

FINAL PROGRAMME

DECEMBER 12-15, 2017

8<sup>TH</sup> EDITION **HIV PERSISTENCE  
DURING THERAPY**™

Reservoirs & Eradication Strategies Workshop

M FLORIDA  
IAMI  
USA

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

9<sup>TH</sup> EDITION

DECEMBER 10-13, 2019

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DECEMBER 12-15, 2017

# HIV PERSISTENCE DURING THERAPY™

Reservoirs & Eradication Strategies Workshop



## Steering Committee

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General Hospital, Toulon – FR

David Margolis, MD

University of North Carolina at Chapel Hill, Chapel Hill – US

Karl Salzwedel, PhD

National Institute of Allergy and Infectious Diseases, Bethesda – US

Mario Stevenson, PhD

University of Miami Leonard M. Miller School of Medicine, Miami – US

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Romas Gelezunas, Foster City – US

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Sarah Palmer, Sydney – AU

Vicente Planelles, Salt Lake City – US

Guido Poli, Milan – IT

Douglas Richman, La Jolla – US

Jean-Pierre Routy, Montreal – CA

Christine Rouzioux, Paris – FR

Andrea Savarino, Rome – IT

Robert Siliciano, Baltimore – US

Carine Van Lint, Gosselies – BE

Jan Van Lunzen, London – UK

† Mark Wainberg, Montreal – CA

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# WELCOME ADDRESS

Dear Colleagues,

Welcome to the Eighth 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 programme, 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

# PROGRAMME

Time	Tuesday, December 12, 2017	Wednesday, December 13, 2017
8.00 10.00 AM		Session 1: Basic Science of HIV Latency I
10.00 10.30 AM		Coffee Break
10.30 AM 12.30 PM		Session 2: Basic Science of HIV Latency II
12.30 2.00 PM		Lunch
02.00 03.30 PM	DAIDS Martin Delaney Collaboratory satellite workshop	Session 3: In Vitro and Animal Model Studies of HIV Persistence
3.30 4.00 PM	Coffee Break	
04.00 05.30 PM	DAIDS Martin Delaney Collaboratory satellite workshop	Poster viewing with wine and cheese tasting
6.00 7.00 PM	Opening Lecture	
7.00 PM	Welcome Dinner	Free Evening Dinner

# AT A GLANCE

Thursday, December 14, 2017	Friday, December 15, 2017	Time
Session 4: Virology of HIV Persistence	Session 7: New Therapeutic Approaches I	8.00 10.00 AM
Coffee Break	Coffee Break	10.00 10.30 AM
Session 5: Immunology of HIV Persistence	Session 8: New Therapeutic Approaches II	10.30 AM 12.30 PM
Lunch	Closing Ceremony	12.30 2.00 PM
Session 6: Human Studies		02.00 03.30 PM
Poster viewing with wine and cheese tasting		3.30 4.00 PM
		04.00 05.30 PM
		6.00 7.00 PM
Free Evening Dinner		7.00 PM

# TUESDAY DECEMBER 12, 2017

## 2.00 NIH MARTIN DELANEY COLLABORATORIES SATELLITE SYMPOSIUM 3.30 Research Highlights from Martin Delaney Collaboratory Leaders

Chairs: Karl Salzwedel, National Institute of Allergy and Infectious Diseases, Bethesda, US  
Diane Lawrence, National Institute of Allergy and Infectious Diseases, Bethesda, US

**CARE – Collaboratory of AIDS Researchers for Eradication**  
David Margolis, University of North Carolina, Chapel Hill, US

**I4C – Combined Immunologic Approaches to Cure HIV-1**  
Dan Barouch, Beth Israel Deaconess Medical Center, Boston, US

**DARE – Delaney AIDS Research Enterprise to Cure HIV**  
Steven Deeks, University of California, San Francisco, US

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🕒 03.30 – 04.00 Coffee break

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- 4.00 Chairs: Lillian Kuo, National Institute of Allergy and Infectious Diseases, Bethesda, US  
5.30 David McDonald, National Institute of Allergy and Infectious Diseases, Bethesda, US
- BELIEVE – Bench to Bed Enhanced Lymphocyte Infusions to Engineer Viral Eradication**  
Douglas Nixon, George Washington University, Washington DC, US
- DefeatHIV – Delaney Cell and Genome Engineering Initiative**  
Keith Jerome, Fred Hutchinson Cancer Research Center, Seattle, US
- BEAT-HIV – Delaney Collaboratory to Cure HIV-1 Infection by Combination Immunotherapy**  
Luis Montaner, The Wistar Institute, Philadelphia, US

## 6.00 WELCOME

Alain Lafeuillade, General Hospital, Toulon, FR

## 6.05 OPENING LECTURE

Introduction: Karl Salzwedel, National Institute of Allergy and Infectious Diseases, Bethesda, US

**Sustained ART-Free HIV Remission: Obstacles and Opportunities**  
Anthony S. Fauci, National Institute of Allergy and Infectious Diseases (NIAID), Bethesda, US

**Long-term Virological Suppression Mediated by AAV-delivered Antibodies**  
Ronald C. Desrosiers, University of Miami Miller School of Medicine, Miami, US

## 7.00 WELCOME DINNER

8.00

10.00

## SESSION 1: BASIC SCIENCE OF HIV LATENCY I

Chairs: Vicente Planelles, University of Utah School of Medicine, Salt Lake City, US  
Carine Van Lint, University of Brussels, Gosselies, BE

### ► OP 1.0: Understanding persistence of the latent reservoir

Author: Robert Siliciano

Johns Hopkins University School of Medicine, Howard Hughes Medical Institute, Baltimore, MD, US

### ► OP 1.1: HIV-1 proviruses which are integrated into cancer-related genes are inducible

Authors: A. Varabyou<sup>1</sup>, C. Talbot Jr.<sup>2</sup>, H. Zhang<sup>3</sup>, S. Beg<sup>2,4</sup>, R. Pollack<sup>2</sup>, H. Hao<sup>2</sup>, J. Margolick<sup>3</sup>, R. F. Siliciano<sup>2,4</sup>, M. Pertea<sup>2</sup>, Y.-C. Ho<sup>5</sup>

<sup>1</sup> Johns Hopkins Whiting School of Engineering, Baltimore, MD, US

<sup>2</sup> Johns Hopkins School of Medicine, Baltimore, MD, University of North Carolina, Chapel Hill, US

<sup>3</sup> Johns Hopkins School of Public Health, Baltimore, MD, US

<sup>4</sup> Howard Hughes Medical Institute, Baltimore, MD, US

<sup>5</sup> Yale University School of Medicine, New Haven, CT, US

### ► OP 1.2: The Contribution Of Memory CD4+ T Cell Subset Phenotype TO Latency Reversal Efficiency

Authors: D. A. Kulpa<sup>1</sup>, A. Talla<sup>2</sup>, S. Ribeiro<sup>2</sup>, R. Barnard<sup>3</sup>, D. Hazuda<sup>3</sup>, N. Chomont<sup>4</sup>, R. Pierre Sékaly<sup>2</sup>

<sup>1</sup> Emory University, Atlanta, US

<sup>2</sup> Case Western Reserve University, Cleveland, US

<sup>3</sup> Merck & Co. Inc., Kenilworth, US

<sup>4</sup> Case Western Reserve, Cleveland, US

### ► OP 1.3: Identification of a Promising New Class of Latency Reversing Agents

Authors: A. Gramatica, W. Greene, R. Schwarzer, M. Montano, T. Packard, E. Herzig

Gladstone Institute of Virology and Immunology, San Francisco, US

### ► OP 1.4: High-throughput single-cell transcriptome analysis of immune cells from HIV-1 infected individuals before and after therapy

Authors: T. Bradley<sup>1</sup>, C. Hart<sup>1</sup>, B. Hora<sup>1</sup>, J. Pollara<sup>1</sup>, E. P. Browne<sup>2</sup>, M. Anthony Moody<sup>1</sup>, Guido Ferrari<sup>1</sup>, David Margolis<sup>2</sup>, and Barton F. Haynes<sup>1</sup>

<sup>1</sup> Human Vaccine Institute, Duke Human Vaccine Institute, Durham, US

<sup>2</sup> University of North Caroline HIV Cure Center, UNC Chapel Hill, Chapel Hill, US

### ► OP 1.5: CD32 does not mark the HIV-1/SIV latent reservoir

Authors: C. E. Osuna<sup>1</sup>, R. Apps<sup>2</sup>, S.-Y. Lim<sup>1</sup>, J. L. Kublin<sup>1</sup>, R. Thomas<sup>3</sup>, E. Chen<sup>1</sup>, G. Yoon<sup>1</sup>, S. Han Huang<sup>2</sup>, D. Chan<sup>2</sup>, R. Truong<sup>2</sup>, Y. Ren<sup>2</sup>, N. D. Bachtel<sup>2</sup>, M. E. Ackerman<sup>4</sup>, J. Ananworanich<sup>3</sup>, D. H. Barouch<sup>1,5</sup>, N. L. Michael<sup>3</sup>, R. Brad Jones<sup>2</sup>, D. F. Nixon<sup>2</sup>, J. B. Whitney<sup>1,5</sup>, the BELIEVE Collaboratory

<sup>1</sup> Center for Virology and Vaccine Research, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, US

<sup>2</sup> Department of Microbiology Immunology and Tropical Medicine, The George Washington University, Washington DC, US

<sup>3</sup> United States Military HIV Research Program, Bethesda, MD, US

<sup>4</sup> Thayer School of Engineering, Dartmouth College, Hanover, DE

<sup>5</sup> Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, US

### ► OP 1.6: Single-Cell RNA-Seq Reveals Transcriptional Heterogeneity in Latent and Reactivated HIV-infected Cells

Authors: M.Golumbeanu<sup>1,2</sup>, S. Rato<sup>3</sup>, S. Cristinelli<sup>3</sup>, M. Munoz<sup>3</sup>, M. Cavassini<sup>4</sup>, N. Beerenwinkel<sup>1,2</sup>, A. Ciuffi<sup>3</sup>

<sup>1</sup> Department of Biosystems Science and Engineering, ETH Zürich, Basel, CH

<sup>2</sup> SIB Swiss Institute of Bioinformatics, Basel, CH

10.30  
12.30

## SESSION 2: BASIC SCIENCE OF HIV LATENCY II

Chairs: Brian A. Johns, Glaxo SmithKline's director of HIV medicinal chemistry, Raleigh-Durham, US  
Guenther Kraus, Director of Janssen, BE

### ► OP 2.0: Characterizing HIV Expression of Proviruses during ART in Tissues and Blood

Author: M. Kearney

HIV Dynamics and Replication Program, CCR, National Cancer Institute, Frederick, MD, US

### ► OP 2.1: The HIV-1 antisense transcript AST recruits the Polycomb Repressor Complex 2 to the HIV-1 5'LTR and acts as a viral latency factor

Authors: F. Romerio<sup>1</sup>, J.C. Zapata<sup>1</sup>, R. Barclay<sup>2</sup>, M.D. Iglesias-Ussel<sup>1</sup>, F. Kashanchi<sup>2</sup>

<sup>1</sup> Institute of Human Virology, Baltimore, MD, US

<sup>2</sup> George Mason University, Manassas, VA, US

### ► OP 2.2: Majority of the Latent Reservoir Resides in CD32a Negative CD4+ T Cells

Authors: L. N. Bertagnolli, J. A. White, S. A. Beg, F. R. Simonetti, J. Lai, C. Tomescu, A. J. Murray, Annukka

A. R. Antar, Hao Zhang, J. B. Margolick, L. J. Montaner, R. F. Siliciano, G. M. Laird, J. D. Siliciano

Johns Hopkins University School of Medicine, Baltimore, US

### ► OP 2.3: Brain Macrophages in SIV-infected ART-Suppressed Macaques Represent a Functional Latent Reservoir

Authors: J. Clements<sup>1</sup>, C. Abreu<sup>1</sup>, F. Mac Gabhann<sup>2</sup>, J. Mankowski<sup>1</sup>, L. Gama<sup>1</sup>

<sup>1</sup> Johns Hopkins School of Medicine, Baltimore, US

<sup>2</sup> Johns Hopkins University, Baltimore, US

### ► OP 2.4: CD4+ T Cells Expressing CD32 From HIV-1+ Patients Are Not Enriched for Proviral DNA

Authors: A. M. Spivak, R. A. Nell, M. L. Coletti, L. J. Montaner, V. Planelles

University of Utah, Salt Lake City, US

### ► OP 2.5: The impact of ART duration on the infection of T cells within anatomic sites

Authors: E. Lee<sup>1,2</sup>, S. von Stockenstrom<sup>3</sup>, V. Morcilla<sup>1</sup>, W. Shao<sup>4</sup>, W. Hartogensis<sup>5</sup>, P. Bacchetti<sup>6</sup>, J. Milush<sup>5</sup>, R. Hoh<sup>5</sup>, M. Somsouk<sup>6</sup>, P. W. Hunt<sup>5</sup>, R. Fromentin<sup>7</sup>, N. Chomont<sup>7</sup>, S. G. Deeks<sup>5</sup>, Fr. M. Hecht<sup>5</sup>, S. Palmer<sup>1,2</sup>

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<sup>2</sup> University of Sydney, NSW, AU

<sup>3</sup> Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet, Karolinska University Hospital, Stockholm, SE

<sup>4</sup> Advanced Biomedical Computing Center, Leidos Biomedical Research Inc., Frederick National Laboratory for Cancer Research, Frederick, Maryland, US

<sup>5</sup> Department of Medicine, University of California San Francisco, San Francisco, California, US

<sup>6</sup> Department of Epidemiology and Biostatistics, University of California San Francisco, San Francisco, California, US

<sup>7</sup> Centre de recherche du CHUM and Department of microbiology, infectiology and immunology, Université de Montréal, Montreal, CA

### ► OP 2.6: CD32+ CD4+ T Cells Are HIV Transcriptionally Active Rather than a Resting Reservoir

Authors: M. Abdel-Mohsen<sup>1</sup>, C. Tomescu<sup>1</sup>, S. Vadrevu<sup>1</sup>, A. Spivak<sup>2</sup>, L. Kuri-Cervantes<sup>3</sup>, G. Wu<sup>4</sup>, K. Cox<sup>4</sup>, S. Vemula<sup>4</sup>, M. Fair<sup>1</sup>, K. Lynn<sup>1,3</sup>, M. J. Buzon<sup>5</sup>, J. Martinez-Picado<sup>6</sup>, M. Betts<sup>3</sup>, V. Planelles<sup>2</sup>, K. Mounzer<sup>7</sup>, B. Howell<sup>4</sup>, D. Hazuda<sup>4</sup>, P. Tebas<sup>3</sup>, L. J. Montaner<sup>1</sup>

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<sup>2</sup> University of Utah School of Medicine, UT, US

<sup>3</sup> University of Pennsylvania, PA, US

<sup>4</sup> Merck & Co, Inc, NJ, US

<sup>5</sup> Vall d'Hebron Research Institute, ES

<sup>6</sup> IrsiCaixa, UVic-UCC & ICREA, Barcelona, ES

<sup>7</sup> Jonathan Lax Center, Philadelphia FIGHT, PA, US

2.00  
4.00**SESSION 3: IN VITRO AND ANIMAL MODEL STUDIES OF HIV PERSISTENCE**

Chairs: Victor Garcia Martinez, University of North Carolina, Chapel Hill, US  
 Jeff D. Lifson, Frederick National Laboratory, Frederick, US

**► OP 3.0: Testing cure approaches in NHPs: the Emory experience**

Author: G. Silvestri

Emory University and Yerkes National Primate Research Center Atlanta, US

**► OP 3.1: Visualization and quantification of HIV dissemination and reservoirs using in vivo imaging**

Authors: W-B. Young<sup>1</sup>, X. Qu<sup>2</sup>, G. Wu<sup>2</sup>

<sup>1</sup> Temple University, Philadelphia, US,

<sup>2</sup> University of Pittsburgh, Pittsburgh, US

**► OP 3.2: Enhancing Infection-Resistant Cells for HIV Cure in the Nonhuman Primate Model**

Authors: C. W. Peterson<sup>1,2</sup>, A. Zhen<sup>3</sup>, C. Deleage<sup>4</sup>, J. D. Estes<sup>4</sup>, S. Kitchen<sup>3</sup>, and H.-P. Kiem<sup>1,2</sup>

