

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

FINAL
PROGRAM

MFLORIDA
MIAMI USA
www.hiv-persistence.com

10TH EDITION

DECEMBER 2021

HIV PERSISTENCE DURING THERAPY™

Reservoirs & Eradication Strategies Workshop



www.hiv-persistence.com

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9TH 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

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

AT A GLANCE

THURSDAY, DECEMBER 12	FRIDAY, DECEMBER 13
SESSION 4: Immunology of HIV Persistence	SESSION 7: Human studies and drug development II
Coffee Break	
SESSION 5: Human studies and drug development I	SESSION 8: New Therapeutic Approaches II
Lunch	Closing Ceremony
SESSION 6: New Therapeutic Approaches I	ALL THE SESSIONS WILL BE IN THE MAIN PLENARY SESSION ROOM (SALON A TO E).
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 PAZ, 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- κ 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

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

06:05
07:30

Opening Lecture

Introduction

Chairs:

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

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

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

► 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^{1,2,*}, T. Ma³, N.R. Roan³, S.K. Pillai¹

¹Vitalant Research Institute - San Francisco (USA)

²Free University of Berlin - Berlin (GER)

³Gladstone 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^{1,*}, R. Pathak¹, A. La Porte¹, E. Bock¹, C. Eliscovich¹, L. Martins², A. Spivak², U. Dixit¹, V. Planelles², R. Singer¹

¹Albert Einstein College of Medicine - New York (USA)

²University 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): E. Boritz^{3,*}, I. Clark^{1,2,*}, A. Abate¹, F. Quintana², S. Deeks¹, D. Douek³

¹UCSF - San Francisco (USA)

²Harvard - Boston (USA)

³NIH - Bethesda (USA)

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

Author(s): N. Roan^{1,*}, Jason Neideman^{1,8}, Xiaoyu Luo¹, Julie Frouard^{1,8}, Feng Hsiao^{1,8}, Guorui Xie^{1,8}, Vincent Morcilla², Katherine Sholtis James³, Rebecca Hoh⁴, Ma Somsouk⁵, Peter Hunt⁶, Steve Deeks⁴, Nancie Archin³, Sarah Palmer², Warner C. Greene^{1,7}

¹Gladstone Institute of Virology and Immunology, San Francisco, CA (USA)

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

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

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

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

⁶Division of Experimental Medicine, University of California San Francisco, San Francisco, CA (USA)

⁷Department of Medicine, University of California, San Francisco, CA (USA)

⁸Department 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^{1,*}, G. Andrei¹, J. Gerold¹

Harvard University - Cambridge, Ma (USA)

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

Author(s): V. Planelles^{1,*}, M. Szaniawski¹, E. Williams¹, E. Innis¹, L. Martins¹, A. Spivak¹, J. Alcamí², M. Coiras²

¹University of Utah - Salt Lake City (USA)

²Instituto de Salud Carlos III, Madrid Spain - Madrid (SPA)

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 : Javier 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 ^{1,*}, C. Fennessey ¹, J. Lifson ¹, B. Keele ^{1,*}

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 ^{1,*}, D. Silsorn ², R. Imerbsin ², A. Pegu ³, J. Mascola ³, R. Geleziunas ⁴, R. Koup ³, D. Barouch ⁵, N. Michael ⁶, S. Vasan ⁶

¹MHRP - Bangkok (THA)

²AFRIMS - Bangkok (THA)

³NIH - Bethesda (USA)

⁴Gilead Sciences - Foster City (USA)

⁵BIDMC - Boston (USA)

⁶MHRP - 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 ^{1,*}, B. Rust ¹, A. Zhen ², K. Brandenstein ¹, N. Poole ¹, C. Maldini ³, G. Ellis ³, S. Kitchen ², J. Riley ³, H.P. Kiem ¹

¹Fred Hutchinson Cancer Research Center - Seattle (USA)

²University of California, Los Angeles - Los Angeles (USA)

³University 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 ^{1,*}, A. Brooks ¹, C. Mattingly ¹, T. Vanderford ¹, B. Keele ², J. Lifson ², R. Dunham ³, D. Margolis ³, G. Silvestri ¹, A. Chahroudi ¹

¹Emory University - Atlanta (USA)

²Frederick National Laboratory for Cancer Research - Frederick (USA)

³UNC 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 ^{1,*}, M.S. Arif ¹, Y. Thomas ¹, I. Clerc ¹, A. Carias ¹, E. Allen ¹, M. Mcraven ¹, M. Ramirez ², P. Santangelo ³, F. Villinger ²

¹Northwestern - Chicago (USA)

²New Iberia Research Center - New Iberia (USA)

³Georgia 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^{1,*}, P. Bacchetti¹, K. Ritter², S. Beg³, P. Hunt¹, T. Henrich¹, J. Siliciano³, R. Siliciano³, G. Laird², S. Deeks¹

¹University of California, San Francisco - San Francisco (USA)

²Accelevir Diagnostics - Baltimore (USA)

³Johns 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): C. Dobrowolski^{1,*}, J. Kam^{1,*}, E. Scully², K.M. Weber³, A.L. Landay⁴

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

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

³WIHS/CORE center of Cook County Health - Chicago (USA)

⁴Rush 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^{1,*}, H. Zhang¹, G. Soroosh¹, S. Beg¹, H. Raymond², K. McCormick², S. Deeks³, F. Bushman², J. Siliciano⁴, R. Siliciano¹

¹Johns Hopkins University - Baltimore (USA)

²University of Pennsylvania - Philadelphia (USA)

³University of California San Francisco - San Francisco (USA)

⁴Johns 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): D. Kaufmann^{1,*}, M. Dubé^{1,*}, G. Sannier¹, N. Brassard¹, G.G. Delgado¹, A. Baxter¹, J.P. Routy², N. Chomont¹

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

²Chronic 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^{1,*}, V. Urrea¹, S. Benet¹, B. Mothe¹, L. Bailón², J. Dalmau¹, L. Leal³, F. García³, J. Martínez-Picado¹, M. Salgado¹

¹AIDS Research Institute IrsiCaixa - Badalona (SPA)

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

³Infectious 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^{1,*}, P. Burbelo², S. Kumar¹, S. Munter¹, R. Hoh¹, S. Lee¹, P. Hunt¹, R. Rutishauser¹, T. Henrich¹, S. Deeks¹

¹University of California, San Francisco - San Francisco (USA)

²National 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^{1,*}, A. Pagliuzza², M. Pardons¹, M. Ramgopal³, J.P. Routy³, R. Fromentin², N. Chomont¹

¹Université de Montréal - Montréal (CAN)

²CRCHUM - Montréal (CAN), ³Midway 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^{1,*}, M. Pardons¹, R. Fromentin¹, M. Massanella¹, S. Palmer², S. Deeks³, B. Murrell⁴, J.P. Routy⁵, N. Chomont¹

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

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

³Department of Medicine, University of California San Francisco - California (USA)

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

⁵Division 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. Eberhard^{1,*}, M. Angin², C. Passaes², M. Salgado³, J.L. Díez Martín⁴, M. Nijhuis⁵, A. Wensing⁵, J. Martínez-Picado^{3,*}, J. Schulze Zur Wiesch¹, A. Sáez-Cirión²

