Hill (USA)

► PP 1.16: Interactions with Pathogenic Bacteria Induce HIV-1 Latency in Macrophages through Altered Transcription Factor Recruitment to the LTR

Author(s): T. Hanley <sup>1,\*</sup>, V. Planelles <sup>1</sup>, G. Viglianti <sup>2</sup>

<sup>1</sup>University of Utah Health - Salt Lake City (USA), <sup>2</sup>Boston University School of Medicine - Boston (USA)

► PP 1.17: Low-level Persistent/Latent HIV-1 Infection of Macrophages Corresponds to Decreased NF- $\kappa$ B Activity

Author(s): T. Hanley <sup>1,\*</sup>, L. Dickey <sup>1</sup>, V. Planelles <sup>1,\*</sup>

University of Utah Health - Salt Lake City (USA)

► PP 1.18: Cell Proliferation Contributes to the Increase of Genetically Intact HIV Over Time

Author(s): S. Palmer <sup>1,\*</sup>, B. Horsburgh <sup>1</sup>, B. Hiener <sup>1</sup>, K. Fisher <sup>1</sup>, E. Lee <sup>1</sup>, J. Milush <sup>2</sup>, R. Hoh <sup>2</sup>, R. Fromentin <sup>3</sup>, N. Chomont <sup>3</sup>, S. Deeks <sup>2</sup>

<sup>1</sup>Westmead Millennium Institute and University of Sydney - Westmead (AUS), <sup>2</sup>Department of Medicine, University of California San Francisco - San Francisco (USA), <sup>3</sup>Université de Montréal - Montréal (CAN)

► PP 1.19: Intra- and Inter-individual HIV Diversity Limits the Application of the Intact Proviral Detection Assay (IPDA)

Author(s): N. Kinloch <sup>1,2\*</sup>, Y. Ren <sup>3\*</sup>, W. Conce Alberto <sup>3</sup>, W. Dong <sup>2</sup>, S. Han Huang <sup>3</sup>, A. Wilson <sup>4</sup>, T. M. Mota <sup>3</sup>, D. Kikby <sup>2</sup>, P. M. Del Rio Estrada <sup>5</sup>, C. J. Brumme <sup>2,6</sup>, G. Q. Lee <sup>3</sup>, R. M. Lynch <sup>4</sup>, Z. L. Brumme <sup>1,2\*</sup>, R. Brad Jones <sup>3,4\*</sup>

<sup>1</sup>Faculty of Health Sciences, Simon Fraser University, Burnaby (CAN)

<sup>2</sup>BC Centre for Excellence in HIV/AIDS, Vancouver (CAN)

<sup>3</sup>Division of Infectious Diseases, Weill Cornell Medical College, New York (USA)

<sup>4</sup>School of Medicine and Health Sciences, George Washington University, Washington DC (USA)

<sup>5</sup>Departamento de Investigacion en Enfermedades Infecciosas, Instituto Nacional de Enfermedades Respiratorias, Mexico City (MEX)

<sup>6</sup>Faculty of Medicine, University of British Columbia, Vancouver (CAN)

## POSTER PRESENTATION

► PP 1.20: Exploring histone loading on unintegrated HIV-1 DNA reveals the chromatin dynamics between unintegrated and integrated viral genome.

Author(s): M. Benkirane <sup>1,\*</sup>, S. Machida <sup>1,\*</sup>, D. Depierre <sup>2</sup>, M. Takaku <sup>3</sup>, O. Cuvier <sup>2</sup>

<sup>1</sup>Institut de Génétique Humaine. Université de Montpellier. Laboratoire de Virologie Moléculaire CNRS-UMR9002 - Montpellier (FRA), <sup>2</sup>LBME, Centre de Biologie Intégrative (CBI), Université de Toulouse, CNRS - Toulouse (FRA), <sup>3</sup>School of Medicine and Health Sciences, University of North Dakota - North Dakota (USA)

► PP 1.21: A novel, ultra-sensitive technology for quantifying the HIV unintegrated linear DNA responsible for pre-integrative latency

Author(s): J. Dutrieux <sup>9,\*</sup>, H. Roux <sup>1,2,\*</sup>, J. Migraine <sup>3</sup>, M. Salmona <sup>4</sup>, J. Hamroune <sup>5</sup>, N. Arhel <sup>6</sup>, A. Hance <sup>7</sup>, F. Clavel <sup>8</sup>, R. Cheyner <sup>5</sup>

<sup>1</sup>Université de Paris - Paris (FRA), <sup>2</sup>Institut Cochin, INSERM, U1016, CNRS, UMR8104 - Paris (FRA), <sup>3</sup>Inserm U1259 - Tours (FRA), <sup>4</sup>Université de Paris, Assistance Publique Hôpitaux de Paris, Hôpital Saint Louis - Paris (France), <sup>5</sup>Institut Cochin, INSERM, U1016, CNRS, UMR8104 - Paris (FRA), <sup>6</sup>Institut de Recherche en Infectiologie de Montpellier, CNRS UMR 9004 - Montpellier (FRA), <sup>7</sup>Inserm U941 - Paris(FRA), <sup>8</sup>Assistance Publique Hôpitaux de Paris, Hôpital Saint Louis - Paris (FRA), <sup>9</sup>Inserm U94 - Paris (FRA)

► PP 1.22: A novel, ultra-sensitive technology for quantifying the HIV unintegrated linear DNA responsible for pre-integrative latency

Author(s): J. Dutrieux <sup>6,\*</sup>, H. Roux <sup>1,2,\*</sup>, J. Migraine <sup>3</sup>, M. Salmona <sup>4</sup>, J. Hamroune <sup>2</sup>, N. Arhel <sup>5</sup>, A. Hance <sup>6</sup>, F. Clavel <sup>4</sup>, R. Cheyner <sup>2</sup>

<sup>1</sup>Université de Paris - Paris (FRA), <sup>2</sup>Institut Cochin, INSERM, U1016, CNRS, UMR8104 - Paris (FRA), <sup>3</sup>Inserm U1259 - Tours (FRA), <sup>4</sup>Université de Paris, Assistance Publique Hôpitaux de Paris, Hôpital Saint Louis - Paris (FRA), <sup>5</sup>Institut de Recherche en Infectiologie de Montpellier, CNRS UMR 9004 - Montpellier (FRA), <sup>6</sup>INSERM U941 - Paris (FRA)

► PP 1.23: A delicate balance between the number of RBEII and NF- $\kappa$ B motifs impacts latency kinetics in HIV-1

Author(s): U. Ranga <sup>1,\*</sup>, D. Bhangé <sup>1</sup>, N. Prasad <sup>1</sup>

Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) - Bangalore (IND)

► PP 1.24: Epigenomic characterization of a primary cell model of HIV latency.

Author(s): E. Browne <sup>1,\*</sup>, B. Pace <sup>1</sup>, D. Margolis <sup>1</sup>, B. Strahl <sup>1</sup>, R. Dronamraju <sup>1</sup>, S. Jefferys <sup>1</sup>, J. Parker <sup>1</sup>  
UNC-Chapel Hill - Chapel Hill (USA)

► PP 1.25: Proteasomal degradation of PML protein is a stress response to HIV-1 replication and reactivation

Author(s): I. Shytaj <sup>1,2,\*</sup>, B. Lucic <sup>1</sup>, C. Penzo <sup>1</sup>, S. Biciato <sup>3</sup>, M. Forcato <sup>3</sup>, A. Savarino <sup>4</sup>, M. Lucic <sup>1</sup>

<sup>1</sup>Department of Infectious Diseases, Integrative Virology, Heidelberg University - Heidelberg (GER), <sup>2</sup>German Center for Infection Research (DZIF) - Heidelberg (GER), <sup>3</sup>Department of Life Sciences, University of Modena and Reggio Emilia - Modena (ITA) - <sup>4</sup>Department of Infectious and Immune-Mediated Diseases, Italian Institute of Health - Rome (ITA)

► PP 1.26: Expression of CircRNAs in HIV-1 latently infected cells from an in vitro model

Author(s): L. Iniguez <sup>1,\*</sup>, D.C. Copertino Jr <sup>1</sup>, D.F. Nixon <sup>1</sup>, M. De Mulder Rougvie <sup>1</sup>

Weill Cornell Medicine - New York (USA)

► PP 1.27: Cleavage And Polyadenylation Specific Factor 6 is required for HIV latency reversal

Author(s): Y. Zheng <sup>1,\*</sup>, A. Nau <sup>2</sup>, V. Achuthan <sup>3</sup>, A. Engelman <sup>3</sup>, V. Planelles <sup>1</sup>

<sup>1</sup>Department of Pathology, School of Medicine, University of Utah - Salt Lake City (USA), <sup>2</sup>Department of Biochemistry, School of Medicine, University of Utah - Salt Lake City (USA), <sup>3</sup>Department of Cancer Immunology and Virology, Dana-Farber Cancer Institute; Department of Medicine, Harvard Medical School - Boston (USA)

► PP 1.28: Using Single-cell Analysis and a Primary Model of HIV to study Latency Establishment and Reactivation

Author(s): L. De Armas <sup>1,\*</sup>, S. Williams <sup>1</sup>, L. Pan <sup>1</sup>, S. Rinaldi <sup>1</sup>, S. Pallikuth <sup>1</sup>, R. Pahwa <sup>1</sup>, S. Pahwa <sup>1</sup>

University of Miami Miller School of Medicine - Miami (USA)

► PP 1.29: Degradation of the XPB subunit of TFIIH by Spironolactone reduces HIV-1 reactivation from latency

Author(s): L. Mori <sup>1,\*</sup>, Y.C. Ho <sup>2</sup>, B.C. Ramirez <sup>3</sup>, S. Valente <sup>1</sup>

<sup>1</sup>The Scripps Research Institute, Department of Immunology and Microbiology - Jupiter (USA), <sup>2</sup>Department of Microbial Pathogenesis, Yale University School of Medicine - New Haven (USA), <sup>3</sup>Institut Cochin, Inserm, CNRS, Université Sorbonne Paris Cité - Paris (FRA)

► PP 1.30: Updates on Two Public Databases for Studies of HIV Persistence; the Retrovirus Integration Database (RID) and HIV Proviral Sequence Database (PSD)

Author(s): W. Shao <sup>1,\*</sup>, J. Shan <sup>1</sup>, W.S. Hu <sup>2</sup>, E. Halvas <sup>3</sup>, J. Mellors <sup>3</sup>, J. Coffin <sup>4</sup>, M. Kearney <sup>2</sup>

<sup>1</sup>Leidos Biomedical Research, INC - Frederick (USA), <sup>2</sup>HIV Dynamics and Replication Program, NCI - Frederick (USA), <sup>3</sup>Division of Infectious Disease, University of Pittsburgh - Pittsburgh (USA), <sup>4</sup>Tufts University - Boston (USA)

► PP 1.31: Specificity of Bivalent Chemical Degraders Targeted to the BET Proteins