<sup>1</sup> Fred Hutchinson Cancer Research Center, Seattle, WA, US

<sup>2</sup> University of Washington, Seattle, WA, US

<sup>3</sup> UCLA, Los Angeles, CA, US

<sup>4</sup> AIDS and Cancer Virus Program, Frederick National Laboratory for Cancer Research, Leidos Biomedical Research, Inc., Frederick, MD, US

**► OP 3.3: Modeling the graft-versus-viral-reservoir effect in a nonhuman primate model of HIV persistence**

Authors: C. W. Peterson<sup>1,2</sup>, L. Colonna<sup>3</sup>, J. B. Schell<sup>3</sup>, J. M. Carlson<sup>3,S.</sup>, S. Reddy<sup>1</sup>, W. Obenza<sup>1</sup>, H.-P. Kiem<sup>1,3</sup>, and L. Kean<sup>2,3</sup>

<sup>1</sup> Fred Hutchinson Cancer Research Center, Seattle, WA, US

<sup>2</sup> University of Washington, Seattle, WA, US

<sup>3</sup> Seattle Children's Research Institute, Seattle, WA, US

**► OP 3.4: Patient-Derived HIV Reservoirs can be Stably Engrafted into NSG Mice and Reactivated by Latency-Reversing Agents *in vivo***

Authors: A. Ward<sup>1</sup>, R. Brad Jones<sup>1</sup>, E. Charleus<sup>1</sup>, S. Karandish<sup>1</sup>, E. Benko<sup>2</sup>, C. Kovacs<sup>2</sup>, D. Chan<sup>1</sup>, A. Ramezani<sup>1</sup>

<sup>1</sup> Department of Microbiology, Immunology, and Tropical Medicine, The George Washington University, Washington DC, US

<sup>2</sup> Maple Leaf Medical Clinic, Toronto, ON, CA

**► OP 3.5: SIV Persists in Lymphoid Tissues Despite Alemtuzumab-Induced CD4+ T Cell Depletion**

Authors: A. A. Okoye<sup>1,2</sup>, S. R. Lewin<sup>6,7</sup>, C. H. Xu<sup>1,2</sup>, M. Vaidya<sup>1,2</sup>, D. M. Duell<sup>1,2</sup>, W. B. Brantley<sup>1,2</sup>, M. A. Marenco<sup>1,2</sup>, Y. Fukazawa<sup>1,2</sup>, H. M. Park<sup>1,2</sup>, T. A. Rasmussen<sup>3</sup>, J. D. Lifson<sup>4</sup>, M. K. Axthelm<sup>1,2</sup>, S. G. Deeks<sup>5</sup>, L. J. Picker<sup>1,2</sup>

<sup>1</sup> Vaccine and Gene Therapy Institute, Oregon Health & Science University, Beaverton, OR, US

<sup>2</sup> Oregon National Primate Research Center, Oregon Health & Science University, Beaverton, OR, US

<sup>3</sup> Department of Infectious Diseases, Aarhus University Hospital, Aarhus, DK

<sup>4</sup> AIDS and Cancer Virus Program, Leidos Biomedical Research, Inc., Frederick National Laboratory, Frederick, MD, US

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<sup>6</sup> The Peter Doherty Institute for Infection and Immunity, The University of Melbourne and Royal Melbourne Hospital, Victoria, AU

<sup>7</sup> Department of Infectious Diseases, Alfred Hospital and Monash University, Melbourne, Victoria, AU

**► OP 3.6: Differential viral rebound between lymph node and colon after treatment interruption in SHIV-infected rhesus macaques**

Authors: D. C. Hsu<sup>1,2,3</sup>, D. Silsorn<sup>1</sup>, D. Inthawong<sup>1</sup>, Y. Kuncharin<sup>1</sup>, J. Sopanaporn<sup>1</sup>, S. Tayamun<sup>1</sup>, R. Im-Erbsin<sup>1</sup>, C. Ege<sup>1</sup>, M. Wegner<sup>1</sup>, P. Sunyakumthorn<sup>1</sup>, R. J. O'Connell<sup>1,2</sup>, N. L. Michael<sup>2</sup>, S. Vasani<sup>1,2,3</sup>

<sup>1</sup> Armed Forces Research Institute of Medical Sciences, Bangkok, TH

<sup>2</sup> US Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, US

<sup>3</sup> Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, US

8.00  
10.00**SESSION 4: VIROLOGY OF HIV PERSISTENCE**

**Chairs:** Douglas Richman, University of California, San Diego, US  
 John Mellors, University of Pittsburgh, Pittsburgh, US

**► OP 4.0: Title to be confirmed**

**Author:** D. Hazuda  
 Merck & Co, Inc, NJ, US

**► OP 4.1: HIV-1 mediated insertional activation of STAT5B and BACH2 promotes the formation of a viral reservoir in T regulatory cells**

**Authors:** D. Cesana<sup>1</sup>, F. Santoni de Sio<sup>1</sup>, L. Rudilloso<sup>1</sup>, P. Gallina<sup>1</sup>, A. Calabria<sup>1</sup>, E. Bruzzesi<sup>2</sup>, L. Passerini<sup>1</sup>, S. Nozza<sup>2</sup>, E. Vicenzi<sup>3</sup>, G. Poli<sup>3</sup>, S. Gregori<sup>1</sup>, G. Tambussi<sup>2</sup>, E. Montini<sup>1</sup>

<sup>1</sup> San Raffaele Telethon Institute for Gene Therapy (SR-TIGET), San Raffaele Scientific Institute, IT

<sup>2</sup> Department of Infectious Diseases, San Raffaele Scientific Institute, IT

<sup>3</sup> Division of Immunology, Transplantation and Infectious Diseases, San Raffaele Scientific Institute, IT

**► OP 4.2: Productive HIV-1 infection upregulates CD32 in vitro and in vivo**

**Authors:** C. Serra-Peinado<sup>1</sup>, J. Grau-Expósito<sup>1</sup>, M. Genescà<sup>1</sup>, L. Luque-Ballesteros<sup>1</sup>, A. Astorga<sup>1</sup>, C. Gálvez<sup>2</sup>, J. Castellví<sup>3</sup>, R. Willekens<sup>1</sup>, I. Ocaña<sup>1</sup>, J. Burgos<sup>1</sup>, J. Navarro<sup>1</sup>, A. Curra<sup>1</sup>, E. Ribera<sup>1</sup>, L. Montaner<sup>4</sup>, V. Falcó<sup>1</sup>, J. Martínez-Picado<sup>2,5</sup>, M. J. Buzon<sup>1</sup>

<sup>1</sup> Infectious Disease Department, Hospital Universitari Vall d'Hebrón, Institut de Recerca (VHIR), Universitat Autònoma de Barcelona, Barcelona, ES

<sup>2</sup> Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, ES

<sup>3</sup> Department of Pathology, Hospital Vall d'Hebron, Universitat Autònoma de Barcelona, ES

<sup>4</sup> HIV-1 Immunopathogenesis Laboratory, Wistar Institute, Philadelphia, Pennsylvania, US

<sup>5</sup> AIDS Research Institute IrsiCaixa, Hospital Universitari Germans Trias i Pujol, Universitat Autònoma de Barcelona, Barcelona, ES

**► OP 4.3: No evidence for ongoing HIV replication in lymph nodes during suppressive ART**

**Authors:** W. R. McManus<sup>1</sup>, M. J. Bale<sup>1</sup>, J. Spindler<sup>1</sup>, A. Wiegand<sup>1</sup>, A. Musick<sup>1</sup>, X. Wu<sup>2</sup>, D. Wells<sup>2</sup>, S. H. Hughes<sup>1</sup>, B. F. Keele<sup>2</sup>, R. Hoh<sup>3</sup>, J. Mulish<sup>3</sup>, J. M. Coffin<sup>4</sup>, J. W. Mellors<sup>5</sup>, S. G. Deeks<sup>3</sup>, M. F. Kearney<sup>1</sup>

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<sup>5</sup> Department of Medicine, University of Pittsburgh, Pittsburgh, PA, US

**► OP 4.4: Tissue macrophages are a major viral reservoir in male urethra of HIV-1-infected individuals under suppressive anti-retroviral therapy**

**Authors:** M. Bomsel<sup>1</sup>, Y. Ganor<sup>1</sup>, A. Sennepin<sup>1</sup>, C.A. Dutertre<sup>1</sup>, S. Cristofari<sup>2</sup>, F. Real<sup>1</sup>, C. Capron<sup>3</sup>, E. A. Eugenin<sup>4</sup>, M. Revol<sup>2</sup>, A. Hosmalin<sup>1</sup>

<sup>1</sup> Institut Cochin, Paris, FR

<sup>2</sup> Saint-Louis Hospital, Paris, FR

<sup>3</sup> Ambroise Paré Hospital, Boulogne, FR

<sup>4</sup> New Jersey Medical School, Rutgers, The State University of New Jersey, Newark, NJ, US

# THURSDAY DECEMBER 14, 2017

## ► OP 4.5: In vivo massive expansion of a T-cell clone carrying a defective HIV genome: implication for the measurement of the HIV reservoir

Authors: R. Fromentin<sup>1</sup>, M. Massanella<sup>1</sup>, C. Vandergeeten<sup>3</sup>, K. Barton<sup>4,5</sup>, B. Hiener<sup>4,5</sup>, W.W. Chiu<sup>6,7</sup>, D. Looney<sup>6,7</sup>, M. Ramgopal<sup>8</sup>, D.D. Richman<sup>6,7</sup>, L. Trautmann<sup>9,10</sup>, S. Palmer<sup>4,5</sup>, N. Chomont<sup>1,2</sup>

<sup>1</sup>CRCHUM, Montreal, CA

<sup>2</sup>Université de Montréal, Department of Microbiology, Infectiology and Immunology, Montreal, CA

<sup>3</sup>VGTI-FL, Port St Lucie, US

<sup>4</sup>The Westmead Institute of Medical Research, Sydney, AU

<sup>5</sup>The University of Sydney, Sydney, AU

<sup>6</sup>VA San Diego Healthcare System, San Diego, US

<sup>7</sup>University of California San Diego, San Diego, US

<sup>8</sup>Midway Immunology & Research Center, Fort Pierce, US

<sup>9</sup>Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, US

<sup>10</sup>U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, US

## ► OP 4.6: Gut and blood differ in mechanisms governing HIV transcription/latency

Authors: S. Telwatte<sup>1,2</sup>, S. Lee<sup>2</sup>, M. Somsook<sup>2</sup>, H. Hatano<sup>2</sup>, C. Baker<sup>2</sup>, P. Kim<sup>1</sup>, T.-H. Chen<sup>2</sup>, J. Milush<sup>2</sup>, P. Hunt<sup>2</sup>, S. Deeks<sup>2</sup>, J. K. Wong<sup>1,2</sup>, S. A. Yukl<sup>1,2</sup>

<sup>1</sup>Department of Medicine, San Francisco VA Health Care System, San Francisco, CA, US

<sup>2</sup>Department of Medicine, University of California, San Francisco, San Francisco, CA, US

10.00 – 10.30 Coffee break

10.30  
12.30

## SESSION 5: IMMUNOLOGY OF HIV PERSISTENCE

Chairs: Nicolas Chomont, Université de Montréal, Montreal, CA  
Richard Koup, Bethesda, Maryland, US

### ► OP 5.0: The Role of B Cell Follicles in HIV Replication and Persistence

Author : E. Connick

Division of Infectious Diseases, University of Arizona, AZ, US

### ► OP 5.1: Platelets from HIV-infected cART-treated patients carry infectious viruses and predict poor immunological recovery

Authors: M. Bomsel<sup>1</sup>, F. Real<sup>1</sup>, C. Capron<sup>2</sup>, E. Cramer<sup>2</sup>, E. Rouveix<sup>2</sup>

<sup>1</sup> Institut Cochin, Paris, FR

<sup>2</sup> Ambroise Paré Hospital, Boulogne, FR

### ► OP 5.2: Follicular Regulatory T cell dynamics in peripheral blood and lymphoid tissue during very early treatment initiation in HIV-1 clade C infection

Authors: F. Laher<sup>1</sup>, Z.M. Ndhlovu<sup>1,3</sup>, O. Baiyegunhi<sup>1</sup>, F. Ogunshola<sup>1</sup>, V. Ramsuran<sup>2</sup>, K. Pretorius<sup>1</sup>, N. Mewalal<sup>1</sup>, T. Nkosi<sup>1</sup>, N. Ismail<sup>1</sup>, B. D. Walker<sup>1,3,4</sup>, T. Ndung'u<sup>1,3,5,6</sup>

<sup>1</sup> HIV Pathogenesis Programme, Doris Duke Medical Research Institute, Nelson R. Mandela School of Medicine, University of KwaZulu-Natal, Durban, ZA

<sup>2</sup> KwaZulu-Natal Research Innovation and Sequencing Platform (KRISP), School of Laboratory Medicine and Medical Sciences, University of KwaZulu-Natal, Durban, ZA

<sup>3</sup> Ragon Institute of Massachusetts General Hospital, Massachusetts Institute of Technology, and Harvard University, Cambridge, MA, US

<sup>4</sup> Howard Hughes Medical Institute, Chevy Chase, Maryland, US

<sup>5</sup> Africa Health Research Institute (AHRI), Nelson R. Mandela School of Medicine, University of KwaZulu-Natal, Durban, ZA

<sup>6</sup> Max Planck Institute for Infection Biology, Charitestraße 1, Berlin, DE

► **OP 5.3: Single cell analysis of HIV latency reveals diverse proviral and host cell behavior**

Authors: E. P Browne<sup>1</sup>, T. Bradley<sup>2</sup>, G. Ferrari<sup>2</sup>, B. F Haynes<sup>2</sup> and D. M Margolis<sup>1</sup>

<sup>1</sup> UNC HIV Cure Center and Department of Medicine, University of North Carolina, Chapel Hill, US

<sup>2</sup> Duke University, Human Vaccine Institute, Duke University School of Medicine, Durham, NC, US

► **OP 5.4: BCL-2 Inhibitor Sensitizes the Latent HIV Reservoir to Elimination by CTLs**

Authors: S-H. Huang<sup>1</sup>, Y. Ren<sup>1</sup>, A. Macedo<sup>1</sup>, S. Patel<sup>2</sup>, R.B. Jones<sup>1</sup>, D. Chan<sup>1</sup>, E. Horch<sup>1</sup>, R. Truong<sup>1</sup>,

C. Bollard<sup>2</sup>, A. Bosque<sup>1</sup>

<sup>1</sup> Department of Microbiology, Immunology and Tropical Medicine, George Washington University, Washington, Washington, D.C., US

<sup>2</sup> Center for Cancer and Immunology Research, Children's National Health System, Washington D.C., US

► **OP 5.5: Defining the nature of protective CD8+ T-cell response in lymph nodes of HIV elite controllers**

Authors: M. Betts<sup>1</sup>, S. Nguyen<sup>1</sup>, C. Deleage<sup>2</sup>, S. Deeks<sup>3</sup>, M. Buggert<sup>4</sup>, A. Sada-Japp<sup>1</sup>, A. Naji<sup>1</sup>, G. Reyes-Teran<sup>5</sup>, P. Del Rio Estrada<sup>5</sup>, J. Estes<sup>6</sup>

<sup>1</sup> Department of Microbiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, US

<sup>2</sup> National Institutes of Health, Frederick, US

<sup>3</sup> University of California San Francisco, San Francisco, US

<sup>4</sup> University of Pennsylvania, Philadelphia, US

<sup>5</sup> CIENI-AINER, Mexico City, MX

<sup>6</sup> NIH/NCI, Rockville, Maryland, US

► **OP 5.6: Susceptibility to Neutralization by bnAbs Correlates with Infected Cell Binding for a Panel of Clade B HIV Reactivated from Latent Reservoirs**

