

# Oral Program

## Sunday, January 27, 2019

17:00-19:00 Registration | Promenade

18:00-19:00 Welcome Drinks Reception | Riverwalk Terrace

## Monday, January 28, 2019

07:30-09:00 Registration | Promenade

08:30-09:00 Light Breakfast | Promenade

09:00-09:25 **Opening Remarks** | Jasmine Room

09:00-09:05 Sylvia Daunert, Associate Director of the JT Macdonald Foundation Biomedical Nanotechnology Institute, *University of Miami Miller School of Medicine, USA*

09:05-09:15 Carl Schulman, Executive Dean for Research, *University of Miami Miller School of Medicine, USA*

09:15-09:25 Savita Pahwa, Director, *Miami Center for AIDS Research, University of Miami Miller School of Medicine, USA*

09:25-12:35 **Session 1: Face of HIV/AIDS Today** | Jasmine Room

Chairs: Mario Stevenson and Sylvia Daunert

09:25-10:10 **Feodor Lynen Lecture**

**[KEY01] HIV/AIDS: Lessons from the past; Prospects for the future**

Robert Gallo, *Institute of Human Virology at the University of Maryland School of Medicine, USA*

10:10-10:40 **[INV01] The prevention of HIV: A pandemic in transition**

Myron Cohen, *University of North Carolina, USA*

10:40-11:05 Coffee Break | Promenade

11:05-11:35 **[INV02] HIV pathogenesis and persistence in the CNS: The stage is set in primary infection**

Serena Spudich, *Yale University, USA*

11:35-11:55 **[INV03] Aging in the era of ART and the impact on immunity**

S. Pahwa, *University of Miami Miller School of Medicine, USA*

11:55-12:10 **[Spotlight 1] Implementation of an immediate HIV treatment initiation program in a public/academic medical center in the US South: The Miami test and treat rapid response program**

A. Rodriguez\*<sup>1</sup>, A. Wawrzyniak<sup>1</sup>, H. Tookes<sup>1</sup>, M. Vidal<sup>1</sup>, M. Soni<sup>2</sup>, R. Nwanyanwu<sup>2</sup>, D. Goldberg<sup>2</sup>, R. Freeman<sup>2</sup>, K. Villamizar<sup>3</sup>, M. Alcaide<sup>1</sup>, <sup>1</sup>*University of Miami Miller School of Medicine, USA*, <sup>2</sup>*Jackson Memorial Medical Center, USA*, <sup>3</sup>*Florida Department of Health in Miami-Dade County, USA*

12:10-12:40 **[INV04] My continuing role as cheerleader for HIV cures**

Timothy Ray Brown, *Berlin Patient, USA*

12:40-14:05 Lunch & Poster Session 1 | Promenade/Hibiscus Room

14:05-18:30 **Session 2: HIV Reservoirs and Cure Strategies** | Jasmine Room

Chairs: Margaret Fischl and Michal Toborek

14:05-14:50 **Special Achievement Award**

**[KEY02] Curing HIV infection: Going beyond N=1**

Bob Siliciano, *Johns Hopkins University, USA*

14:50-15:20 **[INV05] New approaches to purge persistent HIV in individuals on ART**

Sharon Lewin, *University of Melbourne, Australia*

15:20-15:35 **[Spotlight 2] ART initiation promotes formation of the long-lived replication-competent HIV-1 reservoir**

S.B. Joseph\*<sup>1</sup>, M-R. Abrahams<sup>2</sup>, N. Garrett<sup>3</sup>, L. Tyers<sup>2</sup>, M. Moeser<sup>1</sup>, N. Archin<sup>1</sup>, O.D. Council<sup>1</sup>, D. Matten<sup>2</sup>, S. Zhou<sup>1</sup>, D. Doolabh<sup>2</sup>, <sup>1</sup>*University of North Carolina at Chapel Hill, USA*, <sup>2</sup>*University of Cape Town, South Africa*, <sup>3</sup>*Centre for the AIDS Programme of Research in South Africa (CAPRISA), South Africa*

