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Viral Immunity: Mechanisms and Consequences (B4)

Scientific Organizers: Akiko Iwasaki, Daniel B. Stetson and E. John Wherry

February 19-23, 2017

Hilton Santa Fe Historic Plaza Hotel, Santa Fe, New Mexico, USA

Sponsored by Gilead Sciences, Inc.

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DEADLINES:

Scholarship Deadline: Oct 18, 2016 [details]

Discounted Abstract Deadline: Oct 18, 2016 [details]

Abstract Deadline: Nov 17, 2016 [details]

Discounted Registration Deadline: Dec 19, 2016 [details]

Click here to view Cancellation Policy

No registration fees are used to fund entertainment or alcohol at this conference

Conference Program Print | View meeting in 12 hr (am/pm) time

The meeting will begin on Sunday, February 19 with registration from 16:00 to 20:00 and a welcome mixer from 18:00 to 20:00. Conference events conclude on Thursday, February 23 with a closing plenary session and keynote address from 17:00 to 20:00, followed by a social hour and entertainment. We recommend return travel on Friday, February 24 in order to fully experience the meeting.

SUNDAY, FEBRUARY 19

16:00-20:00	Arrival and Registration	Promenade
18:00-20:00	Welcome Mixer No registration fees are used to fund alcohol served at this	Promenade
	function.	

MONDAY, FEBRUARY 20

07:00-08:00	Breakfast	Pecos/Canyon
07:30-08:00	Poster Setup	Mesa C
08:00-17:00	Poster Viewing	Mesa C
08:00-09:00	Welcome and Keynote Address (Organizers) Registered attendees can view abstracts starting on 01/19/2017	Mesa A-B
	Stephen P. Goff, Columbia University, USA Host Regulation of Retroviruses	
09:00-11:30	Sensing Endogenous Viruses Registered attendees can view abstracts starting on 01/19/2017	Mesa A-B
	* Nels C. Elde, University of Utah, USA	
	<u>Daniel B. Stetson</u> , University of Washington, USA Regulating Endogenous Retroviral Sensing	

Marco De Cecco, Brown University, USA

Short Talk: LINE-1 Elements Escape Repression in Senescent Cells and Trigger a Type-I Interferon Response

Coffee Break

Maria Tokuyama, Yale University School of Medicine, USA Short Talk: Genome-Wide Endogenous Retrovirus Profiling Reveals Interferon-Independent Lupus Signature

<u>John V. Moran</u>, University of Michigan Medical School, USA Studies of a Human Retrotransposon

George Kassiotis, Francis Crick Institute, UK *Immunity to Endogenous Retroviruses*

11:30-12:15	Lunch	Pecos/Canyon
12:00-14:30	Poster Session 1	Mesa C
14:30—16:30	Workshop 1	Mesa A-B

* Jennifer M. Lund, Fred Hutchinson Cancer Research Center, USA

Pavla Brachova, University of Kansas Medical Center, USA RNA-Editing and Sensing in Mammalian Oocytes

Hannah Burgess, New York University School of Medicine, USA The Stress Granule Component G3BP1 Opposes an HSV-1 Endoribonuclease to Regulate PKR Activation and Interferon Induction

Oya Cingoz, Columbia University Medical Center, USA CDK Inhibition Blocks Nucleic Acid Induced Innate Immune Responses

Jessica Graham, Fred Hutchinson Cancer Research Center, USA West Nile Virus Infection in the Collaborative Cross Mouse Model Recapitulates Unique Human Disease States

Tzachi Hagai, EMBL - European Bioinformatics Institute, UK *The Architecture of Cellular Antiviral Immunity*

Tania Lebratti, Washington University in St. Louis, USA *Neutrophils Regulate Pathogenesis in Genital HSV-2 Infection*

Takuma Shibata, Institute of Medical Science, University of Tokyo, Japan

Nucleosides are endogenous ligands for TLR7 and TLR8 $\,$

Gilad Sivan, NIAID, National Institutes of Health, USA A Reverse Evolution Approach for Identification of Novel Antiviral Pathways

16:30-17:00	Coffee Available	Promenade
17:00-19:00	Evolutionary Arms Race with Viruses	Mesa A-B
	Registered attendees can view abstracts starting on 01/19/2017	

^{*} Daniel B. Stetson, University of Washington, USA

<u>Nels C. Elde</u>, University of Utah, USA *Retrogenes as Antivirals*

Nicolas Manel, Institut Curie, France Interactions of Dendritic Cells with Viruses

