

28th ANNUAL HENRY KUNKEL SOCIETY MEETING
IN PARTNERSHIP WITH JOURNAL OF EXPERIMENTAL MEDICINE (JEM) &
THE ROCKEFELLER UNIVERSITY FRIDAY LECTURE SERIES (FLS) COMMITTEE

Thursday, April 16th - Saturday, April 18th, 2020

The Rockefeller University, New York, NY

Theme: New Dimensions of Therapeutic Antibodies

Meeting Chairs: Michel C. Nussenzweig, MD, PhD & Jeffrey V. Ravetch, MD, PhD

HKS President: Jean-Laurent Casanova, MD, PhD

JEM Executive Editor: Teodoro Pulvirenti, PhD

FLS Chair: Luciano Marraffini, PhD

Thursday, April 16, 2020

- 1:00 p.m. **Welcoming Remarks**
Jean-Laurent Casanova, MD, PhD, President, Henry Kunkel Society
- 1:05 p.m. – 2:45 p.m. ***Session I: Antibodies in Inflammation and Immuno-Oncology***
Chair: Michel C. Nussenzweig, MD, PhD
- 1:05 p.m. **Richard Blumberg, MD, PhD**
Brigham & Women 's Hospital, Boston, MA, USA
The (not so) neonatal Fc receptor and its immunologic functions
- 1:30 p.m. **Betty A. Diamond, MD**
The Feinstein Institute for Medical Research, Manhasset, NY, USA
Antibodies and neuropsychiatric disease: mechanisms, therapy and prevention
- 1:55 p.m. **Christopher Goodnow, PhD**
Garvan Institute of Medical Research, Sydney, Australia
Henry Kunkel's Wa idiotype rheumatoid factors: single cell multi-omic analysis of the evolution of pathogenic autoantibodies
- 2:20 p.m. **Virginia Pascual, MD**
Druker Institute at Weill Cornell Medicine, New York, NY, USA
Revisiting B cell help in human SLE
- 2:45 p.m. **Break until 3:10 p.m.**
- 3:10 p.m. **Boris Reizis, PhD**
NYU Langone Medical Center, New York, NY, USA
Extracellular DNA as an antigen
- 3:35 p.m. **Claude-Agnès Reynaud, PhD**
Institut Necker-Enfants Malades, Paris, France
Therapeutic outcomes in immune thrombocytopenia reveal multiple pathogenic B-cell subsets
- 4:00 p.m. **Mark Jay Shlomchik, MD, PhD**
University of Pittsburgh School of Medicine, Pittsburgh, PA, USA
Toll-like receptors, B cells, and autoantibodies in lupus
- 4:25 p.m. **Break until 4:50 p.m.**

- 4:50 p.m. **Barry Sleckman, MD, PhD**
Weill Cornell Medical College, New York, NY, USA
The intersection between DNA damage and immune responses
- 5:15 p.m. **Hedda Wardemann, PhD (JEM Speaker)**
German Cancer Research Center, Heidelberg, Germany
The human antibody response against the malaria parasite Plasmodium falciparum
- 5:40 p.m. **Falk Nimmerjahn, PhD**
University of Erlangen-Nuremberg, Erlangen, Germany
Where, When, and How: The impact of organ environment on therapeutic antibody activity
- 6:15 p.m. **Cocktails (for purchase)**