Authors: Y. Ren<sup>1</sup>, M. Korom<sup>1</sup>, R. Lynch<sup>1</sup>, R.B. Jones<sup>1</sup>, R. Truong<sup>1</sup>, S.-H. Huang<sup>1</sup>, D. Chan<sup>1</sup>, C. C. Kovacs<sup>2</sup>, E. Benko<sup>2</sup>

<sup>1</sup> Dept. of Microbiology Immunology and Tropical Medicine, The George Washington University, Washington DC, US

<sup>2</sup> Maple Leaf Medical Clinic, Toronto, CA

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10 | 12.30 – 2.00 Lunch

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2.00  
4.00

## SESSION 6: HUMAN STUDIES

Chairs: Sharon Lewin, Doherty Institute University of Melbourne, Melbourne, AU  
Jean-Pierre Routy, McGill University, Montreal, CA

### ► OP 6.0: Current efforts in latency reversal and clearance

Author : D. Margolis

University of North Carolina HIV Cure Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, US

### ► OP 6.1: HIV-seroreversion dynamics after allogeneic stem cell transplantation

Authors: M. Salgado<sup>1</sup>, V. González<sup>2</sup>, B. Rivaya<sup>2</sup>, Cr. Gálvez<sup>1</sup>, M. Kwon<sup>3</sup>, J. Badiola<sup>4</sup>, A. Bandera<sup>5</sup>, B. Jensen<sup>6</sup>, L. Vandekerckhove<sup>7</sup>, K. Raj<sup>8</sup>, M. Nijhuis<sup>9</sup>, Manuel Jurado<sup>4</sup>, J. Schulze zur Wiesch<sup>10</sup>, A. Saez-Cirión<sup>11</sup>, J. Luis Diez-Martin<sup>3</sup>, A. Wensing<sup>9</sup>, J. Martinez-Picado<sup>1</sup>, for the IciStem Consortium

<sup>1</sup> AIDS Research Institute, IrsiCaixa, Badalona, ES

<sup>2</sup> Microbiology Service, University Hospital "Germans Trias i Pujol", Department of Genetics and Microbiology, Autonomous University of Barcelona, Badalona, ES

<sup>3</sup> Hospital Gregorio Marañón, Madrid, ES

<sup>4</sup> University Hospital Virgen de las Nieves, Granada, ES

<sup>5</sup> San Gerardo Hospital - University of Milano-Bicocca, Monza, IT

<sup>6</sup> Heinrich Heine University Hospital, Düsseldorf, DE

<sup>7</sup> HIV Cure Research Center, Ghent University, Ghent, BE

<sup>8</sup> Kings College Hospital, London, UK

<sup>9</sup> University Medical Center Utrecht, Utrecht, NL

<sup>10</sup> Cellex, Dresden, DE

<sup>11</sup> Pasteur Institute, Paris, FR

### ► OP 6.2: Sequencing HIV proviruses over time provides new insights into reservoir decay

Authors: D. J. VanBelzen<sup>1</sup>, S. Weissman<sup>1</sup>, W.-T. Hwang<sup>2</sup>, B. Sherman<sup>3</sup>, U. O'Doherty<sup>1</sup>

<sup>1</sup> Department of Pathology and Cellular Therapeutics, University of Pennsylvania, Philadelphia, PA, US, US

<sup>2</sup> Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, PA, US, US

<sup>3</sup> Laboratory of Human Retrovirology and Immunoinformatics, Frederick National Laboratories for Cancer Research, Leidos Biomedical Research, Inc. Supporting the Division of Clinical Research, NIAID, US

### ► OP 6.3: Brief ATI does not alter the size or composition of the latent HIV-1 reservoir

Authors: Katharine J Bar<sup>1</sup>, Brenda Salantes<sup>1</sup>, Yu Zheng<sup>2</sup>, Felicity Mampe<sup>1</sup>, Subul Beg<sup>3</sup>, Jun Lai<sup>3</sup>, Randal Tressler<sup>4</sup>, Richard Koup<sup>5</sup>, James Hoxie<sup>1</sup>, Mohamed Abdel Mohsen<sup>1</sup>, Robert Siliciano<sup>3</sup>, Janet M. Siliciano<sup>3</sup>, Edgar T. Overton<sup>6</sup>, and Pablo Tebas<sup>1</sup>, for the ACTG A5340 clinical trial team.

<sup>1</sup> University of Pennsylvania, US

<sup>2</sup> Harvard University, US

<sup>3</sup> Johns Hopkins University, US

<sup>4</sup> National Institutes of Health, US

<sup>5</sup> Vaccine Research Center, US

<sup>6</sup> University of Alabama Birmingham, US

► **OP 6.4: No Residual Virus Replication in a Randomised Trial of Dolutegravir Intensification**

Authors: T. A Rasmussen<sup>1,2</sup>, J. McMahon<sup>3</sup>, J. Chang<sup>1</sup>, J. Audsley<sup>1</sup>, A. Rhodes<sup>1</sup>, S. Tennakoon<sup>1</sup>, A. Dantanarayana<sup>1</sup>, T. Spelman<sup>1,3</sup>, T. Schmidt<sup>4</sup>, S. J Kent<sup>1,3,4</sup>, V. Morcilla<sup>5</sup>, S. Palmer<sup>5</sup>, J. Elliott<sup>3</sup>, S. R Lewin<sup>1,3</sup>

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

<sup>2</sup> Department of Infectious Diseases, Aarhus University Hospital, Aarhus, DK

<sup>3</sup> Department of Infectious Diseases, Alfred Hospital and Monash University, Melbourne, AU

<sup>4</sup> Melbourne Sexual Health Centre, Alfred Health, Melbourne, AU

<sup>5</sup> Centre for Virus Research, The Westmead Institute for Medical Research, The University of Sydney, Sydney, AU

► **OP 6.5: A phase 2 trial to evaluate the effects of 3BNC117 in addition to antiretroviral therapy on the latent reservoir and viral rebound**

Authors: J. Lorenzi, Y. Cohen, L. Burke, M. Caskey, M. Nussenzweig

The Rockefeller University, New York, US

► **OP 6.6: Single Romidepsin infusions do not increase HIV expression in persons on ART (A5315)**

Authors: D. McMahon<sup>1</sup>, L. Zheng<sup>2</sup>, J. Cykota J<sup>1</sup>, E. Aga E<sup>2</sup>, B.J. Macatangay<sup>1</sup>, C. Godfrey<sup>3</sup>, M. Para<sup>4</sup>, R. Mitsuyasu<sup>5</sup>, E. Hogg<sup>6</sup>, J. Hesselgesser<sup>7</sup>, E. Acosta<sup>8</sup>, R.T. Gandhi<sup>9</sup>, J.W. Mellors<sup>1</sup> for the A5315 Team

<sup>1</sup> University of Pittsburgh, Pittsburgh, PA, US

<sup>2</sup> Harvard T.H. Chan Sch Pub Health, Boston, MA, US

<sup>3</sup> National Inst of Allergy and Inf Diseases, Bethesda, MD, US

<sup>4</sup> Ohio State Univ Med Ctr, Columbus, OH, US

<sup>5</sup> UCLA Care Center, Los Angeles, CA, US

<sup>6</sup> Social & Scientific Systems, Silver Spring, MD, US

<sup>7</sup> Gilead Sciences, Inc., Foster City, CA, US

<sup>8</sup> University of Alabama, Birmingham, AL, US

<sup>9</sup> Massachusetts General Hospital, Boston, MA, US

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⌚ 4.00 – 7.00 Poster viewing with wine & cheese tasting

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8.00  
10.00

## SESSION 7: NEW THERAPEUTIC APPROACHES I

Chairs: Romas Gelezunas, Senior Director in Biology at Gilead Sciences Foster City, US  
Jan Van Lunzen, Global medical Director, ViiV Healthcare, London, UK

### ► OP 7.0: Early lessons from shock and kill trials

Author: Ole Schmeltz Søgaard

Associate Professor and MD at the Department of Infectious Diseases, Aarhus University Hospital, DK

### ► OP 7.1: Improved HIV-1 Clearance with BIT225 in the HIV-1 Infected Humanised Mouse Model

Authors: J. Wilkinson<sup>1</sup>, G. Ewart<sup>1</sup>, S. Tabruyn<sup>2</sup>, K. Howangyin<sup>2</sup>, C. Luscombe<sup>1</sup>

<sup>1</sup> Biotron Limited, Sydney, AU

<sup>2</sup> TransCure bioServices SAS, Archamps, FR

### ► OP 7.2: In vivo suppression of HIV rebound by didehydro-Cortistatin A, a “block-and-lock” strategy for HIV-1 cure

Authors: C.F. Kessing<sup>1, 5</sup>, C.C. Nixon<sup>2, 5</sup>, C. Li<sup>1, 5</sup>, P.M. Tsai<sup>2</sup>, H. Takata<sup>3, 4</sup>, G. Mousseau<sup>1</sup>, P.T. Ho<sup>2</sup>, J.B. Honeycutt<sup>2</sup>, M. Fallahi<sup>1</sup>, L. Trautmann<sup>3, 4</sup>, J.V. Garcia<sup>2\*</sup>, S.T. Valente<sup>1, 6\*</sup>

<sup>1</sup> The Scripps Research Institute, Jupiter, FL, US

<sup>2</sup> University of North Carolina, School of Medicine, Chapel Hill, NC, US

<sup>3</sup> Walter Reed Army Institute of Research, Silver Spring, MD, US

<sup>4</sup> Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, US

<sup>5</sup> These authors contributed equally

### ► OP 7.3: Properties of eCD4-Ig relevant to reducing the viral reservoir

Authors: M. Farzan, M. Gardner, M. Davis-Gardner, C. Fellinger, I. Fetzer

The Scripps Research Institute, Jupiter, Florida, US

### ► OP 7.4: Treatment with native heterodimeric IL-15 increases cytotoxic lymphocytes in lymph nodes and reduces SHIV RNA

Authors: G. Pavlakis<sup>1</sup>, D.C. Watson<sup>1</sup>, E. Moysi<sup>1, 5</sup>, A. Valentin<sup>1</sup>, C. Bergamaschi<sup>1</sup>, S. Devasundaram<sup>1</sup>, S.P. Fortis<sup>1</sup>, J. Bear<sup>1</sup>, E. Chertova<sup>3</sup>, J. Bess Jr.<sup>3</sup>, R. Sowder<sup>3</sup>, D.J. Venzon<sup>4</sup>, C. Deleage<sup>3</sup>, J.D. Estes<sup>3</sup>, J.D. Lifson<sup>3</sup>, C. Petrovas<sup>5</sup>, B.K. Felber<sup>1</sup>

<sup>1</sup> Human Retrovirus Section and Human Retrovirus Pathogenesis Section, Vaccine Branch, CCR, National Cancer Institute at Frederick, Frederick, US

<sup>3</sup> AIDS and Cancer Virus Program, Leidos Biomedical Research, Inc., FNLCR, Frederick, US

<sup>4</sup> Biostatistics and Data Management Section, CCR, National Cancer Institute, Rockville, US

<sup>5</sup> Vaccine Research Center, National Institute of Allergy and Infectious Diseases, Bethesda, US

## FRIDAY DECEMBER 15, 2017

### ► OP 7.5: The human IL-15 superagonist complex ALT-803 drives SIV-specific CD8 + T cells into B cell follicles

Authors: G. Webb<sup>1</sup>, S. Li<sup>2</sup>, G. Mwakalundwa<sup>2</sup>, J.S. Reed<sup>1</sup>, J.J. Stanton<sup>1</sup>, A.W. Legasse<sup>1</sup>, J. Folkvord<sup>3</sup>, B.S. Park<sup>1</sup>, M.K. Axthelm<sup>1</sup>, E.K. Jeng<sup>4</sup>, H.C. Wong<sup>4</sup>, J.B. Whitney<sup>5</sup>, R. Brad Jones<sup>6</sup>, D.F. Nixon<sup>6</sup>, E. Connick<sup>3</sup>, P.J. Skinner<sup>2</sup>, J.B. Sacha<sup>1</sup>

<sup>1</sup> Oregon Health and Science University, Beaverton, US

<sup>2</sup> University of Minnesota, Minneapolis, MN, US

<sup>3</sup> University of Arizona, Tucson, AZ, US

<sup>4</sup> Altor Bioscience Corporation, Miramar, FL, US

<sup>5</sup> Ragon Institute, Harvard Medical School, Cambridge, MA, US

<sup>6</sup> George Washington University, Washington DC, US

### ► OP 7.6: Preclinical Development of a Bispecific HIV x CD3 DART Molecule that Redirects T Cells to Kill HIV Envelope (env)-expressing Cells

Authors: J. L. Nordstrom<sup>1</sup>, C. Nixon<sup>3</sup>, J. Pickeral<sup>2</sup>, Ch.-Y. Kao Lam<sup>1</sup>, L. Liu<sup>1</sup>, H. Li<sup>1</sup>, S. Sharma<sup>1</sup>, S. Gorlatov<sup>1</sup>, F. Chen<sup>1</sup>, K. Sampathkumar<sup>1</sup>, G. D. Tomaras<sup>2</sup>, S. M. Alam<sup>2</sup>, P. Tsai<sup>3</sup>, T. Morgan<sup>3</sup>, P.T. Ho<sup>3</sup>, B. F. Haynes<sup>2</sup>, G. Ferrari<sup>2</sup>, J. A. Sung<sup>3</sup>, D. M. Margolis<sup>3</sup>, J. Victor Garcia<sup>3</sup>, S. Koenig<sup>1</sup>

<sup>1</sup> MacroGenics, Inc., Rockville, MD, US

<sup>2</sup> Duke University, Durham, NC, US

<sup>3</sup> University of North Carolina at Chapel Hill, Chapel Hill, US

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 10.00 – 10.30 Coffee break

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10.30  
12.30**SESSION 8: NEW THERAPEUTIC APPROACHES II**

Chairs: Javier Martinez Picado, AIDS Research Institute IrsiCaixa, ICREA & UVic-UCC, Barcelona, ES  
 Andrea Savarino, National Institute of Health, Roma, IT

► **OP 8.0: New therapeutic strategies to cure HIV: so close, so far**

Author: J. Martinez Picado

AIDS Research Institute IrsiCaixa, ICREA & UVic-UCC, Barcelona, ES

► **OP 8.1: HIV-Specific T Cells Generated from HIV-Naive Adult and Cord Blood Donors Target a Range of Novel Viral Epitopes – Implications for a Cure Strategy after Allogeneic HSCT and CBT**

Authors: S. Patel<sup>1,2</sup>, R.B. Jones<sup>2</sup>, E. Shpall<sup>3</sup>, D. Margolis<sup>3</sup>, C.M. Bolland<sup>1,2</sup>, E. Williams<sup>1</sup>; S. Albihani<sup>1</sup>; S. Lam<sup>1</sup>; J. A.M. Sung<sup>3</sup>; C. Russell Cruz<sup>1,2</sup>; R. F. Ambinder<sup>5</sup>

<sup>1</sup> Center for Cancer and Immunology Research, Children's National Health System, Washington, DC, US

<sup>2</sup> Microbiology, Immunology, and Tropical Medicine, The George Washington University, Washington DC, US

<sup>3</sup> University of North Carolina HIV Cure Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, US

<sup>4</sup> Department of Stem Cell Transplantation and Cellular Therapy, The University of Texas MD Anderson Cancer Center, Houston, TX, US

<sup>5</sup> Sidney Kimmel Comprehensive Cancer Center, The Johns Hopkins University School of Medicine, Baltimore, MD, US

► **OP 8.2: Oral ABX464 reduces the HIV DNA reservoir IN CD4+ Peripheral Blood T Cells**

Authors: J-M. Steens<sup>1</sup>, R. Cranston<sup>2</sup>, J. Martinez-Picado<sup>2</sup>, R. Paredes<sup>2</sup>, B. Clotet<sup>2</sup>, P. Gineste<sup>1</sup>, H. Ehrlich<sup>1</sup>, I. McGowan<sup>2</sup>