Rossana Colon-Thillet, Fred Hutchinson Cancer Research Center, USA

Short Talk: An Unbiased Approach to Evaluate the Contribution of Rapidly Evolving Sites at Antiviral Interfaces

Beatrice H. Hahn, University of Pennsylvania, USA *Determinants of HIV-1 Transmission Fitness*

19:00 On Own for Dinner

TUESDAY, FEBRUARY 21

07:00-08:00	Breakfast	Pecos/Canyon
08:00—11:15	Innate Antiviral Defense Registered attendees can view abstracts starting on 01/19/2017	Mesa A-B
	* Ken H. Cadwell, New York University School of Medicine, USA	
	Sara R. Cherry, University of Pennsylvania School of Medicine,	
	USA Cellular Factors that Regulate Viral Pathogenesis	
	John W. Schoggins, University of Texas Southwestern Medical Center, USA Modulation of Viral Infection by Interferon-Stimulated Genes	
	Andrew Oberst, University of Washington, USA Short Talk: Death-Independent Roles of the Necroptotic Pathway in the Restriction of Flavivirus Pathogenesis	
	Coffee Break	
	Shomyseh Sanjabi, Gladstone Institutes, University of California, San Francisco, USA Short Talk: Dampened Antiviral Immunity to Intravaginal Exposure to RNA Viral Pathogens Allows Enhanced Viral Replication	
	Michael S. Diamond, Washington University School of Medicine,	
	USA Using Mouse Models to Study the Pathogenesis and Immune Response to Zika Virus	
	Akiko Iwasaki, HHMI/Yale University School of Medicine, USA Innate Antiviral Defense	
11:15—17:00	On Own for Lunch	
11:15—13:00	Poster Setup	<u>Mesa C</u>
13:00-22:00	Poster Viewing	<u>Mesa C</u>
16:30—17:00	Coffee Available	<u>Promenade</u>
17:00—19:00	Viral Sensors: Structure and Function Registered attendees can view abstracts starting on 01/19/2017	Mesa A-B
	* Owen Pornillos, University of Virginia, USA	
	<u>Zhijian James Chen</u> , University of Texas Southwestern Medical Center, USA <i>DNA Sensor</i>	
	Sun Hur , Harvard Medical School, USA Structure and Function of RNA Sensnors	
	<u>Seong-Wook Oh</u> , Kyoto University, Japan Short Talk: Leader-Containing Uncapped Viral Transcript Activates RIG-I in Antiviral Stress Granules	
	<u>Toshiyuki Shimizu</u> , University of Tokyo, Japan Structural Study of TLRs Sensing Single-Stranded RNA in Innate Immune System	
19:00—20:00	Social Hour with Lite Bites No registration fees are used to fund alcohol served at this function.	Pecos/Canyon

WEDNESDAY, FEBRUARY 22

**E. John Wherry, University of Pennsylvania, USA Urich H. Von Andrian, Harvard Medical School, USA Memory T Cells in the Uterus Susan M. Kaech, Yale University School of Medicine, USA Memory T Cell Programming Jessica K. Flege, University of Minnesota, USA Short Talk: How and Why Lung Epithelial Cells Survive Influenza A Virus Infection Coffee Break Susan L. Swain, University of Massachusetts Medical School, USA Short Talk: Ag Recognition at a Checkpoint During the CD4 Effector Phase Drives Generation of CDM Memory Rachael A. Clark, Brigham and Women's Hospital, Harvard Medical School, USA Resident Memory T cells in Human Health and Disease Laura K. Mackay, University of Melboume, Australia Molecular Regulation of Tissue-Resident Lymphocytes 11:15–17:00 On Own for Lunch 11:15–17:00 Poster Setup Mesa 13:00–22:00 Poster Viewing Mesa 16:30–17:00 Coffee Available Promense 17:00–19:00 Consequences of Virus Infection on Immunity Resistered attendees can view abstracts starting on 01/19/2017 * Sara R. Cherry, University of Pennsylvania School of Medicine, USA Virus-Host Interoctions and the Gut Microbiota Rusian M. Medzhitov, HHMI/Yale University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldridge, Washington University School of Medicine, USA Coinfection and Disease Tolerance Mesan T. Baldri	07:00-08:00	Breakfast	Pecos/Canyon
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40.20.20.20	19:00—20:00	No registration fees are used to fund alcohol served at this	Pecos/Canyon
19:30–22:00 Poster Session 3 Mesa	19:30—22:00	Poster Session 3	<u>Mesa C</u>

