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

The meeting will begin on Sunday, March 26 with registration from 16:00 to 20:00 and a welcome mixer from 18:00 to 20:00. Conference events conclude on Thursday, March 30 with a closing plenary session from 17:00 to 19:00, followed by a social hour and entertainment. We recommend return travel on Friday, March 31 in order to fully experience the meeting.

## SUNDAY, MARCH 26

16:00-20:00	Arrival and Registration	<u>Foyer</u>
18:00—20:00	Welcome Mixer	<u>Foyer</u>
	No registration fees are used to fund alcohol served at this	
	function.	

## MONDAY, MARCH 27

07:00-08:00	Breakfast	Foyer/Rainbow/Twilight
08:00-09:00	Welcome and Keynote Address Meeting has endedabstracts no longer viewable online.	Storm Peak/Mt. Werner
	* Andrew B. Ward, The Scripps Research Institute, USA	
	Nina D. Russell, Bill & Melinda Gates Foundation, USA HIV Vaccines - The Year in Review	
09:00—11:30	New Paradigms in Active and Passive Immunization Meeting has endedabstracts no longer viewable online.	Storm Peak/Mt. Werner
	* Andrew B. Ward, The Scripps Research Institute, USA	
	Michel C. Nussenzweig, HHMI/Rockefeller University, USA Passive Protection with 3BNC117	
	<u>K. Rachael Parks</u> , University of Washington, USA Short Talk: Optimizing the Expansion of Primary VRC01 Antibody Responses by Germline-Targeting Immunogens	
	Coffee Break	
	<b>Todd C. Bradley,</b> Duke University Medical Center, USA Short Talk: Immune Checkpoint Inhibitor Co-Administration with HIV Env Modifies the Antibody Repertoire	ל
	Alejandro Balazs, Massachusetts General Hospital, USA Development of Vectored ImmunoProphylaxis and ImmunoTherapy against HIV Infection	
	<u>Jonah B. Sacha</u> , Oregon Health & Science University, USA Cross-Species CMV Vaccination Reveals Viral Determinants for Induction of Non-Classical MHC-E-Restricted T Cells	
11:30—17:00	On Own for Lunch	
11:30-13:00	Poster Setup	Sunshine/Rainbow/Twilig
13:00-22:00	Poster Viewing	Sunshine/Rainbow/Twilig
14:30—16:30	Workshop 1: Structural and Mechanistic Insights into Neutralization	Storm Peak/Mt. Werner
	* Ian A. Wilson, The Scripps Research Institute, USA	
	Kimmo Rantalainen, The Scripps Research Institute, USA	

Structure of Full-Length HIV Envelope in Complex with PGT151

Raiees Andrabi, The Scripps Research Institute, USA Glycans as Anchors for Inducing HIV Broadly Neutralizing Antibodies

Sasha Murrell, The Scripps Research Institute, USA Structural Investigation of A Novel Family of Broadly Neutralizing Antibodies that Target the N332 Supersite in HIV

**Evan M. Cale, NIAID, National Institutes of Health, USA** *Isolation of an HIV-1-Specific Neutralizing Antibody Lineage with Similar Characteristics to the gp41-gp120 Interface-Binding Antibody 35022* 

**Gwo-Yu Chuang,** NIAID, National Institutes of Health, USA Optimization of HIV-1 Broadly Neutralizing Antibodies by Surface-Matrix Scanning

Till Schoofs, Rockefeller University, USA Antibody 10-1074 Suppresses Viremia in HIV-1 Infected Individuals

Ryan Meyerhoff, Duke University, USA Induction of Antibodies Targeting the V3 Glycan Broadly Neutralizing Epitope in Rhesus Macaques using a Synthetic Immunogen

16:30-17:00 Coffee Available

<u>Foyer</u>

17:00—19:15 Lessons from Animal Vaccinations

Storm Peak/Mt. Werner

Meeting has ended...abstracts no longer viewable online.