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

²Institut Pasteur, HIV, Inflammation and Persistence - Paris (FRA)

³AIDS Research Institute IrsiCaixa - Barcelona (SPA)

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

⁵University 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. Stevenson¹, Adam R. Ward^{1,2,3}, Thomas R. Dilling¹, John K. Bui¹, John Mellors⁴, Rajesh Gandhi⁵, Deborah McMahon⁴, Joseph Eron⁶, Ronald Bosch⁷, Christina Lalama⁷, Joshua Cyktor⁴, and Brad Jones^{1,2}, for the A5321 Team

¹Division of Infectious Diseases, Weill Cornell Medicine, New York, NY (USA)

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

³PhD program in Epidemiology, George Washington University, Washington, DC (USA)

⁴University of Pittsburgh, Pittsburgh, PA (USA)

⁵Massachusetts General Hospital, Boston, MA (USA)

⁶University of North Carolina, Chapel Hill, NC (USA)

⁷Harvard 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): B. Etemad ^{1,*}, G. Namazi ¹, Y. Wen ², N. Jilg ³, E. Esmailzadeh ¹, X. Zhang ⁴, R. Sharaf ¹, Z. Brumme ⁵, M. Kearney ⁶, J. Li ^{1*}

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

²China Medical University - Shenyang (CHI)

³Massachusetts General Hospital, Harvard Medical School - Boston (USA)

⁴Beijing Friendship Hospital - Beijing (CHI)

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

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

Author(s): L. Pache ^{1,*}, P. Teriete ¹, M.D. Marsden ², A.M. Spivak ³, D. Heimann ¹, A.J. Portillo ¹, V. Planelles ³, J.A. Zack ², N.D.P. Cosford ¹, S.K. Chanda ¹

¹Sanford Burnham Prebys Medical Discovery Institute - La Jolla (USA)

²University of California, Los Angeles - Los Angeles (USA)

³University 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 ^{1,*}, D. Anderson ², J.F. Li ¹, A. Santos Tino ³, J. Politch ², J. Lipscomb ¹, J. Defelice ⁴, M. Gelman ⁴, K. Mayer ⁴

¹CDC, Atlanta (USA)

²BU School of Medicine, Boston (USA)

³The DESA Group, Atlanta, USA ⁴The 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): Sharon R Lewin ^{1,8}, Thomas A Rasmussen ¹, Laskhmi Rajdev ², Ajantha Rhodes ¹, Ashanti Dantanarayana ¹, Surekha Tennakoon ¹, Socheata Chea ¹, Danielle Rigau ³, Shelly Lensing ⁴, Rachel Rutishauser ⁵, Sonia Bakkour ⁶, Michael Busch ⁶, Dirk P Dittmer ⁷, Steven Deeks ⁵, Christine Durand ³

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

²Department of Medicine, Albert Einstein College of Medicine, New York (USA)

³Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, Maryland (USA)

⁴Department of Biostatistics, University of Arkansas for Medical Biosciences, Arkansas (USA)

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⁶Vitalant Research Institute, San Francisco, California (USA)

⁷Department of Microbiology and Immunology, University of North Carolina (USA)

⁸Department 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 ^{2,*}, R. Gandhi ^{1,*}, R. Bosch ³, H. Mar ³, G. Laird ⁴, B. Macatangay ², J. Eron ⁵, R. Siliciano ⁶, D. McMahon ², J. Mellors ²

¹Massachusetts General Hospital - Boston (USA),

²University of Pittsburgh - Pittsburgh (USA),

³Harvard TH Chan School of Public Health - Boston (USA),

⁴Accevir Diagnostics - Baltimore (USA),

⁵University 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

► **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 ^{1,*}, A. Bardhi ², A. Ray ², W. Krueger ¹, D. Schneider ¹, Z. Zhu ¹, R. Orentas ¹, D. Dimitrov ³, H. Goldstein ², B. Dropulic ¹

¹Lentigen, a Miltenyi Biotec Company - Gaithersburg (USA)

²Albert Einstein College of Medicine - Bronx (USA)

³University 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 ^{1,*}, M. Pampusch ¹, P. Skinner ¹, E. Berger ²

¹University of Minnesota - Minneapolis (USA)

²University 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^{1,3}, D. M. Irlbeck^{1,5}, A.-M. Turner¹, J. Peterson^{1,3}, F. Potjewyd², L. I. James^{1,2}, D. Margolis^{1,3,4}, N. Archin^{1,4}, R. Dunham^{1,5}

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²Center for Integrative Chemical Biology and Drug Discovery (USA)

³Dept. of Microbiology and Immunology (USA)

⁴Dept. of Medicine University of North Carolina, Chapel Hill, NC (USA)

⁵HIV 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 ^{1,*}

CBR, Population Council - New York (USA)

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

Author(s): M. Gardner ^{1,*}, M. Davis-Gardner ¹, M. Farzan ¹

¹The 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:

Christina PSOMAS, Clinical and Translational Research in the Department of Infectious Diseases of Montpellier University Hospital - FRA

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

► **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 ^{1,*}, E. Papasavvas ¹, L. Azzoni ¹, K. Mounzer ², J. Kostman ², I. Sanne ³, C. Firnhaber ⁴, Q. Liu ¹, L. Montaner ¹, M. Abdel-Mohsen ^{1,*}

¹The Wistar Institute - Philadelphia (USA)

²Philadelphia FIGHT - Philadelphia (USA)

³University of the Witwatersrand - Johannesburg (ZAF)

⁴University 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 ^{1,*}, A. Waickman ², P. Ehrenberg ¹, A. Geretz ¹, M. Eller ¹, S. Tovanabutra ¹, J. Ananworanich ¹, N. Chomont ³, J. Currier ², N. Michael ¹

¹U.S. Military HIV Research Program, Walter Reed Army Institute of Research - Silver Spring (USA)

²Viral Diseases Branch, Walter Reed Army Institute of Research - Silver Spring (USA)

³Université 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 ^{3,*}, J. Prodger ^{1,*}, A.M. Capoferri ², K. Yu ¹, S.J. Reynolds ³, J. Kasule ⁴, D. Serwadda ⁴, E. Scully ², K.J. Kwon ², A.D. Redd ³

¹Western University - London (CAN)

²Johns Hopkins School of Medicine - Baltimore (USA)

³National Institutes of Health - Baltimore (USA)

⁴Rakai 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 ^{1,*}, M. Gozoulis ¹, X. Wu ², L. Perez ³, R. Gorelick ⁴, C. Lange ¹, S. Hill ¹, J. Virga ¹, T. Uldrick ⁵, R. Yarchoan ⁶, S. Hughes ¹

¹CCR/NCI - Frederick (USA)

²Leidos Inc - Peoria (USA)

³VRC/NIAID - Bethesda (USA)

⁴Leidos, INC - Peoria (USA)

⁵CCR/NCI - U Washington (USA)

⁶CCR/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 ^{1,*}, G. Xie ², P. Kim ³, J. Wong ¹, J. Price ⁴, N. Elnachef ⁴, R. Greenblatt ⁴, P. Tien ¹, N. Roan ², S. Yukl ¹

