2016 ANNUAL HENRY KUNKEL SOCIETY MEETING IN PARTNERSHIP WITH THE JOURNAL OF EXPERIMENTAL MEDICINE

Monocytes, macrophages, and dendritic cells: physiology and pathology

The Rockefeller University
New York, NY
April 7-9, 2016

Program Chairman: Frédéric Geissmann
Henry Kunkel Society President: Jean-Laurent Casanova
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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<th>Henry Kunkel Society Officers</th>
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PROGRAM

THURSDAY, APRIL 7, 2016
Carson Family Auditorium

2:00 p.m.  Welcoming Remarks
Jean-Laurent Casanova, HKS & JEM

2:05 p.m. – 4:35 p.m.  Session I: Genetic diseases of myeloid cells (I)
Chair: David Tuveson, JEM

2:05 p.m.  Ross L. Levine
Memorial Sloan Kettering Cancer Center, New York, NY, USA
Genetics and therapy of myeloid malignancies

2:35 p.m.  Barrett J. Rollins
Dana–Farber Cancer Institute, Boston, MA, USA
Genetics of Langerhans cell histiocytosis

3:05 p.m.  Jean Donadieu
AP-HP Hopital Trousseau, Paris, France
Langerhans cell histiocytosis – epidemiology, therapy and natural history in molecular medicine era

3:35 p.m.  Harris Perlman
Robert H. Lurie Comprehensive Cancer Center, Northwestern University, Chicago, IL, USA
Monocytes in rheumatoid arthritis

4:05 p.m.  Tim Cox
University of Cambridge, Cambridge, UK
Therapeutic opportunities in Gaucher disease: Cooling the alembic of Hell

4:35 p.m.  Coffee break

5:00 p.m.  Introduction for Kunkel Lecturer
Jean-Laurent Casanova, HKS & JEM

Michel Nussenzweig
Annual Henry Kunkel Society Lecture
The Rockefeller University & Howard Hughes Medical Institute, New York, NY, USA

6:00 p.m.  Reception (for purchase)

FRIDAY, APRIL 8, 2016
Carson Family Auditorium

9:00 – 10:00 a.m.  Session II: Genetic diseases of myeloid cells (II)
Chair: Douglas Fearon, JEM

9:00 a.m.  Steven Holland
National Institute of Allergy and Infectious Diseases, Bethesda, MD, USA
GATA 2 deficiency

9:30 a.m.  Omar Abdel-Wahab
Memorial Sloan Kettering Cancer Center, New York, NY, USA
Genetics and therapy on systemic histiocytoses

10:00 a.m.  Coffee break
10:30 a.m. – 2:30 p.m.  **Session III: Developments of myeloid cells**
Chair: Alejo Chorny, JEM

10:30 a.m.
**Elaine Dzierzak**
University of Edinburgh, Edinburgh, UK
Hematopoietic stem cell development and diversity

11:00 a.m.
**Jim Palis**
University of Rochester Medical Center, Rochester, NY, USA
HSC-independent hematopoiesis

11:30 a.m.
**Elisa Gomez Perdiguer**
Pasteur Institute, Paris, France
Developmental origin of macrophages

12:00 p.m.
**Lunch**

1:30 p.m.
**Ken Murphy**
Washington University School of Medicine, St. Louis, MO, USA
Diversity of dendritic cells

2:00 p.m.
**Frederic Geissmann**
Memorial Sloan Kettering Cancer Center, New York, NY, USA
The architecture of a layered myeloid system

2:30 p.m. – 5:00 p.m.  **Session IV: Immunobiology of myeloid cells (I)**
Chair: Alexander Tarakhovsky, JEM

2:30 p.m.
**Siamon Gordon**
University of Oxford, Oxford, UK
Macrophage activation, fusion and function

3:00 p.m.
**Jacques Banchereau**
The Jackson Laboratory, Hartford, CT, USA
Dendritic cell subsets, T cell subsets and vaccines

3:30 p.m.
**Coffee break**

4:00 p.m.
**Boris Reizis**
New York University Langone Medical Center, New York, NY, USA
Dendritic cells in systemic lupus erythematosus

4:30 p.m.
**Kang Liu**
Columbia University, New York, NY, USA
Remapping human dendritic cell lineage in health and myeloid neoplasm using clonal analysis

5:00 p.m.
**Claudia Waskow**
Dresden University of Technology, Dresden, Germany
Regulation of the dendritic cell pool size by the microenvironment

6:00 p.m.
**Dinner (for purchase)**
**Session V: Cell biology of myeloid cells**

**Chair:** Thiago Carvalho, JEM

9:00 a.m. **Chris Glass**  
University of California, San Diego, La Jolla, CA, USA  
Genetic and genomic approaches to understanding macrophage identity and function

9:30 a.m. **Stephen Smale**  
University of California, Los Angeles, CA, USA  
Selective transcriptional cascades induced by inflammatory stimuli

10:00 a.m. **Julie Magarian Blander**  
Icahn School of Medicine at Mount Sinai, New York, NY, USA  
Different phagocytes sample apoptotic cells *in situ* to orchestrate tissue homeostasis

10:30 a.m. **Coffee Break**

11:00 a.m. **Marco Colonna**  
Washington University School of Medicine, St. Louis, MO, USA  
Functions of TREMs on macrophages

11:30 a.m. **Session VI: Immunobiology of myeloid cells (II)**

**Chair:** Frédéric Geissmann, HKS

11:30 a.m. **Virginia Pascual**  
Baylor Institute for Immunology Research, Dallas, TX, USA  
The innate side of human Lupus

12:00 p.m. **Emil Unanue**  
Washington University School of Medicine, St. Louis, MO, USA  
The key role of islet phagocytes in the initiation of autoimmune diabetes

12:30 p.m. **Lunch**

2:00 p.m. **Xiaofei Kong**  
The Rockefeller University, New York, NY, USA  
Human mDC1 deficiency and susceptibility to mycobacterial disease

2:30 p.m. **Irving Weissman**  
Stanford University School of Medicine, Stanford, CA, USA  
Normal and neoplastic stem cells
A special thank you to our meeting sponsor

Foundation for Primary ImmunoDeficiency Diseases