- 15:35-16:05 **[INV06] How does HIV persist and what can we do about it?**  
John Mellors, *University of Pittsburgh, USA*
- 16:05-16:30 Coffee Break | Promenade
- 16:30-17:00 **[INV07] Hematological stem cell therapy to cure HIV infection: So close, so far**  
Javier Martinez-Picado, *Catalan Institute for Research and Advanced Studies (ICREA) at IrsiCaixa, Spain*
- 17:00-17:15 **[Spotlight 3] Efficient ablation of HIV-1 provirus in primary cells using polymer nanocapsule delivery of gene-editing components**  
J. Wen<sup>\*1,2</sup>, M. Zhao<sup>1</sup>, M. Kamata<sup>1,2</sup>, Y. Lu<sup>1</sup>, Y. Koyanagi<sup>3</sup>, I. Chen<sup>1,2</sup>, <sup>1</sup>University of California, Los Angeles, USA, <sup>2</sup>UCLA AIDS Institute, USA, <sup>3</sup>Kyoto University, Japan
- 17:15-17:45 **[INV08] Pediatric HIV infection and model for HIV remission studies**  
Paolo Rossi, *University of Rome Tor Vergata, Italy*
- 17:45-18:30 **Bill Whelan Award, UBMB Foundation**  
**[KEY03] HIV/AIDS and drug abuse: The promise of integrated care**  
Nora Volkow, *National Institute on Drug Abuse (NIDA), USA*
- 19:00-22:00 Conference Dinner (separate ticket required)
- Tuesday, January 29, 2019**
- 08:30-09:00 Light Breakfast | Promenade
- 09:00-12:50 **Session 3: Immune Mechanisms and Interventions** | Jasmine Room  
Chairs: Savita Pahwa and Nagalingeswaran Kumarasamy
- 09:00-09:10 Welcome
- 09:10-09:55 **Lifetime Achievement Award**  
**[KEY04] Sustained ART-free HIV remission: Obstacles and opportunities**  
Anthony Fauci, *National Institute of Allergy and Infectious Diseases, NIH, USA*
- 09:55-10:10 **[Spotlight 4] Using convertibleCAR™-T cells programmed with broadly neutralizing antibodies to attack the latent HIV reservoir**  
E. Herzig<sup>\*1</sup>, T.A. Packard<sup>1</sup>, K. Kim<sup>1,2</sup>, S. Williams<sup>1,2</sup>, K. Landgraf<sup>1,2</sup>, W.C. Greene<sup>1</sup>, <sup>1</sup>UCSF, USA, <sup>2</sup>Xyphos, Inc., USA
- 10:10-10:40 **[INV09] Assessing the engines of antibody affinity maturation to vaccines: Germinal centers and Tfh cells**  
Shane Crotty, *La Jolla Institute for Allergy & Immunology, USA*
- 10:40-11:05 Coffee Break | Promenade
- 11:05-11:35 **[INV10] The path forward for HIV vaccine development**  
Barton Haynes, *Duke University, USA*
- 11:35-11:50 **[Spotlight 5] Stemness and exhaustion: independent mechanisms of persistent viremia in HIV-infected viremic controllers**  
A. Talla<sup>1</sup>, A. Sharma<sup>\*1</sup>, C. Pohlmeier<sup>2</sup>, G. Min-Oo<sup>2</sup>, T. Mustelin<sup>2</sup>, T. Cilhar<sup>2</sup>, S. Pflanz<sup>2</sup>, S. Deeks<sup>3</sup>, R. Pierre-Sekaly<sup>1</sup>, S. Lee<sup>3</sup>, <sup>1</sup>Case Western Reserve University School of Medicine, USA, <sup>2</sup>Gilead Sciences, USA, <sup>3</sup>University of California, San Francisco, USA
- 11:50-12:20 **[INV11] Targeting viral oncogenic signals**  
Ethel Cesarman, *Weill Cornell Medicine, USA*
- 12:20-12:50 **[INV12] Dynamics of SIV replication under ART and Post ART Interruption identifies the most likely functional viral reservoirs in vivo**  
Francois Villinger, *Emory University, USA*
- 12:50-14:20 Lunch & Poster Session 2 | Promenade/Hibiscus Room
- 14:20-18:00 **Session 4: HIV Antibodies for Prevention and Treatment** | Jasmine Room  
Chairs: Ronald Desrosiers and Dushyantha Jayaweera
- 14:20-15:05 **Distinguished Service Award**  
**[KEY05] The HIV problem**  
Michel Nussenzweig, *The Rockefeller University, USA*
- 15:05-15:20 **[Spotlight 6] Hiv-antibody response estimates reservoir size and time of antiretroviral therapy initiation in virally suppressed perinatally HIV-infected children**  
S. Rocca<sup>1</sup>, P. Zangari<sup>1</sup>, N. Cotugno<sup>1,2</sup>, A. De Rossi<sup>3</sup>, B. Ferns<sup>4</sup>, D. Petricone<sup>2</sup>, S. Rinaldi<sup>5</sup>, C. Giaquinto<sup>3</sup>, S. Bernanrdi<sup>1</sup>, P. Rojo<sup>6</sup>, P. Rossi<sup>1,2</sup>, S. Pahwa<sup>5</sup>, E. Nastouli<sup>4</sup>, P. Palma<sup>\*1</sup> et al  
<sup>1</sup>Bambino Gesù Children's Hospital, Italy, <sup>2</sup>University of Rome Tor Vergata, Rome, Italy, <sup>3</sup>University of Padova, Italy, <sup>4</sup>University College London Hospital, UK, <sup>5</sup>University of Miami, Florida, USA, <sup>6</sup>Universidad Complutense, Madrid, Spain
- 15:20-15:50 **[INV13] Vaccine elicitation of antibodies capable of neutralizing diverse strains of HIV-1**  
Peter Kwong, *National Institute of Allergy and Infectious Diseases, NIH, USA*