¹University of California San Francisco - SFVAMC - San Francisco (USA)

²University of California San Francisco - Gladstone Institutes - San Francisco (USA)

³San Francisco VA Medical Center (SFVAMC) - San Francisco (USA)

⁴University 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^{1,*}, J. Berrocal², K. Busman-Sahay¹, S. Abdulhag¹, J. Smedley¹, J. Safrit³, J. Estes¹, P. Skinner², J. Sacha¹

¹Oregon Health and Science University - Portland (USA)

²University of Minnesota - St. Paul (USA)

³NantKWest - Culver City (USA)

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

Author(s): J. Martinez-Navio^{1,*}, R. Desrosiers^{1,*}, S. Fuchs¹, D. Mendes¹, E. Rakasz², G. Gao³, J. Lifson⁴,

¹University of Miami - Miami (USA)

²Wisconsin National Primate Research Center UW - Madison (USA)

³Gene Therapy Center UMass - Worcester (USA)

⁴Frederick 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. Moron-Lopez^{2,*}, S. Bernal^{1,*}, J.M. Steens³, J.K. Wong⁴, J. Martinez-Picado¹, S.A. Yukl⁴

¹IrsiCaixa AIDS Research Institute - Badalona (SPA)

²University of California San Francisco - San Francisco (USA)

³ABIVAX - Paris (FRA)

⁴San 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^{1,*}, C. Peterson², M. O'Connor¹, H. Tunggal¹, J. Li¹, K. Jerome², H.P. Kiem², B. Felber³, J. Mullins¹, D. Fuller¹

¹Department of Microbiology, University of Washington - Seattle (USA)

²Fred Hutchinson Cancer Research Center - Seattle (USA)

³Human 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): J. G Prado^{1,*}, M. Marin Lopez^{1,*}, E. Jimenez-Moyano¹, D. Ouchi¹, O. Blanch-Lombarte¹, D. Gorman², T. Hanke³, C. Brander¹, B. Howell⁴, B. Mothe¹

¹IrsiCaixa - Badalona (Barcelona) (SPA)

²Merck & Co. Inc. - Palo Alto, California (USA)

³The Jenner Institute Nuffield Department of Medicine, University of Oxford - Oxford (GBR)

⁴Department 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. Sophie Diaz^{1,*}, L.B. Giron², J. Galinskas¹, J. Hunter¹, M. Janini¹, I.L. Shytaj³, R. Cauda⁴, M.C. Sucupira⁵, J. Maricato⁵, A. Savarino⁶

¹Federal University of Sao Paulo, Infectious Diseases Department - São Paulo (BRA)

²Wistar Institute - Philadelphia (USA)

³Heidelberg University Hospital, Department of Infectious Diseases - Heidelberg (USA)

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

⁵Federal University of Sao Paulo, Infectious Diseases Department - São Paulo (BRA)

⁶Department 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): L.J. Picker^{1,*}, Y. Fukazawa^{1,*}, H. Behrns¹, B.E. Randall¹, B. Varco-Merth¹, H. Park¹, B.K. Felber², G.N. Pavlakis², J.D. Lifson³, A.A. Okoye¹

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

²Center for Cancer Research, National Cancer Institute - Frederick, Md (USA)

³AIDS and Cancer Virus Program, Frederick National Laboratory - 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 ^{1,*}, G. Blanco-Rodriguez ¹, A. Gazi ², B. Monel ³, S. Frabetti ¹, V. Scoca ¹, O. Schwartz ⁴, J. Krijnse-Locker ², P. Charneau ¹

¹Department of Virology, VMV, Institut Pasteur - Paris (FRA), ²Unit of Ultra-structural bio-imaging (UBI), Institut Pasteur - Paris (FRA), ³Institut Pasteur - Paris (FRA) - ⁴Department 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 ^{1,*}

¹The 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 ^{1,2,*}, M. Montano ³, R. Resop ⁴, E. Battivelli ⁵, S. Morón-López ¹, E. Verdin ⁵, W. Greene ³, A. Bosque ⁴, J. Wong ², S. Yukl ²

¹University of California, San Francisco (UCSF) - San Francisco (USA), ²San Francisco VA Health Care System - San Francisco (USA), ³Gladstone Institutes - San Francisco (USA), ⁴George Washington University - Washington (USA), ⁵Buck 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 ^{1,*}, W. Shipe ¹, G. Adam ¹, S. Quan ¹, L. Li ², C.N.A. Sim ², R. Dunham ³, D. Margolis ⁴, B. Henry ², D. Hazuda ¹

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

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

Author(s): F. Di Nunzio ^{1,*}, V. Scoca ¹, G. Blanco-Rodriguez ¹, D. Ershov ², J.Y. Tinevez ²

¹Department of Virology, Institut Pasteur - Paris (FRA), ²Image 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 ^{1,*}, T. Ishida ², Y. Satou ³, J. Gohda ², H. Kitamura ¹, S. Gan ¹, K. Takahashi ¹, Shoji Yamaoka ⁴,

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

⁴Department 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 ^{1,*}, C. Bacchus-Souffan ², T. Schlub ³, M. Fitch ⁴, R. Hoh ⁵, S. Deeks ⁵, M. Hellerstein ⁴, J. McCune ⁶, P. Hunt ², S. Palmer ¹

¹Centre for Virus Research, The Westmead Institute of Medical Research, The University of Sydney - Westmead (Australia), ²Division of Experimental Medicine, Department of Medicine, University of California San Francisco - San Francisco (USA), ³Sydney School of Public Health, Faculty of Medicine and Health, The University of Sydney - University of Sydney (Australia), ⁴Department of Nutritional Sciences and Toxicology, University of California - Berkeley (USA), ⁵Division of HIV, Infectious Diseases and Global Medicine, Department of Medicine, Zuckerberg San Francisco General Hospital, University of California San Francisco - San Francisco (USA), ⁶Global 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 ^{1,2,*}, J.M. Zerbato ³, A. Avihingsanon ⁴, A. Rhodes ³, J. Audsley ³, K. Singh ³, W. Zhao ³, M. Crane ³, S. Lewin ³, S. Palmer ³

¹Centre for Virus Research, The Westmead Institute for Medical Research - Westmead (AUS), ²Sydney Medical School, The University of Sydney - Sydney (AUS), ³The Peter Doherty Institute for Infection and Immunity, The University of Melbourne and Royal Melbourne Hospital - Melbourne (AUS), ⁴HIV-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 ^{1,*}, B. Hiener ¹, T.E. Schlub ², E. Lee ¹, J.M. Milush ³, R. Hoh ³, R. Fromentin ⁴, N. Chomont ⁴, S.G. Deeks ³, S. Palmer ¹

¹Westmead Institute for Medical Research - Westmead (AUS), ²University of Sydney - Sydney (AUS),