Author(s): A-M. Turner<sup>1,\*</sup>, F. Potjewyd<sup>2</sup>, A. Keller<sup>3</sup>, L. James<sup>2</sup>, D. Margolis<sup>1</sup>

<sup>1</sup>UNC HIV Cure Center, Departments of Medicine and Microbiology/Immunology, UNC Chapel Hill School of Medicine, University of North Carolina Chapel Hill (USA), <sup>2</sup>Center for Integrative Chemical Biology and Drug Discovery, UNC Eshelman School of Pharmacy, University of North Carolina Chapel Hill - Chapel Hill (USA), <sup>3</sup>UNC HIV Cure Center, University of North Carolina Chapel Hill - Chapel Hill (USA)

► PP 1.32: Utilizing Genetic Barcodes to Understand the Role of Silent Integration in HIV Latency

Author(s): E. Larragoite<sup>1,\*</sup>, K.E. Kimball<sup>1</sup>, E. Atindaana<sup>2</sup>, A. Telesnitsky<sup>2</sup>, V. Planelles<sup>1</sup>

<sup>1</sup>University of Utah School of Medicine, Department of Pathology - Salt Lake City (USA), <sup>2</sup>University of Michigan Salt Lake City Medical School, Microbiology and Immunology - Ann Arbor (USA)

► PP 1.33: Factors Associated with Viral Control after Structured Treatment Interruptions

Author(s): N. Jilg<sup>1,\*</sup>, B. Etemad<sup>2</sup>, R. Dele-Oni<sup>2</sup>, C. Wong<sup>2</sup>, E. Aga<sup>3</sup>, R. Bosch<sup>3</sup>, D. Kuritzkes<sup>2</sup>, I. Frank<sup>4</sup>, J. Jacobson<sup>5</sup>, J. Li<sup>5</sup>

<sup>1</sup>Massachusetts General Hospital - Boston (USA), <sup>2</sup>Brigham and Women's Hospital - Boston (USA), <sup>3</sup>Harvard T. H. Chan School of Public Health - Boston (USA), <sup>4</sup>Pereleman School of Medicine - Philadelphia (USA), <sup>5</sup>Case Western Reserve University - Cleveland (USA)

► PP 1.34: Visualization of HIV Reactivation from Latency in Primary Resting Memory T-cells

Author(s): F. Kizito<sup>1,\*</sup>, J. Karn<sup>1,\*</sup>, U. Mbonye<sup>1</sup>, C. Dobrowolski<sup>1</sup>, S. Valadkhan<sup>1</sup>

Department of Molecular Biology and Microbiology, Case Western Reserve University School of Medicine - Cleveland (USA)

► PP 1.35: An Unbiased Platform to Identify Regulators of HIV Latency in Infected Primary Human CD4+ T Cells

Author(s): U. Rathore<sup>1,2,\*</sup>, J. Hiatt<sup>1</sup>, D.A. Cavery<sup>1</sup>, A. Marson<sup>1,\*</sup>

<sup>1</sup>Department of Microbiology and Immunology, University of California, San Francisco - San Francisco (USA), <sup>2</sup>Diabetes Center, University of California, San Francisco - San Francisco (USA)

► PP 1.36: HIV-1 genomes cluster in nuclear niches of human macrophages

F. Di Nunzio<sup>1,\*</sup>, Francesca Di Nunzio<sup>1</sup>, Elena Rensen<sup>1,2</sup>, Florian Mueller<sup>2</sup>, Viviana Scoca<sup>1</sup>, Jyotsana Parmar<sup>2</sup>, Phillippe Souque<sup>1</sup>, Christophe Zimmer<sup>2</sup>,

<sup>1</sup>Virologie Moléculaire et Vaccinologie, Department of Virology, Pasteur Institute, Paris, France

<sup>2</sup>Imagerie et Modélisation, Département Biologie Cellulaire et Infections, UIM, C3BI, Pasteur Institute, Paris, France

## SESSION 2: IN VITRO AND ANIMAL MODELS STUDIES OF HIV PERSISTENCE

► PP 2.1: Elimination of HIV-1/SHIV infected cells by combinations of bispecific HIV x CD3 DART® molecules

Author(s): M. Tuvishime<sup>1,\*</sup>, J. Pickeral<sup>1</sup>, N. Jeffrey<sup>2</sup>, C. Ann<sup>3</sup>, S. Guido<sup>4</sup>, M. David<sup>5</sup>, F. Guido<sup>1</sup>

<sup>1</sup>Department of Surgery, Duke University Medical Center - Durham (USA), <sup>2</sup>MacroGenics - Rockville (USA), <sup>3</sup>Yerkes National Primate Research Center, Emory University - Atlanta (USA), <sup>4</sup>Department of Pediatrics, Emory University - Atlanta (USA), <sup>5</sup>UNC HIV Cure Center, Departments of Medicine, Microbiology and Immunology, and Epidemiology, University of North Carolina at Chapel Hill - Chapel Hill (USA)

► PP 2.2: Subtype and tropism can influence the establishment and inducibility of latent HIV-1 in primary CD4 T cells

Author(s): I. Sarabia<sup>1,\*</sup>, S.H. Huang<sup>2</sup>, A.R. Ward<sup>2</sup>, R.B. Jones<sup>2</sup>, A. Bosque<sup>1</sup>

<sup>1</sup>George Washington University - Washington (USA), <sup>2</sup>Weill Cornell Medicine - New York (USA)

► PP 2.3: Biomarkers to predict reactivation from latency in SIV infection

Author(s): M. Pinkevych<sup>1,\*</sup>, M. Davenport<sup>1,\*</sup>, C. Fennessey<sup>2</sup>, C. Trubey<sup>2</sup>, K. Brandon<sup>2</sup>

<sup>1</sup>UNSW Sydney - Sydney (Australie), <sup>2</sup>Frederick National Laboratory for Cancer Research - Frederick (USA)

► PP 2.4: The Effect of Natural Killer Cells on Viral Rebound in HIV-1-infected Humanized Mice

Author(s): J. Kim<sup>1,\*</sup>, C. Carmona<sup>1</sup>, K. Farrell<sup>1</sup>, T.H. Zhang<sup>1</sup>, H. Chen<sup>1</sup>, M. Dimpasoc<sup>1</sup>, M. Soliman<sup>1</sup>, M. Marsden<sup>1</sup>, R. Sun<sup>1</sup>, J. Zack<sup>1</sup>

University of California Los Angeles - Los Angeles (USA)

► PP 2.5: Cell-associated provirus size decreases in the xenografted CD4 + T cells from chronically infected natural host in a novel simianized mice model

Author(s): Z. Yuan<sup>1,\*</sup>, S. Lai<sup>2</sup>, K. Portion<sup>2</sup>, R. Fast<sup>3</sup>, I. Ourmanov<sup>2</sup>, A. Buckler-White<sup>2</sup>, J. Lifson<sup>3</sup>, J. Brechley<sup>3</sup>, L. Montaner<sup>1</sup>, V. Hirsch<sup>2</sup>

<sup>1</sup>Wistar Institute - Philadelphia (USA), <sup>2</sup>NIH - Bethesda (USA), <sup>3</sup>NCI - Frederick (USA)

► PP 2.6:  $\mu$ -Lat: A High-Throughput Humanized Mouse Model of Latent HIV Infection

Author(s): H. Sperber<sup>1,\*</sup>, P.P. Togarrati<sup>1</sup>, K. Raymond<sup>1</sup>, M.S. Bouzidi<sup>1</sup>, R. Gilfanova<sup>1</sup>, M.O. Muench<sup>1</sup>, S.K. Pillai<sup>1</sup>

Vitalant Research Institute - San Francisco (USA)

► PP 2.7: Donor T cell chimerism correlates with viral reservoir clearance following allogeneic stem cell transplantation in fully cART-suppressed Mauritian cynomolgus macaques

Author(s): H. L. Wu<sup>1,\*</sup>, W. Weber<sup>1</sup>, S. A. Abdulhaqq<sup>1</sup>, C. Shriver-Munsch<sup>2</sup>, T. Swanson<sup>2</sup>, M. Northrup<sup>1,2</sup>, K. Armantrout<sup>2</sup>, H. Price<sup>2</sup>, M. Robertson-LeVay<sup>2</sup>, J. S. Reed<sup>1</sup>, K. B. Bateman<sup>1</sup>, B. N. Bimber<sup>2</sup>, S. L. Junell<sup>4</sup>, Rhonda MacAllister<sup>2</sup>, A. W. Legasse<sup>2</sup>, M. K. Axthelm<sup>2</sup>, C. Moats<sup>2</sup>, J. Smedley<sup>2</sup>, T. R. Hobbs<sup>2</sup>, L. D. Martin<sup>2</sup>, G. Meyers<sup>3</sup>, R. T. Maziarz<sup>3</sup>, B. J. Burwitz<sup>1</sup>, J. Stanton<sup>2</sup>, J. B. Sacha<sup>1,2</sup>

<sup>1</sup>Vaccine and Gene Therapy Institute, <sup>2</sup>Oregon National Primate Research Center, <sup>3</sup>Center for Hematologic Malignancies, Knight Cancer Institute, <sup>4</sup>Division of Medical Physics, Department of Radiation Medicine, Oregon Health and Science University, Portland, Oregon (USA)

► PP 2.8: Unprimed CD8 + lymphocytes promote the establishment of HIV latency in CD4 + T cells

Author(s): L. Franchitti<sup>1,\*</sup>, Z. Zhang<sup>2</sup>, J. Yoon<sup>2</sup>, M. Paiardini<sup>1</sup>, G. Silvestri<sup>1</sup>, D.A. Kulpa<sup>2,\*</sup>

<sup>1</sup>Yerkes National Primate Research Center, Department of Pathology & Laboratory Medicine, and Emory Vaccine Center - Atlanta (USA), <sup>2</sup>Department of Pediatrics, Emory University School of Medicine - Atlanta (USA)

► PP 2.9: Origin of Rebound Virus in Chronically SIV-Infected Monkeys Following Treatment Discontinuation

Author(s): D. Barouch<sup>1,\*</sup>, P.-T. Liu<sup>1,\*</sup>, B. Keele<sup>2</sup>, P. Abbink<sup>1</sup>, N. Mercado<sup>1</sup>, R. Geleziunas<sup>3</sup>

<sup>1</sup>Center for Virology and Vaccine Research, Beth Israel Deaconess Medical Center, Harvard Medical School - Boston (USA), <sup>2</sup>AIDS and Cancer Virus Program, Frederick National Laboratory for Cancer Research - Frederick (USA), <sup>3</sup>Gilead Sciences - Foster City (USA)

► PP 2.10: Barcoded HIV reveals effects of PKC modulation on viral reservoir

Author(s): J. Zack<sup>1,\*</sup>, M. Marsden<sup>1,\*</sup>, T.H. Zhang<sup>1</sup>, Y. Du<sup>1</sup>, M. Dimapasoc<sup>1</sup>, X. Wu<sup>1</sup>, P. Wender<sup>2</sup>, R. Sun<sup>1</sup>

