

# 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.*

THE ROCKEFELLER UNIVERSITY | NEW YORK, NY | APRIL 13-15, 2023



SCIENCE FOR THE BENEFIT OF HUMANITY



# 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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† NEW MEMBER 2023  
\* DECEASED MEMBER

THUR  
04/13  
2023

12:00 PM

12:05 PM

12:35 PM

1:05 PM

1:35 PM

2:05 PM

2:35 PM

3:05 PM

3:30 PM

4:00 PM

4:30 PM

◆ CARSON FAMILY AUDITORIUM

## COMMENCEMENT

*Welcome Remarks*

**Luigi Notarangelo, MD**, President, Henry Kunkel Society

## DYNAMICS OF PRIMARY AND SECONDARY HUMORAL IMMUNE REACTIONS

MODERATOR: GAIA TRINCUCCI, PHD, JEM SCIENTIFIC EDITOR

**Mark J. Shlomchik, MD, PhD**

University of Pittsburgh, Pittsburgh, PA, USA

*Programming of Extrafollicular Versus Germinal Center Response*

**Ali Ellebedy, PhD**

Washington University School of Medicine in St. Louis, St. Louis, MO, USA

*Dynamics of Anti-SARS-CoV-2 Immune Reactions*

**Rita Carsetti, MD**

Bambino Gesù Children Hospital, IRCCS, Rome, Italy

*IgA and IgA Deficiencies in COVID-19*

**Andreas Radbruch, PhD**

DRFZ, Berlin, Germany

*Maintenance and Residency of Memory B Cells in the Spleen and in the Bone Marrow*

**Michael Reth, PhD**

University of Freiburg, Freiburg, Germany

*The Molecular Basis of Humoral Immunity*

**Michel C. Nussenzweig, MD, PhD**

The Rockefeller University & Howard Hughes Medical Institute, New York, NY, USA

*Evolution of Primary and Secondary Immune Responses*

## BREAK UNTIL 3:30 PM

## SHORT-LIVED AND LONG-LIVED PLASMA CELLS

MODERATOR: MICHEL C. NUSSENZWEIG, MD, PHD, JEM EDITORIAL BOARD CO-CHAIR

**Marion Espéli, PhD**

University Paris Cité, Saint-Louis Research Institute, Paris, France

*Intrinsic and Extrinsic Regulation of Plasma Cell Maintenance*

**Claudia Mauri, PhD**

University College London, London, UK

*Metabolic Requirements of Bregs and Plasma Cells*

**Simon Fillatreau, PhD, JEM Speaker**

The Institut Necker-Enfants Malades (INEM), Paris, France

*Regulatory Plasma Cells: Characterisation and Therapeutic Utilisation*

THUR  
04/13  
2023

5:00 PM

**BREAK UNTIL 5:30 PM**

**HETEROGENEITY OF LONG-LIVED PLASMA CELLS**

MODERATOR: STUART G. TANGYE, PHD, JEM ADVISORY EDITOR

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, Canada  
*Breaking Dawn: Shedding Light on Thymus Antibody-Secreting Cells*

6:30 PM

**COCKTAIL RECEPTION (FOR PURCHASE)**

♦ CARSON FAMILY AUDITORIUM

FRI  
04/14  
2023

8:30 AM

**BREAKFAST UNTIL 9:00 AM**

**PATHOGENIC PLASMA CELLS**

MODERATOR: MONTSERRAT COLS VIDAL, PHD, JEM SCIENTIFIC EDITOR

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*

♦ CASPARY AUDITORIUM

10:30 AM

**BREAK UNTIL 11:00 AM**

**ANNUAL MEMORIAL LECTURE**

INTRODUCTION: LUIGI NOTARANGELO, MD

11:00 AM

**Jean-Claude Weill, PhD**

Paris Cité University, Institut Necker Enfants Malades (INEM), Paris, France  
*How Humans Respond to T Dependent and T Independent Vaccines*

FRI  
04/14  
2023

12:15 PM

**LUNCH BREAK UNTIL 1:30 PM**

**PATHOGENIC PLASMA CELLS**

MODERATOR: LUCIE VAN EMMENIS, PHD, JEM SCIENTIFIC EDITOR

1:30 PM

**Jean-Laurent Casanova, MD, PhD**

The Rockefeller University & Howard Hughes Medical Institute, New York, NY, USA; University of Paris Cité & Necker Hospital for Sick Children, Paris, France  
*Autoimmunity as a Cause of Life-Threatening Viral Disease*

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

**Jennifer 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: STUART G. TANGYE, PHD, JEM ADVISORY EDITOR

3:30 PM

**David M. Tarlinton, PhD**

Monash University, Melbourne, Australia  
*TimeStamping Plasma Cells Reveals Mechanisms of Recruitment and Persistence*

4:00 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*

4:30 PM

**David M. Allman, PhD**

University of Pennsylvania, Philadelphia, PA, USA  
*Harnessing the Unique Biochemistry of Plasma Cells*

5:00 PM

**Anja E. Hauser, PhD**

DRFZ, Berlin, Germany  
*Maintenance of Plasma Cells - Where and How*

5:30 PM

**Simone Cenci, MD**

University Vita-Salute San Raffaele and Ospedale San Raffaele, Milan, Italy  
*Unprecedented Mitochondrial Vulnerabilities Against Multiple Myeloma*

♦ ABBY DINING ROOM

6:00 PM

**DINNER (FOR PURCHASE)**

S A T  
04/15  
2023

◆ CARSON FAMILY AUDITORIUM

8:30 AM

**BREAKFAST UNTIL 9:00 AM**

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**THERAPEUTIC ADDRESS OF PATHOGENIC PLASMA CELLS**

MODERATOR: SHACHI BHATT, PHD, JEM EXECUTIVE EDITOR

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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**

Assistance Publique/Hopitaux de Paris and Institut Necker-Enfants Malades (AP-HP), Paris, France

*Remodeling of the B Cell Response During COVID-19*

**CONCLUSION**

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11:30 AM

*Closing Remarks*

**Luigi Notarangelo, MD**, President, Henry Kunkel Society



SCAN FOR MORE INFORMATION



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