



# 30<sup>th</sup> Annual Henry Kunkel Society Meeting

IN PARTNERSHIP WITH JOURNAL OF EXPERIMENTAL MEDICINE  
& THE ROCKEFELLER UNIVERSITY FRIDAY LECTURE SERIES COMMITTEE

---

Protective and Pathogenic Plasma Cells

*Meeting Chairs: Andreas Radbruch, Ph.D. & Gerd R. Burmester, M.D.*

APRIL 13-15, 2023

# 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.

## Henry Kunkel Society Executive Committee

President . . . . . Luigi D. Notarangelo  
Past President . . . . . Jean-Laurent Casanova  
Secretary . . . . . Helen C. Su  
Treasurer . . . . . Dusan Bogunovic

## Henry Kunkel Society Lecturers

1992 . . . . . Louis Kunkel	2008 . . . . . John Atkinson
1993 . . . . . David Ho	2009 . . . . . Thomas Tuschl
1994 . . . . . Benvenuto Pernis	2010 . . . . . Frederick Alt
1996 . . . . . Jeffrey Ravetch	2011 . . . . . Mark M. Davis
1997 . . . . . Anthony Fauci	2012 . . . . . Louis M. Staudt
1998 . . . . . Klaus Rajewsky	2013 . . . . . Daniel L. Kastner
1999 . . . . . Peter Doherty	2014 . . . . . Shigekazu Nagata
2000 . . . . . Max D. Cooper	2015 . . . . . Yanick Crow
2001 . . . . . Fritz Melchers	2016 . . . . . Michel C. Nussenzweig
2002 . . . . . Tasuku Honjo	2017 . . . . . Carl Nathan
2003 . . . . . Fred Rosen	2018 . . . . . Michael Lenardo
2004 . . . . . Diane Mathis	2019 . . . . . Alain Fischer
2005 . . . . . Charles Weissman	2021 . . . . . Tadatsugu Taniguchi
2006 . . . . . Ralph M. Steinman	2022 . . . . . Federica Sallusto, PhD
2007 . . . . . Antonio Lanzavecchia	

---

## THURSDAY, APRIL THIRTEENTH

---

### COMMENCEMENT

---

12:00 PM *Welcome Remarks*  
**Luigi Notarangelo, MD, PhD**, President, Henry Kunkel Society

### DYNAMICS OF PRIMARY AND SECONDARY HUMORAL IMMUNE REACTIONS

*Moderator:*

---

- 12:05 PM **Mark J. Shlomchik, MD, PhD**  
University of Pittsburgh, Pittsburgh, PA, USA  
*The cellular basis of humoral immunity*
- 12:35 PM **Ali Ellebedy, PhD**  
Washington University School of Medicine in St. Louis, St. Louis, MO, USA  
*Dynamics of anti-SARS-CoV-2 immune reactions*
- 1:05 PM **Rita Carsetti, MD**  
Bambino Gesù Children Hospital, IRCCS, Rome, Italy  
*IgA and IgA deficiencies in COVID-19*
- 1:35 PM **Mir-Farzin Mashreghi, PhD**  
DRFZ, Berlin, Germany  
*Bone marrow memory B cells*
- 2:05 PM **Michael Reth, PhD**  
University of Freiburg, Freiburg, Germany  
*Class-specific antigen sensing of primary and secondary B cells*
- 2:35 PM **Michel C. Nussenzweig, MD, PhD**  
The Rockefeller University & Howard Hughes Medical Institute, New York, NY, USA  
*Evolution of Primary and Secondary Immune Responses*
- 3:05 PM *BREAK UNTIL 3:30 PM*
-

---

## SHORT-LIVED AND LONG-LIVED PLASMA CELLS

*Moderator:*

---

- 3:30 PM **Marion Espéli, PhD**  
University of Paris Cité, Saint-Louis Research Institute, Paris, France  
*Intrinsic and Extrinsic Regulation of Plasma Cell Maintenance*
- 4:00 PM **Claudia Mauri, PhD**  
University College London, London, UK  
*Regulatory B and Plasma Cells*
- 4:30 PM **Simon Fillatreau, PhD**  
The Institut Necker-Enfants Malades (INEM), Paris, France  
*Regulatory Plasma Cells: Characterisation and Therapeutic Utilisation*

5:00 PM *BREAK UNTIL 5:30 PM*

---

## HETEROGENEITY OF LONG-LIVED PLASMA CELLS

*Moderator:*

---

- 5:30 PM **Thomas Dörner, MD**  
Charité - University Medicine Berlin, Berlin, Germany  
*Heterogeneity of Human Bone Marrow Plasma Cells*
- 6:00 PM **Peter Pioli, PhD**  
University of Saskatchewan, Saskatoon, SK, Canada  
*Breaking Dawn: Shedding Light on Thymus Antibody-Secreting Cells*
-