<sup>1</sup> Abivax, Paris, FR

<sup>2</sup> IrsiCaixa Institute for AIDS Research, Badalona, ES

<sup>3</sup> University of Pittsburgh, Pittsburgh, US

► **OP 8.3: Interim Safety Analysis of Cancer Immunotherapy Trials Network – 12 (CITN-12): A Phase 1 Study of Pembrolizumab in Patients with HIV and Cancer**

Authors: T. S. Uldrick<sup>1</sup>, M. A. "Mac" Cheever<sup>2</sup>, P.H. Gonçalves<sup>1</sup>, S. Fling<sup>2</sup>, K. Aleman<sup>1</sup>, B. Emu<sup>3</sup>, M. S. Ernstoff<sup>4</sup>, R. Gorelick<sup>5</sup>, J. Kaiser<sup>2</sup>, H. E Kohrt<sup>6</sup>, A. Lacroix<sup>2</sup>, M. Lindsley<sup>1</sup>, L. M Lundgren<sup>2</sup>, K. Lurain<sup>1</sup>, F. Maldarelli<sup>7</sup>, Ch. Parsons<sup>8</sup>, E. Sharon<sup>9</sup>, A. Widell<sup>1</sup>, R. Yarchoan<sup>1</sup>

<sup>1</sup> National Cancer Institute, HIV & AIDS Malignancy Branch, Bethesda, US

<sup>2</sup> Cancer Immunotherapy Trials Network/Fred Hutchinson Cancer Res Center, Seattle, US

<sup>3</sup> Yale University, Medicine/Oncology, New Haven, US

<sup>4</sup> Roswell Park Cancer Institute, Buffalo, US

<sup>5</sup>.National Cancer Institute at Frederick, AIDS and Cancer Virus Program, Frederick MD, US

<sup>6</sup> Stanford University, Medicine/Oncology, Stanford, US

<sup>7</sup> National Cancer Institute, HIV Dynamics and Replication Program, Frederick, MD, US

<sup>8</sup> Louisiana State University Health Science Center, New Orleans, US

<sup>9</sup> National Cancer Institute, Cancer Therapy and Evaluation Program, Bethesda, US

► **OP 8.4: Direct and indirect effects of synthetic dual TLR-2 and TLR-7 agonists (Dual TLR-2/7) on latent HIV**

Authors: A. B. Macedo<sup>1</sup>, C. L. Novis<sup>2</sup>, A. M. Spivak<sup>3</sup>, V. Planelles<sup>2</sup>, J. Szu-han Huang<sup>1</sup>, Y. Ren<sup>1</sup>, R. Brad Jones<sup>1</sup>, A. Bosque<sup>1</sup>.

<sup>1</sup> Department of Microbiology, Immunology and Tropical Medicine, George Washington University, Washington, District of Columbia, US

<sup>2</sup> Division of Microbiology and Immunology, Department of Pathology, University of Utah School of Medicine, Salt Lake City, Utah, US

<sup>3</sup> Division of Infectious Diseases, Department of Medicine, University of Utah School of Medicine, Salt Lake City, Utah, US

► OP 8.5: Partial control of viral rebound with a Rev-dependent lentiviral vector carrying HSV-tk gene in SIV-infected rhesus macaques

Authors: Y. Wu<sup>1</sup>, B. Hetrick<sup>1</sup>, S. Iqbal<sup>2</sup>, B. Ling<sup>2</sup>

<sup>1</sup> National Center for Biodefense and Infectious Diseases, School of System Biology, George Mason University, Manassas, US

<sup>2</sup> Tulane National Primate Research Center, Covington, US

► OP 8.6: Chronically Treated HIV + Subjects Can Naturally Harbor Extremely Low Viral Reservoir

Authors: C. Galvez Celada<sup>1</sup>, J. Dalmau<sup>1</sup>, F. Garcia<sup>2</sup>, J. Martinez-Picado<sup>1,3,5</sup>, M. Salgado<sup>1</sup>, V. Urrea<sup>1</sup>, B Clotet<sup>1,2,3</sup>, L. Leal<sup>4</sup>, F. García<sup>4</sup>

<sup>1</sup> AIDS Research Institute IrsiCaixa, Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol, Universitat Autònoma de Barcelona, Badalona, ES

<sup>2</sup> Fundació Lluita contra la SIDA, Badalona, ES

<sup>3</sup> Universitat de Vic-Central de Catalunya, UVIC-UCC, Vic, ES

<sup>4</sup> Infectious Diseases Department, Hospital Clínic, University of Barcelona, Barcelona, ES

<sup>5</sup> ICREA, Barcelona, ES

12.30

### CLOSING CEREMONY

# POSTER PRESENTATION

## SESSION 1: BASIC SCIENCE OF HIV LATENCY I

- PP 1.0: Insights into mechanisms of HIV reactivation from latency using RNA-Seq gene expression profiling in CD4+ T cells and their maturation subsets following treatment with latency reversing agents.

Authors: N. Beliakova-Bethell<sup>1</sup>, H. Abewe<sup>2</sup>, A. Mukim<sup>1</sup>, S. Deshmukh<sup>1</sup>, C. Spina<sup>1</sup>

<sup>1</sup> VA San Diego Healthcare System, San Diego, US

<sup>2</sup> University of California, San Diego, La Jolla, US

- PP 1.1: Whole genome sequencing of single HIV provirus and its proviral integration site for the study of HIV latency

Authors: C. Sun, J. Mullins<sup>2</sup>, A. Abate<sup>1</sup>

<sup>1</sup> Department of Bioengineering and Therapeutic Sciences, California Institute for Quantitative Biosciences, University of California, San Francisco, California, US

<sup>2</sup> Department of Microbiology, University of Washington, Seattle, Washington, US

- PP 1.2: CD4+ T-cell activation does not lead to expression of latent infection

Authors: N. A Kumar, J. McBrien, M. Mavigner, C. Robinson, E. White, F. Viviano, D. Carnathan, A. Chahroudi, G. Silvestri, T. Vanderford

Yerkes National Primate Centre, School of Medicine, Emory University, US

- PP 1.4: Integration site-independent enhancement of latency reversal by HIV-1 Nef

Authors: X. T. Kuang<sup>1</sup>, S. W. Jin<sup>1</sup>, T. M. Markle<sup>1</sup>, Mark A. Brockman<sup>1,2</sup>

<sup>1</sup> Simon Fraser University, Burnaby, CA

<sup>2</sup> British Columbia Centre for Excellence in HIV/AIDS, Vancouver, CA

- PP 1.5: A modified viral outgrowth assay incorporating ultra-sensitive P24 measurements

Authors: N. Archin, E. Stuelke, S. Katherine, J. Kirchherr, D. Margolis

UNC HIV Cure Center, University of North Carolina, Chapel Hill, US

- PP 1.6 Regulation of HIV-1 provirus and CD4+ T cell biology by transcriptional coregulators

Authors: B. C. Nikolai<sup>2,3</sup>, B. York<sup>3</sup>, A. P. Rice<sup>1</sup>, Qin. Feng<sup>3</sup>, B. W. O'Malley<sup>2,3</sup>

<sup>1</sup>Center for Reproductive Medicine, Baylor College of Medicine, Houston, TX, US

<sup>2</sup>Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, US

<sup>3</sup>Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, TX, US

- PP 1.7: Developing an in vitro model for HIV-1 latency in Tfh cells using tonsillar tissue

Authors: B. Luttge, C. Dobrowolski, M.A. Checkley, J. Karn

Department of Molecular Biology & Microbiology, Case Western Reserve University School of Medicine, Cleveland, Ohio, US

- PP 1.8: Histone Lysine Methyltransferases Selectively Restrict HIV In Central Memory T-cells

Authors: C. Dombrowski, K. Nguyen, J. Karn

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Department of Molecular Biology and Microbiology, School of Medicine, Cleveland, US

# POSTER PRESENTATION

## ► PP 1.9: Identification of a new factor involved in DNA methylation-mediated repression of latent HIV-1

Authors: C. Van Lint<sup>1</sup>, S. Bouchat<sup>1</sup>, R. Verdikt<sup>1</sup>, B. Van Driessche<sup>1</sup>, A. Pasternak<sup>2</sup>, G. Darcis<sup>1, 2, 3</sup>, N. Delacourt<sup>1</sup>, C. Vanhulle<sup>1</sup>, V. Avettand-fenoel<sup>4</sup>, V. Ledouce<sup>5</sup>, C. Schwartz<sup>6</sup>, C. Necsoi<sup>7</sup>, S. De Wit<sup>7</sup>, B. Berkhouit<sup>3</sup>, V. Gautier<sup>5</sup>, C. Rouzioux<sup>4</sup>, O. Rohr<sup>6, 8</sup>.

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<sup>4</sup> Service de Virologie, Université Paris-Descartes, AP-HP, Hôpital Necker-Enfants Malades, FR

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<sup>8</sup> Institut Universitaire de Technologie Louis Pasteur de Schiltigheim, University of Strasbourg, FR

## ► PP 1.10: Upregulation of the Nrf2 antioxidant pathway characterizes the transition from productive to latent infection in CD4+ T-cells

Authors: I. Shytaj<sup>1,2,\*</sup>, B. Lucic<sup>1,2, \*</sup>, S. Bicciato<sup>3</sup>, M. Forcato<sup>3</sup>, O. Romano<sup>3</sup>, E. Battivelli<sup>4</sup>, E. Verdin<sup>4</sup>, A. Savarino<sup>5</sup>, M. Lusic<sup>1,2</sup>

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<sup>4</sup> Buck Institute for Aging, Novato, California, US

<sup>5</sup> Department of Infectious and Immune-Mediated Diseases, Italian Institute of Health, Rome, IT

\*equal contribution

## ► PP 1.11: Identification of macrophage reservoirs through tropism of HIV-1 envelope

Authors: V. Machado<sup>1</sup>, T. Alvarado<sup>1</sup>, L. Barrios<sup>1</sup>, A. Morales<sup>1</sup>, M. Sharkey<sup>1</sup>, C. Mavian<sup>2</sup>, M. Salemi<sup>2</sup>, M. Stevenson<sup>1</sup>

<sup>1</sup> Miller School of Medicine, University of Miami, Miami, US

<sup>2</sup> Department of Pathology, University of Florida, US

## SESSION 2: BASIC SCIENCE OF HIV LATENCY II

### ► PP 2.0: Targeted Screens Identify New Chromatin Regulators of HIV Latency

Authors: A.-M. Turner<sup>1</sup>, R. Dronamraju<sup>2</sup>, B. Strahl<sup>2</sup>, L. James<sup>3</sup>, D. Margolis<sup>1</sup>

<sup>1</sup> HIV Cure Center, University of North Carolina, Chapel Hill, US

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<sup>3</sup> Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, US

### ► PP 2.1: QVOA Coupled With Digital p24 Analysis Enhances HIV Reservoir Quantification

Authors: E. R. Wonderlich<sup>1</sup>, Y. V. Kuzmichev<sup>1</sup>, C. Lackman-Smith<sup>1</sup>, M. K. Mankowski<sup>1</sup>, C. N. Raney<sup>1</sup>, H. P. Madeira<sup>1</sup>, J. Wei<sup>1</sup>, R. Bernbaum<sup>1</sup>, K. Subramanian<sup>1</sup>, R. L. Jarrett<sup>1</sup>, E. R. Nordgren<sup>1</sup>, M. Stone<sup>2</sup>, M. P. Busch<sup>2</sup>, R. G. Ptak<sup>1</sup>, D. A. Kulpa<sup>1,3</sup>

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<sup>2</sup> Blood Systems Research Institute, San Francisco, US

<sup>3</sup> Department of Pediatrics, Emory University, Atlanta, US. Present affiliation: Battelle Memorial Institute, Frederick, US

# POSTER PRESENTATION

## ► PP 2.2: Activation of mature dendritic cells via PKC agonist induces HIV-1 reactivation of latently infected cells

Authors: S. Benet<sup>1</sup>, I. Erkizia<sup>1</sup>, J. Martinez-Picado<sup>2</sup>, N. Izquierdo-Useros<sup>1</sup>

<sup>1</sup> AIDS Research Institute IrsiCaixa, Barcelona, ES

<sup>2</sup> AIDS Research Institute IrsiCaixa, ICREA, Barcelona, ES

## ► PP 2.3: Single-cell transcriptomics to evaluate HIV latency establishment in primary CD4 T cells

Authors: L. De Armas, S. Williams, K. Russell, L. Pan, S. Pahwa

University of Miami, Miami, US

## ► PP 2.4: Quantitation of the CD4+ T cell and Macrophage Reservoirs in SIV-infected ART-Suppressed Macaques: Two Functional Latent Reservoirs

Authors: J. Clements<sup>1</sup>, F. Mac Gabhann<sup>2</sup>, J. Mankowski<sup>1</sup>, L. Gama<sup>1</sup>, C. Abreu<sup>1</sup>

<sup>1</sup> Johns Hopkins School of Medicine, Baltimore, US

<sup>2</sup> Johns Hopkins University, Baltimore, US

## ► PP 2.5: Lack of transcriptional latency in infected primary cells in the presence of exosomes and cART.

Authors: C. DeMarino<sup>1</sup>, R. Barclay<sup>1</sup>, M. Pleet<sup>1</sup>, G. Sampey<sup>1</sup>, S. Iordanskiy<sup>1</sup>, B. Lepene<sup>2</sup>, N. El-Hage<sup>3</sup>, F. Kashanchi<sup>1</sup>.

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<sup>2</sup> Ceres Nanosciences Inc., Manassas, Virginia, US

<sup>3</sup> Department of Immunology, Herbert Wertheim College of Medicine, Miami, US

## ► PP 2.6: DNA-PK regulates HIV transcription and latency by supporting the activity of RNA polymerase II and the recruitment of transcription machinery at HIV LTR

Authors: M. Tyagi, Z. Sonia, L. Sun, L. Dubrovsky, M. Bukrinsky

George Washington University, Washington DC, US

## ► PP 2.7: Using barcoded HIV-1 to understand inducibility of the latent HIV-1 reservoir

Authors: E. Larragoite, E. Williams, V. Planelles

Department of Pathology University of Utah, Salt Lake City, US

## ► PP 2.8: Increased Expression and Phosphorylation of SAMHD1 in SIV and HIV Encephalitis Is Associated with Proliferation of Brain Macrophages

Authors: A. A. Lindgren, A. R. Filipowicz, J. B. Hattler, S. Ok Kim, H. K. Chung, M. J. Kuroda, E. M. Johnson, W-Ki Kim

Eastern Virginia Medical School, Norfolk, US

## ► PP 2.9: T-cell signaling pathways leading to reactivation of P-TEFb and HIV transcription elongation in resting memory T cells

Authors: U. Mbonye<sup>1</sup>, S. Yang<sup>2</sup>, B. Wang<sup>2</sup>, W. Shi<sup>2</sup>, J. Karn<sup>1</sup>

<sup>1</sup> Department of Molecular Biology and Microbiology, Cleveland US, US

<sup>2</sup> Center for Proteomics and Bioinformatics, Cleveland US, US

## ► PP 2.11: SIV proviral landscape differs from that of HIV-1 and shows gross hypermutation

Authors: A.J. Murray<sup>1</sup>, K.M. Bruner, M.R. Kumar<sup>1</sup>, A.E. Timmons<sup>1</sup>, P-T Liu<sup>1</sup>, J.E. Clements<sup>1</sup>, D.H Barouch<sup>1</sup>, J.D. Siliciano<sup>1</sup>, RF Siliciano<sup>1</sup>

<sup>1</sup> Johns Hopkins School of Medicine, Baltimore, US

## ► PP 2.12 : CD4+ T Cells Expressing CD32 From HIV-1+ Patients Are Not Enriched for Proviral DNA

Authors: A. M. Spivak, R. A. Nell, M. L. Coletti, L. J. Montaner, V. Planelles

University of Utah, Salt Lake City, US

# POSTER PRESENTATION

## SESSION 3: IN VITRO AND ANIMAL MODEL STUDIES OF HIV PERSISTENCE

### ► PP 3.0: Persistence of SIV in the brain of SIV-infected Chinese rhesus macaques with or without antiretroviral therapy