\* Rogier W. Sanders, University of Amsterdam and Weill Cornell Medical College, Netherlands

Paul Kellam, Kymab, UK

Mice with Fully Human Immunoglobulin Loci and their Use for Predictive Vaccine Antigen Discovery

Maria Blasi, Duke University Medical Center, USA Short Talk: Sequential Immunizations with an Integrase Defective LentiVector Induce Higher Magnitude and More Durable Antibody Responses than DNA and Protein Based Vaccine Regimens

Nancy L. Haigwood, Oregon Health & Science University, USA Passive and Active Studies in Primate Models to Inform HIV Vaccines

Peter D. Kwong, NIAID, National Institutes of Health, USA Short Talk: Peptide-Coupled Carrier Proteins to Focus the Immune Response to an HIV-1 Site of Vulnerability

Andrew B. Ward, The Scripps Research Institute, USA Structures of HIV Neutralizing Antibodies Elicited from Animal Immunization with SOSIP Env Trimers

19:15-20:15 Social Hour with Lite Bites

Foyer/Rainbow/Twilight

No registration fees are used to fund alcohol served at this

function.

19:30—22:00 **Poster Session 1** 

Sunshine/Rainbow/Twilight

## TUESDAY, MARCH 28

 07:00-08:00
 Breakfast
 Foyer/Rainbow/Twilight

 08:00-11:15
 B and T Cells
 Meeting has ended...abstracts no longer viewable online.

 Storm Peak/Mt.
 Werner

\* Barton F. Haynes, Duke University Medical Center, USA

<u>Gunilla B. Karlsson Hedestam</u>, Karolinska Institutet, Sweden Individualized Profiling of Germline V Genes and Application to Env Trimer Immunogenicity Studies in NHPs

<u>Thomas B. Kepler</u>, Boston University, USA B Cell Clonal Dynamics during Sequential Immunizations

Sabrina Helmold, NCI, National Institutes of Health, USA Short Talk:Dynamics of T Follicular Helper Cells and Germinal Center B Cells over the Course of Vaccination in Rhesus Macaques

#### Coffee Break

<u>Stephen J. Kent</u>, University of Melbourne, Australia *ADCC and Beyond* 

**Colin Havenar-Daughton,** La Jolla Institute of Allergy and Immunology, USA

Short Talk: Germinal Centers Correlate with HIV Trimer-Induced Neutralizing Antibody Induction and Inform Improved Immunization Scheduling for Maximizing HIV Neutralizing Antibody Responses

Marie Pancera, Fred Hutchinson Cancer Research Center, USA Short Talk: Anti-Idiotypic Antibodies against Inferred Germline b12, a CD4 Binding Site Antibody, as Toosl for Detection of Naïve B Cells Expressing Germline b12-like Precursors and Rational Immunogen Design

11:15—17:00	On Own for Lunch	
11:15—13:00	Poster Setup	Sunshine/Rainbow/Twilight
11:30–13:00	Hands-On Computer Session on Los Alamos Sequence Database  HIV Database Workshop presented by Los Alamos National Laboratory staff Topics include: • HIV Sequence Database •  Bioinformatics tools that have general application Users can register for either or both workshops. Bring your own laptop.	<u>Skyline</u>
13:00—22:00	Poster Viewing	Sunshine/Rainbow/Twilight
16:30—17:00	Coffee Available	<u>Foyer</u>
17:00—19:00	Adjuvants and Delivery Systems  Meeting has endedabstracts no longer viewable online.	Storm Peak/Mt. Werner

<sup>\*</sup> Robin Shattock, Imperial College London, UK

Carl R. Alving, Walter Reed Army Institute of Research, USA Rational Basis for Creation and Selection of Adjuvant Formulations for HIV-1 Vaccines

Mark T. Orr, Infectious Disease Research Institute, USA Tailoring Vaccine Responses with Formulated TLR Agonist Adjuvants

James J. Kobie, University of Rochester, Medical Center, USA Short Talk: IL-33 Enhances the Induction, Durability, and Breadth of the Antibody Response to a DNA/Protein-Based HIV Env Vaccine

**Darrell J. Irvine,** Massachusetts Institute of Technology, USA Regulation of the Germinal Center Reaction and Humoral Response by Vaccine Kinetics

19:00–20:00 Social Hour with Lite Bites <u>Foyer/Rainbow/Twilight</u>

No registration fees are used to fund alcohol served at this function.