³University of California San Francisco - San Francisco (USA), ⁴Université 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 ^{1,*}, L. Fantuzzi ^{1,*}, J. Lu ², M.V. Chiantore ³, G. Fiorucci ⁴, C. Purificato ¹, L. Catapano ¹, C.M. Galluzzo ¹, R. Amici ¹, M. Pellegrini ²
¹National Center for Global Health, Istituto Superiore di Sanità - Rome (ITA), ²Department of Molecular, Cell, and Developmental Biology, University of California Los Angeles - Los Angeles (USA), ³Department of Infectious Diseases, Istituto Superiore di Sanità - Rome (ITA), ⁴Institute 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 ^{1,*}, K. Newcombe ¹, D. Nixon ¹
¹Weill 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 ^{1,*}, C. Mccann ¹, S.H. Huang ¹, M. Dean ¹, R. Yanqin ¹, R. Thomas ², K. Colin ³, H. David ⁴, S. Jeffery ⁵, J. Brad ⁵
¹Weill Cornell Medicine - Ny (USA), ²GWU - Washington (USA), ³Maple Leaf Clinic - Toronto (CAN), ⁴Whitman-Walker Health - Washington (USA), ⁵NantBioScience 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 ^{1,*}, L. Azzoni ¹, P. Tebas ², K. Mounzer ³, J.R. Kostman ⁴, D. Richman ⁵, N. Chomont ⁶, B. Howell ⁷, L.J. Montaner ¹
¹The Wistar Institute - Philadelphia (USA), ²University of Pennsylvania - Philadelphia (USA), ³Jonathan Law Immune Disorders Treatment Center, Philadelphia Field Initiating Group for HIV-1 Trials - Philadelphia (USA), ⁴John Bell Health Center, Philadelphia Field Initiating Group for HIV-1 Trials - Philadelphia (USA), ⁵VA San Diego Healthcare System and the University of California - San Diego (USA), ⁶University of Montreal - Montreal (CAN), ⁷Merck, 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 ^{1,*}
 IGH. CNRS-University of Montpellier - Montpellier (FRA)
- PP 1.15: Protein crotonylation sensitizes SMACm disruption of latent HIV by modulating the ncNF- κ B signaling pathway at the step of p100 cleavage into p52
 Author(s): J. Guochun ^{1,*}, D. Li ^{1,*}, S. Falcinelli ², L. Wong ¹, C. Garrido ¹, C. Galardi ³, R. Dunham ³, E. Brown ¹, N. Archin ¹, D. Margolis ¹
¹UNC HIV Cure Center; Institute of Global Health & Infectious Diseases - Chapel Hill (USA), ²UNC HIV Cure Center - Chapel Hill (USA), ³UNC 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 ^{1,*}, V. Planelles ¹, G. Viglianti ²
¹University of Utah Health - Salt Lake City (USA), ²Boston University School of Medicine - Boston (USA)
- PP 1.17: Low-level Persistent/Latent HIV-1 Infection of Macrophages Corresponds to Decreased NF- κ B Activity
 Author(s): T. Hanley ^{1,*}, L. Dickey ¹, V. Planelles ^{1,*}
 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 ^{1,*}, B. Horsburgh ¹, B. Hiener ¹, K. Fisher ¹, E. Lee ¹, J. Milush ², R. Hoh ², R. Fromentin ³, N. Chomont ³, S. Deeks ²
¹Westmead Millennium Institute and University of Sydney - Westmead (AUS), ²Department of Medicine, University of California San Francisco - San Francisco (USA), ³Université 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 ^{1,2*}, Y. Ren ^{3*}, W. Conce Alberto ³, W. Dong ², S. Han Huang ³, A. Wilson ⁴, T. M. Mota ³, D. Kikby ², P. M. Del Rio Estrada ⁵, C. J. Brumme ^{2,6}, G. Q. Lee ³, R. M. Lynch ⁴, Z. L. Brumme ^{1,2*}, R. Brad Jones ^{3,4*}
¹Faculty of Health Sciences, Simon Fraser University, Burnaby (CAN)
²BC Centre for Excellence in HIV/AIDS, Vancouver (CAN)
³Division of Infectious Diseases, Weill Cornell Medical College, New York (USA)
⁴School of Medicine and Health Sciences, George Washington University, Washington DC (USA)
⁵Departamento de Investigación en Enfermedades Infecciosas, Instituto Nacional de Enfermedades Respiratorias, Mexico City (MEX)
⁶Faculty 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 ^{1,*}, S. Machida ^{1,*}, D. Depierre ², M. Takaku ³, O. Cuvier ²

¹Institut de Génétique Humaine. Université de Montpellier. Laboratoire de Virologie Moléculaire CNRS-UMR9002 - Montpellier (FRA), ²LBME, Centre de Biologie Intégrative (CBI), Université de Toulouse, CNRS - Toulouse (FRA), ³School 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 ^{9,*}, H. Roux ^{1,2,*}, J. Migraine ³, M. Salmona ⁴, J. Hamroune ⁵, N. Arhel ⁶, A. Hance ⁷, F. Clavel ⁸, R. Cheyrier ⁵

¹Université de Paris - Paris (FRA), ²Institut Cochin, INSERM, U1016, CNRS, UMR8104 - Paris (FRA), ³Inserm U1259 - Tours (FRA), ⁴Université de Paris, Assistance Publique Hôpitaux de Paris, Hôpital Saint Louis - Paris (France), ⁵Institut Cochin, INSERM, U1016, CNRS, UMR8104 - Paris (FRA), ⁶Institut de Recherche en Infectiologie de Montpellier, CNRS UMR 9004 - Montpellier (FRA), ⁷Inserm U941 - Paris(FRA), ⁸Assistance Publique Hôpitaux de Paris, Hôpital Saint Louis - Paris (FRA), ⁹Inserm 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 ^{6,*}, H. Roux ^{1,2,*}, J. Migraine ³, M. Salmona ⁴, J. Hamroune ², N. Arhel ⁵, A. Hance ⁶, F. Clavel ⁴, R. Cheyrier ²

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

Author(s): U. Ranga ^{1,*}, D. Bhangé ¹, N. Prasad ¹

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 ^{1,*}, B. Pace ¹, D. Margolis ¹, B. Strahl ¹, R. Dronamraju ¹, S. Jefferys ¹, J. Parker ¹
UNC-Chapel Hill - Chapel Hill (USA)

► PP 1.2: Proteasomal degradation of PML protein is a stress response to HIV-1 replication and reactivation

Author(s): I. Shytaj ^{1,2,*}, B. Lucic ¹, C. Penzo ¹, S. Biciatto ³, M. Forcato ³, A. Savarino ⁴, M. Lucic ¹

¹Department of Infectious Diseases, Integrative Virology, Heidelberg University - Heidelberg (GER), ²German Center for Infection Research (DZIF) - Heidelberg (GER), ³Department of Life Sciences, University of Modena and Reggio Emilia - Modena (ITA) - ⁴Department 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 ^{1,*}, D.C. Copertino Jr ¹, D.F. Nixon ¹, M. De Mulder Rougvie ¹

Weill Cornell Medicine - New York (USA)

► PP 1.2: Cleavage And Polyadenylation Specific Factor 6 is required for HIV latency reversal

Author(s): Y. Zheng ^{1,*}, A. Nau ², V. Achuthan ³, A. Engelman ³, V. Planelles ¹