Friday, April 17, 2020

9:00 a.m. – 11:05 a.m. **Session II: Affinity Maturation and Selection**

- 9:00 a.m. **Michael C. Carroll, PhD**
Harvard Medical School, Boston, MA, USA
Evolution of self-reactive germinal centers and epitope spreading in lupus
- 9:25 a.m. **Rafael C. Casellas, PhD**
National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH, Bethesda, MD, USA
Nuclear architecture regulates transcription and recombination of antibody genes
- 9:50 a.m. **Michel Cogné, MD, PhD**
Limoges University, Limoges, France
Class-switching breaks away from dogma
- 10:15 a.m. **Gabriel Victora, PhD**
The Rockefeller University, New York, NY, USA
Clonal dynamics of the antibody response
- 10:40 a.m. **Hao Wu, PhD**
Boston Children's Hospital, Boston, MA, USA
Innate immunity, structural biology and human diseases
- 11:05 a.m. **Break until 11:25 a.m.**
- 11:25 a.m. – 12:40 p.m. **Session III: Antibodies in Infectious Diseases**
Chair: Jeffrey V. Ravetch, MD, PhD
- 11:25 a.m. **Marina Caskey, MD**
The Rockefeller University, New York, NY, USA
Broadly neutralizing anti-HIV-1 monoclonal antibodies in the clinic
- 11:50 a.m. **Carl Davis, MD, PhD**
Emory University, Atlanta, GA, USA
The role of public clonotypes in the human antibody response to viruses and vaccines
- 12:15 p.m. **Malcolm Martin, MD**
National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA
The use of broadly reactive anti-HIV-1 neutralizing antibodies to prevent and control SIV/HIV chimeric virus infections in rhesus macaques
- 12:40 p.m. **Lunch until 1:40 p.m.**

- 1:40 p.m.** **Peter Palese, PhD**
Icahn School of Medicine at Mount Sinai, New York, NY, USA
Towards a universal influenza virus vaccine
- 1:40 p.m.** **Taia T. Wang, MD, PhD**
Stanford University School of Medicine, Stanford, CA, USA
Human IgG antibodies modulate disease during infection
- 1:40 p.m.** **Ian Wilson, DPhil**
The Scripps Research Institute, San Diego, CA, USA
Structure-assisted design of universal vaccines and therapeutics against influenza virus
- 2:55 p.m.** **Patrick C. Wilson, PhD**
The University of Chicago, Chicago, IL, USA
B cell immunity to influenza in context
- 3:20 p.m.** **Break until 3:45 p.m.**
- 3:45 p.m.** **Introduction for Annual Memorial Lecture**
Jeffrey V. Ravetch, MD, PhD
- Tadatsugu Taniguchi, PhD**
The University of Tokyo
Annual Kunkel Memorial Lecture
Damage-associated molecular patterns (DAMPs) in cancer and immunity
- 5:15 p.m.** **Dinner (for purchase)**

Saturday, April 18, 2020

9:00 a.m. – 10:40 a.m. *Session IV: Novel Platforms*

- 9:00 a.m.** **Richard Flavell, PhD**
Yale School of Medicine, New Haven, CT, USA
Humanized mice for the study of human disease
- 9:25 a.m.** **Antonio Lanzavecchia, MD**
Institute for Research in Biomedicine, Bellinzona, Switzerland
The power of clonal selection
- 9:50 a.m.** **Michael Lenardo, MD**
National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA
Precision medicine therapies developed from inborn errors of immunity
- 10:15 a.m.** **Carola Vinuesa, MD, PhD**
Australian National University, Canberra, Australia
Novel causes of human monogenic or digenic SLE: lessons from bespoke mouse models
- 10:40 a.m.** **Break until 11:05 a.m.**

11:05 a.m. – 11:45 a.m. **Session V: Antibodies Against Cancers and Prion Diseases**

11:05 a.m. **Eric Vivier, PhD**
Centre d'Immunologie de Marseille-Luminy & Innate Pharma, Marseille, France
Targeting innate immunity in cancer immunotherapies

11:30 a.m. **Adriano Aguzzi, MD, PhD**
University of Zurich, Zurich, Switzerland
Structure-guided rational design of anti-prion antibodies

11:45 a.m. – 12:00 p.m. **Session VI: Memories of Henry Kunkel**

11:45 a.m. **Robert J. Winchester, MD**
Columbia University College of Physicians and Surgeons, New York, NY, USA
Memories of Henry and life in the Kunkel lab

12:00 p.m. **Closing Remarks**
Jean-Laurent Casanova, MD, PhD