

THE ROCKEFELLER UNIVERSITY



26th Annual Henry Kunkel Society Meeting

in partnership with

Journal of Experimental Medicine

Fundamental and clinical insights from the study of monogenic auto-inflammation and auto-immunity in humans

Institut Imagine
Necker Hospital for Sick Children
Paris, France
April 12–April 14, 2018

Henry George Kunkel

1916–1983

Henry Kunkel received his B.S. degree from Princeton and his M.D. degree from Johns Hopkins University. He arrived at The Rockefeller Institute (now University) in 1945 where he spent his entire scientific career until his death in 1983. His contributions to the field of basic and clinical immunology are legendary. He made numerous seminal observations in liver disease, rheumatic diseases and other allied disorders.

He was perhaps best known for his pioneering and extensive studies on the immunoglobulins. His recognition that myeloma proteins were a model for the study of the structure of normal immunoglobulins had a global impact on investigations of the structure, function and inheritance of these molecules. The elucidation of the chain structure of gamma globulin and the recognition that immunoglobulins possessed individual antigenic specificity (idiotypes) were internationally recognized discoveries.

Dr. Kunkel was the recipient of many awards and honors, including membership in the National Academy of Sciences, honorary degrees from Universities of Uppsala and Harvard, and recipient of the Lasker and Gairdner Awards and the Kovalenko Medal of the National Academy of Sciences.

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Program

Thursday, April 12, 2018

- 2:00 p.m. **Welcoming Remarks**
Jean-Laurent Casanova
- 2:05 p.m. – 4:35 p.m. **Session I: Systemic lupus erythematosus, complement and interferons**
- 2:05 p.m. **Boris Reizis**
NYU School of Medicine, New York, NY, USA
The role of DNASE1L3 in SLE
- 2:35 p.m. **Virginia Pascual (FPID Speaker)**
Gale and Ira Drukier Institute for Children's Health, Weill Cornell Medicine, New York, NY, USA
Revisiting the link between innate and adaptive immunity in human lupus
- 3:05 p.m. **Marina Botto**
Imperial College London, London, UK
C1q in health and disease – roles outside the complement system
- 3:35 p.m. **Dusan Bogunovic**
Icahn School of Medicine at Mount Sinai, New York, NY, USA
Pleiotropic kinase mutated in a child - cytokine, cell type and STAT specificity unveiled
- 4:05 p.m. **Afternoon Break until 5:00 p.m.**
- 5:00 p.m. **Introduction for Kunkel Lecturer**
Jean-Laurent Casanova
- Michael Lenardo (FPID Speaker)**
Annual Henry Kunkel Society Lecture
National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA
- 6:00 p.m. **Cocktail Reception (for purchase)**

Friday, April 13, 2018

- 8:00 a.m. – 9:00 a.m. **Breakfast**
- 9:00 a.m. – 10:00 a.m. **Session II: Diseases of apoptosis**
- 9:00 a.m. **Yanick Crow (Meeting Chair)**
Necker Hospital for Sick Children, Paris, France
DNASE2 deficiency in humans
- 9:30 a.m. **Shigekazu Nagata**
Osaka University, Osaka, Japan
Exposure of phosphatidylserine and engulfment of apoptotic cells by macrophages
- 10:00 a.m. **Morning Break until 10:30 a.m.**
- 10:30 a.m. – 12:00 p.m. **Session III: Autoimmunity and autoinflammation**
- 10:30 a.m. **Frederic Rieux-Laucat**
Institut Imagine, Paris, France
From monogenic to digenic inheritance of autoimmunity
- 11:00 a.m. **Anthony Segal**
University College London, London, UK
How a failure of innate immunity leads to Crohn's disease

12:00 p.m.	Lunch until 1:30 p.m.
12:45 p.m. – 1:30 p.m.	Teodoro Pulvirenti Executive Editor of JEM <i>Scientific Publishing: What, How and Why</i>
1:30 p.m. – 3:30 p.m.	Session IV: Monogenic autoimmunity, central tolerance and autoantibodies
1:30 p.m.	Kai Kisand University of Tartu, Tartu, Estonia <i>Mongenetic syndromes distinguished by chronic candidiasis in combination with autoimmunity</i>
2:00 p.m.	Adrian Hayday King's College and The Francis Crick Institute, London, UK <i>Conflict in the de-militarised zone: Learning immunology from patients</i>
2:30 p.m.	Peter Lachmann University of Cambridge, Cambridge, UK <i>Deficiency of Complement Factor I. A deficiency where heterozygotes and homozygotes are susceptible to different diseases</i>
3:00 p.m.	Chris Goodnow (JEM Speaker) Garvan Institute of Medical Research, Sydney, Australia <i>Good and bad mutations: their impact on mechanisms for active inhibition of autoantibody secretion</i>
3:30 p.m.	Afternoon Break until 4:00 p.m.
4:00 p.m. – 5:30 p.m.	Session V: Innate immune signalling
4:00 p.m.	Nicolas Manel Institut Curie, Paris, France <i>Activation of innate immune sensors by viruses and self</i>
4:30 p.m.	Sun Hur Harvard Medical School, Boston, MA, USA <i>Signalling by MDA5</i>
5:00 p.m.	Kenneth Smith University of Cambridge, Cambridge, UK <i>Whole genome sequencing for sporadic COVID diagnosis</i>
6:00 p.m.	Dinner (for purchase)

Saturday, April 14, 2018

8:00 a.m. – 9:00 a.m.	Breakfast
9:00 a.m. – 10:00 a.m.	Session VI: Neuroinflammation
9:00 a.m.	David Hunt University of Edinburgh, Edinburgh, UK <i>Evidence for direct pathogenicity of type I interferon in adult neuroinflammatory disease</i>
9:30 a.m.	Marco Prinz University Medical Centre Freiburg, Freiburg, Germany <i>The role of CNS endogenous myeloid cells in inflammation</i>
10:00 a.m. – 10:30 a.m.	Session VII: Evolutionary and systems immunology
10:00 a.m.	Lluis Quintana-Murci Institut Pasteur, Paris, France <i>Dissecting the genetic and non-genetic sources of immune response variation in humans</i>
10:30 a.m.	Morning Break until 11:00 a.m.

11:00 a.m. – 12:30 p.m.

Session VIII: Monogenic autoinflammation

11:00 a.m.

Elke Kruger

Universitätsmedizin Berlin, Berlin, Germany
Proteasome associated autoinflammatory diseases

11:30 a.m.

Raphaela Goldbach-Mansky (FPID Speaker)

National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA
Insights from an expanding spectrum of autoinflammatory diseases

12:00 p.m.

Dan Kastner (FPID Speaker)

National Human Genome Research Institute, NIH, Bethesda, MD, USA
Cutting Gordian knots at the pool of Bethesda

12:30 p.m.

Closing Remarks

Jean-Laurent Casanova

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