19:30—22:00 Poster Session 2 <u>Sunshine/Rainbow/Twilight</u>

## WEDNESDAY, MARCH 29

Keystone Symposia | Scientific Conferences on Biomedical and Life Science Topics 07:00-08:00 Foyer/Rainbow/Twilight **Breakfast** 08:00-11:15 **Human Clinical Trials** Storm Peak/Mt. Werner Meeting has ended...abstracts no longer viewable online. \* Gabriella Scarlatti, Global HIV Vaccine Enterprise, USA Mark B. Feinberg, IAVI International AIDS Vaccine Initiative, USA Expediting Ebola Vaccine Development and Implications for HIV Vaccine R&D Efforts Alberto Cagigi, NIAID, National Institutes of Health, USA Short Talk: Potential for Immunization with eOD-GT8 to Drive B Cell Responses Toward the Production of CD4bs Antibodies Barton F. Haynes, Duke University Medical Center, USA Testing the Concept of B Cell Lineage Immunogen Design for Initiation of Broadly Neutralizing B Cell Lineages in Human Clinical Trials Coffee Break Kelly E. Seaton, Duke Human Vaccine Institute, USA Short Talk: Individual-level meta-analysis of HIV-1 Vaccine Elicited Mucosal Antibodies in Human Volunteers M. Juliana McElrath, Fred Hutchinson Cancer Research Center, USA Induction of HIV-Specific Immunity with Recent Clinical Vaccine Approaches Robin Shattock, Imperial College London, UK DNA Vaccination for Experimental Medicine Trials of HIV Vaccines 11:15-17:00 On Own for Lunch 11:15-13:00 Sunshine/Rainbow/Twilight Poster Setup 11:30-13:00 Hands-On Computer Session on Los Alamos Skyline **Immunology Database** HIV Database Workshop presented by Los Alamos National Laboratory staff Topics include: • HIV Immunology Database • Immunology and vaccine design tools that have general application 13:00-22:00 **Poster Viewing** Sunshine/Rainbow/Twilight 16:30-17:00 Coffee Available **Foyer** 17:00-19:00 Lessons from Infection Storm Peak/Mt. Meeting has ended...abstracts no longer viewable online. Werner \* Penny L. Moore, University of the Witwatersrand and National Institute for Communicable Diseases, South Africa Thumbi Ndung'u, University of KwaZulu-Natal, South Africa Antiretroviral Treatment of Acute HIV Infection and the Prospect for a Functional Cure Christiane Moog, INSERM and Université of Strasbourg, France Short Talk: Unexpected Antibody Isotypes and Neutralizing Profile in Patients Controlling HIV Julie M. Overbaugh, Fred Hutchinson Cancer Research Center, USA Unique Aspects of the Infant HIV-Specific Neutralizing Antibody Response Alexandra Trkola, University of Zürich, Switzerland Determinants of bnAb Development

Social Hour with Lite Bites

19:00-20:00

Foyer/Rainbow/Twilight

No registration fees are used to fund alcohol served at this function.

19:30-22:00

Poster Session 3

Sunshine/Rainbow/Twilight

#### THURSDAY, MARCH 30

07:00-08:00 Breakfast Foyer/Rainbow/Twilight

08:00-11:15 Broadly Neutralizing Antibodies: Hurdles and Storm Peak/Mt.

:00-11:15 Broadly Neutralizing Antibodies: Hurdles and Opportunities

Storm Peak/Mt. Werner

Meeting has ended...abstracts no longer viewable online.