<sup>1</sup>UCLA - Los Angeles (USA), <sup>2</sup>UCLA - Stanford (USA)

► PP 2.11: IL-17A Imprints Intestinal Epithelial Cells with the Ability to Promote HIV-1 Dissemination/ Outgrowth in CD4 + T-Cells

Author(s): T. Wiche Salinas<sup>1,\*</sup>, A. Gosselin<sup>2</sup>, B. Mariana<sup>3</sup>, H. Touil<sup>1</sup>, Y. Zhang<sup>2</sup>, J.P. Routy<sup>4</sup>, É.A. Cohen<sup>3</sup>, C.L. Tremblay<sup>1</sup>, P. Ancuta<sup>1</sup>

<sup>1</sup>UNIVERSITY OF MONTRÉAL - Montréal (CAN), <sup>2</sup>CRCHUM - Montréal (CAN), <sup>3</sup>IRCM - Montréal (CAN), <sup>4</sup>McGill University - Montréal (CAN)

► PP 2.12: Evaluating latency reactivation synergies between the bromodomain inhibitor iBET-151 and the SMAC mimetic AZD5582 in SIV-infected macaques on ART  
Author(s): A.A. Okoye<sup>1,\*</sup>, Y. Fukazawa<sup>1,\*</sup>, B.E. Randall<sup>1</sup>, R. Lum<sup>1</sup>, B. Varco-Merth<sup>1</sup>, S.D. Falcinelli<sup>2</sup>, J. Smedley<sup>1</sup>, R. Dunham<sup>2</sup>, J.D. Lifson<sup>3</sup>, L.J. Picker<sup>1</sup>

<sup>1</sup>Vaccine & Gene Therapy Institute and Oregon National Primate Research Center, Oregon Health & Science University - Beaverton, Or (USA), <sup>2</sup>UNC HIV Cure Center, University of North Carolina at Chapel Hill and HIV Drug Discovery, Viiv Healthcare - Research Triangle Park, Nc (USA), <sup>3</sup>AIDS and Cancer Virus Program, Frederick National Laboratory - Frederick, Md (USA)

► PP 2.13: Next Generation Sequencing in a direct infection model reveals important parallels to in vivo reservoir dynamics  
Author(s): U. O'Doherty<sup>1,\*</sup>, M. Pinzone<sup>1,\*</sup>, M.P. Bertuccio<sup>2</sup>, D.J. Vanbelzen<sup>3</sup>

<sup>1</sup>University of Pennsylvania - Philadelphia (USA), <sup>2</sup>University of Messina - Messina (Italie), <sup>3</sup>Northwestern University - Evanston (USA)

► PP 2.14 : Treatment of SHIV-infected, ART-suppressed rhesus macaques with bispecific HIVxCD3 DART® molecules

Author(s): D. M. Gorman<sup>1</sup>, M.-T. Lai<sup>2</sup>, C. McHale<sup>2</sup>, M. Lu<sup>2</sup>, D. Graham<sup>2</sup>, J. Strizki<sup>2</sup>, Y. Zheng<sup>1</sup>, S. Ma<sup>1</sup>, S. Moltagh<sup>1</sup>, M. Bailly<sup>1</sup>, S. Hsieh<sup>1</sup>, G. Azadi<sup>1</sup>, Yaoli Song<sup>1</sup>, F. Ugarte<sup>1</sup>, R. Riener<sup>1</sup>, W. Blumenschein<sup>1</sup>, D. Hazuda<sup>2</sup>, J. Nordstrom<sup>3</sup>, B. Howell<sup>2</sup>

<sup>1</sup>Merck - South San Francisco CA (USA)

<sup>2</sup>Merck - West Point PA (USA)

<sup>3</sup>Macrogenics - Rockville MD (USA)

► PP 2.15: Single-cell transcriptome of in vivo SIV-infected rhesus macaque CD4 T cells

Author(s): A. Tokarev<sup>1, 2,\*</sup>, A. Geretz<sup>1</sup>, P. Ehrenberg<sup>2</sup>, M. Roederer<sup>3</sup>, R. Thomas<sup>1</sup>, D.L. Bolton<sup>1</sup>

<sup>1</sup>The Henry Jackson Foundation for the Advancement of Military Medicine - Bethesda (USA), <sup>2</sup>US Military HIV Research Program - Silver Spring (USA), <sup>3</sup>Vaccine Research Center, NIAID, NIH - Bethesda (USA)

► PP 2.16: Novel SHIVs encoding transmitted/founder Envs for latency and cure research

Author(s): A. Bauer<sup>1,\*</sup>, E. Lindemuth<sup>1</sup>, L. Kuri-Cervantes<sup>1</sup>, H. Li<sup>1</sup>, M. Watkins<sup>2</sup>, W. Ziani<sup>2</sup>, H. Xu<sup>2</sup>, R. Veazey<sup>2</sup>, G. Shaw<sup>1</sup>, K. Bar<sup>1</sup>

<sup>1</sup>University of Pennsylvania - Philadelphia (USA), <sup>2</sup>TNPRC - Covington (USA)

## SESSION 3: VIROLOGY OF HIV PERSISTENCE

► PP 3.1: Automated high-throughput quantification of persistent HIV-1 plasma viremia in individuals on ART  
 Author(s): J. Jacobs <sup>1,\*</sup>, M. Tosiano <sup>1</sup>, D. Koontz <sup>1</sup>, A. Worlock <sup>2</sup>, K. Harrington <sup>2</sup>, K. Shutt <sup>1</sup>, S. Bakkour <sup>3</sup>, M. Busch <sup>3</sup>, J. Mellors <sup>1</sup>

<sup>1</sup>University of Pittsburgh School of Medicine, Department of Medicine, Division of Infectious Diseases - Pittsburgh (USA), <sup>2</sup>Hologic, Inc. - San Diego (USA), <sup>3</sup>Vitalant Research Institute - San Francisco (USA)

► PP 3.2: Proviral Landscape In Children Parallels Adults And Enables Reservoir Reconstruction

Author(s): J. Hasson <sup>1,\*</sup>, M.G. Katusiime <sup>2</sup>, S. Smith <sup>3</sup>, M. Cotton <sup>2</sup>, E. Boritz <sup>3</sup>, J. Coffin <sup>4</sup>, J. Mellors <sup>5</sup>, S. Patro <sup>1</sup>, G. Van Zyl <sup>2</sup>, M. Kearney <sup>1</sup>

<sup>1</sup>National Cancer Institute - Frederick (USA), <sup>2</sup>Stellenbosch University - Cape Town (ZAF), <sup>3</sup>National Institute of Allergy and Infectious Diseases - Bethesda (USA), <sup>4</sup>Tufts University - Boston (USA), <sup>5</sup>University of Pittsburgh - Pittsburgh (USA)

► PP 3.3: The dynamics of HIV-1 quasispecies diversity circulating in the plasma RNA and cellular DNA of patients with ART

Author(s): M. Living <sup>3,\*</sup>, Z. Yuan <sup>1,\*</sup>, Y. Qian <sup>1</sup>, N. Ming <sup>2</sup>, L. Tingting <sup>3</sup>, W. Chen <sup>1</sup>, D. Yibo <sup>1</sup>, L. Lingjie <sup>1</sup>, X. Hui <sup>1</sup>, C. Chen <sup>3</sup>

<sup>1</sup>State Key Laboratory of Infectious Disease Prevention and Control, National Center for AIDS/STD Control and Prevention, Collaborative Innovation Center for Diagnosis and Treatment of Infectious Diseases, Chinese Center for Disease Control and Prevention - Beijing (CHI), <sup>2</sup>Beijing Institute of Radiation Medicine - Beijing (CHI), <sup>3</sup>Institute of Infectious Diseases, Beijing Ditan Hospital, Capital Medical University - Beijing (CHI)

► PP 3.4: High-Throughput Sequencing of Integrated HIV-1 Reveals Novel Proviral Structures

Author(s): K. Joseph <sup>1,\*</sup>, E. Halvas <sup>1</sup>, L. Brandt <sup>1</sup>, S. Patro <sup>2</sup>, J. Rausch <sup>3</sup>, M. Kearney <sup>2</sup>, J. Coffin <sup>4</sup>, J. Mellors <sup>1</sup>

<sup>1</sup>University of Pittsburgh, Department of Medicine, Division of Infectious Disease - Pittsburgh, Pa (USA), <sup>2</sup>HIV Dynamics and Replication Program, National Cancer Institute - Frederick, Md (USA), <sup>3</sup>Basic Research Laboratory, Center for Cancer Research, National Cancer Institute - Frederick, Md (USA), <sup>4</sup>Tufts University - Boston, Ma (USA)

► PP 3.5: nHIV-Infected Cells that Survive Co-culture with HIV-specific CTL Exhibit Distinctive Viral Messenger RNA Transcript Profiles

Author(s): R.B. Jones <sup>1,\*</sup>, G. Lee <sup>1,\*</sup>, T. Klevorn <sup>1</sup>, Y. Ren <sup>1</sup>

Weill Cornell Medical College - New York (USA)

► PP 3.6: HIV Proviruses with Identical Sequences Arise from Cell Expansion and Infection by a Common Ancestor Virus

Author(s): S. Patro <sup>1,\*</sup>, A. Niyongabo <sup>1</sup>, S. Guo <sup>2</sup>, X. Wu <sup>2</sup>, E. Boritz <sup>3</sup>, S. Deeks <sup>4</sup>, F. Maldarelli <sup>1</sup>, S. Hughes <sup>1</sup>, J. Coffin <sup>5</sup>, M. Kearney <sup>1</sup>

<sup>1</sup>HIV Dynamics and Replication Program, National Cancer Institute - Frederick (USA), <sup>2</sup>Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research - Frederick (USA), <sup>3</sup>Virus Persistence and Dynamic Section, Vaccine Research Center, National Institute of Allergy and Infectious Diseases - Bethesda (USA), <sup>4</sup>Department of Medicine, University of California San Francisco - San Francisco (USA), <sup>5</sup>Department of Molecular Biology and Microbiology, Tufts University - Boston (USA)

► PP 3.7: Diversity of the replication-competent HIV reservoir in treated patients

Author(s): A. Nicolas <sup>1,2,\*</sup>, J. Migraine <sup>1</sup>, J. Dutrieux <sup>1</sup>, M. Salmona <sup>1,3</sup>, A. Tauzin <sup>4</sup>, A. Hachiya <sup>5</sup>, J.M. Molina <sup>3</sup>, F. Clavel <sup>3</sup>, A. Hance <sup>1</sup>, F. Mammano <sup>4,\*</sup>

<sup>1</sup>Inserm U941 - Paris (FRA), <sup>2</sup>Inserm U1124 - Paris (FRA), <sup>3</sup>APHP, Hôpital Saint-Louis - Paris (FRA), <sup>4</sup>Inserm U941, Inserm U1124 - Paris (FRA), <sup>5</sup>National Hospital Organization Nagoya Medical Center - Nagoya (JAP)