Authors: B. Ling<sup>1,5</sup>, S. Perez<sup>1</sup>, A.M. May<sup>1</sup>, R. S. Veazey<sup>1,6</sup>, Y. Wu<sup>7</sup>, A.-M. Johnson<sup>1</sup>, S.-H. Xiang<sup>2</sup>, J. Li<sup>3</sup>, B.T Foley<sup>4</sup>, L. Doyle-Meyers<sup>1</sup>, A. Panganiban<sup>1,5</sup>, A. Kaur<sup>1,5</sup>

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<sup>7</sup> National Center for Biodefense and Infectious Diseases, Department of Molecular and Microbiology, George Mason University, Manassas VA, US

### ► PP 3.1: Evaluation of the In Vivo Capacity of Broadly Neutralizing anti-HIV Antibodies to Eliminate Latently Infected Cells from HIV-infected Individuals Using a Novel Humanized Mouse Model

Authors: N. Flerin<sup>1</sup>, M. Korom<sup>2</sup>, R. Lynch<sup>2</sup>, B. Jones<sup>2</sup>, H. Goldstein<sup>1</sup>, A. Bardhi<sup>1</sup>, J. Hua Zheng<sup>1</sup>

<sup>1</sup> Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, US

<sup>2</sup> Department of Microbiology, Immunology, and Tropical Medicine, The George Washington University, Washington DC, US

### ► PP 3.2: Assessing Antiretroviral Drug (ARV) Bioavailability in HIV Tissue Reservoirs using In Vitro and In Vivo Pharmacokinetic (PK) Studies with Human Primary Lymphoid Endothelial Cells and Mice

Authors: S. Dyavar<sup>1</sup>, A. Podany<sup>1</sup>, N. Gautam<sup>2</sup>, Y. Alnouti<sup>2</sup>, C. Fletcher<sup>1</sup>, L. Winchester<sup>1</sup>, T. Mykris<sup>1</sup>, J. Weinhold<sup>1</sup>, K. Campbell<sup>1</sup>

<sup>1</sup> Antiviral pharmacology laboratory, College of Pharmacy, University of Nebraska Medical Center, Omaha, US

<sup>2</sup> Department of pharmaceutical sciences, College of pharmacy, University of Nebraska Medical Center, Omaha, US

### ► PP 3.4: Next generation viral outgrowth assays as proxies for classic QVOA to measure HIV-1 reservoir size

Authors: M. Stone<sup>1</sup>, D. Rosenbloom<sup>2</sup>, P. Bacchetti<sup>3</sup>, X. Deng<sup>1</sup>, M. Busch<sup>1</sup>, M. Dimapasoc<sup>1</sup>, S. Keating<sup>1,6</sup>, D. Richman<sup>6</sup>, J. Mellors<sup>5</sup>, S. Deeks<sup>4</sup>, J. Siliciano<sup>7</sup>, N. Chomont<sup>9</sup>, R. Ptak<sup>8</sup>, RAVEN Study Group

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<sup>8</sup> Southern Research, Frederick, MD, US

<sup>9</sup> Université de Montréal, Department of Microbiology, Infectiology and Immunology, Montreal, CA

### ► PP 3.5: Broadly Neutralizing Antibody Cocktail Prevents the Establishment of Viral Reservoir Against a Mixed SHIV Challenge

Authors: P-T. Liu, B. Julg, P. Abbink, D. H. Barouch

Harvard Medical School, Boston, US

# POSTER PRESENTATION

## ► PP 3.6: Novel SHIVs Encoding Transmitted/Founder Envs for Latency and Cure Research

Authors: K. Bar<sup>1</sup>, A. Bauer<sup>1</sup>, R. Veazey<sup>2</sup>, H. Li<sup>1</sup>, G. Shaw<sup>1</sup>, F.-H. Lee<sup>1</sup>, M. Watkins<sup>2</sup>

<sup>1</sup> University of Pennsylvania, Philadelphia, US

<sup>2</sup> Tulane University, New Orleans, US

## ► PP 3.7: HIV latency reversal using designed PKC modulators

Authors: M. D. Marsden<sup>1</sup>, T. W. Chun<sup>2</sup>, P. A. Wender<sup>3</sup>, J. A. Zack<sup>1</sup>

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<sup>2</sup> National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, US

<sup>3</sup> Stanford University, Stanford, California, US

## ► PP 3.8: In vitro and in vivo quantification of HIV-induced neuroinflammation and effect of antiviral agents in primary human microglia and a murine HAND model

Authors: C. Gavegnano<sup>1</sup>, W. B. Haile<sup>2,3</sup>, C. Montero<sup>1</sup>, W. R. Tyor<sup>2,3</sup>, F. Schinazi<sup>1</sup>

<sup>1</sup> Center for AIDS Research, Department of Pediatrics, US

<sup>2</sup> Department of Neurology, Emory University, Atlanta, US

<sup>3</sup> Veterans Affairs Medical Center, Atlanta, US

## ► PP 3.10: Influence of sex as an intrinsic biological variable in a primary cell model of HIV latency

Authors: A. B. Macedo<sup>1</sup>, L. J. Martins<sup>2</sup>, A. M. Spivak<sup>3</sup>, M. A. Szaniawski<sup>2</sup>, V. Planelles<sup>2</sup>, A. Bosque<sup>1</sup>

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<sup>3</sup> Division of Infectious Diseases, Department of Medicine, University of Utah School of Medicine, Salt Lake City, Utah, US

## ► PP 3.11: Visualization and quantification of HIV dissemination and reservoirs using in vivo imaging

Authors: W-B. Young<sup>1</sup>, X. Qu<sup>2</sup>, G. Wu<sup>2</sup>

<sup>1</sup> Temple University, Philadelphia, US,

<sup>2</sup> University of Pittsburgh, Pittsburgh, US

## ► PP 3.12: Differential viral rebound between lymph node and colon after treatment interruption in SHIV-infected rhesus macaques

Authors: D. C. Hsu<sup>1,2,3</sup>, D. Silsorn<sup>1</sup>, D. Inthawong<sup>1</sup>, Y. Kuncharin<sup>1</sup>, J. Sopanaporn<sup>1</sup>, S. Tayamun<sup>1</sup>, R. Im-Erbsin<sup>1</sup>, C. Ege<sup>1</sup>, M. Wegner<sup>1</sup>, P. Sunyakumthorn<sup>1</sup>, R. J. O'Connell<sup>1,2</sup>, N. L. Michael<sup>2</sup>, S. Vasani<sup>1,2,3</sup>

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<sup>2</sup> US Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, US

<sup>3</sup> Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, US

## ► PP 3.13: Multiple NF- $\kappa$ B elements in the LTR of HIV-1 subtype C coordinate with the auto-regulatory circuit of Tat to drive rapid establishment of latency

Authors: S. Chakraborty, M. Kabi, U. Ranga

HIV-AIDS Laboratory, MBGU, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, IN

# POSTER PRESENTATION

## SESSION 4: VIROLOGY OF HIV PERSISTENCE

### ► PP 4.0: Intrinsic resistance of HIV-1 to SAMHD1 restriction permits efficient macrophage infection

Authors: T. Plitnik<sup>1</sup>, M. Stevenson<sup>2</sup>, M. Sharkey<sup>2</sup>

<sup>1</sup> Dept.of Microbiology & Immunology, Miller School of Medicine, University of Miami, Miami, US

<sup>2</sup> Dept.of Medicine, Miller School of Medicine, University of Miami, Miami, US

### ► PP 4.1: Measurement and characterization of the latent reservoir for HIV-1 in patients receiving solid organ transplant

Authors: A. Martin<sup>1</sup>, C. Durand<sup>2</sup>, T. Quinn<sup>1</sup>, R. Siliciano<sup>2</sup>, A. Redd<sup>1</sup>

<sup>1</sup> National Institutes of Health, Bethesda, US

<sup>2</sup> Johns Hopkins School of Medicine, Baltimore, US

### ► PP 4.2: Enrichment of HIV proviral DNA from mononuclear leukocytes for next-generation sequencing of integration sites

Authors: C. Williams-Wietzikoski<sup>1</sup>, S. McLaughlin<sup>1,2</sup>, W. Deng<sup>3</sup>, R. Milne<sup>1</sup>, L. Frenkel<sup>1,2</sup>

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<sup>2</sup>University of Washington, Seattle Childrens Research Institute, Seattle, US

<sup>3</sup>University of Washington, Seattle, US

### ► PP 4.3: Infection of astrocytes by a virus isolated from CSF cells of an HIV-positive patient virologically suppressed with ART

Authors: G. Li<sup>1</sup>, B. Smith<sup>1</sup>, H. Imamichi<sup>2</sup>, L. Henderson<sup>1</sup>, S. Steinbach<sup>1</sup>, C. Lane<sup>2</sup> and A. Nath<sup>1</sup>

<sup>1</sup> Section of Infections of the Nervous System, NINDS, NIH, Bethesda, US

<sup>2</sup> Clinical & Molecular Retrovirology Section, NIAID, NIH, Frederick, US

### ► PP 4.4: Replicate Aptima VL testing detects residual viremia in most ART-treated adults

Authors: S. Bakkour<sup>1,2</sup>, S. M. Keating<sup>1,2</sup>, X. Deng<sup>1,2</sup>, M. Stone<sup>1</sup>, A. Worlock<sup>3</sup>, S. Deeks<sup>2</sup>, P. Bacchetti<sup>2</sup>, M. Dimapasoc<sup>1</sup>, J. Lau<sup>1</sup>, L. Montalvo<sup>1</sup>, S. Hauenstein<sup>3</sup>, D. Richman<sup>4</sup>, M. P. Busch<sup>1,2</sup>, for the Reservoir Assay Validation and Evaluation Network (RAVEN) Study Group

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<sup>2</sup> Hologic, Inc. San Diego, US

<sup>3</sup> University of California San Francisco, San Francisco, US

<sup>4</sup> VA San Diego Healthcare System and Center for AIDS Research, University of California, San Diego, US

### ► PP 4.5: Examining functional alterations of HIV-1 Tat variants associated with neurocognitively impaired patients in the Drexel Medicine CARES Cohort

Authors: M. R. Nonnemacher<sup>1,2</sup>, A. R. Mele<sup>1,2</sup>, K. M. King<sup>3</sup>, G. Antell<sup>1,2,4</sup>, W. Dampier<sup>1,2,4</sup>, R. Tata<sup>1,2</sup>, V. Pirrone<sup>1,2</sup>, J. Williams<sup>1,2</sup>, G. Homan<sup>1,2</sup>, Shendra Passic<sup>1,2</sup>, Katie Kercher<sup>1,2</sup>, Wen Zhong<sup>1,2</sup>, Z. Szep<sup>5,6</sup>, J. Jacobson<sup>7,8</sup>, B. Wigdahl<sup>1,2,5,9</sup>, S. Kortager<sup>1,2</sup>

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<sup>9</sup> Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, US

# POSTER PRESENTATION

## ► PP 4.6: Blinded Evaluation of Ultrasensitive Assays of HIV in Plasma

Authors: S. M. Keating<sup>1,2</sup>, M. Stone<sup>1,2</sup>, X. Deng<sup>1,2</sup>, J. Mellors<sup>4</sup>, S. Bakkour<sup>1,2</sup>, D. Richman<sup>5</sup>, R. Gorelick<sup>6</sup>, J. Lifson<sup>6</sup>, C. Jennings<sup>7</sup>, M. Stengelin<sup>8</sup>, G. Wu<sup>9</sup>, B. J. Howell<sup>9</sup>, P. Bacchetti<sup>3</sup>, M. P. Busch<sup>1,2,3</sup> for the Reservoir Assay Validation and Evaluation Network (RAVEN) Study Group

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<sup>8</sup> Mesoscale Diagnostics, LLC., Rockville, US

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## ► PP 4.7: HIV persistence in lymph nodes from virally suppressed individuals: residual production VS latency

Authors: M. Pardons<sup>1</sup>, R. Fromentin<sup>1</sup>, L. Leyre<sup>1</sup>, A. Pagliuzza<sup>1</sup>, P. Vohra<sup>2</sup>, D. Ng<sup>2</sup>, R. Hoh<sup>2</sup>, M. Kerbleksi<sup>2</sup>, V. Tai<sup>2</sup>, J. Milush<sup>2</sup>, F. Hecht<sup>2</sup>, S. Deeks<sup>2</sup>, N. Chomont<sup>1</sup>

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<sup>2</sup> Department of Medicine, University of California, San Francisco, California, US

## ► PP 4.9: Genotypic and phenotypic characterization of replication-competent HIV clones from patients' reservoir

Authors: F. Mammano, A. Nicolas, J. Migraine, J. Dutrieux, M. Salmona, J.-M. Molina, F. Clavel, A. J. Hance  
INSERM U941, University Paris Diderot, Hospital Saint-Louis, FR

## ► PP 4.11: HIV Viremia is the Product of a Small Fraction of Infected cells

Authors: E. Anderson<sup>1</sup>, J. Bell<sup>2</sup>, M. Kearney<sup>1</sup>, J. Coffin<sup>3</sup>, F. Maldarelli<sup>1</sup>

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## ► PP 4.12: Genetic diversity and CTL escape burden in the replication-competent HIV reservoir in Youth in a therapeutic HIV vaccine trial

Authors: Z. L. Brumme<sup>1,2</sup>, H. Suderuddin<sup>1</sup>, C. Zierniak<sup>3</sup>, K. Luzuriaga<sup>4</sup>, C. K. Cunningham<sup>5</sup>, T. Greenough<sup>4</sup>, D. Persaud<sup>3</sup>

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<sup>3</sup> Johns Hopkins University School of Medicine, Baltimore, US

<sup>4</sup> University of Massachusetts, Worcester, US

<sup>5</sup> Duke University Medical Center, Durham, NC, US

## ► PP 4.13: The Role of APOBEC 3G/3F in Shaping Early HIV-1 Reservoir Landscapes

Authors: K. Reddy<sup>1</sup>, G.Q. Lee<sup>2</sup>, B.D. Walker<sup>2</sup>, M.D. Lichtenfeld<sup>2</sup>, T. Ndung'u<sup>1</sup>

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<sup>2</sup> Ragon Institute of MGH, MIT and Harvard, Cambridge, US

## ► PP 4.14: The latent reservoir as a genetically diverse archive recapitulating within-host HIV evolutionary history

Authors: B.Jones<sup>1</sup>, N. Kinloch<sup>2</sup>, J. Horacsek<sup>1</sup>, B. Ganase<sup>1</sup>, M.Harris<sup>1</sup>, R. Harrigan<sup>1, 4</sup>, R. B. Jones<sup>3</sup>, M. Brockman<sup>1,2</sup>, J. Joy<sup>1,4</sup>, A. Poon<sup>5\*</sup>, Z. Brumme<sup>1,2</sup>

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# POSTER PRESENTATION

## ► PP 4.15: Effector memory T cells contribute to monotypic residual plasma virus production during long-term suppression

Authors: H. Aamer<sup>1</sup>, S. McLaughlin<sup>1</sup>, M. Dapp<sup>2</sup>, J. I. Mullins<sup>2</sup>, L. Frenkel<sup>1</sup>

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<sup>2</sup> Department of Microbiology, University of Washington, US

## ► PP 4.16: Differences in the proviral HIV DNA between HIV monoinfected and HIV/HCV coinfected individuals

Authors: M. S. Carrillo<sup>1</sup>, B. E. Cartelle<sup>1</sup>, M. G. Arquero<sup>1</sup>, L. M. Carbonero<sup>2</sup>, L. Domínguez-Domínguez<sup>3</sup>, P. Ryan<sup>4</sup>, J. de los Santos<sup>5</sup>, S. de la Fuente<sup>6</sup>, O. Bisbal<sup>3</sup>, M. Matarranz<sup>3</sup>, M. Lagarde<sup>3</sup>, A. Moreno<sup>6</sup>, J. M. Castro<sup>2</sup>, E. Mateos<sup>7</sup>, J. Alcamí<sup>7</sup>, S. Resino<sup>1</sup>, A. F. Rodríguez<sup>1</sup>, M. Coiras<sup>7</sup>, V. Briz<sup>1</sup>