---

## FRIDAY, APRIL FOURTEENTH

---

### PATHOGENIC PLASMA CELLS

*Moderator:*

---

- 9:00 AM      **Ignacio Sanz, MD**  
Emory University, Atlanta, GA, USA  
*B Cell Pathways in the Generation of Pathogenic Autoreactive Plasma Cells in SLE and Severe COVID-19*
- 9:30 AM      **Ludvig M. Sollid, MD**  
University of Oslo, Oslo, Norway  
*Gut Plasma Cells and Their Role in Celiac Disease*
- 10:00 AM     **Gerd-Rüdiger Burmester, MD**  
Charité - University Medicine Berlin, Berlin, Germany  
*Anti-Modified Protein Antibodies (AMPAs) in The Pathogenesis of Rheumatoid Arthritis*

10:30 AM     **BREAK UNTIL 11:00 AM**

---

### ANNUAL MEMORIAL LECTURE

*Introduction:*

---

- 11:00 AM     **Jean-Claude Weill, PhD**  
Institut Necker-Enfants Malades (INEM), Paris, France  
*How Humans Respond to T Dependent and T Independent Vaccines*

12:15 PM     **LUNCH BREAK UNTIL 1:30 PM**

---

### PATHOGENIC PLASMA CELLS

*Moderator:*

---

- 1:30 PM      **Jean-Laurent Casanova, MD, PhD**  
The Rockefeller University & Howard Hughes Medical Institute, New York, NY, USA;  
*The Human Genetic and Immunological Determinants of Life-Threatening COVID-19*
- 2:00 PM      **Helena Radbruch, MD**  
Charité - University Medicine Berlin, Berlin, Germany  
*Pathogenic Plasma Cells and Their Impact on Our Brain and Muscles*
- 2:30 PM      **Jen Gommerman, PhD**  
University of Toronto, Toronto, Canada  
*Fantastic IgA Plasma Cells and Where to Find Them*

3:00 PM      **BREAK UNTIL 3:30 PM**

---

---

## MAINTENANCE OF MEMORY B AND PLASMA CELLS – WHERE AND HOW

*Moderator:*

---

- 3:30 PM      **David M. Tarlinton, PhD**  
Monash University, Melbourne, Australia  
*Timestamping Plasma Cells Reveals Mechanisms of Recruitment and Persistence*
- 4:00 PM      **Hans-Martin Jäck, PhD**  
University of Erlangen, Erlangen, Germany  
*MicroRNAs Impacting on Plasma Cell Generation and Maintenance*
- 4:30 PM      **Hyun-Dong Chang, PhD**  
DRFZ Berlin and Technical University of Berlin, Berlin, Germany  
*The Plasma Cell Niche - Necessary and Sufficient Signals for Plasma Cell Survival*
- 5:00 PM      **David M. Allman, PhD**  
University of Pennsylvania, Philadelphia, PA, USA  
*Harnessing The Unique Biochemistry of Plasma Cells*
- 5:30 PM      **Anja E. Hauser, PhD**  
DRFZ, Berlin, Germany  
*Maintenance Of Plasma Cells - Where and How*
- 6:00 PM      **Simone Cenci, MD**  
University Vita-Salute San Raffaele and Ospedale San Raffaele, Milano, Italy  
*Unprecedented Mitochondrial Vulnerabilities Against Multiple Myeloma*
-

## SATURDAY, APRIL FIFTEENTH

---

### THERAPEUTIC ADDRESS OF PATHOGENIC PLASMA CELLS

*Moderator:*

---

- 9:00 AM      **Koji Tokoyoda, PhD**  
Tottori University, Tottori, Japan  
*Targeting Isotype-Specific Plasma Cell Niches*
- 9:30 AM      **Tobias Alexander, MD**  
Charité - University Medicine Berlin, Berlin, Germany  
*Generic Ablation of Plasma Cells Versus Immunoreset by Immunoablation and Autologous Stem Cell Transplantation*
- 10:00 AM     **Georg Schett, MD**  
Friedrich-Alexander University Erlangen-Nürnberg, Erlangen, Germany  
*Reset of Autoimmune Disease by CAR T Cell Therapy*
- 10:30 AM     **Falk Hiepe, MD**  
Charité - University Medicine Berlin, Berlin, Germany  
*Antigen-specific Ablation of Pathogenic Plasma Cells*
- 11:00 AM     **Matthieu Mahévas, MD**  
AP-HP (Assistance Publique/Hopitaux de Paris and Institut Necker-Enfants Malades)  
*Long-lived Plasma Cells in Autoimmunity: Lessons From B-cell Depleting Therapy*

### CONCLUSION

---

- 11:30 PM     *Closing Remarks*  
**Luigi D. Notarangelo, PhD**, President, Henry Kunkel Society
-

A SPECIAL THANKS TO OUR MEETING SPONSORS:

---