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► PP 1.2: Using Single-cell Analysis and a Primary Model of HIV to study Latency Establishment and Reactivation

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► PP 1.2: Degradation of the XPB subunit of TFIIH by Spironolactone reduces HIV-1 reactivation from latency

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► PP 1.3: Updates on Two Public Databases for Studies of HIV Persistence; the Retrovirus Integration Database (RID) and HIV Proviral Sequence Database (PSD)

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

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

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

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

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

Author(s): F. Kizito ^{1,*}, J. Karn ^{1,*}, U. Mbonye ¹, C. Dobrowolski ¹, S. Valadkhan ¹

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

Author(s): U. Rathore ^{1,2,*}, J. Hiatt ¹, D.A. Cavery ¹, A. Marson ^{1,*}

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

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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. Tuyishime^{1,*}, J. Pickeral¹, N. Jeffrey², C. Ann³, S. Guido⁴, M. David⁵, F. Guido¹

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► 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^{1,*}, S.H. Huang², A.R. Ward², R.B. Jones², A. Bosque¹

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

Author(s): M. Pinkevych^{1,*}, M. Davenport^{1,*}, C. Fennessey², C. Trubey², K. Brandon²

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

Author(s): J. Kim^{1,*}, C. Carmona¹, K. Farrell¹, T.H. Zhang¹, H. Chen¹, M. Dimpasoc¹, M. Soliman¹, M. Marsden¹, R. Sun¹, J. Zack¹
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► 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^{1,*}, S. Lai², K. Portion², R. Fast³, I. Ourmanov², A. Buckler-White², J. Lifson³, J. Brenchley³, L. Montaner¹, V. Hirsch²

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

Author(s): H. Sperber^{1,*}, P.P. Togarrati¹, K. Raymond¹, M.S. Bouzidi¹, R. Gilfanova¹, M.O. Muench¹, S.K. Pillai¹
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► PP 2.7: Donor T cell chimerism correlates with viral reservoir clearance following allogeneic stem cell transplantation in fully cART-suppressed Mauritanian cynomolgus macaques

Author(s): H. L. Wu^{1,*}, W. Weber¹, S. A. Abdulhaqq¹, C. Shriver-Munsch², T. Swanson², M. Northrup^{1,2}, K. Armantrout², H. Price², M. Robertson-LeVay², J. S. Reed¹, K. B. Bateman¹, B. N. Bimber², S. L. Junell⁴, Rhonda MacAllister², A. W. Legasse², M. K. Axthelm², C. Moats², J. Smedley², T. R. Hobbs², L. D. Martin², G. Meyers³, R. T. Maziarz³, B. J. Burwitz¹, J. Stanton², J. B. Sacha^{1,2}

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

Author(s): L. Franchitti^{1,*}, Z. Zhang², J. Yoon², M. Paiardini¹, G. Silvestri¹, D.A. Kulpa^{2,*}

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

Author(s): D. Barouch^{1,*}, P.-T. Liu^{1,*}, B. Keele², P. Abbink¹, N. Mercado¹, R. Geleziunas³

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

Author(s): J. Zack^{1,*}, M. Marsden^{1,*}, T.H. Zhang¹, Y. Du¹, M. Dimapasoc¹, X. Wu¹, P. Wender², R. Sun¹

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► 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^{1,*}, A. Gosselin², B. Mariana³, H. Touil¹, Y. Zhang², J.P. Routy⁴, É.A. Cohen³, C.L. Tremblay¹, P. Ancuta¹

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► 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^{1,*}, Y. Fukazawa^{1,*}, B.E. Randall¹, R. Lum¹, B. Varco-Merth¹, S.D. Falcinelli², J. Smedley¹, R. Dunham², J.D. Lifson³, L.J. Picker¹

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► PP 2.13: Next Generation Sequencing in a direct infection model reveals important parallels to in vivo reservoir dynamics
Author(s): U. O'Doherty^{1,*}, M. Pinzone^{1,*}, M.P. Bertuccio², D.J. Vanbelzen³

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

Author(s): D. M. Gorman¹, M.-T. Lai², C. McHale², M. Lu², D. Graham², J. Strizki², Y. Zheng¹, S. Ma¹, S. Moltagh¹, M. Bailly¹, S. Hsieh¹, G. Azadi¹, Yaoli Song¹, F. Ugarte¹, R. Riener¹, W. Blumenschein¹, D. Hazuda², J. Nordstrom³, B. Howell²

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

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

Author(s): A. Bauer^{1,*}, E. Lindemuth¹, L. Kuri-Cervantes¹, H. Li¹, M. Watkins², W. Ziani², H. Xu², R. Veazey², G. Shaw¹, K. Bar¹

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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 ^{1,*}, M. Tosiano ¹, D. Koontz ¹, A. Worlock ², K. Harrington ², K. Shutt ¹, S. Bakkour ³, M. Busch ³, J. Mellors ¹

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

Author(s): J. Hasson ^{1,*}, M.G. Katusiime ², S. Smith ³, M. Cotton ², E. Boritz ³, J. Coffin ⁴, J. Mellors ⁵, S. Patro ¹, G. Van Zyl ², M. Kearney ¹

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► 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. Liying ^{3,*}, Z. Yuanqian ^{1,*}, Y. Qianqian ¹, N. Ming ², L. Tingting ³, W. Chen ¹, D. Yibo ¹, L. Lingjie ¹, X. Hui ¹, C. Chen ³

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

Author(s): K. Joseph ^{1,*}, E. Halvas ¹, L. Brandt ¹, S. Patro ², J. Rausch ³, M. Kearney ², J. Coffin ⁴, J. Mellors ¹

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► 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 ^{1,*}, G. Lee ^{1,*}, T. Klevorn ¹, Y. Ren ¹

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

Author(s): S. Patro ^{1,*}, A. Niyongabo ¹, S. Guo ², X. Wu ², E. Boritz ³, S. Deeks ⁴, F. Maldarelli ¹, S. Hughes ¹, J. Coffin ⁵, M. Kearney ¹

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

Author(s): F. Mammano ^{4,*}, A. Nicolas ^{1,2,*}, J. Migraine ¹, J. Dutrieux ¹, M. Salmona ^{1,3}, A. Tauzin ⁴, A. Hachiya ⁵, J.M. Molina ³, F. Clavel ³, A. Hance ¹

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

Author(s): M. Betts ^{1,*}, L. Kuri Cervantes ^{1,*}, M.B. Pampena ¹, S. Samer ², D. Khoury ³, I. Frank ¹, M. Paiardini ², M. Davenport ³, K. Bar ¹, R. Veazey ⁴

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

Author(s): K. Huik ^{1,*}, J. Hattori ¹, V. Boltz ¹, J. Rausch ¹, W. Shao ², M. Kearney ¹, J. Coffin ³, F. Maldarelli ¹

