

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

HIV Vaccines (X5)

Scientific Organizers: Persephone Borrow, Georgia D. Tomaras and Rogier W. Sanders

Supported by the Directors' Fund

HIV Pathogenesis and Cure (X6)

Scientific Organizers: Robert F. Siliciano, Carine M. Van Lint and Romas Geleziunas

March 22-26, 2020 • Keystone Resort • Keystone, Colorado, USA

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Global Health Travel Award Deadline: October 22, 2019 / Abstract & Scholarship Deadline: November 20, 2019 / Abstract Deadline: December 18, 2019 / Discounted Registration Deadline: January 23, 2020

SUNDAY, MARCH 22

Arrival and Registration

MONDAY, MARCH 23

Welcome and Keynote Session (Joint)

M. Juliana McElrath, Fred Hutchinson Cancer Research Center, USA
Insights from HIV Vaccine Trials into Induction of Immune Responses in LNs, the Mucosal Virus Target and Effective Host Antiviral Responses

Bruce D. Walker, Ragon Institute of MGH, MIT and Harvard, USA
Early Immune Responses in HIV-1 Infection

Breakthrough Technologies (Joint)

Mark M. Davis, Stanford University School of Medicine, USA
Novel Approaches for T Cell Repertoire Analysis

Guillaume J. Filion, Centre of Genomic Regulation, Spain
Single Cell Analysis of HIV Integration Sites and Inducibility

Short Talk(s) Chosen from Abstracts

Workshop 1 (X5)

Short Talks Chosen from Abstracts

Insights from Recent Prophylactic HIV Vaccine Trials (X5)

Georgia D. Tomaras, Duke University Medical Center, USA
Interpretation of Immune Responses Elicited in Clinical Trials

Robin Shattock, Imperial College London, UK
Accelerated Experimental Medicine Trials for Iterative Vaccine Design

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

New Insights into HIV Virology (X6)

Bryan R. Cullen, Duke University Medical Center, USA
Epitranscriptomic Regulation of HIV-1 Replication

Elisabetta V. Viani-Puglisi, Stanford University, USA
Architecture of the HIV-1 Reverse Transcriptase Initiation Complex

Marina Lusic, Universität Heidelberg, Germany
Nuclear Architecture and HIV Integration

Short Talk(s) Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 24

ImmunoGen Design for Broadly Neutralizing Antibody Induction (X5)

Priyamvada Acharya, Duke University, USA
Env Structural Studies to Inform Vaccine Design

William Schief, IAVI and The Scripps Research Institute, USA
Germline-Targeting Vaccine Design

Rogier W. Sanders, University of Amsterdam and Weill Cornell Medical College, Netherlands
Stabilized Trimer Immunogens

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

New Insights into Restriction Factors (X6)

Frank Kirchhoff, University of Ulm, Germany
Antiviral Factors Targeting HIV-1 Dependency Factors

Jeremy Luban, University of Massachusetts Medical School, USA
Primate Immunodeficiency Virus Proteins Vpx and Vpr Counteract Transcriptional Repression of Proviruses by the HUSH Complex.

Reuben S. Harris, University of Minnesota, USA
HIV-1 Adaptation to Evading Lethal Hypermutation by APOBEC3G

Short Talk(s) Chosen from Abstracts

Workshop 2 (X5)

Short Talks Chosen from Abstracts

Inducing/Modulating Antibody Effector Functions (X5)

Hugo Mouquet, Institut Pasteur, France
Fc-Dependent Antibody Functions

Margaret Ellen Ackerman, Dartmouth College, USA
Engineering IgG to Alter Fcγ Receptor Dependent Function

Rasmi Thomas, U.S. Military HIV Research Program, USA
Insights from Host Genetics and Transcriptomics into Effective Vaccine Elicited Responses

Short Talk(s) Chosen from Abstracts

New Insights into HIV Latency and Reservoirs (X6)

Carine M. Van Lint, University of Brussels, Belgium
The Molecular Basis of HIV-1 Latency