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## ► PP 4.17: Temporary ART initiated during primary HIV-1 infection limits the viral reservoir but increases virus diversity upon therapy interruption

Authors: Y.L. Verschoor, J. Vroom, J.M. Prins, B. Berkhout, A. Pasternak

Laboratory of Experimental Virology, Academic Medical Center of the University of Amsterdam, NL

## ► PP 4.18: Genetically intact but functionally impaired HIV-1 Env glycoproteins in the T-cell reservoir

Authors: A. de Verneuil<sup>1</sup>, J. Migraine<sup>1</sup>, F. Mammano<sup>1</sup>, J.-M. Molina<sup>1,2</sup>, S. Gallien<sup>1,2</sup>, V. Lorin<sup>3</sup>, H. Mouquet<sup>3</sup>, A. J. Hance<sup>1</sup>, F. Clavel<sup>1,2</sup>, J. Dutrieux<sup>1</sup>

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<sup>2</sup> Service des Maladies Infectieuses et Tropicales, Hôpital Saint-Louis, Assistance Publique-Hôpitaux de Paris, Paris, FR

<sup>3</sup> Département d'Immunologie, Institut Pasteur, Paris, FR

## ► PP 4.19: Pacific Biosciences Small Molecule Real-Time (SMRT) deep sequencing detects significant viral population structure in brain vs. non-brain autopsy tissues from combined antiretroviral therapy (cART)-positive subjects

Authors: S. L. Lamers<sup>1</sup>, D. J. Nolan<sup>1</sup>, R. Rose<sup>1</sup>, R. Breese<sup>2</sup>, M. Somasundaran<sup>2</sup>, P. Clapham<sup>2</sup>

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## ► PP 4.20: Association between time spent with residual viremia after achievement of virological suppression and type of first-line antiretroviral regimen

Authors: A. Lazzarin<sup>1</sup>, L. Galli<sup>1</sup>, N. Galizzi<sup>2</sup>, A. Castagna<sup>2</sup>, N. Gianotti<sup>1</sup>, M. Ripa<sup>1,2</sup>, A. Andolina<sup>1,2</sup>, S. Nozza<sup>1</sup>, V. Spagnuolo<sup>1,2</sup>, A. Poli<sup>1</sup>

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<sup>2</sup> Università Vita-Salute San Raffaele, Milan IT

## ► PP 4.21: Spread of HIV-DNA in CD4+ T-cells subsets depends on ART initiation timing

Authors: P. Gantner<sup>1,2</sup>, C. Barnig Cindy<sup>2,3</sup>, M. Partisan Marialuisa<sup>4</sup>, G. Beck-Wirth Geneviève<sup>5</sup>, J.-P. Faller<sup>6</sup>, M. Martinot<sup>7</sup>, M. Mosheni-Zadeh<sup>7</sup>, C. Cheneau<sup>4</sup>, M.-L. Batard<sup>4</sup>, P. Fischer<sup>4</sup>, B. Uring-Lambert<sup>2</sup>, S. Bahrami<sup>2</sup>, D. Rey<sup>4</sup>, S. Fafi-Kremer<sup>1,2</sup>

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<sup>7</sup> Internal Medicine and Rheumatology Department, Hôpital Civil de Colmar, Colmar, FR

# POSTER PRESENTATION

## ► PP 4.22: Disease-Specific HIV Nef Identified in Multiple Patients with Neurological Disorders and Cancers

Authors: S. Lamers<sup>1</sup>, G. Fogel<sup>2</sup>, D. Nolan<sup>1</sup>, R. Rose<sup>1</sup>, M. McGrath<sup>3</sup>, Enoch Liu<sup>2</sup>

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<sup>2</sup> Natural Selection Inc., San Diego, US

<sup>3</sup> The University of California and the AIDS and Cancer Specimen Resource, San Francisco, US

## ► PP 4.23: HIV-DNA, CD32a CD4 + T-cells and immune activation on successfull dolutegravir-based regimen

Authors: P. Gantner<sup>2</sup>, M. Partisan<sup>3</sup>, C. Barnig<sup>4</sup>, G. Beck-Wirth<sup>5</sup>, J.P. Faller<sup>6</sup>, M. Artinot<sup>7</sup>, M. Mohseni-Zadeh<sup>7</sup>, C. Cheneau<sup>3</sup>, M.L. Batard<sup>3</sup>, A. Fuchs<sup>1</sup>, P. Fischer<sup>3</sup>, S. Bahram<sup>2</sup>, D. Rey<sup>3</sup>, S. Fafi-Kremer<sup>1,2</sup>

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## ► PP 4.24: Chromatin Functional States Correlate with the Reversal of Latently HIV-1 Infected Primary CD4 + T cells

Authors: E. Battivelli<sup>1,2</sup>, M. S. Dahabieh<sup>1,2</sup>, M. Abdel-Mohsen<sup>4,5,6</sup>, J. P. Svensson<sup>7</sup>, I. Tojal Da Silva<sup>8,9</sup>, L. B. Cohn<sup>8</sup>, A. Gramatica<sup>1,2,3</sup>, S. Deeks<sup>2</sup>, W. Greene<sup>1,2,3</sup>, S. K. Pillai<sup>4,5</sup>, E. Verdin<sup>1,2</sup>

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## SESSION 5: IMMUNOLOGY OF HIV PERSISTENCE

### ► PP 5.0: Retinoic acid (RA) upregulates $\alpha 4\beta 7$ on CD4 + T cells and activates latent reservoirs

Authors: O. A. Omalla<sup>1</sup>, N. Kishore Routhu<sup>1</sup>, N. Sidell<sup>2</sup>, A. A Ansari<sup>3</sup>, S. N. Byrareddy<sup>1</sup>

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<sup>2</sup> Department of Obstetrics and Gynecology, Emory University School of Medicine, Atlanta, US

<sup>3</sup> Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, US

### ► PP 5.1: HIV antibody and T cell responses on ART are associated with HIV DNA but not RNA

Authors: S.M. Keating<sup>1,2</sup>, B. Jones<sup>3</sup>, C. M. Lalama<sup>4</sup>, R. Bosch<sup>4</sup>, D. McMahon<sup>5</sup>, D. Hampton<sup>1</sup>, E. Hogg<sup>6</sup>, J. Cyktor<sup>5</sup>, J. J. Eron<sup>7</sup>, J. W. Mellors<sup>5</sup>, M. P. Busch<sup>1,2</sup>, R. T. Gandhi<sup>8</sup> and the ACTG 5321 team

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<sup>5</sup> Univ of Pittsburgh, Pittsburgh, US

<sup>6</sup> Social and Scientific Systems, Silver Spring, US

<sup>7</sup> University of North Carolina at Chapel Hill, Chapel Hill, US

<sup>8</sup> Massachusetts General Hospital, Boston, US

### ► PP 5.2: Diverse Interferons Restrict HIV-1 Infection in Macrophages Through Activation of SAMHD1

Authors: M. Szaniawski<sup>1</sup>, A. Spivak<sup>1</sup>, A. Bosque<sup>2</sup>, V. Planelles<sup>1</sup>

<sup>1</sup> University of Utah, Salt Lake City, US

<sup>2</sup> George Washington University, Washington D.C, US

# POSTER PRESENTATION

## ► PP 5.3: TCF-1 Expression is Associated with HIV-specific CD8+ T Cell Proliferative Capacity

Authors: R. Rutishauser<sup>1</sup>, C.D. Deguit<sup>1</sup>, R. Hoh<sup>1</sup>, M. Hough<sup>1</sup>, M. Krone<sup>1</sup>, R.-P. Sékaly<sup>2</sup>, F. M. Hecht<sup>1</sup>, C. D. Pilcher<sup>1</sup>, J. N. Martin<sup>1</sup>, J.M. Mccune<sup>1</sup>, S.G. Deeks<sup>1</sup>, P.W. Hunt<sup>1</sup>

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<sup>2</sup> Case Western Reserve University, Cleveland, Ohio, US

## ► PP 5.4: Myeloid-Derived Suppressor Cells Decrease T-Cell Responses to Viral Antigens and

Therapeutic Conserved Elements DNA Vaccine and Increase Following Analytic Treatment Interruption

Authors: S. Dross<sup>1</sup>, P. Munson<sup>1</sup>, A. Gervassi<sup>2</sup>, H. Horton<sup>3</sup>, D. Fuller<sup>1</sup>

<sup>1</sup> Department of Microbiology, University of Washington, Seattle, US

<sup>2</sup> Center for Infectious Disease Research, Seattle, US

<sup>3</sup> Immune Modulation Research, Janssen Infectious Diseases and Vaccines, Beerse, BE

## ► PP 5.5: SIV-specific CD8 T cells are largely excluded from B cell follicles during early SIV infection

Authors: S. Li, J. M. Folkvord<sup>2</sup>, K. J. Kovacs<sup>1</sup>, R. K Wagstaff<sup>1</sup>, G. Mwakalundwa<sup>1</sup>, E. G. Rakasz<sup>3</sup>, E. Connick<sup>2</sup> and P. J. Skinner<sup>1</sup>

<sup>1</sup> University of Minnesota, Minneapolis, US

<sup>2</sup> University of Arizona, Arizona, US

## ► PP 5.6: CD8 T cells from HIV+ individuals on ART have a skewed differentiation phenotype and impaired proliferative responses.

Authors: G. Clutton, N. Goonetilleke, O. Council, Y. Xu, J. Warren, D. Lee, M. A. Fernandez, N. Archin, J. Kuruc, J. Eron, C. Gay, D. Margolis

University of North Carolina at Chapel Hill, Chapel Hill, US

## ► PP 5.7: Functional profiling of HIV-specific CTL clonotypes and their ability to reduce HIV reservoir

Authors: N. Lima<sup>1,2</sup>, S.H. Huang<sup>3</sup>, S. Blackmore<sup>1,2</sup>, A. Garland<sup>1,2</sup>, D. Chan<sup>3</sup>, R. Truong<sup>3</sup>, M. L. Robb<sup>1,2</sup>, N. L. Michael<sup>1</sup>; R. B. Jones<sup>3</sup>, L. Trautmann<sup>1,2</sup>

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<sup>3</sup> Department of Microbiology, Immunology, and Tropical Medicine, George Washington University School of Medicine and Health Sciences, Washington DC, US

## ► PP 5.8: Persistence of CD4+ PD-1high T cells Despite Long-Term Suppressive ART

Authors: B. Macatangay<sup>1</sup>, R. Gandhi<sup>2</sup>, D. Mcmahon<sup>1</sup>, C. Lalama<sup>3</sup>, R. Bosch<sup>3</sup>, J. Cytor<sup>1</sup>, C. Hensel<sup>4</sup>, E. Hogg<sup>5</sup>, J. Eron<sup>6</sup>, J. Mellors<sup>1</sup>, C. Rinaldo<sup>1</sup>

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## ► PP 5.9: Novel dual role of dendritic cells in priming de novo CTL responses while inhibiting memory CTL responses to HIV-1 through the PD-L1 pathway

Author(s): T. M. Garcia-Bates<sup>1</sup>, M. Palma<sup>1</sup>, B. Macatangay<sup>2</sup>, C. Rinaldo<sup>1</sup>, R. Mailliard<sup>1</sup> and the Multicenter AIDS Cohort Study (MACS)

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## ► PP 5.10: Intrinsic resistance of HIV-infected macrophages to CTL-mediated killing drives immune activation

Authors: K. Clayton<sup>1</sup>, D. Collins<sup>1,3</sup>, J. Lengieza<sup>1</sup>, J. Lieberman<sup>2,4</sup>, B. Walker<sup>1,3</sup>

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# POSTER PRESENTATION

## ► PP 5.11: Comparative Transcriptome Profiles In HIV-Infected Persons According To Their Clinical Phenotype

Authors: C. K. Psomas<sup>1</sup>, D.G. Kontopoulos<sup>2</sup>, S. Kinloch-De Loes<sup>3</sup>, S. Kossida<sup>4</sup>, M.L. Gougeon<sup>5</sup>

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<sup>3</sup> Royal Free Hospital, London, UK

<sup>4</sup> Institute of Human Genetics, Montpellier, FR

<sup>5</sup> Institut Pasteur, Paris, FR

## ► PP 5.12: Characterization of Immune Exhaustion in Natural Killer Cells and Role in HIV infection

Authors: C. Garrido, B. Allard, N. Soriano-Sarabia, D. Margolis

UNC HIV Cure Center, Chapel Hill, US

## ► PP 5.13: CXCR3/CCR6 double positive Germinal Center T follicular Helper cells (GC TFH) harbor residual virus during cART initiated during hyperacute HIV infection

Authors: Z. Ndhlovu<sup>1</sup>, O. Baiyegunhi<sup>1</sup>, T. Ndung'u<sup>1</sup>, B. D. Walke<sup>2</sup>

<sup>1</sup> University of KwaZulu Natal, Durban, ZA

<sup>2</sup> Ragon Institute of MGH, MIT and Harvard, Cambridge, US

## ► PP 5.14: Drug-induced modulation of cellular activation during latency reversal changes antigen processing and peptide presentation in primary CD4 T cells

Authors: J. Boucau, A. Sanchez-Bernabeu, S. Le Gall

Ragon Institute of MGH, MIT and Harvard, Cambridge, US

## ► PP 5.15: Impact of time of ART initiation on HIV specific T cell functionality in perinatally infected children

Authors: S. Rinaldi<sup>1</sup>, N. Cotugno<sup>2</sup>, S. Pallikkuth<sup>1</sup>, P. Palma<sup>2</sup>, S. Pahwa<sup>1</sup>

<sup>1</sup> University of Miami, Miami, US

<sup>2</sup> Bambino Gesù Children's Hospital, Rome, IT

## ► PP 5.16: Persistence of antigen presenting cell-mediated HIV trans infection during cART

Authors: G. Rappocciolo, D.C. Delucia, N. Sluis-Cremer, C.R. Rinaldo

University of Pittsburgh, Pittsburgh, US

## ► PP 5.17: Preservation of IL-17 producing $\gamma\delta$ T cells and their role in the control of immune activation in HIV controllers - ANRS EP56 study

Authors: L. Weiss<sup>1</sup>, N. Bhatnagar<sup>2</sup>, D. Scott-Algara<sup>2</sup>, C. Duvivier<sup>3</sup>, P.M. Girard<sup>4</sup>, M. Lopez-Gonzales<sup>1</sup>,

C. Didier<sup>1</sup>, L. Collias<sup>2</sup>, D. Bollens<sup>3</sup>, C. Jung<sup>2</sup>, the ANRS EP56 study group

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<sup>3</sup> Centre Médical Pasteur, Paris, FR

<sup>4</sup> Hôpital Saint-Antoine, APHP, Paris, FR

## ► PP 5.18: Defining the Landscape of HIV-Specific T-Cell Responses in HIV-1 Infected Durably Suppressed Participants

Authors: J. Warren, S. Zhou, Y. Xu, I. Trumble, K. Mollen, J. M. Sung, J. Kirchherr, A. Adimora, S. Deeks,

J. Kuruc, C. Gay, D. Margolis, N. Archin, R. Swanstrom, N. Goonetilleke

University of North Carolina at Chapel Hill, Chapel Hill, US

## ► PP 5.19: Follicular Regulatory T cell dynamics in peripheral blood and lymphoid tissue during very early treatment initiation in HIV-1 clade C infection

Authors: F. Laher<sup>1</sup>, Z.M. Ndhlovu<sup>1,3</sup>, O. Baiyegunhi<sup>1</sup>, F. Ogunshola<sup>1</sup>, V. Ramsuran<sup>2</sup>, K. Pretorius<sup>1</sup>, N. Mewalal<sup>1</sup>, T. Nkosi<sup>1</sup>, N. Ismail<sup>1</sup>, B. D. Walker<sup>1,3,4</sup>, T. Ndung'u<sup>1,3,5,6</sup>