► PP 3.8: Peripheral blood SIV/HIV originates from infected cells in tissues

Author(s): M. Betts <sup>1,\*</sup>, L. Kuri Cervantes <sup>1,\*</sup>, M.B. Pampena <sup>1</sup>, S. Samer <sup>2</sup>, D. Khoury <sup>3</sup>, I. Frank <sup>1</sup>, M. Paiardini <sup>2</sup>, M. Davenport <sup>3</sup>, K. Bar <sup>1</sup>, R. Veazey <sup>4</sup>

<sup>1</sup>University of Pennsylvania - Philadelphia (USA), <sup>2</sup>Emory University - Atlanta (USA), <sup>3</sup>The Kirby Institute - Sydney (AUS), <sup>4</sup>Tulane National Primate Research Center - Covington (USA)

► PP 3.9: Ultra-deep Analysis of Pretherapy HIV Predicts Large and Genetically Complex Reservoirs During Antiretroviral Therapy

Author(s): K. Huik <sup>1,\*</sup>, J. Hattori <sup>1</sup>, V. Boltz <sup>1</sup>, J. Rausch <sup>1</sup>, W. Shao <sup>2</sup>, M. Kearney <sup>1</sup>, J. Coffin <sup>3</sup>, F. Maldarelli <sup>1</sup>

<sup>1</sup>HIV Dynamics and Replication Program, NCI, NIH - Frederick (USA), <sup>2</sup>Leidos Biomedical Research - Frederick (USA), <sup>3</sup>Tufts University - Boston (USA)



## POSTER PRESENTATION

- PP 3.10: In Vivo Analysis of HIV From an Occupational Exposure to Laboratory Adapted HIV-IIIB With Twenty Year Follow-Up: Implications for Reservoir Formation  
Author(s): C. Lange <sup>1,\*</sup>, N. Lindo <sup>2</sup>, R. Little <sup>2</sup>, T. Uldrick <sup>3</sup>, S. Hill <sup>1</sup>, J. Bell <sup>2</sup>, K. Lurain <sup>2</sup>, R. Ramaswami <sup>2</sup>, R. Yarchoan <sup>2</sup>, F. Maldarelli <sup>2</sup>  
<sup>1</sup>National Cancer Institute - Frederick (USA), <sup>2</sup>National Cancer Institute - Bethesda (USA), <sup>3</sup>Fred Hutch Cancer Research Center - Seattle (USA)
- PP 3.11: Post-ATI viremia in a hyperacute subject comprises macrophage-tropic viral variants  
Author(s): V. Machado <sup>1,\*</sup>, M. Sharkey <sup>1</sup>, T. Cordeiro <sup>1</sup>, L. Barrios <sup>1</sup>, T. Henrich <sup>2</sup>, M. Stevenson <sup>1</sup>  
<sup>1</sup>University of Miami - Miami (USA), <sup>2</sup>University of California San Francisco - San Francisco (USA)
- PP 3.12: Long-term persistence of HIV-infected cell clones in early treated children  
Author(s): M. Bale <sup>1,\*</sup>, M.G. Katusiime <sup>2</sup>, D. Wells <sup>3</sup>, X. Wu <sup>3</sup>, J. Coffin <sup>4</sup>, M. Cotton <sup>5</sup>, S. Hughes <sup>1</sup>, J. Mellors <sup>6</sup>, G. Van Zyl <sup>2</sup>, M. Kearney <sup>2</sup>  
<sup>1</sup>HIV Dynamics and Replication Program, CCR, National Cancer Institute - Frederick (USA), <sup>2</sup>Division of Medical Virology, Stellenbosch University - Cape Town (ZAF), <sup>3</sup>Leidos Biomedical Research Inc. - Frederick (USA), <sup>4</sup>Department of Molecular Biology and Microbiology, Tufts University - Boston (USA), <sup>5</sup>Department of Pediatrics and Child Health, Tygerberg Children's Hospital and Family Clinical Research Unit - Cape Town (ZAF), <sup>6</sup>Department of Medicine, University of Pittsburgh - Pittsburgh (USA)
- PP 3.13: CXCR4-usage HIV-1 strains isolated from blood and cerebrospinal fluid in subjects on suppressive antiretroviral therapy  
Author(s): A. Nath <sup>1,\*</sup>, G. Li <sup>1,\*</sup>, L. Henderson <sup>1</sup>, B. Smith <sup>1</sup>, L. Reoma <sup>1</sup>, X. Jiao <sup>2</sup>, U. Santamaria <sup>1</sup>, H. Imamichi <sup>2</sup>, C. Lane <sup>3</sup>  
<sup>1</sup>NIH/NINDS - Bethesda (USA), <sup>2</sup>NIH/NIAID - Frederick (USA), <sup>3</sup>NIH/NIAID - Bethesda (USA)
- PP 3.14: Marked variation in the susceptibility of HIV-1 to type 1 interferon inhibition during early, late and rebound infection  
Author(s): M. Gondim <sup>1,\*</sup>, S. Sherrill-Mix <sup>1</sup>, M. Saag <sup>2</sup>, M. Nussenzweig <sup>3</sup>, J. Silicano <sup>4</sup>, P. Sharp <sup>5</sup>, P. Borrow <sup>6</sup>, L. Montaner <sup>7</sup>, K. Bar <sup>1</sup>, B. Hahn <sup>1,\*</sup>  
<sup>1</sup>Department of Medicine, University of Pennsylvania - Philadelphia (USA), <sup>2</sup>Department of Medicine, University of Alabama at Birmingham - Birmingham (USA), <sup>3</sup>Laboratory of Molecular Immunology, The Rockefeller University - New York (USA), <sup>4</sup>Department of Medicine, Johns Hopkins University - Baltimore (USA), <sup>5</sup>Institute of Evolutionary Biology, University of Edinburgh - Edinburgh (GBR), <sup>6</sup>Nuffield Department of Clinical Medicine, University of Oxford - Oxford (United Kingdom), <sup>7</sup>Vaccine and Immunotherapy Center, The Wistar Institute - Philadelphia (USA)
- PP 3.15: Single-cell multiplexed RNA flow-FISH analysis of primary human samples reveals distinct VR reactivation profiles among LRA classes and curtailed VR transcriptional and translational reactivation patterns by HDAC inhibitors  
Author(s): D. Kaufmann <sup>1,\*</sup>, G. Sannier <sup>1,\*</sup>, M. Dubé <sup>1</sup>, N. Brassard <sup>1</sup>, G.G. Delgado <sup>1</sup>, A. Baxter <sup>1</sup>, J.P. Routy <sup>2</sup>, N. Chomont <sup>1</sup>  
<sup>1</sup>Research Centre of the Centre Hospitalier de l'Université de Montréal (CRCHUM), Université de Montréal - Montreal (CAN), <sup>2</sup>Chronic Viral Illnesses Service and Division of Hematology, McGill University Health Centre - Montreal (CAN)
- PP 3.16: HIV-1 sequence compartmentalization and evolution in CNS and immune tissue  
Author(s): M. Gonzalez-Perez <sup>1,\*</sup>, R. Rose <sup>2</sup>, D.J. Nolan <sup>2</sup>, S.L. Lamers <sup>2</sup>, P.R. Clapham <sup>1</sup>, K. Luzuriaga <sup>1</sup>  
<sup>1</sup>University of Massachusetts Medical School - Worcester (USA), <sup>2</sup>BioInfoExperts LLC - Thibodaux (USA)
- PP 3.17: Intact and replication-competent reservoir virus populations differ from each other and rebound plasma viruses  
Author(s): K. Bar <sup>1,\*</sup>, F. Mampe <sup>1</sup>, M.A. Monroy <sup>1</sup>, E. Lindemuth <sup>1</sup>, L. Kuri Cervantes <sup>1</sup>, F. Bibollet-Ruche <sup>1</sup>, B. Hahn <sup>1</sup>, D.B. Salantes <sup>1</sup>  
University of Pennsylvania - Philadelphia (USA)
- PP 3.18: Longitudinal Sequencing Reveals Multiphasic Decay of HIV Reservoir  
Author(s): L. Cannon <sup>1,\*</sup>, M. Pinzone <sup>1</sup>, E. Venanzi-Rullo <sup>1</sup>, U. O'doherty <sup>1</sup>  
University of Pennsylvania - Philadelphia (USA)



## SESSION 4: IMMUNOLOGY OF HIV PERSISTENCE

► PP 4.1: Baseline inducible HIV P24 is associated with viral control during interferon- $\beta$  monotherapy with ART interruption

Author(s): L.J. Montaner<sup>1,\*</sup>, L. Azzoni<sup>1,\*</sup>, E. Papasavvas<sup>1</sup>, P. Tebas<sup>2</sup>, K. Mounzer<sup>3</sup>, B. Howell<sup>4</sup>, D. Holder<sup>5</sup>, N. Chomont<sup>6</sup>, L. Kuri Cervantes<sup>2</sup>, M. Betts<sup>2</sup>

<sup>1</sup>The Wistar Institute - Philadelphia (USA), <sup>2</sup>University of PA - Philadelphia (USA), <sup>3</sup>Philadelphia FIGHT - Philadelphia (USA), <sup>4</sup>Merck, inc. - West Point (USA), <sup>5</sup>Merck, Inc. - West Point (USA), <sup>6</sup>Université de Montreal - Montreal (CAN)

► PP 4.2: Enhancement of antiviral CD8+ T-cell responses and complete remission of metastatic melanoma in an HIV-1 infected subject treated with pembrolizumab

Author(s): O. Blanch-Lombarte<sup>1,\*</sup>, C. Gálvez<sup>1</sup>, B. Revollo<sup>2</sup>, E. Jiménez-Moyano<sup>1</sup>, J. M Llibre<sup>2</sup>, J. Dalmau<sup>1</sup>, D. E. Speiser<sup>3</sup>, B. Clotet<sup>2</sup>, J. G Prado<sup>1</sup>, J. Martinez-Picado<sup>1</sup>

<sup>1</sup>AIDS Research Institute, IrsiCaixa - Badalona (SPA), <sup>2</sup>Infectious Diseases Department, University Hospital "Germans Trias i Pujol" - Badalona (SPA), <sup>3</sup>Department of Oncology, University of Lausanne - Lausanne (CHE)

► PP 4.3: Characterizing antibody responses in ART-treated individuals

Author(s): A. Wilson<sup>1,\*</sup>, Y. Ren<sup>2</sup>, E. Stevenson<sup>2</sup>, R.B. Jones<sup>2</sup>, R. Lynch<sup>1</sup>

<sup>1</sup>George Washington University - Washington (USA), <sup>2</sup>Weill Cornell School of Medicine - New York (USA)

► PP 4.4: Th2 cytokines are associated with higher levels of intact proviruses on ART