THURSDAY, FEBRUARY 23

07:00-08:00 Breakfast Pecos/Canyon

08:00-11:15 Vaccines Against Viruses

Mesa A-B

Registered attendees can view abstracts starting on 01/19/2017

* Ulrich H. Von Andrian, Harvard Medical School, USA

<u>Galit Alter</u>, Ragon Institute of MGH, MIT and Harvard, USA Exploiting the Adjuvanting Effects of Antibody Glycosylation in Vaccination

Adolfo García-Sastre, Mount Sinai School of Medicine, USA Universal vaccines for influenza viruses

<u>Nicolas Chevrier</u>, Harvard University, USA Short Talk: Organism-Level Analysis of Vaccination Reveals Networks of Protection Across Tissues

Coffee Break

Jens P. Wrammert, Emory University, USA Short Talk: Human Antibody Responses After Dengue Virus Infection are Highly Cross-Reactive to Zika Virus

Gary J. Nabel, Sanofi, USA Novel Approaches to Broadly Neutralizing Ab Combinations for HIV Prevention and Treatment

Penny L. Moore, National Institute for Communicable Diseases, South Africa *HIV Vaccines - Lessons from Infection*

11:15–17:00 On Own for Lunch

14:30—16:30 Workshop 2

Mesa A-B

* Tania H. Watts, University of Toronto, Canada

<u>David R. Collins</u>, Ragon Institute of MGH, MIT & Harvard, USA Beyond Mutational Escape: Mechanisms of HIV Rebound After Control

Shannon Renee Barbour, University of Pennsylvania, USA Defining the Specificity of Antibodies Elicited by Primary and Secondary Flavivirus Infections

Brian J. Laidlaw, University of California, San Francisco, USA The Eph-Related Tyrosine Kinase Ligand Ephrin-B1 Marks Germinal Center and Memory Precursor B Cells

<u>Yew Ann Leong</u>, Monash University, Australia CXCR5+ Follicular Cytotoxic T Cells Control Viral Infection in B Cell Follicles

Michal Caspi Tal, Stanford University School of Medicine, USA Host Dependent Upregulation of CD47 is a Critical Component of Antiviral Immune responses

Andreas Wieland, Emory University, USA Strategies for Efficient Fc{gamma}R-Mediated Antibody Effector Functions During Persistent Viral Infection

Angela C. Zhou, University of Toronto, Canada Intrinsic 4-1BB Signals are Indispensable for Establishment of an Influenza-Specific CD8 Tissue-Resident Memory T Cell Population in the lung

Vesselin T. Tomov, University of Pennsylvania, USA Short Talk: Enteric MNV Persistence is Associated with A Unique CD8 T Cell Differentiation State and Rapid Immune Evasion

16:30-17:00 Coffee Available

Promenade

17:00-18:15 Chronic Viral Infection

Mesa A-B

Registered attendees can view abstracts starting on 01/19/2017

* Galit Alter, Ragon Institute of MGH, MIT and Harvard, USA

E. John Wherry, University of Pennsylvania, USA *Molecular Basis of T Cell Exhaustion: Insights for immunotherapy*

Daniel C. Douek, NIAID, National Institutes of Health, USA *Multiple Origins of Virus Persistence in HIV Controllers*

18:15-19:00 Closing Keynote Address

Mesa A-B

Registered attendees can view abstracts starting on 01/19/2017

* E. John Wherry, University of Pennsylvania, USA

Rafi Ahmed, Emory University School of Medicine, USA Defining Stem-Like CD8 T Cells that Respond to PD-1 Therapy

19:00—19:15 Meeting Wrap-Up: Outcomes and Future Directions

Mesa A-B

(Organizers)

Registered attendees can view abstracts starting on 01/19/2017

No registration fees are used to fund alcohol served at this

20:00-21:00 Social Hour with Lite Bites

Promenade/Mesa

Ballroom

function.

20:00-23:00 Entertainment

Mesa Ballroom

Entertainment is not subsidized by conference registration fees nor any U.S. federal government grants. Funding for this expense is

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FRIDAY, FEBRUARY 24

Departure

*Session Chair †Invited, not yet responded.

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