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# POSTER PRESENTATION

## SESSION 6: HUMAN STUDIES

### ► PP 6.0: Higher Rectal p24 Levels Correlate with Poor CD4 Recovery in Treated HIV Infection

Authors: B. J. Howell<sup>1</sup>, G. Wu<sup>1</sup>, S. L. Goh<sup>1</sup>, P. Zuck<sup>1</sup>, M. Pao<sup>2</sup>, M. Deswal<sup>2</sup>, R. Hoh<sup>2</sup>, J. N. Martin<sup>2</sup>, S. G. Deeks<sup>2</sup>, M. Somsouk<sup>2</sup>, D. Hazuda<sup>1</sup>, P. W. Hunt<sup>2</sup>

<sup>1</sup> Merck & Co., West Point, US

<sup>2</sup> University of California San Francisco, US

### ► PP 6.1: The CCR5-agonist Maraviroc reverses HIV latency, results from ex vivo studies and a randomized placebo controlled clinical trial

Authors: J Symons<sup>1,2</sup>, SFL van Lelyveld<sup>3</sup>, W de Spiegelaere<sup>4</sup>, AMJ Wensing<sup>1</sup>, J Drylewicz<sup>5</sup>, AIM Hoepelman<sup>3</sup>, PU Cameron<sup>2,6</sup>, H Lu<sup>2</sup>, T Mota<sup>2</sup>, AI Dantanarayana<sup>2</sup>, L Vandekerckhove<sup>4</sup>, SR Lewin<sup>2,6</sup>, K Tesselaar<sup>5</sup>, M Nijhuis<sup>1</sup>

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<sup>4</sup> Department of Internal Medicine, Ghent University, Ghent, BE

<sup>5</sup> Department of Immunology, University Medical Centre Utrecht, Utrecht, NL

<sup>6</sup> Department of Infectious Diseases, Alfred Hospital and Monash University, Melbourne, AU

### ► PP 6.2: Immunocapture Identification of Myeloid Cell-derived HIV in CSF that is Evolutionarily Divergent from Plasma Virus

Authors: J. Johnson<sup>1</sup>, J.F. Li, J.T<sup>1</sup> Lipscomb<sup>1</sup>, A. Swaims-Kohlmeier<sup>1</sup>, K.A. Curtis<sup>1</sup>, A. Santos<sup>2</sup>, S. Li<sup>3</sup>, Albert M. Anderson<sup>4</sup>

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<sup>2</sup> Anyar, Inc., Ft. Walton Beach, US

<sup>3</sup> Desa Group, Columbia, US

<sup>4</sup> Emory University School of Medicine, Atlanta, US

### ► PP 6.3: Safety and potential impact of auranofin on the viral reservoir in HIV+ individuals under mega-ART

Authors: R. S. Diaz<sup>1</sup>, L. B Giron<sup>1</sup>, J. Galinskas<sup>1</sup>, D. Dias<sup>1</sup>, J. Hunter<sup>1</sup>, S. Tenore<sup>1</sup>, G. Gosuen<sup>1</sup>, S. Samer<sup>1</sup>, M. Umaki<sup>1</sup>, M Shoaib Arif<sup>1</sup>, M. Nutini<sup>1</sup>, I. Luca Shytaj<sup>2,3</sup>, B. Lucic<sup>2,3</sup>, M. Lusic<sup>2,3</sup>, M. Janini<sup>1</sup>, M. C. Sucupira<sup>1</sup>, A. Savarino<sup>4</sup>.

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<sup>2</sup> Department of Infectious Diseases Integrative Virology, Heidelberg University, Heidelberg, DE

<sup>3</sup> German Center for Infection Research (DZIF), Heidelberg, DE

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### ► PP 6.4: Balancing risk-benefit ratio in donors of gut biopsy samples for HIV persistence research

Authors: J.-P. Routy<sup>1,2,10</sup>, R. Ramendra<sup>1,2,3</sup>, P. Ghali<sup>4</sup>, C. Costiniuk<sup>1,2</sup>, B. Lebouché<sup>1,2,5</sup>, R. Ponte<sup>1,2</sup>, R. Reinhard<sup>6</sup>, J. Sousa<sup>7</sup>, N. Chomont<sup>8</sup>, E. Cohen<sup>9</sup>, P. Ancuta<sup>8</sup>, V. Mehraj<sup>1,2</sup>

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<sup>7</sup> Community Advisory Committee, CIHR/CTN, CA

<sup>8</sup> Centre de recherche du Centre Hospitalier de l'Université de Montréal, Montreal, CA

<sup>9</sup> Laboratory of Human Retrovirology, Institut de Recherches Cliniques de Montréal (IRCM), Montreal, CA

<sup>10</sup> Division of Hematology, McGill University Health Centre, Montreal, CA

# POSTER PRESENTATION

## ► PP 6.5: Determinants of early ART initiation during primary HIV infection: Implications for HIV cure research

Authors: J.-P. Routy<sup>1,2,10</sup>, V. Mehraj<sup>1,2</sup>, B. Lebouche<sup>1,2,3</sup>, C. Costiniuk<sup>1,2</sup>, W. Cao<sup>1,2,4</sup>, R. Ponte<sup>1,2</sup>, R. Thomas<sup>5</sup>, J. Szabo<sup>1,5</sup>, J.-Guy. Bari<sup>6</sup>, B. Trottier<sup>6</sup>, P. Coté<sup>6</sup>, R. LeBlanc<sup>7</sup>, C. Tremblay<sup>8,9</sup>, J. Bruneau<sup>8</sup>, J. Cox<sup>1,2</sup>

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<sup>2</sup> Research Institute of the McGill University Health Centre, Montreal, CA

<sup>3</sup> Department of Family Medicine, McGill University, Montreal, CA

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<sup>5</sup> Clinique Médicale l'Actuel, Montreal, CA

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<sup>8</sup> Centre de recherche du Centre Hospitalier de l'Université de Montréal, Montreal, CA

<sup>9</sup> Département de microbiologie, infectiologie et immunologie, Université de Montréal, Montreal, CA

<sup>10</sup> Division of Hematology, McGill University Health Centre, Montreal, CA

## ► PP 6.6: Lymph Node CA-DNA Strongly Correlates with CD4 + Tc Count, Plasma Viral Load and CD4/CD8 Ratio During Chronic HIV Infection

Authors: G. Salgado<sup>1</sup>, R. Getz<sup>2</sup>, H. Ahmed<sup>2</sup>, J. Li<sup>2</sup>, G. Reyes-Terán<sup>1</sup>, P. Del Río-Estrada<sup>1</sup>

<sup>1</sup> CIENI-INER, Mexico City, MX

<sup>2</sup> Brigham and Women's Hospital, Boston, US

## ► PP 6.7: Rapid antiretroviral therapy of blood donors with acute and recent HIV infection: a preliminary report from the Monitoring and Acute Treatment of HIV Study (MATHS)

Authors: K. van den Berg<sup>1</sup>, M. Vermeulen<sup>1</sup>, C. Barker<sup>2</sup>, M.I P. Busch<sup>3, 4</sup>, E. L. Murphy<sup>4, 3</sup> for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III)

<sup>1</sup> ZAn National Blood Service, Johannesburg, ZA

<sup>2</sup> Clinical HIV Research Unit, Johannesburg, ZA

<sup>3</sup> Blood Systems Research Institute, San Francisco, US

<sup>4</sup> University of California San Francisco, San Francisco, US

## ► PP 6.8: Effect of Switching to Integrase Inhibitor on the HIV Reservoir in Ileum Biopsies

Authors: S. Moron-Lopez, V. Urrea, J. Navarro, M. C. Puertas, A. Torrella, M. Salgado, C. Gálvez, B. Planas, L. Vandekerckhove, J. Blanco, M. Crespo, J. Martinez-Picado

IrsiCaixa AIDS Research Institute, Badalona, ES

## ► PP 6.9: Quantification of undetectable plasma HIV RNA

Authors: N. Margot<sup>1</sup>, D. Koontz<sup>2</sup>, S. McCallister<sup>1</sup>, J. Mellors<sup>2</sup>, C. Callebaut<sup>1</sup>

<sup>1</sup> Gilead, Foster City, US

<sup>2</sup> University of Pittsburgh, Pittsburgh, US

## ► PP 6.10: The Critical Importance of Social Sciences in Early-Phase HIV Cure Research: What's In It for Biomedical HIV Cure Scientists?

Authors: K. Dube<sup>1</sup>, D. Evans<sup>2</sup>, L. Sylla<sup>3</sup>, J. Taylor<sup>4</sup>, L. Dee<sup>5</sup>

<sup>1</sup> UNC Gillings School of Global Public Health, Chapel Hill, US

<sup>2</sup> Project Inform, Los Angeles, US

<sup>3</sup> defeatHIV CAB, Seattle, US

<sup>4</sup> Coachella Valley Community Research Initiative, Palm Springs, US

<sup>5</sup> AIDS Action Baltimore, Baltimore, US

## ► PP 6.11: Stimulating cellular locomotion using $\alpha$ 1PI therapy to eradicate reservoirs without adverse effects

Author: C. Bristow

Alpha-1 Biologics, Stony Brook, US

# POSTER PRESENTATION

## SESSION 7: NEW THERAPEUTIC APPROACHES I

### ► PP 7.0: Therapeutic efficacy of optimized eCD4-Ig proteins in SHIV-infected rhesus macaques

Authors: M. R. Gardner<sup>1</sup>, M. Guttman<sup>2</sup>, I. Fetzer<sup>1</sup>, K. K. Lee<sup>2</sup>, M. Farzan<sup>1</sup>

<sup>1</sup> Department of Microbiology and Immunology, The Scripps Research Institute, Jupiter, US

<sup>2</sup> Department of Medicinal Chemistry, University of Washington, Seattle, Washington, US

### ► PP 7.1: eCD4-Ig promotes ADCC activity of sera from HIV-1-infected patients

Authors: M. E. Davis-Gardner, M. R. Gardner, B. Alfant, M. Farzan

Department of Immunology and Microbiology, The Scripps Research Institute, Jupiter, United States  
Minor Outlying Islands

### ► PP 7.2: Re-evaluating the peptide repertoire of MHC-E

Authors: S. Brackenridge, L. Walters, P. Borrow, G. Gillespie, A. McMichael

Nuffield Department of Medicine Research Building, Old Road Campus, Headington, Oxford, UK

### ► PP 7.3: Designing broad-spectrum gRNAs to target the HIV-1 LTR with CRISPR/cas9-based therapeutic strategies

Authors: A. Allen<sup>1,2</sup>, N. T. Sullivan<sup>1,2</sup>, W. Dampier<sup>1,2,3</sup>, C.-H. Chung<sup>1,2</sup>, A. Atkins<sup>1,2</sup>, G. Homan<sup>1,2</sup>, V. Pirrone<sup>1,2</sup>, S. Passic<sup>1,2</sup>, J. Williams<sup>1,2</sup>, Z. Szep<sup>4,5</sup>, J. M. Jacobson<sup>5,7</sup>, M. R. Nonnemacher<sup>1,2</sup>, B. Wigdahl<sup>1,2,4,8</sup>

<sup>1</sup> Department of Microbiology and Immunology, Drexel University College of Medicine, Philadelphia, US

<sup>2</sup> Center for Molecular Virology and Translational Neuroscience, Institute for Molecular Medicine and Infectious Disease, Drexel University College of Medicine, Philadelphia, US

<sup>3</sup> School of Biomedical Engineering and Health Systems, Drexel University, Philadelphia, US

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<sup>7</sup> Department of Medicine, Section of Infectious Disease, Lewis Katz School of Medicine, Temple University, Philadelphia, US

<sup>8</sup> Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, US

### ► PP 7.4: In situ multiplex RNA fluorescence imaging of SHIV1157ipd3N4 and anti-HIV CAR T cells to study CAR T cell trafficking to sites of viral reservoir in macaque lymphoid tissues

Authors: K. Eichholz<sup>1</sup>, C. Peterson<sup>1</sup>, T. Wagner<sup>2</sup>, D. Rawlings<sup>2</sup>, J. Zhu<sup>1</sup>, L. Corey<sup>1</sup>

<sup>1</sup> University of Washington, Fred Hutchinson cancer research center, Seattle, WA, US

<sup>2</sup> Seattle Children's hospital, Seattle, WA, US

<sup>3</sup> Fred Hutchinson cancer research center, Seattle, WA, US

### ► PP 7.5: Clonotypic differences in TCR reactivity to HIV-1 Gag TL9 in the context of HLA-B\*42 and HLA-B\*81

Authors: G. Anmole<sup>1</sup>, F. Ogunshola<sup>2</sup>, R.L. Miller<sup>1</sup>, Z.M. Ndhlovu<sup>2</sup>, M.A. Brockman<sup>1,3</sup>

<sup>1</sup> Simon Fraser University, Burnaby, CA

<sup>2</sup> University of KwaZulu-Natal, Durban, ZA

<sup>3</sup> BC Centre for Excellence in HIV/AIDS, Vancouver, CA

### ► PP 7.6: Mobilizing NK Cells for an HIV Cure: NK Cells Can Target and Kill Latently HIV-1-Infected Primary T Cells Following Proviral Reactivation

Authors: M. Checkley, B. Luttge, C. Dobrowolski, J. Karn

Department of Molecular Biology and Microbiology, School of Medicine, Case Western Reserve University, US

# POSTER PRESENTATION

## ► PP 7.7: SMAC Mimetics Reverse HIV Latency by Selective Activation of the Non-canonical NF- $\kappa$ B Pathway

Authors: G. C. Sampey<sup>1</sup>, E. P. Browne<sup>1</sup>, D. M. Irlbeck<sup>1,2</sup>, D. M. Margolis<sup>1</sup>, R. M. Dunham<sup>1,2</sup>

<sup>1</sup> UNC HIV Cure center, Chapel Hill, US

<sup>2</sup> GlaxoSmithKline HIV DPU, RTP NC, US

## ► PP 7.8: Effect of tyrosine kinase inhibitors on the cytotoxic activity against HIV-1 infection

Authors: S. Rodríguez-Mora<sup>1</sup>, G. Bautista<sup>2</sup>, E. Mateos<sup>1</sup>, V. García<sup>3</sup>, J. L. Steegmann<sup>4</sup>, J. Ambrosioni<sup>5</sup>,

Nuria Climent<sup>6</sup>, F. Cervantes<sup>7</sup>, J. M. Miró<sup>5</sup>, M. Plana<sup>6</sup>, J. Alcamí<sup>1</sup>, M. Coiras<sup>1</sup>

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<sup>6</sup>Retrovirology and Viral Immunopathology Laboratory, AIDS Research Group, Hospital Clínic, IDIBAPS, Barcelona, ES

<sup>7</sup>Hematology Department, Hospital Clínic, IDIBAPS, Barceloa, ES

## ► PP 7.9: SMAC Mimetics Are Potent Latency Reversal Agents With Single Agent and Combination Activity Ex Vivo

Authors: R. M. Dunham<sup>1,2</sup>, G. C. Sampey<sup>1</sup>, D. M. Irlbeck<sup>1,2</sup>, E. P. Browne<sup>1</sup>, D. M. Margolis<sup>1</sup>

<sup>1</sup>UNC HIV Cure Center, University of North Carolina School of Medicine, Chapel Hill, NC, US

<sup>2</sup>GlaxoSmithKline, HIV DPU, ID TAU, Research Triangle Park, NC, US

## ► PP 7.10: Novel Use of Alprazolam as a Potential HIV-1 Latency Reversing Agent

Authors: W. Elbezanti, A. Lin, S. Luca, F. Maldarelli, Z. Klase

University of the Sciences, Philadelphia, US

## ► PP 7.11: HIV-1 Nef dimerization and AP-2 recruitment contribute to viral replication and T-cell loss in humanized mice

Authors: S. Shu, L. Chen, T. Smithgall

University of Pittsburgh, Pittsburgh, US

## ► PP 7.12: Adoptive T cell as a Strategy for Targeted Delivery of Immune Checkpoint Therapy

Authors: J. Sung, Walker, Clohosey, J. Kirchherr, Y. Xu, J. Warren, N. Archin, N. Goonetilleke, D. Margolis