- 15:50-16:15 Coffee Break | Promenade
- 16:15-16:45 **[INV14] A regulatory role for IgG3 in HIV infection**  
Susan Moir, *National Institute of Allergy and Infectious Diseases, NIH, USA*
- 16:45-17:15 **[INV15] Long-term virologic suppression following AAV delivery of anti-HIV monoclonal antibodies**  
Ronald Desrosiers, *University of Miami Miller School of Medicine, USA*
- 17:15-17:30 **[Spotlight 7] Glycoengineering of AAV delivered monoclonal antibodies with increased ADCC activity**  
J. Termini\*, R. Desrosiers, *University of Miami, USA*
- 17:30-18:00 **[INV16] AAV-expressed eCD4-Ig can suppress an established SHIV-AD8 infection after cART cessation**  
Michael Farzan, *Scripps Research Institute, USA*

### Wednesday, January 30, 2019

- 08:30-09:00 Light Breakfast | Promenade
- 09:00-13:00 **Session 5: Emerging Infections and Therapeutic Advances** | Jasmine Room  
Chairs: Carlo Giaquinto and Claes Wahlestedt
- 09:00-09:10 Welcome
- 09:10-09:55 **IUBMB Lecture**  
**[KEY06] Disruptive discoveries for HIV, HCV and HBV infections**  
Raymond Schinazi, *Emory University, USA*
- 09:55-10:25 **[INV17] Mechanism of action of Remdesivir (GS-5734) against Ebola virus RNA-dependent RNA polymerase**  
Matthias Götte, *University of Alberta, Canada*
- 10:25-10:50 Coffee Break | Promenade
- 10:50-11:20 **[INV18] HIV reverse transcriptase inhibitors: Over 30 years of drug discovery and still learning**  
Daria Hazuda, *Merck & Co, Inc., USA*
- 11:20-11:35 **[Spotlight 8] PDGFRA defines a population of mesenchymal stem cell Kaposi's Sarcoma progenitors by enabling oncogenesis in an angiogenic environment**  
J. Naipauer\*, S. Rosario, C. Premer, S. Gupta, *University of Miami, USA*
- 11:35-12:05 **[INV19] Impact of international clinical research on HIV treatment guidelines**  
Nagalingeswaran Kumarasamy, *YRG CARE, India*
- 12:05-12:20 **[Spotlight 9] Didehydro-Cortistatin A inhibits the activity of HIV-1 by specifically binding to the unstructured basic region of Tat**  
S. Mediouni, *The Scripps Research Institute, USA*
- 12:20-12:50 **[INV20] Neutralizing monoclonal antibodies to prevent and treat yellow fever virus infection**  
David Watkins, *University of Miami Miller School of Medicine, USA*
- 12:50-13:00 Closing Remarks & Poster Prize Presentation