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POSTER PRESENTATION

- PP 3.1: 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 ^{1,*}, N. Lindo ², R. Little ², T. Uldrick ³, S. Hill ¹, J. Bell ², K. Lurain ², R. Ramaswami ², R. Yarchoan ², F. Maldarelli ²
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- PP 3.11: Post-ATI viremia in a hyperacute subject comprises macrophage-tropic viral variants
Author(s): V. Machado ^{1,*}, M. Sharkey ¹, T. Cordeiro ¹, L. Barrios ¹, T. Henrich ², M. Stevenson ¹
¹University of Miami - Miami (USA), ²University 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 ^{1,*}, M.G. Katusiime ², D. Wells ³, X. Wu ³, J. Coffin ⁴, M. Cotton ⁵, S. Hughes ¹, J. Mellors ⁶, G. Van Zyl ², M. Kearney ²
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- PP 3.13: CXCR4-usage HIV-1 strains isolated from blood and cerebrospinal fluid in subjects on suppressive antiretroviral therapy
Author(s): A. Nath ^{1,*}, G. Li ^{1,*}, L. Henderson ¹, B. Smith ¹, L. Reoma ¹, X. Jiao ², U. Santamaria ¹, H. Imamichi ², C. Lane ³
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- 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 ^{1,*}, S. Sherrill-Mix ¹, M. Saag ², M. Nussenzweig ³, J. Silicano ⁴, P. Sharp ⁵, P. Borrow ⁶, L. Montaner ⁷, K. Bar ¹, B. Hahn ^{1,*}
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- 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 ^{1,*}, G. Sannier ^{1,*}, M. Dubé ¹, N. Brassard ¹, G.G. Delgado ¹, A. Baxter ¹, J.P. Routy ², N. Chomont ¹
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- PP 3.16: HIV-1 sequence compartmentalization and evolution in CNS and immune tissue
Author(s): M. Gonzalez-Perez ^{1,*}, R. Rose ², D.J. Nolan ², S.L. Lamers ², P.R. Clapham ¹, K. Luzuriaga ¹
¹University of Massachusetts Medical School - Worcester (USA), ²BiolInfoExperts 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 ^{1,*}, F. Mampe ¹, M.A. Monroy ¹, E. Lindemuth ¹, L. Kuri Cervantes ¹, F. Bibollet-Ruche ¹, B. Hahn ¹, D.B. Salantes ¹
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- PP 3.18: Longitudinal Sequencing Reveals Multiphasic Decay of HIV Reservoir
Author(s): L. Cannon ^{1,*}, M. Pinzone ¹, E. Venanzi-Rullo ¹, U. O'doherty ¹
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SESSION 4: IMMUNOLOGY OF HIV PERSISTENCE

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

Author(s): L.J. Montaner^{1,*}, L. Azzoni^{1,*}, E. Papasavvas¹, P. Tebas², K. Mounzer³, B. Howell⁴, D. Holder⁵, N. Chomont⁶, L. Kuri Cervantes², M. Betts²

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► 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^{1,*}, C. Gálvez¹, B. Revollo², E. Jiménez-Moyano¹, J. M Llibre², J. Dalmau¹, D. E. Speiser³, B. Clotet², J. G Prado¹, J. Martinez-Picado¹

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

Author(s): A. Wilson^{1,*}, Y. Ren², E. Stevenson², R.B. Jones², R. Lynch¹

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

Author(s): J. Cyktor^{1,*}, H. Mar², G. Laird³, R. Bosch², A. Martin³, J. Eron⁴, B. Macatangay¹, D. McMahon¹, R. Gandhi⁵, J. Mellors¹

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

Author(s): S. Isnard^{1,*}, F.P. Dupuy¹, J. Lin¹, B. Fombuena¹, R. Ramendra¹, J. Ouyang¹, B. Lebouché¹, C. Costiniuk¹, C. Tremblay², J.P. Routy¹

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

Author(s): R.B. Jones^{1,*}, Y. Ren^{1*}, S.H. Huang^{1*}, S. Patel², W.C. Alberto¹, D. Magat¹, D. Ahimovic¹, A.B. Macedo³, A. Bosque³, C.M. Bollard²

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► 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^{1,*}, V. Dinh¹, S. Pallikkuth¹, L. De Armas¹, R. Pahwa¹, N. Cotugno², E. Nastouli³, C. Foster⁴, P. Palma², S. Pahwa¹

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

Author(s): D. Copertino Jr^{1,*}, M. Bortlik², B. Phillip², G. Beckerle¹, C. Ormsby³, M. Rosenberg⁴, R.A.S. Raposo², D. Nixon¹, M. De Mulder Rougvié¹

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

Author(s): K. Clayton^{1,*}, H. Stuart¹, G. Mylvaganam¹, A. Villasmil Ocando¹, M. Maus², B. Walker¹

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► 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^{1,*}, E. Laws¹, R. Paul², S. Vasan³, E. Kroon³, V. Valcour⁴, S. Spudich⁵, C. Shikuma¹, J. Ananworanich³, L. Ndhlovu¹

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

Author(s): A. Gerberick ^{1,*}, N. Sluis-Cremer ¹, P. Piazza ¹, D. Delucia ¹, C. Rinaldo ¹, G. Rappocciolo ¹
University of Pittsburgh - Pittsburgh (USA)

► PP 4.12: Harnessing the specialized effector function of FcR γ ⁺ NK cells to control HIV-1 infection

Author(s): R. Anderko ^{1,*}, C. Rinaldo ¹, R. Mailliard ¹
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 ^{1,*}, J.D. Auerbach ², M.J. Stirratt ³, P. Gaist ⁴

¹UNC Gillings School of Global Public Health - Chapel Hill, (USA), ²School of Medicine, University of California San Francisco - San Francisco (USA), ³Division of AIDS Research (DAR), National Institute of Mental Health (NIMH), National Institutes of Health (NIH) - Bethesda (USA), ⁴Office 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 ^{1,*}, C. Casado ², M. Pernas ², L. Tarancón-Diez ³, C. Rodríguez ⁴, R. Lorenzo-Redondo ⁵, E. Ruiz-Mateos ³, M. Salgado ¹, C. Lopez-Galindez ², J. Martínez-Picado ¹

¹AIDS Research Institute IrsiCaixa - Badalona (SPA), ²Centro Nacional de Microbiología. Instituto de Salud Carlos III - Madrid (SPA), ³Institute of Biomedicine of Seville (IBiS) - Seville (SPA), ⁴Centro Sanitario Sandoval - Madrid (SPA), ⁵Northwestern 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 ^{1,*}, B. Peterson ¹, C. White ^{2,*}, W. Freshwater ², M. Lefae ³, C. Roebuck ⁴, N. Jones ⁵, D. Robinson ², S. Johnson ⁶, E. Burton ⁶

¹The Wistar Institute - Philadelphia (USA), ²BEAT-HIV CAB - Philadelphia (USA), ³AIDS Law Project - Philadelphia (USA), ⁴Cornell University - Ithaca (USA), ⁵Temple University - Philadelphia (USA), ⁶Philadelphia 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 ^{1,*}, B. Peterson ^{1,*}, W. Freshwater ², C. White ², M. Lefae ³, C. Roebuck ⁴, N. Jones ⁵, J. Shull ⁶, D.S. Metzger ⁷, J.L. Riley ⁷