\* Alexandra Trkola, University of Zürich, Switzerland

**Penny L. Moore,** University of the Witwatersrand and National Institute for Communicable Diseases, South Africa Longitudinal Studies of Neutralizing Antibody Development in the CAPRISA Cohort

Kshitij Wagh, Los Alamos National Laboratory, USA Short Talk: Env Glycan Holes Negatively Impact Development of Heterologous Neutralization Breadth in HIV-1 Infections

<u>Brandon DeKosky</u>, University of Kansas, USA Short Talk: High-Throughput Paired Heavy and Light Chain Analyses of HIV Broadly Neutralizing Antibody Lineages

#### Coffee Break

<u>Elise Landais</u>, International AIDS Vaccine Initiative, USA Broadly Neutralizing Antibodies to HIV-1: Lessons from Protocol C Studies

Wilton Bryan Williams, Duke University, USA Short Talk: SHIV-CH505 Infection of Rhesus macaques Recapitulates HIV-1 Env-Antibody Evolution in Humans

Samantha Leigh Grimley, San Diego Biomedical Research Institute, USA Short Talk: Striking Impact of HIV-1 Envelope Glycoengineering on BnAb Sensitivities

Nicole A. Doria-Rose, NIAID, National Institutes of Health, USA Tracing Virus-Antibody Co-Evolution of MPER-directed Neutralizing Antibodies

11:15-17:00 On Own for Lunch

14:30-16:30 Workshop 2: Testing Vaccine Platforms in Animals

Storm Peak/Mt. Werner

\* Richard T. Wyatt, IAVI Neutralizing Antibody Center at The Scripps Research Institute, USA

Diane L. Bolton, US Military HIV Research Program, WRAIR, USA Immunogenicity and Efficacy of MVA, gp145 Vaccination Against Heterologous Tier 2 SHIV C Challenge in Rhesus

<u>Oifeng Han</u>, Duke University, USA HIV gp41 Immunodominance Following gp140 Immunization Occurs in Humans but is Not Detected in Rhesus Macaques

Mattias Forsell, Umeå University, Sweden Autologous But Not Heterologous Antibodies Negatively Regulate Subunit-Specific Germinal Center B Cell Responses to the HIV-1 Envelope Glycoproteins

Matthias Georg Pauthner, The Scripps Research Institute, USA Optimized Env Trimer Immunization Parameters Amplify Onset, Magnitude and Consistency of Autologous Tier 2 Neutralizing Antibody Development in Nonhuman Primates

<u>Paola Andrea Martinez</u>, Karolinska Institutet, Sweden F9, A New Class of Antibody that Neutralizes Autologous Tier 2 Viruses in Rhesus Immunized with Liposome Conjugated Well-Ordered Trimers

Jose Maximiliano Medina-Ramírez, University of Amsterdam, Netherlands

A Native-Like Envelope Trimer with Enhanced Binding of Inferred Germline Precursors of Broadly Neutralizing HIV-1 Antibodies

James E. Voss, The Scripps Research Institute, USA Reproducible Elicitation of HIV Envelope V2-Apex Focused Neutralizing Antibodies in Rabbits

16:30-17:00 Coffee Available

<u>Foyer</u>

17:00-18:45 Immunogen Platforms

Storm Peak/Mt. Werner

Meeting has ended...abstracts no longer viewable online.

\* Peter D. Kwong, NIAID, National Institutes of Health, USA

Jon Steichen, The Scripps Research Institute, USA HIV Vaccine Design to Target Germline Precursors of N332-Dependent Broadly Neutralizing Antibodies

Neil P. King, University of Washington, USA

Design of Novel Self-Assembling Protein Nanomaterials as Next-Generation Vaccine Scaffolds

Rogier W. Sanders, University of Amsterdam and Weill Cornell Medical College, Netherlands Inducing HIV-1 Neutralizing Antibodies with Native-Like Envelope Trimers

18:45–19:00 Meeting Wrap-Up: Outcomes and Future Directions

Storm Peak/Mt.
Werner

(Organizers)

Meeting has ended...abstracts no longer viewable online.

19:00–20:00 Social Hour with Lite Bites <u>Foyer/Rainbow/Twilight</u>

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20:00–23:00 Entertainment <u>Sunshine</u>

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#### FRIDAY, MARCH 31

#### Departure

\*Session Chair †Invited, not yet responded.

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