Author(s): J. Cyktor<sup>1,\*</sup>, H. Mar<sup>2</sup>, G. Laird<sup>3</sup>, R. Bosch<sup>2</sup>, A. Martin<sup>3</sup>, J. Eron<sup>4</sup>, B. Macatangay<sup>1</sup>, D. McMahon<sup>1</sup>, R. Gandhi<sup>5</sup>, J. Mellors<sup>1</sup>

<sup>1</sup>University of Pittsburgh - Pittsburgh (USA), <sup>2</sup>Harvard University - Boston (USA), <sup>3</sup>Accelevir Diagnostics - Baltimore (USA), <sup>4</sup>University of North Carolina - Chapel Hill (USA), <sup>5</sup>Massachusetts General Hospital - Boston (USA)

► PP 4.5: Marker of gut damage REG3 $\beta$  and microbial translocation are associated with integrated HIV DNA in CD4 T-cells during early HIV infection

Author(s): S. Isnard<sup>1,\*</sup>, F.P. Dupuy<sup>1</sup>, J. Lin<sup>1</sup>, B. Fombuena<sup>1</sup>, R. Ramendra<sup>1</sup>, J. Ouyang<sup>1</sup>, B. Lebouché<sup>1</sup>, C. Costiniuk<sup>1</sup>, C. Tremblay<sup>2</sup>, J.P. Routy<sup>1</sup>

<sup>1</sup>McGill University - Montréal (CAN), <sup>2</sup>Université de Montréal - Montréal (CAN)

► PP 4.6: BCL-2 Antagonism Sensitizes CTL-Resistant HIV Reservoirs to Elimination Ex Vivo

Author(s): R.B. Jones<sup>1,\*</sup>, Y. Ren<sup>1\*</sup>, S.H. Huang<sup>1\*</sup>, S. Patel<sup>2</sup>, W.C. Alberto<sup>1</sup>, D. Magat<sup>1</sup>, D. Ahimovic<sup>1</sup>, A.B. Macedo<sup>3</sup>, A. Bosque<sup>3</sup>, C.M. Bollard<sup>2</sup>

<sup>1</sup>Infectious Diseases Division, Weill Cornell Medicine - New York, Ny (USA), <sup>2</sup>Childrens National Medical Center - Washington, Dc (USA), <sup>3</sup>Dept of Microbiology, Immunology, and Tropical Medicine, The George Washington University - Washinton, Dc (USA)

► PP 4.7: PD-1+ CD4 T cells are associated with HIV reservoir size and impaired function of T follicular helper cells in children and young adults on long-term viral control

Author(s): S. Rinaldi<sup>1,\*</sup>, V. Dinh<sup>1</sup>, S. Pallikkuth<sup>1</sup>, L. De Armas<sup>1</sup>, R. Pahwa<sup>1</sup>, N. Cotugno<sup>2</sup>, E. Nastouli<sup>3</sup>, C. Foster<sup>4</sup>, P. Palma<sup>2</sup>, S. Pahwa<sup>1</sup>

<sup>1</sup>Department of Microbiology and Immunology, University of Miami Miller School of Medicine - Miami (USA), <sup>2</sup>Bambino Gesù Children's Hospital - Rome (ITA), <sup>3</sup>UCL Great Ormond Street Institute of Child Health - London (United Kingdom), <sup>4</sup>Imperial College Healthcare NHS Trust - London (GBR)

► PP 4.8: Restriction Factor Expression in HIV-1 Vertically Infected Children

Author(s): D. Copertino Jr<sup>1,\*</sup>, M. Bortlik<sup>2</sup>, B. Phillip<sup>2</sup>, G. Beckerle<sup>1</sup>, C. Ormsby<sup>3</sup>, M. Rosenberg<sup>4</sup>, R.A.S. Raposo<sup>2</sup>, D. Nixon<sup>1</sup>, M. De Mulder Rougvié<sup>1</sup>

<sup>1</sup>Weill Cornell Medicine - New York (USA), <sup>2</sup>Department of Microbiology, Immunology and Tropical Medicine, The George Washington University - Washington (USA), <sup>3</sup>Centre for Research in Infectious Diseases, National Institute of Respiratory Diseases - Mexico City (MEX), <sup>4</sup>Pediatric Infectious Diseases Department, Jacobi Medical Center - Bronx (USA)

► PP 4.9: HIV-infected macrophages evade NK cell-mediated killing while driving inflammation

Author(s): K. Clayton<sup>1,\*</sup>, H. Stuart<sup>1</sup>, G. Mylvaganam<sup>1</sup>, A. Villasmil Ocampo<sup>1</sup>, M. Maus<sup>2</sup>, B. Walker<sup>1</sup>

<sup>1</sup>Ragon Institute of MGH, MIT and Harvard - Cambridge (USA), <sup>2</sup>Massachusetts General Hospital - Cambridge (USA)

► PP 4.10 : A Modified TZM-bl Assay (MoCo-TZA) Documents Replication-Competent HIV in Circulating Monocytes Despite 2 years of Antiretroviral Therapy Initiated Early During Acute Infection

Author(s): B. Mitchell<sup>1,\*</sup>, E. Laws<sup>1</sup>, R. Paul<sup>2</sup>, S. Vasan<sup>3</sup>, E. Kroon<sup>3</sup>, V. Valcour<sup>4</sup>, S. Spudich<sup>5</sup>, C. Shikuma<sup>1</sup>, J. Ananworanich<sup>3</sup>, L. Ndhlovu<sup>1</sup>

<sup>1</sup>University of Hawaii - Honolulu (USA), <sup>2</sup>Missouri Institute of Mental Health - St. Louis (USA), <sup>3</sup>South East Research Collaboration in HIV - Bangkok (THA), <sup>4</sup>Memory and Aging Center - San Francisco (USA), <sup>5</sup>Yale University - New Haven (USA)

► PP 4.11: B Cells Mediate R5-Tropic HIV Infection of CCR5neg Naive CD4<sup>+</sup> T Cells

Author(s): A. Gerberick <sup>1,\*</sup>, N. Sluis-Cremer <sup>1</sup>, P. Piazza <sup>1</sup>, D. Delucia <sup>1</sup>, C. Rinaldo <sup>1</sup>, G. Rappocciolo <sup>1</sup>  
University of Pittsburgh - Pittsburgh (USA)

► PP 4.12: Harnessing the specialized effector function of FcR $\gamma$ <sup>+</sup> NK cells to control HIV-1 infection

Author(s): R. Anderko <sup>1,\*</sup>, C. Rinaldo <sup>1</sup>, R. Mailliard <sup>1</sup>  
University of Pittsburgh - Pittsburgh (USA)



## SESSION 5 AND 7: HUMAN STUDIES AND DRUG DEVELOPMENT I & II

### ► PP 5.7.1: From Reservoirs to the Real World: A Framework for Integrating Behavioral and Social Sciences Research into Biomedical HIV Cure-Related Research

Author(s): K. Dube <sup>1,\*</sup>, J.D. Auerbach <sup>2</sup>, M.J. Stirratt <sup>3</sup>, P. Gaist <sup>4</sup>

<sup>1</sup>UNC Gillings School of Global Public Health - Chapel Hill, (USA), <sup>2</sup>School of Medicine, University of California San Francisco - San Francisco (USA), <sup>3</sup>Division of AIDS Research (DAR), National Institute of Mental Health (NIMH), National Institutes of Health (NIH) - Bethesda (USA), <sup>4</sup>Office of AIDS Research, Division of Program Coordination, Planning, and Strategic Initiatives, Office of the Director, NIH - Bethesda (USA)

### ► PP 5.7.2: Permanent control of HIV-1 pathogenesis in exceptional elite controllers: a model of spontaneous cure

Author(s): C. Gálvez <sup>1,\*</sup>, C. Casado <sup>2</sup>, M. Pernas <sup>2</sup>, L. Tarancón-Diez <sup>3</sup>, C. Rodríguez <sup>4</sup>, R. Lorenzo-Redondo <sup>5</sup>, E. Ruiz-Mateos <sup>3</sup>, M. Salgado <sup>1</sup>, C. Lopez-Galindez <sup>2</sup>, J. Martínez-Picado <sup>1</sup>

<sup>1</sup>AIDS Research Institute IrsiCaixa - Badalona (SPA), <sup>2</sup>Centro Nacional de Microbiología. Instituto de Salud Carlos III - Madrid (SPA), <sup>3</sup>Institute of Biomedicine of Seville (IBiS) - Seville (SPA), <sup>4</sup>Centro Sanitario Sandoval - Madrid (SPA), <sup>5</sup>Northwestern University Feinberg School of Medicine - Chicago (USA)

### ► PP 5.7.3: Awareness of HIV cure-directed research among HIV clinic patients in Philadelphia

Author(s): L.J. Montaner <sup>1,\*</sup>, B. Peterson <sup>1</sup>, C. White <sup>2,\*</sup>, W. Freshwater <sup>2</sup>, M. Lefae <sup>3</sup>, C. Roebuck <sup>4</sup>, N. Jones <sup>5</sup>, D. Robinson <sup>2</sup>, S. Johnson <sup>6</sup>, E. Burton <sup>6</sup>

<sup>1</sup>The Wistar Institute - Philadelphia (USA), <sup>2</sup>BEAT-HIV CAB - Philadelphia (USA), <sup>3</sup>AIDS Law Project - Philadelphia (USA), <sup>4</sup>Cornell University - Ithaca (USA), <sup>5</sup>Temple University - Philadelphia (USA), <sup>6</sup>Philadelphia FIGHT - Philadelphia (USA)

### ► PP 5.7.4: Collaboration in Community Education: BEAT-HIV Community Engagement Group (CEG) and the HIV Cure Research Education Video Series

Author(s): L.J. Montaner <sup>1,\*</sup>, B. Peterson <sup>1,\*</sup>, W. Freshwater <sup>2</sup>, C. White <sup>2</sup>, M. Lefae <sup>3</sup>, C. Roebuck <sup>4</sup>, N. Jones <sup>5</sup>, J. Shull <sup>6</sup>, D.S. Metzger <sup>7</sup>, J.L. Riley <sup>7</sup>

<sup>1</sup>The Wistar Institute - Philadelphia (USA), <sup>2</sup>BEAT-HIV CAB - Philadelphia (USA), <sup>3</sup>AIDS Law Project - Philadelphia (USA), <sup>4</sup>Cornell University - Ithaca (USA), <sup>5</sup>Temple University - Philadelphia (USA), <sup>6</sup>Philadelphia FIGHT - Philadelphia (USA), <sup>7</sup>University of Pennsylvania - Philadelphia (USA)

### ► PP 5.7.5: Behind the Scenes: Clinical and Rapid Autopsy Staff Members' Experiences and Perceptions of HIV Reservoir Research at the End of Life