Robert F. Siliciano, Johns Hopkins University School of Medicine, USA
The Persistence of the Latent HIV Reservoirs

María José Buzón, Universitat Autònoma de Barcelona, Spain
A Novel Single-Cell FISH-Flow Assay

Angela Ciuffi, Institute of Microbiology - CHUV/UNIL, Switzerland
Single Cell Transcriptomics

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Poster Session 2

WEDNESDAY, MARCH 25

Optimizing Germinal Center Responses for Broadly Neutralizing Antibody Induction (X5)

Antje Heit, Fred Hutchinson Cancer Research Center, USA

GCTfh Responses to Vaccination in Humans

Facundo D. Batista, Ragon Institute of MGH, MIT and Harvard, USA
GC B Cell Responses

Persephone Borrow, University of Oxford, UK
Modifying T Cell Help and Regulatory Constraints for bnAb Induction

Todd C. Bradley, Duke University Medical Center, USA
Immune Modulation of Germinal Centers

Short Talk(s) Chosen from Abstracts

LRAs and Immunomodulatory Agents (X6)

Devi SenGupta, Gilead Sciences, Inc., USA

Immune-Based Strategies for HIV Cure

Jerome A. Zack, University of California, Los Angeles, USA
Modeling HIV Latency Reversal

Melanie M. Ott, University of California, San Francisco, USA
Reversing HIV Latency

Short Talk(s) Chosen from Abstracts

Workshop 3 (X5)

Short Talks Chosen from Abstracts

CD8 T Cell Inducing Vaccines (X5)

Louis J. Picker, Oregon Health & Science University, USA
Dissecting Mechanisms by which RhCMV-Vectored Vaccines Confer Protection

Andrew J. McMichael, Oxford University, UK
Understanding HLA-E Mediated Antigen Presentation to Inform Vaccine Design

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Immunotherapeutic and Gene Therapy Approaches Targeting the HIV Reservoirs (X6)

Rafick-Pierre Sekaly, Case Western Reserve University, USA
Anti-Inflammatory Cytokines Drive HIV Latency and Immune Dysfunction: Novel Targets for HIV Cure

Paula M. Cannon, University of Southern California, Keck School of Medicine, USA
Gene Therapy Approaches to HIV Cure

Douglas F. Nixon, Weill Cornell Medicine, USA

The Genetics of HIV Acquisition and HIV Cure Research

Petronela Ancuta, Centre de Recherche de l'Université de Montréal, Canada

Targeting Th17 Cells in HIV Cure/Remission Strategies

Short Talk(s) Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 26

Therapeutic Vaccines (Joint)

Barbara K. Felber, NCI, National Institutes of Health, USA
Therapeutic Vaccines – Preclinical to Clinical Trials

Dan H. Barouch, Beth Israel Deaconess Medical Center, USA
Therapeutic Vaccination Strategies

R. Brad Jones, George Washington University, USA
Latent HIV Reservoirs Exhibit Inherent Resistance to Elimination by CD8+ T Cells

Julie Ake, Walter Reed Army Institute of Research, USA
Optimizing V2 Responses to Build on RV144 Success

Short Talk(s) Chosen from Abstracts

Workshop 4 (X5)

Short Talks Chosen from Abstracts

Forward Vision: HIV Clinical Trials (X5)

Fatima Laher, University of the Witwatersrand, South Africa
Durability of Vaccine-Induced Responses

Nichole R. Klatt, University of Miami, USA
Modulation of Microbiota and HIV Vaccination: Preclinical and Human Clinical Trials

Speaker to be Announced

Short Talk Chosen from Abstracts

Clinical Trials (X6)

Sharon R. Lewin, University of Melbourne, Australia
Immune Checkpoint Blockers and HIV Cure Strategies

Steven G. Deeks, University of California, San Francisco, USA
Immunotherapy and HIV Control

Santiago Moreno, Instituto Ramón y Cajal de Investigación Sanitaria, Spain

Modulation of Cellular Micro RNAs as a Strategy for the Cure of HIV Infection

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X5)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X6)

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FRIDAY, MARCH 27

Departure