

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Antibodies as Drugs: Translating Molecules into Treatments (C1)

February 25-March 1, 2018 • Whistler Conference Centre • Whistler, British Columbia, Canada

Scientific Organizers: Paul W. H. I. Parren and Erica Ollmann Saphire

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 24, 2017 / Abstract Deadline: November 21, 2017 / Discounted Registration Deadline: December 19, 2017

### SUNDAY, FEBRUARY 25

#### Arrival and Registration

### MONDAY, FEBRUARY 26

#### Welcome and Keynote Address

**Dennis R. Burton**, The Scripps Research Institute, USA  
*Molecular Vaccine Design Guided by Human Anti-Viral Antibodies*

#### Protective Antibody Responses

**George Georgiou**, University of Texas at Austin, USA  
*Dissecting Serum Antibodies at the Molecular Level*  
**Erica Ollmann Saphire**, The Scripps Research Institute, USA  
*Antibody-Mediated Protection Against Emerging Viral Threats*  
**Antonio Lanzavecchia**, Institute for Research in Biomedicine, Switzerland  
*Protection by Non-Conventional Antibodies*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 1: Vaccines

##### Short Talks Chosen from Abstracts

#### From Molecules to Vaccines

**Nancy L. Haigwood**, Oregon Health & Science University, USA  
*Antibodies as Change Agents to Control HIV/SIV*  
**James E. Crowe, Jr.**, Vanderbilt University Medical Center, USA  
*Genetic and Structural basis for Virus Neutralization by Human Antibodies*  
**Robert F. Garry**, Tulane University Health Sciences Center, USA  
*Antibody Treatment of Lassa Virus: From the Field to the Lab and Back*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### TUESDAY, FEBRUARY 27

#### Antibodies as Biopharmaceuticals

**Janine Schuurman**, Genmab B.V., Netherlands  
*A Therapeutic Antibody Panorama: Highways, Scenic Routes and Dead-Ends*  
**Karl Dane Wittrup**, Massachusetts Institute of Technology, USA  
*Principles of Effective Antibody Therapeutics*  
**Marie H. Kosco-Vilbois**, NovImmune SA, Switzerland  
*Bringing Bispecific Molecules to the Clinic*  
**Emma M. Lees**, Jounce Therapeutics, USA  
*JTX-2011: Mechanism of Action of an Agonist Antibody Targeting ICOS*

#### Short Talk(s) Chosen from Abstracts

#### Antibody Fc-Mediated Mechanisms I

**Pamela J. Bjorkman**, California Institute of Technology, USA  
*Engineering Antibodies against HIV-1*  
**Jan Terje Andersen**, Oslo University Hospital, Norway  
*Engineering the Antibody Fc Domain for Improved Function*  
**Marjolein van Egmond**, VU University Medical Center, Netherlands  
*Translating Antibody – Effector Cell Cross-Talk to Immunotherapy*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### WEDNESDAY, FEBRUARY 28

#### Antibody Fc-Mediated Mechanisms II

**Paul W. H. I. Parren**, Genmab B.V., Netherlands  
*Complement Activation at the Molecular Level*  
**Suzan Rooijackers**, UMC Utrecht, Netherlands  
*Antibody-Mediated Killing of Bacteria by Complement*  
**Galit Alter**, Ragon Institute of MGH, MIT and Harvard, USA  
*Systems-Level Serology of Antibody Responses to Infectious Disease*  
**Richard S. Blumberg**, Brigham and Women's Hospital, USA  
*Cross-Presentation and Immune Effects Mediated by Antibody*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 2: Therapeutic Antibodies

##### Short Talks Chosen from Abstracts

#### Exploiting Effector Cell Responses

**Sergio A. Quezada**, University College London, UK  
*Defining the Role of Fc Receptors and the Tumor Microenvironment in the Activity of Immune Modulatory Antibodies*  
**Laurence Zitvogel**, Institut Gustave Roussy, France  
*The Microbiome and Checkpoint Blockade Therapy*  
**Jeffrey Steven Miller**, University of Minnesota, USA  
*Strategies to use Trispecific Killer Engagers to make Nk Cells Antigen Specific*

#### Short Talk Chosen from Abstracts

#### Poster Session 3

### THURSDAY, MARCH 1

#### Novel Ways to Deliver Antibody Therapy

**Ugur Sahin**, TRON – Translationale Oncology, Germany  
*Antibody and mRNA-Based Therapeutics*  
**Mark Cobbold**, Massachusetts General Hospital, USA  
*Retargeting T Cells for Tumor Therapy*  
**Hidde L. Ploegh**, Boston Children's Hospital, USA  
*Single-Domain Intracellular Antibodies*  
**Ronald C. Desrosiers**, University of Miami Miller School of Medicine, USA  
*Adenovirus-Associated Virus-Mediated Delivery of Antibodies*

#### Short Talk(s) Chosen from Abstracts

#### From Molecules to the Clinic

**Ira Mellman**, Genentech, Inc., USA  
*Antibodies in Cancer Immunotherapy*  
**David E. Szymkowski**, Xencor, USA  
*Novel Engineered Antibodies to Treat Inflammatory and Allergic Disease*  
**John M. Lambert**, ImmunoGen, Inc., USA  
*ADC, the Magic Bullet Revisited*

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

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**FRIDAY, MARCH 2**

**Departure**