Author(s): K. Perry <sup>2,\*</sup>, J. Taylor <sup>1,\*</sup>, S. Concha-Garcia <sup>3</sup>, S. Javadi <sup>4</sup>, H. Patel <sup>2</sup>, A. Kaytes <sup>3</sup>, S. Little <sup>3</sup>, D. Smith <sup>3</sup>, S. Gianella <sup>2</sup>, K. Dubé <sup>2</sup>

<sup>1</sup>HIV + Aging Research Project-Palm Springs - Palm Springs (USA), <sup>2</sup>University of North Carolina - Chapel Hill (USA), <sup>3</sup>University of California San Diego - La Jolla (USA), <sup>4</sup>University of California San Diego - Chapel Hill (USA)

### ► PP 5.7.6: Virological impact of HCV elimination with DAAs in the HIV reservoir in HIV/HCV patients

Author(s): M. Coiras <sup>1</sup>, P. Martínez-Román <sup>1,\*</sup>, C. Crespo-Bermejo <sup>1</sup>, A. Fernández-Rodríguez <sup>1</sup>, V. Briz <sup>1</sup>

Institute of Health Carlos III - Majadahonda (SPA)

### ► PP 5.7.7: HIV Particles Expressed in Semen under INSTI-based Suppressive Therapy are Largely Myeloid Cell-Derived and Exhibit Widely Diverse Genotypes

Author(s): J. Johnson <sup>1,\*</sup>, D. Anderson <sup>2</sup>, J.F. Li <sup>1</sup>, A. Santos Tino <sup>3</sup>, J. Politch <sup>2</sup>, J. Lipscomb <sup>1</sup>, J. Defelice <sup>4</sup>, M. Gelman <sup>4</sup>, K. Mayer <sup>4</sup>

<sup>1</sup>CDC - Atlanta (USA), <sup>2</sup>BU School of Medicine - Boston (USA), <sup>3</sup>The DESA Group - Atlanta (USA), <sup>4</sup>The Fenway Institute - Boston (USA)

### ► PP 5.7.8: Rapid ART in blood donors with Acute and Recent HIV clade C infection in South Africa

Author(s): E. Murphy <sup>3,\*</sup>, K. Van Den Berg <sup>1,\*</sup>, M. Vermeulen <sup>1</sup>, S. Bakkour <sup>2</sup>, M. Busch

<sup>1</sup>South African National Blood Service - Johannesburg (ZAF), <sup>2</sup>Vitalant Research Institute - San Francisco (USA), <sup>3</sup>UCSF and Vitalant Research Institute - San Francisco (USA)

### ► PP 5.7.9: HIV-1 in the Latent Reservoir Is Largely Sensitive To Circulating T Cells

Author(s): J. Warren <sup>1,\*</sup>, S. Zhou <sup>1</sup>, Y. Xu <sup>1</sup>, M. Moeser <sup>1</sup>, J. Kuruc <sup>1</sup>, C. Gay <sup>1</sup>, D. Margolis <sup>1</sup>, N. Archin <sup>1</sup>, R. Swanstrom <sup>1</sup>, N. Goonetilleke <sup>1</sup>

University of North Carolina at Chapel Hill - Chapel Hill (USA)

- PP 5.7.10: Analytical treatment interruption and rearrangement of HIV-1 drug resistance mutations in peripheral reservoir  
 Author(s): E. Bruzzesi <sup>1,\*</sup>, R. Scutari <sup>2</sup>, M.C. Bellocchi <sup>2</sup>, V. Spagnuolo <sup>3</sup>, L. Galli <sup>4</sup>, L. Carioti <sup>2</sup>, M.M. Santoro <sup>2</sup>, C. Alteri <sup>2</sup>, F. Ceccherini-Silberstein <sup>2</sup>, A. Castagna <sup>1</sup>  
<sup>1</sup>Università Vita-Salute San Raffaele - Milan (ITA), <sup>2</sup>Department of Experimental Medicine, University of Rome Tor Vergata - Rome (ITA), <sup>3</sup>Università Vita-Salute San Raffaele - Milano (ITA), <sup>4</sup>Infectious Diseases, San Raffaele Scientific Institute - Milan (ITA)
- PP 5.7.11: Persistent HIV reservoir suppression by (-)-hopeaphenol, a plant-derived stilbenoid  
 Author(s): I. Tietjen <sup>1,2,\*</sup>, Z. Haq <sup>2</sup>, M. Naidu <sup>2</sup>, J. Rivera-Ortiz <sup>1</sup>, Y. Cai <sup>1</sup>, K. Beattie <sup>3</sup>, T. Rali <sup>4</sup>, Z. Brumme <sup>2</sup>, L. Montaner <sup>1</sup>, R. Davis <sup>3</sup>  
<sup>1</sup>The Wistar Institute - Philadelphia (USA), <sup>2</sup>Simon Fraser University - Burnaby (CAN), <sup>3</sup>Griffith University - Brisbane (Australie), <sup>4</sup>University of Papua New Guinea - Port Moresby (Papouasie-nouvelle-guinée)
- PP 5.7.12: Phorbol esters isolated from *Croton megalobotrys* reverse HIV latency ex vivo  
 Author(s): I. Tietjen <sup>1,2,\*</sup>, K. Richard <sup>2</sup>, D. Williams <sup>3</sup>, J. Rivera-Ortiz <sup>1</sup>, Y. Cai <sup>1</sup>, A. Pagliuzza <sup>4</sup>, N. Chomont <sup>4</sup>, R. Andersen <sup>3</sup>, L. Montaner <sup>1</sup>, K. Andrae-Marobela <sup>5</sup>  
<sup>1</sup>The Wistar Institute - Philadelphia (USA), <sup>2</sup>Simon Fraser University - Burnaby (CAN), <sup>3</sup>University of British Columbia - Vancouver (CAN), <sup>4</sup>Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM) - Montreal (CAN), <sup>5</sup>University of Botswana - Gaborone (Botswana)
- PP 5.7.13: Targeting HIV-1-driven aberrant transcription and proliferation  
 Author(s): Y-C. Ho <sup>1,\*</sup>, Y.H. Yeh <sup>1</sup>, K. Jenike <sup>2</sup>  
<sup>1</sup>Yale University - New Haven (USA), <sup>2</sup>Johns Hopkins University - Baltimore (USA)
- PP 5.7.14: A Mechanistic Modeling Platform for HIV Cure Drug Development  
 Author(s): Y. Cao <sup>1,\*</sup>, D. Rosenbloom <sup>1,\*</sup>, M. Ahmadi <sup>1</sup>, S. Bae <sup>1</sup>, R. Vargo <sup>1</sup>  
 Merck & Co., Inc. - Kenilworth, NJ (USA)
- PP 5.7.15: In vitro demonstration of a potential role for STING agonist in HIV cure  
 Author(s): A. Koblansky <sup>1,2,\*</sup>, S. Raines <sup>2</sup>, J. Schawalder <sup>1</sup>, D. Irlbeck <sup>1</sup>, C. Galardi <sup>1</sup>, J. Brehm <sup>1</sup>, J. Ramanjulu <sup>3</sup>, D. Margolis <sup>2</sup>, H. Madsen <sup>1</sup>  
<sup>1</sup>ViiV Healthcare - Chapel Hill (USA), <sup>2</sup>UNC HIV Cure Center - Chapel Hill (USA), <sup>3</sup>GlaxoSmithKline - Upper Providence (USA)
- PP 5.7.16: Enhancing antiretroviral drug penetration into lymph nodes through intramuscular and subcutaneous routes of administration in BALB/c mice  
 Author(s): S. Dyavar <sup>1,\*</sup>  
 UNMC - Nebraska (USA)

## SESSION 6 AND 8: NEW THERAPEUTIC APPROACHES I & II

### ► PP 6.8.1: Targeting lncRNA SAF to induce apoptosis in HIV-1 infected macrophages

Author(s): S. Boliar <sup>1,\*</sup>, D.W. Gludish <sup>1</sup>, K.C. Jambo <sup>2</sup>, H.C. Mwandumba <sup>2</sup>, D.G. Russell <sup>1</sup>  
<sup>1</sup>Cornell University - Ithaca (USA), <sup>2</sup>University of Malawi - Blantyre (Malawi)

### ► PP 6.8.2: Blocking TIM-3 reinvigorates exhausted CD8 T cells with no impact on NK cell function in ART-treated HIV-infected patients

Author(s): C. Gutiérrez <sup>1,\*</sup>, M. Sanz <sup>1</sup>, N. Madrid-Elena <sup>1</sup>, S. Serrano-Villar <sup>1</sup>, S. Moreno <sup>1,\*</sup>  
 Infectious Diseases Department, Ramón y Cajal Hospital - Madrid (SPA)

### ► PP 6.8.3: Isolation of monoclonal antibodies targeting HLA-E/HIV-1 and SIV peptide complexes

Author(s): D. Li <sup>1,\*</sup>, S. Brackenridge <sup>2</sup>, M. Tuyishime <sup>3</sup>, D. Cain <sup>1</sup>, Z. Mu <sup>1</sup>, B. Mattia <sup>1</sup>, G. Ferrari <sup>3</sup>, G. Geraldine <sup>2</sup>, A. McMichael <sup>2</sup>, B. Haynes <sup>1</sup>  
<sup>1</sup>Duke Human Vaccine Institute, Duke University - Durham (USA), <sup>2</sup>Nuffield Department of Medicine, University of Oxford - Oxford (United Kingdom), <sup>3</sup>Department of Surgery, Duke University - Durham (USA)

### ► PP 6.8.4: Improved Killing of HIV-infected Cells by a Combination of Three Antibodies: implications for clearing persistent infection

Author(s): M. Tuyishime <sup>1,\*</sup>, C. Garrido <sup>2</sup>, S. Jha <sup>1</sup>, D. Mielke <sup>1</sup>, M. Moeser <sup>3</sup>, B. Haynes <sup>4</sup>, S. Joseph <sup>3</sup>, D. Margolis <sup>5</sup>, G. Ferrari <sup>1</sup>  
<sup>1</sup>Department of Surgery, Duke University Medical Center - Durham (USA), <sup>2</sup>UNC HIV Cure Center and Department of Medicine, University of North Carolina at Chapel Hill - Chapel Hill (USA), <sup>3</sup>Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill - Chapel Hill (USA), <sup>4</sup>Duke Human Vaccine Institute, Department of Medicine, Duke University Medical Center - Durham (USA), <sup>5</sup>Departments of Microbiology and Immunology, and Epidemiology, University of North Carolina at Chapel Hill - Chapel Hill (USA)

### ► PP 6.8.5: Maraviroc reactivates HIV with a potency similar to that of other latency reversing drugs without inducing toxicity in CD8 T cells

Author(s): S. Moreno <sup>1,\*</sup>, M. López Huertas <sup>1,\*</sup>, L. Jiménez Tormo <sup>1</sup>, N. Madrid Elena <sup>1</sup>, C. Gutiérrez <sup>1</sup>, M.J. Vivancos <sup>1</sup>, L. Luna <sup>1</sup>  
 Instituto Ramón y Cajal de Investigación Sanitaria - Madrid (SPA)