¹The Wistar Institute - Philadelphia (USA), ²BEAT-HIV CAB - Philadelphia (USA), ³AIDS Law Project - Philadelphia (USA), ⁴Cornell University - Ithaca (USA), ⁵Temple University - Philadelphia (USA), ⁶Philadelphia FIGHT - Philadelphia (USA), ⁷University 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 ^{2,*}, J. Taylor ^{1,*}, S. Concha-García ³, S. Javadi ⁴, H. Patel ², A. Kaytes ³, S. Little ³, D. Smith ³, S. Gianella ³, K. Dubé ²

¹HIV + Aging Research Project-Palm Springs - Palm Springs (USA), ²University of North Carolina - Chapel Hill (USA), ³University of California San Diego - La Jolla (USA), ⁴University 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 ¹, P. Martínez-Román ^{1,*}, C. Crespo-Bermejo ¹, A. Fernández-Rodríguez ¹, V. Briz ¹

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 ^{1,*}, D. Anderson ², J.F. Li ¹, A. Santos Tino ³, J. Politch ², J. Lipscomb ¹, J. Defelice ⁴, M. Gelman ⁴, K. Mayer ⁴

¹CDC - Atlanta (USA), ²BU School of Medicine - Boston (USA), ³The DESA Group - Atlanta (USA), ⁴The 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 ^{3,*}, K. Van Den Berg ^{1,*}, M. Vermeulen ¹, S. Bakkour ², M. Busch

¹South African National Blood Service - Johannesburg (ZAF), ²Vitalant Research Institute - San Francisco (USA), ³UCSF 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 ^{1,*}, S. Zhou ¹, Y. Xu ¹, M. Moeser ¹, J. Kuruc ¹, C. Gay ¹, D. Margolis ¹, N. Archin ¹, R. Swanstrom ¹, N. Goonetilleke ¹

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 ^{1,*}, R. Scutari ², M.C. Bellocchi ², V. Spagnuolo ³, L. Galli ⁴, L. Carioti ², M.M. Santoro ², C. Alteri ², F. Ceccherini-Silberstein ², A. Castagna ¹
¹Università Vita-Salute San Raffaele - Milan (ITA), ²Department of Experimental Medicine, University of Rome Tor Vergata - Rome (ITA), ³Università Vita-Salute San Raffaele - Milano (ITA), ⁴Infectious 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 ^{1,2,*}, Z. Haq ², M. Naidu ², J. Rivera-Ortiz ¹, Y. Cai ¹, K. Beattie ³, T. Rali ⁴, Z. Brumme ², L. Montaner ¹, R. Davis ³
¹The Wistar Institute - Philadelphia (USA), ²Simon Fraser University - Burnaby (CAN), ³Griffith University - Brisbane (Australia), ⁴University 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 ^{1,2,*}, K. Richard ², D. Williams ³, J. Rivera-Ortiz ¹, Y. Cai ¹, A. Pagliuzza ⁴, N. Chomont ⁴, R. Andersen ³, L. Montaner ¹, K. Andrae-Marobela ⁵
¹The Wistar Institute - Philadelphia (USA), ²Simon Fraser University - Burnaby (CAN), ³University of British Columbia - Vancouver (CAN), ⁴Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM) - Montreal (CAN), ⁵University of Botswana - Gaborone (Botswana)
- PP 5.7.13: Targeting HIV-1-driven aberrant transcription and proliferation
 Author(s): Y-C. Ho ^{1,*}, Y.H. Yeh ¹, K. Jenike ²
¹Yale University - New Haven (USA), ²Johns Hopkins University - Baltimore (USA)
- PP 5.7.14: A Mechanistic Modeling Platform for HIV Cure Drug Development
 Author(s): Y. Cao ^{1,*}, D. Rosenbloom ^{1,*}, M. Ahmadi ¹, S. Bae ¹, R. Vargo ¹
 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 ^{1,2,*}, S. Raines ², J. Schawalder ¹, D. Irlbeck ¹, C. Galardi ¹, J. Brehm ¹, J. Ramanjulu ³, D. Margolis ², H. Madsen ¹
¹ViiV Healthcare - Chapel Hill (USA), ²UNC HIV Cure Center - Chapel Hill (USA), ³GlaxoSmithKline - 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 ^{1,*}
 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 ^{1,*}, D.W. Gludish ¹, K.C. Jambo ², H.C. Mwandumba ², D.G. Russell ¹
¹Cornell University - Ithaca (USA), ²University 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 ^{1,*}, M. Sanz ¹, N. Madrid-Elena ¹, S. Serrano-Villar ¹, S. Moreno ^{1,*}
 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 ^{1,*}, S. Brackenridge ², M. Tuyishime ³, D. Cain ¹, Z. Mu ¹, B. Mattia ¹, G. Ferrari ³, G. Geraldine ², A. McMichael ², B. Haynes ¹

¹Duke Human Vaccine Institute, Duke University - Durham (USA), ²Nuffield Department of Medicine, University of Oxford - Oxford (United Kingdom), ³Department 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 ^{1,*}, C. Garrido ², S. Jha ¹, D. Mielke ¹, M. Moeser ³, B. Haynes ⁴, S. Joseph ³, D. Margolis ⁵, G. Ferrari ¹

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► 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 ^{1,*}, M. López Huertas ^{1,*}, L. Jiménez Tormo ¹, N. Madrid Elena ¹, C. Gutiérrez ¹, M.J. Vivancos ¹, L. Luna ¹
 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 ^{1,*}, D. Patel ², C. Ding ¹, Y. Ma ², W. Li ¹, R. Dekoter ²

¹The First Affiliated Hospital, University of Science and Technology of China - Hefei (CHI), ²Department 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 ^{1,*}, L. Vigón ¹, S. Rodríguez-Mora ¹, V. García-Gutiérrez ², J. Ambrosioni ³, J. Alcamí ^{1,3}, J.L. Steegmann ⁶, J.M. Miró ³, V. Planelles ⁷, M.R. López-Huertas ¹, E. Mateos ¹, V. García ², N. Climent ⁴, G. Bautista ⁵, M. Plana ⁴

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⁶Hematology Service, Hospital Universitario La Princesa - Madrid (SPA)

⁷Division 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 α for Th17 Mucosal Immunity Restoration and HIV Reservoir Purging

Author(s): D. Planas ^{1,*}, A. Fert ^{1,*}, Y. Zhang ¹, M.J. Ruiz ¹, J.P. Goulet ², T.R. Wiche Salinas ¹, E.A. Cohen ³, J.P. Routy ⁴, N. Chomont ¹, P. Ancuta ¹