University of North Carolina at Chapel Hill, Chapel Hill, US

## ► PP 7.13: HIV-Specific T Cells Expressing an X5-GPI Artificial Receptor can Suppress HIV Replication In Vitro – Implications for a Cure Strategy for HIV + Individuals with Hematologic Malignancies

Authors: S. Patel<sup>1,2</sup>, R.B. Jones<sup>2</sup>, J. Kimata<sup>3</sup>, C.M. Bolland<sup>1,2</sup>, C.R. Cruz<sup>1</sup>, S-H.Huang<sup>2</sup>; K. Wright<sup>1</sup>, S. Albihani<sup>1</sup>, A. Misra<sup>3</sup>, P. Zhou<sup>4</sup>, C. Russell Cruz<sup>1,2</sup>

<sup>1</sup> Center for Cancer and Immunology Research, Children's National Health System, WA, US

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<sup>3</sup> Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, TX, US

<sup>4</sup> Unit of Anti-Viral Immunity and Genetic Therapy, Institut Pasteur of Shanghai-Chinese Academy of Sciences, Shanghai, CN

## ► PP 7.14: HIV Protease Cleavage Sites Vaccine Augments Quality of T cell Responses during ART

Authors: R. W. Omange<sup>1</sup>, H. Li<sup>1</sup>, N.P. Toledo<sup>1</sup>, F.A. Plummer<sup>1</sup>, M. Luo<sup>2</sup>

<sup>1</sup>Department of Medical Microbiology and Infectious Diseases, University of Manitoba, Winnipeg, CA

<sup>2</sup>Department of Medical Microbiology and Infectious Diseases, University of Manitoba, Winnipeg, CA, HIV Host Genetics Laboratory-National Microbiology Laboratory, Winnipeg, CA

## POSTER PRESENTATION

### ► PP 7.15: HIV-Specific T Cells Generated from HIV-Naive Adult and Cord Blood Donors Target a Range of Novel Viral Epitopes — Implications for a Cure Strategy after Allogeneic HSCT and CBT

Authors: S. Patel <sup>1,2</sup>, R.B. Jones <sup>2</sup>, E. Shpall <sup>3</sup>, D. Margolis <sup>3</sup>, C.M. Bolland <sup>1,2</sup>, E. Williams <sup>1</sup>; S. Albihani <sup>1</sup>; S. Lam <sup>1</sup>; J. A.M. Sung <sup>3</sup>; C. Russell Cruz <sup>1,2</sup>; R. F. Ambinder<sup>5</sup>

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<sup>4</sup> Department of Stem Cell Transplantation and Cellular Therapy, The University of Texas MD Anderson Cancer Center, Houston, TX, US

<sup>5</sup> Sidney Kimmel Comprehensive Cancer Center, The Johns Hopkins University School of Medicine, Baltimore, MD, US

### ► PP 7.17: In vivo suppression of HIV rebound by didehydro-Cortistatin A, a “block-and-lock” strategy for HIV-1 cure

Authors: C.F. Kessing<sup>1,5</sup>, C.C. Nixon<sup>2,5</sup>, C. Li<sup>1,5</sup>, P.M. Tsai<sup>2</sup>, H. Takata<sup>3,4</sup>, G. Mousseau<sup>1</sup>, P.T. Ho<sup>2</sup>, J.B. Honeycutt<sup>2</sup>, M. Fallahi<sup>1</sup>, L.Trautmann<sup>3,4</sup>, J.V. Garcia<sup>2</sup>, S.T. Valente<sup>1,6</sup>

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<sup>4</sup> Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, US

<sup>5</sup> These authors contributed equally

### ► PP 7.18: Partial control of viral rebound with a Rev-dependent lentiviral vector carrying HSV-tk gene in SIV-infected rhesus macaques

Authors: Y. Wu<sup>1</sup>, B. Hetrick<sup>1</sup>, S. Iqbal<sup>2</sup>, B. Ling<sup>2</sup>

<sup>1</sup> National Center for Biodefense and Infectious Diseases, School of System Biology, George Mason University, Manassas, US

<sup>2</sup> Tulane National Primate Research Center, Covington, US

# POSTER PRESENTATION

## SESSION 9: PHARMACOLOGY & DRUG DISCOVERY

### ► PP 9.0: Role of Mitochondrial Antiviral Signaling Protein in Reactivation of Latent HIV-1 in CD4 + T cells

Authors: C. L. Novis<sup>1</sup>, I. Sarabia<sup>2</sup>, A. B Macedo<sup>2</sup>, R. Nell<sup>4</sup>, B. Shakya<sup>3</sup>, H.L. Schubert<sup>3</sup>, C. P. Hill<sup>3</sup>, A. B. De Paula-Silva<sup>1</sup>, A. M Spivak<sup>4</sup>, V. Planelles<sup>1</sup>, A. Bosque<sup>2</sup>

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<sup>3</sup> Department of Biochemistry, University of Utah, Salt Lake City, Utah, US

<sup>4</sup> Division of Infectious Diseases, Department of Medicine, University of Utah, Salt Lake City, US

### ► PP 9.1: Synergistic HIV Latency Reversal from an In Vitro Screen of Epigenetic and Kinase Inhibitors

Authors: D. Irlbeck<sup>1</sup>, Y. Zhao<sup>2</sup>, A. Axtman<sup>3</sup>, B. Zuercher<sup>3</sup>, L. Ingerman-James<sup>4</sup>

<sup>1</sup> University of North Carolina HIV Cure Center, GlaxoSmithKline, Chapel Hill, US

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<sup>3</sup> University of North Carolina HIV Cure Center, Structural Genomics Consortium, Chapel Hill, US

<sup>4</sup> University of North Carolina HIV Cure Center, Center for Integrative Chemical Biology and Drug Discovery, Chapel Hill, US

This work was done in collaboration with the laboratory of Dr. David Margolis at the University of North Carolina at Chapel Hill HIV Cure Center

### ► PP 9.2: Novel Mechanisms of Baricitinib to Block Reservoir Seeding and HIV Persistence

Authors: J. Kohler, C. Gavegnano, J. J. Kohler, C. Montero, R. F. Schinazi

Emory University SOM, Atlanta, US

### ► PP 9.3: Molecular characterization of the inhibitor didehydro-Cortistatin A with the HIV-1 Tat protein

Authors: S. Mediouni<sup>1</sup>, M. Ekka<sup>2</sup>, K. Chinthalapudi<sup>3</sup>, Usui<sup>4</sup>, G. Mousseau<sup>1</sup>, J. Jablonski<sup>1</sup>, M. Clementz<sup>1</sup>, J. Nowak<sup>3</sup>, J. Beverage<sup>4</sup>, E. Esquenazi<sup>4</sup>, K.I Nettles<sup>3</sup>, P. Baran<sup>5</sup>, E. Loret<sup>6</sup>, T. Izard<sup>3</sup>, S. Maiti<sup>2</sup>, S. Valente<sup>1</sup>

<sup>1</sup> Department of Immunology and Microbial Sciences, Scripps Research Institute, Jupiter, FL, US

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<sup>4</sup> Sinenas Marine Discovery, San Diego, CA, US

<sup>5</sup> Chemistry, Scripps Research Institute, Jupiter, FL, US

<sup>6</sup> Aix Marseille University, Faculty of Pharmacy, Aix en Provence and Marseille, FR

### ► PP 9.4: Validation of an unbiased screen method for the identification of secondary fungal metabolites reversing HIV-1 latency

Authors: M. Stoszko<sup>1</sup>, M. Röling<sup>1</sup>, E. De Crignis<sup>1</sup>, T. Wai Kan<sup>1</sup>, A. Mohammed Said Al-Hatmi<sup>2,3</sup>, M. Sulc<sup>4</sup>, A. Bourne<sup>1</sup>, E. LeMasters<sup>1</sup>, N.E. Funa<sup>1</sup>, J. Kang<sup>5</sup>, Y. Müller<sup>6</sup>, P. Katsikis<sup>6</sup>, S. de Hoog<sup>2,3</sup>, V. Havlíek<sup>4</sup>, T. Mahmoudi<sup>1</sup>

<sup>1</sup> Department of Biochemistry, Erasmus University Medical Center, Rotterdam, NL

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<sup>5</sup> Key Laboratory of Medical Microbiology and Parasitology & Key Laboratory Of Environmental Pollution Monitoring and Disease Control, Ministry of Education & Department of Microbiology, Guizhou Medical University, Guiyang, CN

<sup>6</sup> Department of Immunology, Erasmus University Medical Center, Rotterdam, NL

# POSTER PRESENTATION

## POSTER AREA

Poster authors are asked to be present next to their poster during the poster viewing session with wine & cheese tasting, during the following times:

Wednesday, December 13: 4.00 pm – 7.00 pm

Thursday, December 14: 4.00 pm – 7.00 pm

## POSTER TOPICS

<b>Basic science of HIV latency</b>	PP 1.0 ► PP 1.11
<b>Basic science of HIV latency II</b>	PP 2.0 ► PP 2.12
<b>In vitro and animal models studies of the persistence</b>	PP 3.0 ► PP 3.13
<b>Virology of HIV persistence</b>	PP 4.0 ► PP 4.24
<b>Immunology of HIV persistence</b>	PP 5.0 ► PP 5.19
<b>Human studies</b>	PP 6.0 ► PP 6.11
<b>New therapeutic approaches</b>	PP 7.0 ► PP 7.18
<b>Pharmacology &amp; drug discovery</b>	PP 9.0 ► PP 9.4

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## BREAKS

Tuesday, December 12: 3.30 pm – 4.00 pm

Wednesday, December 13: 10.00 am – 10.30 am

Thursday, December 14: 10.00 am – 10.30 am

Friday, December 15: 10.00 am – 10.30 am

# Journal of Virus Eradication

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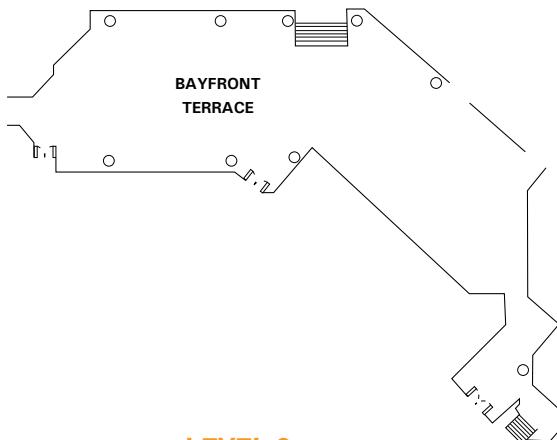
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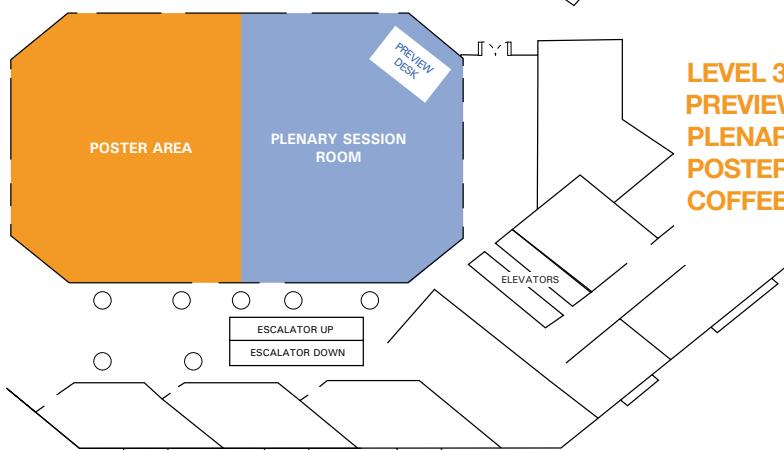
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# MAP



**LEVEL 1  
CATERING AREA  
FINE WEATHER\***

**LEVEL 2  
CATERING AREA  
WEATHER BACK UP\***



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

# GENERAL INFORMATION

## LOGISTIC ORGANIZATION & REGISTRATION

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

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## CONGRESS VENUE

MARRIOTT BISCAYNE BAY HOTEL

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

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## WORKSHOP OPENING HOURS

- Tuesday December 12: 12.00 pm - 7.00 pm
- Wednesday December 13: 7.45 am - 7.00 pm
- Thursday December 14: 7.45 am - 7.00 pm
- Friday December 15: 7.45 am - 2.00 pm

## REGISTRATION FEES

### • Certificates of attendance

Certificates of attendance will be send by email after the week after the workshop.

### • Badges

The name badge 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.

### • Workshop registration fee: \$1500 (Payable in US dollars)

Payment of the Workshop registration fee includes the following:

- Entrance into all scientific sessions, including poster area
- Single-occupancy accommodation for three (3) nights
- Official Workshop materials
- Breakfast, lunch, refreshment breaks and dinner during the days of the conference

### • Accompanying guests, sharing room with delegate: \$600

Payment of the Accompanying Guest registration fee includes the following:

- Breakfast, lunch, refreshment breaks and dinner during the days of the conference

### • Workshop administration fee: \$300

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# GENERAL INFORMATION

## LANGUAGE

All sessions will be held in English

## PROGRAMME EVALUATION AND CERTIFICATE OF ATTENDANCE

In order to receive your certificate of attendance you will have to complete the programme evaluation online on <http://survey.constantcontact.com/survey/a07eewg85s1jas86x2f/start>

A certificate of attendance will be issued only once you have completed the evaluation and selected the «certificate request» link at the end of the evaluation.

We value your feedback.

## PROGRAMME OBJECTIVES

- Provide an opportunity for scientists 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 researches on reservoirs and latency to find a cure

## JOINT PROVIDER



This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Counting Medical Education through the Joint Providership of the University of Massachusetts Medical School and Overcome. The University of Massachusetts Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Massachusetts Medical School designates this educational activity for a maximum of **20.5 MA PRA Category 1 Credits™**.

Physicians should claim only credit commensurate with the extent of their participation in the activity.

## 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 12: 3.30 pm - 4.00 pm
- Wednesday, December 13: 10.00 am - 10.30 am
- Thursday, December 14: 10.00 am - 10.30 am
- Friday, December 15: 10.00 am - 10.30 am

# GENERAL INFORMATION

## LUNCHES & DINNERS

Lunches will be served free of charge in 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:

Lunches:

- Wednesday, December 13: 12.30 pm - 2.00 pm
- Thursday, December 14: 12.30 pm - 2.00 pm

Dinner:

- Tuesday, December 7.00 pm - 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 7.00 pm.

## ABSTRACT BOOK

All accepted abstracts will be published in the abstract book. It will be available on site but only for registered delegates.

## 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 the following times:

- Wednesday, December 12: 4.00 pm - 7.00 pm
- Thursday, December 14: 4.00 pm - 7.00 pm

## PREVIEW FOR SPEAKERS AND ORAL PRESENTERS

Invited speakers and oral abstract presenters must report to the Preview desks 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 thereview desk the day before until 7.00 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: 32284AF

Validity: from December 7th 2017 to December 20th, 2017.



# NOTES

## NOTES

# SAVE THE DATE!

## STRATEGIES FOR AN HIV CURE 2018



National Institute of  
Allergy and  
Infectious Diseases

OCTOBER 10 – 12, 2018

NIH MAIN CAMPUS, NATCHER CONFERENCE CENTER  
BETHESDA, MARYLAND

The National Institute of Allergy and Infectious Diseases (NIAID) will host the Fourth Biennial *Strategies for an HIV Cure meeting* at the NIH main campus in Bethesda, MD **October 10-12, 2018**. The goal of the meeting is to facilitate communication and foster collaboration among NIAID-funded researchers, the broader HIV cure research community, and community stakeholders. The meeting also serves as the biennial joint meeting of the Martin Delaney Collaboratories, along with the HIV Persistence During Therapy workshop in Miami in alternate years. Registration is free, and poster abstracts are encouraged.

Information on last year's meeting, as well as video links to presentations can be found at:

<https://respond.niaid.nih.gov/conferences/hivcuremeeting2016>

We look forward to seeing you again next year in Bethesda.

Lillian Kuo  
Diane Lawrence  
David McDonald  
Karl Salzwedel  
Zenovia Wright



*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.*

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