### ► PP 6.8.6: Modulated Production of Endogenous Anti-HIV Broadly Neutralizing Antibodies

Author(s): Y. Gao <sup>1,\*</sup>, D. Patel <sup>2</sup>, C. Ding <sup>1</sup>, Y. Ma <sup>2</sup>, W. Li <sup>1</sup>, R. Dekoter <sup>2</sup>  
<sup>1</sup>The First Affiliated Hospital, University of Science and Technology of China - Hefei (CHI), <sup>2</sup>Department of Microbiology and Immunology, Schulich School of Medicine and Dentistry, The University of Western Ontario - London (CAN)

### ► PP 6.8.7: CD4+ T cells from patients with chronic myeloid leukemia are resistant to HIV-1 proviral integration and transcription after prolonged withdrawal of treatment with tyrosine kinase inhibitors

Author(s): M. Coiras <sup>1,\*</sup>, L. Vigón <sup>1</sup>, S. Rodríguez-Mora <sup>1</sup>, V. García-Gutiérrez <sup>2</sup>, J. Ambrosioni <sup>3</sup>, J. Alcamí <sup>1,3</sup>, J.L. Steegmann <sup>6</sup>, J.M. Miró <sup>3</sup>, V. Planelles <sup>7</sup>, M.R. López-Huertas <sup>1</sup>, E. Mateos <sup>1</sup>, V. García <sup>2</sup>, N. Climent <sup>4</sup>, G. Bautista <sup>5</sup>, M. Plana <sup>4</sup>  
<sup>1</sup>AIDS Immunopathology Unit, National Center of Microbiology, Instituto de Salud Carlos III - Madrid (SPA)  
<sup>2</sup>Hematology Service, Hospital Universitario Ramón y Cajal - Madrid (SPA)  
<sup>3</sup>Infectious Diseases Service, Institut d'Investigacions Biomèdiques August Pi I Sunyer (IDIBAPS), Hospital Clínic, University of Barcelona - Barcelona, (SPA)  
<sup>4</sup>Retrovirology and Viral Immunopathology Laboratory, IDIBAPS, Hospital Clínic, University of Barcelona - Barcelona (SPA)  
<sup>5</sup>Hematology Service, Hospital Universitario Puerta de Hierro - Madrid (SPA)  
<sup>6</sup>Hematology Service, Hospital Universitario La Princesa - Madrid (SPA)  
<sup>7</sup>Division of Microbiology and Immunology, Department of Pathology, University of Utah School of Medicine, Salt Lake City - Utah (USA)

### ► PP 6.8.8: Antagonism of PPAR $\alpha$ for Th17 Mucosal Immunity Restoration and HIV Reservoir Purging

Author(s): D. Planas <sup>1,\*</sup>, A. Fert <sup>1,\*</sup>, Y. Zhang <sup>1</sup>, M.J. Ruiz <sup>1</sup>, J.P. Goulet <sup>2</sup>, T.R. Wiche Salinas <sup>1</sup>, E.A. Cohen <sup>3</sup>, J.P. Routy <sup>4</sup>, N. Chomont <sup>1</sup>, P. Ancuta <sup>1</sup>  
<sup>1</sup>Centre de recherche du CHUM - Montréal (CAN), <sup>2</sup>Caprion - Montréal (CAN), <sup>3</sup>Institut de Recherches Cliniques de Montréal - Montréal (CAN), <sup>4</sup>McGill University - Montréal (CAN)

### ► PP 6.8.9: Targeting STAT SUMOylation to enhance NK cell cytotoxicity

Author(s): A. Macedo <sup>1,\*</sup>, C. Levinger <sup>1</sup>, A. C. Hernandez Santini <sup>2</sup>, N. Bonan <sup>1</sup>, B. Nguyen <sup>1</sup>, K. Crandall <sup>1</sup>, R. Lynch <sup>1</sup>, A. Bosque <sup>1</sup>  
<sup>1</sup>George Washington University - Washington (USA), <sup>2</sup>University of Puerto Rico - Ponce (PRI)

### ► PP 6.8.10: Broad-spectrum gRNAs abolish HIV-1 LTR-mediated transcription in cells that receive CRISPR/Cas9 therapy

Author(s): B. Wiggahl <sup>1,\*</sup>, A. Allen <sup>1,\*</sup>, S. Worell <sup>1</sup>, G. Nwaozo <sup>1</sup>, R. Madrid <sup>1</sup>, W. Dampier <sup>1</sup>, M. Nonnemacher  
 Drexel University College of Medicine - Philadelphia (USA)

- PP 6.8.11: CRISPR/Cas9 editing of HIV-1 transcription factor binding sites on the 5' long terminal repeats to permanently inactivate latent provirus  
 Author(s): B. Wigdahl <sup>1,\*</sup>, C-H. Chung <sup>1,2</sup>, A.G. Allen <sup>1</sup>, A.J. Atkins <sup>1</sup>, R. Costello <sup>1</sup>, N.T. Sullivan <sup>1</sup>, M.R. Nonnemacher <sup>1</sup>, W.N. Dampier <sup>1</sup>  
 Drexel University - Philadelphia (USA)
- PP 6.8.12: AsCpf1/crRNA-array Excises HIV-1 Proviral Genome More Efficiently Than SaCas9/multiplexed-sgRNAs  
 Author(s): W. Hu <sup>1,\*</sup>, Y. Zhu <sup>1,\*</sup>, E. Bouikidis <sup>1</sup>, F. Li <sup>1</sup>, Y. Lin <sup>1</sup>, Y. Cai <sup>2</sup>, H. Wang <sup>1</sup>, L. Montaner <sup>2</sup>, W. Ho <sup>1</sup>, S. Turville <sup>3</sup>  
<sup>1</sup>Temple University School of Medicine - Philadelphia (USA), <sup>2</sup>Wistar Institute - Philadelphia (USA), <sup>3</sup>University of New South Wales (UNSW) - Sydney (Australia)
- PP 6.8.13: Block and kill: a new approach to a prevent HIV reactivation, reduce immune activation, induce apoptosis of infected cells  
 Author(s): A. Garzino Demo <sup>1,\*</sup>, S. Lingling <sup>2</sup>, C. Cairo <sup>3</sup>, T.W. Chun <sup>4</sup>, M.K. Lafferty <sup>3</sup>  
<sup>1,2,3</sup>Institute of Human Virology, University of Maryland School of Medicine - Baltimore (USA), <sup>4</sup>National Institute of Allergy and Infectious Diseases, National Institutes of Health - Bethesda (USA)
- PP 6.8.14: HIV-1 diversity considerations for clinical studies of passively transferred broadly neutralizing antibodies  
 Author(s): K. Wagh <sup>1,\*</sup>, K. Stephenson <sup>2</sup>, D. Barouch <sup>2</sup>, B. Korber <sup>1</sup>  
<sup>1</sup>Theoretical Biology & Biophysics, Los Alamos National Laboratory - Los Alamos (USA), <sup>2</sup>Center for Virology and Vaccine Research, Beth Israel Deaconess Medical Center - Boston (USA)
- PP 6.8.15: Cleaving HIV-1 Provirus from ART-Suppressed Patient-derived Resting CD4+ T Cells Using Cpf1/crRNA-array Ribonucleotide Protein Packaged by CD4-targeting Lentivirus-like Particle  
 Author(s): W. Hu <sup>2,\*</sup>, Y. Cai <sup>1</sup>, Y. Zhu <sup>2</sup>, F. Li <sup>2</sup>, A.O. Stella <sup>3</sup>, P. Tebas <sup>4</sup>, K. Mounzer <sup>5</sup>, J. Kostman <sup>5</sup>, S. Turville <sup>3</sup>, L. Montaner <sup>1</sup>  
<sup>1</sup>HIV-1 Immunopathogenesis Laboratory, The Wistar Institute - Philadelphia (USA), <sup>2</sup>Department of Pathology and Laboratory Medicine, Temple University Lewis Katz School of Medicine - Philadelphia (USA), <sup>3</sup>The Kirby Institute, University of New South Wales (UNSW) - Sydney (Australia), <sup>4</sup>Perelman School of Medicine, University of Pennsylvania - Philadelphia (USA), <sup>5</sup>Philadelphia Field Initiating Group for HIV-1 Trials - Philadelphia (USA),
- PP 6.8.16: A bispecific antibody that simultaneously recognizes the V2- and V3-glycan epitopes of the HIV-1 envelope glycoprotein  
 Author(s): M. Davis-Gardner <sup>1,\*</sup>, M. Gardner <sup>1</sup>, M. Farzan <sup>1</sup>  
 The Scripps Research Institute - Jupiter (USA)
- PP 6.8.17: Exploring Sequence Specific Silencing of Latent HIV Using CRISPR Interference  
 Author(s): R. Schwarzer <sup>1,\*</sup>, M. Montano <sup>1</sup>, W.C. Greene <sup>1</sup>  
 Gladstone Center for HIV Cure Research - San Francisco (USA)
- PP 6.8.18: Enhancement of antibody-dependent cellular phagocytosis is essential to the clearance of HIV-1 reservoirs in lymphoid organs  
 Author(s): L. Shan <sup>1,\*</sup>  
 Washington University - St. Louis (USA)
- PP 6.8.19: Tat inhibition by didehydro-Cortistatin A promotes heterochromatin formation at the HIV-1 Long Terminal repeat  
 Author(s): C. Li <sup>1,\*</sup>, S. Valente <sup>1,\*</sup>, G. Mousseau <sup>1</sup>  
 The Scripps research Institute - Jupiter (USA)
- PP 6.8.20: Resistance to the Tat inhibitor didehydro-Cortistatin A is mediated by heightened basal HIV-1 transcription  
 Author(s): S. Mediouni <sup>1,\*</sup>, S. Valente <sup>1</sup>  
 The Scripps research Institute - Jupiter (USA)
- PP 6.8.21: HLA-E-presented peptides as novel targets for HIV-1 therapy  
 Author(s): S. Brackenridge <sup>1,\*</sup>, H. Yang <sup>1</sup>, D. Li <sup>2</sup>, G. Gillespie <sup>1</sup>, B. Haynes <sup>2</sup>, A. McMichael <sup>1</sup>  
<sup>1</sup>University of Oxford - Oxford (United Kingdom), <sup>2</sup>Duke University - Durham (USA)
- PP 6.8.22: Development of anti-PD-1 chimeric antigen receptor T cells to target a PD-1 + CD4 T cell population enriched in HIV provirus  
 Author(s): K. Eichholz <sup>1,\*</sup>, F. Haeseleer <sup>2</sup>, L. Corey <sup>3</sup>  
<sup>1</sup>VIDD, Fred Hutchinson Cancer Research Center - Seattle (USA), <sup>2</sup>Departments of Laboratory Medicine and Medicine, University of Washington - Seattle (USA), <sup>3</sup>Departments of Laboratory Medicine and Medicine, University of Washington, VIDD, Fred Hutchinson Cancer Research Center - Seattle (USA)
- PP 6.8.23: Conditions for post-rebound SHIV control in autologous hematopoietic-stem cell transplantation  
 Author(s): F. Cardozo <sup>1,\*</sup>, E. Duke <sup>1</sup>, C. Peterson <sup>1</sup>, D. Reeves <sup>1</sup>, B. Mayer <sup>1</sup>, H.P. Kiem <sup>1,2</sup>, J. Schiffer <sup>3</sup>  
<sup>1</sup>Fred Hutchinson Cancer Research Center - Seattle, WA (USA), <sup>2</sup>University of Washington - Seattle, WA (USA), <sup>3</sup>Fred Hutchinson Cancer Research Center/University of Washington - Seattle, WA (USA)



## POSTER AREA

Poster presenters are asked to stand next to their poster during the wine & cheese tasting (times indicated below):

Wednesday, December 11: 4:00 – 7:00 PM

Thursday, December 12: 4:00 – 7:00 PM

## POSTER TOPICS

Basic science of HIV latency

PP 1.1 ► PP 1.36

In vitro and animal models studies of the persistence

PP 2.1 ► PP 2.16

Virology of HIV persistence

PP 3.1 ► PP 3.18

Immunology of HIV persistence

PP 4.1 ► PP 4.12

Human studies and drug development I & II

PP 5.7.1 ► PP 5.7.16

New therapeutic approaches I & II

PP 6.8.1 ► PP 6.8.23

The selected abstracts will benefit from a high visibility thanks to their presentation into the open access scientific Journal of Virus Eradication from December 10, 2019.