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

Author(s): A. Mlacedo ^{1,*}, C. Levinger ¹, A. C. Hernandez Santini ², N. Bonan ¹, B. Nguyen ¹, K. Crandall ¹, R. Lynch ¹, A. Bosque ¹
¹George Washington University - Washington (USA), ²University 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 ^{1,*}, A. Allen ^{1,*}, S. Worell ¹, G. Nwazo ¹, R. Madrid ¹, W. Dampier ¹, 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 ^{1,*}, C-H. Chung ^{1,2}, A.G. Allen ¹, A.J. Atkins ¹, R. Costello ¹, N.T. Sullivan ¹, M.R. Nonnemacher ¹, W.N. Dampier ¹
 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 ^{1,*}, Y. Zhu ^{1,*}, E. Bouikidis ¹, F. Li ¹, Y. Lin ¹, Y. Cai ², H. Wang ¹, L. Montaner ², W. Ho ¹, S. Turville ³
¹Temple University School of Medicine - Philadelphia (USA), ²Wistar Institute - Philadelphia (USA), ³University 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 ^{1,*}, S. Lingling ², C. Cairo ³, T.W. Chun ⁴, M.K. Lafferty ³
^{1,2,3}Institute of Human Virology, University of Maryland School of Medicine - Baltimore (USA), ⁴National 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 ^{1,*}, K. Stephenson ², D. Barouch ², B. Korber ¹
¹Theoretical Biology & Biophysics, Los Alamos National Laboratory - Los Alamos (USA), ²Center 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 ^{2,*}, Y. Cai ¹, Y. Zhu ², F. Li ², A.O. Stella ³, P. Tebas ⁴, K. Mounzer ⁵, J. Kostman ⁵, S. Turville ³, L. Montaner ¹
¹HIV-1 Immunopathogenesis Laboratory, The Wistar Institute - Philadelphia (USA), ²Department of Pathology and Laboratory Medicine, Temple University Lewis Katz School of Medicine - Philadelphia (USA), ³The Kirby Institute, University of New South Wales (UNSW) - Sydney (Australia), ⁴Perelman School of Medicine, University of Pennsylvania - Philadelphia (USA), ⁵Philadelphia 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 ^{1,*}, M. Gardner ¹, M. Farzan ¹
 The Scripps Research Institute - Jupiter (USA)
- PP 6.8.17: Exploring Sequence Specific Silencing of Latent HIV Using CRISPR Interference
 Author(s): R. Schwarzer ^{1,*}, M. Montano ¹, W.C. Greene ¹
 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 ^{1,*}
 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 ^{1,*}, S. Valente ^{1,*}, G. Mousseau ¹
 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 ^{1,*}, S. Valente ¹
 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 ^{1,*}, H. Yang ¹, D. Li ², G. Gillespie ¹, B. Haynes ², A. McMichael ¹
¹University of Oxford - Oxford (United Kingdom), ²Duke 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 ^{1,*}, F. Haeseleer ², L. Corey ³
¹VIDD, Fred Hutchinson Cancer Research Center - Seattle (USA), ²Departments of Laboratory Medicine and Medicine, University of Washington - Seattle (USA), ³Departments 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 ^{1,*}, E. Duke ¹, C. Peterson ¹, D. Reeves ¹, B. Mayer ¹, H.P. Kiem ^{1,2}, J. Schiffer ³
¹Fred Hutchinson Cancer Research Center - Seattle, WA (USA), ²University of Washington - Seattle, WA (USA), ³Fred 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 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

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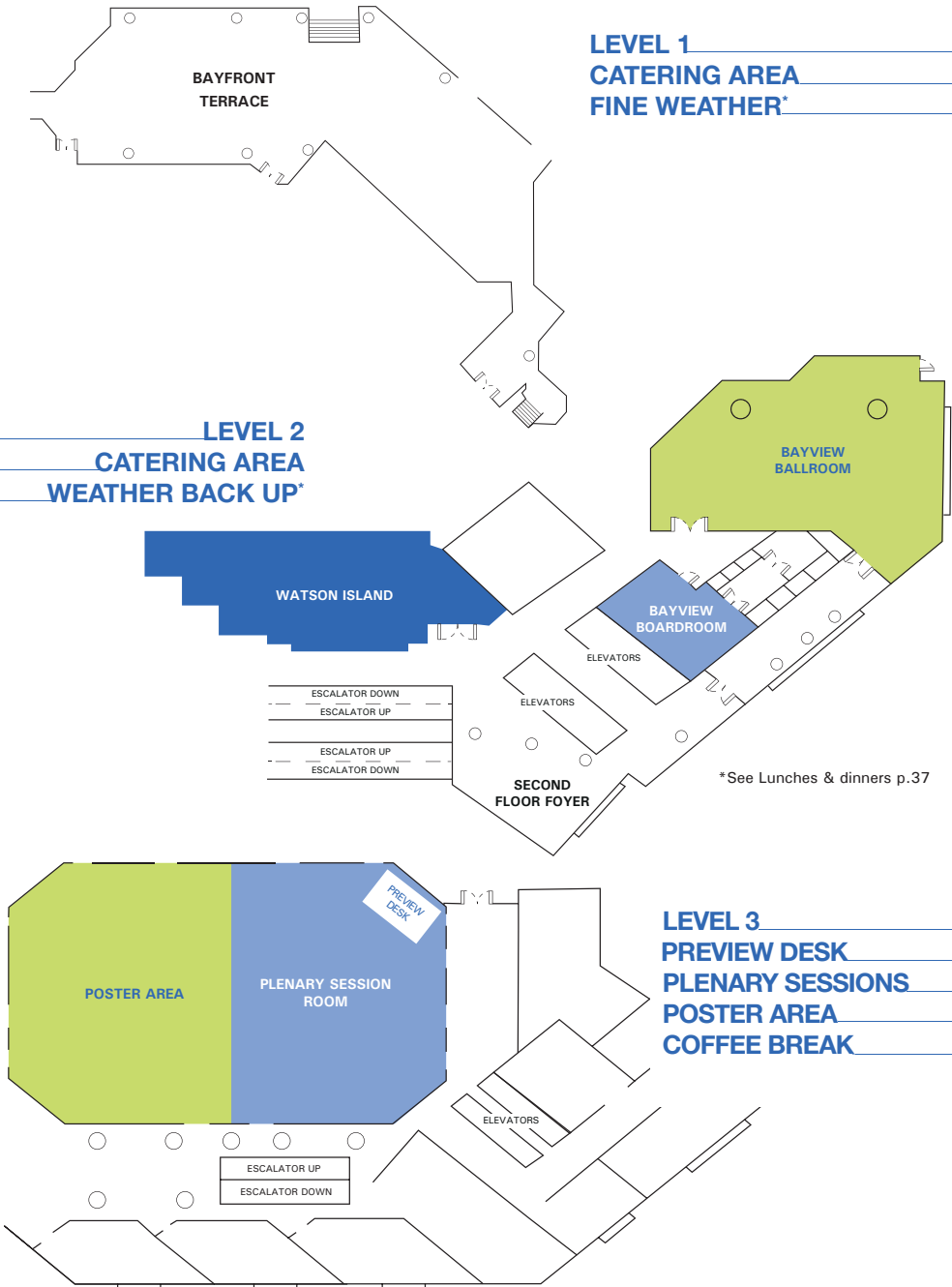
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CONGRESS VENUE

MARRIOTT BISCAYNE BAY HOTEL

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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 researche:

- 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

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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

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¤tculture=fr-FR>

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Call for Papers: Volume 6

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

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Issue	Copy date
6.1	16th October 2019
6.2	10th January 2020
6.3	10th April 2020
6.4	10th July 2020

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Infectious Diseases

NOVEMBER 16 - 18, 2020

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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



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