Please connect to [www.viruseradication.com](http://www.viruseradication.com) to read the abstracts

## COFFEE BREAKS

Tuesday, December 10: 3:30 – 4:00 PM

Wednesday, December 11: 10:00 – 10:30 AM

Thursday, December 12: 10:00 – 10:30 AM

Friday, December 13: 10:00 – 10:30 AM

## PARTNERS

### ACKNOWLEDGEMENTS

### ACADEMIC SUPPORT



### PLATINUM SPONSOR



### GOLD SPONSOR



### SILVER SPONSOR



### OTHER SUPPORT

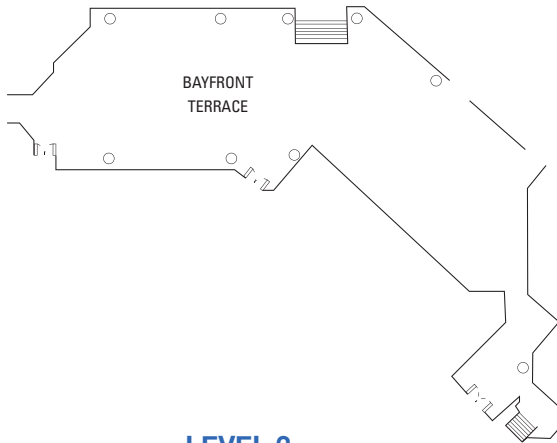
**HOLOGIC®**

### MEDIA SUPPORT

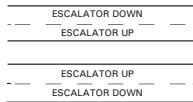
Journal of  
Virus Eradication

# MAP

## LEVEL 1 CATERING AREA FINE WEATHER\*



## LEVEL 2 CATERING AREA WEATHER BACK UP\*



SECOND FLOOR FOYER

\*See Lunches & dinners p.37

## LEVEL 3 PREVIEW DESK PLENARY SESSIONS POSTER AREA COFFEE BREAK



# GENERAL INFORMATION

## LOGISTIC ORGANIZATION & REGISTRATION

OVERCOME: 13-15 rue des Sablons, 75116 Paris, France

Tel: +33 (0)1 40 88 97 97 - Email: [hivpersistance@overcome.fr](mailto:hivpersistance@overcome.fr)

## CONGRESS VENUE

MARRIOTT BISCAYNE BAY HOTEL

1633 North Bayshore Drive, Miami, FL 33132, Florida, United States of America

Phone: +1 305-374-3900

## WORKSHOP OPENING HOURS

- Tuesday, December 10: 8:00 AM - 7:30 PM
- Wednesday, December 11: 7:45 AM - 7:00 PM
- Thursday, December 12: 7:45 AM - 7:00 PM
- Friday, December 13: 7:45 AM - 2:00 PM

## WORKSHOP OBJECTIVES

Provide an opportunity for scientist experts on HIV reservoirs to share ideas and debate in order to develop and increase knowledge to help for future researches:

- Provide a place for network and information-sharing between scientists specialized in the reservoir
- Present state-of-the-art basic science and clinical researches on HIV therapy with unpublished data and have a panel of experts to sum up the current advances in the field
- Accelerate research on reservoirs and latency to find a cure

## BADGES & CERTIFICATE OF ATTENDANCE

### • Certificate of attendance

Certificate of attendance will be sent by email after the week after the workshop.

### • Badges

The name badges must be worn at all times during the workshop and is non transferable. Access to the conference will not be granted without an official conference name badge.

## LANGUAGE

All sessions will be held in English

## COFFEE BREAKS

Coffee will be served free of charge in the catering area of the workshop on level 3 to all registered delegates during the following times:

- Tuesday, December 10: 3:30 - 4:00 PM
- Wednesday, December 11: 10:00 - 10:30 AM
- Thursday, December 12: 10:00 - 10:30 AM
- Friday, December 13: 10:00 - 10:30 AM

# GENERAL INFORMATION

## LUNCH & DINNER

Lunch will be served free of charge in a dedicated room on level 2 - in Watson Island room/Bayview Ballroom if the weather is bad or in the Bayfront Terrace if the weather is fine - as follows:

Lunch:

- Wednesday, December 10: 4.00 - 7.00 PM
- Thursday December 11: 4.00 - 7.00 PM

WELCOME DINNER:

- Tuesday, December 10: 7:30 - 11:30 PM

At Briza on the Bay, 1717 N.

Bayshore Drive Suite #115,

Miami, FL 33132

*One minute walk - 20 steps from the Marriott!*

*Meeting point: Marriott Biscayne bay hotel's lobby at 7:30 PM. Prior registration is required.*

## ABSTRACT BOOK

All accepted abstracts will be published in the online abstract book. It will be available on the Journal of Virus Eradication website: [www.viruseradication.com](http://www.viruseradication.com)

## POSTER AREA

Poster area is located in level 3, close to the conference room.

Poster authors will be asked to be present next to their poster during the poster viewing session during at the following times:

- Wednesday, December 10: 4:00 - 7:00 PM
- Thursday, December 11: 4:00 - 7:00 PM

## PREVIEW FOR SPEAKERS AND ORAL PRESENTERS

Invited speakers and oral abstract presenters must report to the Preview desk situated at the back of the plenary room at least 3 hours prior to their presentation to upload and check their presentation. For a morning presentation, please report to preview desk the day before until 6:00 PM.

## TRANSPORTATION

The airlines of SkyTeam, Official Alliance Network offer attractive airfares for participants (subject to conditions). To book your electronic ticket, visit: <http://globalmeetings.airfranceklm.com/Search/promoDefault.aspx?vendor=AFR&promocode=32284AF&currentculture=fr-FR>

Event ID: 34206AF

Validity: from December 8, 2019 to December 18, 2019.

## Call for Papers: Volume 6

We are seeking papers for issues in 2020 and can offer the following advantages:

- Published quarterly
- Available online or through PMC
- High-quality content, vigorously peer reviewed
- New improved submission system and short submission to publication times
- Fast-track pathway to publish work in HIV, HBV, HCV, other viral infections including HPV, polio, herpes, flu, Ebola, Zika and coronavirus
- Eminent international Editorial Board and Panel
- Embracing papers on epidemiological, immunological, virological, pharmacological, preclinical, clinical and *in vitro* research
- Open-access journal entering its sixth year
- Online portal for abstract supplements – find published supplements on PMC
- Readership: growing international community involved in the prevention and management of viral infections
- Partnership with Australasian Society for HIV, Viral Hepatitis and Sexual Health (ASHM)

### Editors

**Margaret Johnson**  
Professor of HIV Medicine  
University College Medical  
School, Royal Free London  
NHS Foundation Trust, UK

**Sabine Kinloch de Loës**  
Senior Lecturer  
Division of Infection and  
Immunity, University  
College London, UK

### Editorial Board

Nicholas Chomont (Canada)  
Steven Deeks (USA)  
Geoff Dusheiko (UK)  
Sarah Fidler (UK)  
Paul Griffiths (UK)  
Alain Lapeuillade (France)  
Nelson Michael (USA)  
Jürgen Rockstroh (Germany)  
Irina Sereti (USA)  
Janet Siliciano (USA)  
Robert Siliciano (USA)  
Guido Silvestri (USA)  
Linos Vandekerckhove (Belgium)

| Issue      | Copy date                |
|------------|--------------------------|
| <b>6.1</b> | <b>16th October 2019</b> |
| <b>6.2</b> | <b>10th January 2020</b> |
| <b>6.3</b> | <b>10th April 2020</b>   |
| <b>6.4</b> | <b>10th July 2020</b>    |



# SAVE THE DATES!



National Institute of  
Allergy and  
Infectious Diseases

NOVEMBER 16 - 18, 2020

NIH MAIN CAMPUS, NATCHER CONFERENCE CENTER  
BETHESDA, MARYLAND

The National Institute of Allergy and Infectious Diseases (NIAID) will host the fifth biennial *Strategies for an HIV Cure meeting* at the NIH main campus in Bethesda, MD on **November 16-18, 2020**. The goal of the meeting is to highlight state-of-the-art research in the field and facilitate communication and collaboration among NIAID-funded researchers, the broader HIV cure research community, and community stakeholders. The meeting will serve as the joint meeting of the Martin Delaney Collaboratories for 2020. Registration is free, and poster abstracts are encouraged.

Information on the 2018 meeting, as well as video links to presentations can be found at: <https://www.cvent.com/events/strategies-for-an-hiv-cure-2018/event-summary-67d64ae8621247079e009b4757f45c9e.aspx>

NIAID will also convene researchers supported by its *Understanding HIV Rebound* program for a one-day workshop in Rockville, MD on **Monday, April 20th, 2020**. Registration for this workshop will also be free and open to the public. We look forward to seeing you next year in Maryland!

Diane Lawrence  
David McDonald  
Leia Novak  
Eric Refsland  
Karl Salzwedel



*The views expressed in written conference materials or publications and by speakers and moderators at HHS-sponsored conferences do not necessarily reflect the official policies of the Department of Health and Human Services (HHS), nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.*

# PERSISTENCE.

IT'S WHY WE'RE [STILL] HERE.

ADVANCING AIDS RESEARCH  
FOR MORE THAN 30 YEARS  
COMMITTED TO A CURE

For information contact  
[grants@amfar.org](mailto:grants@amfar.org)

**amfAR**  
MAKING AIDS HISTORY