

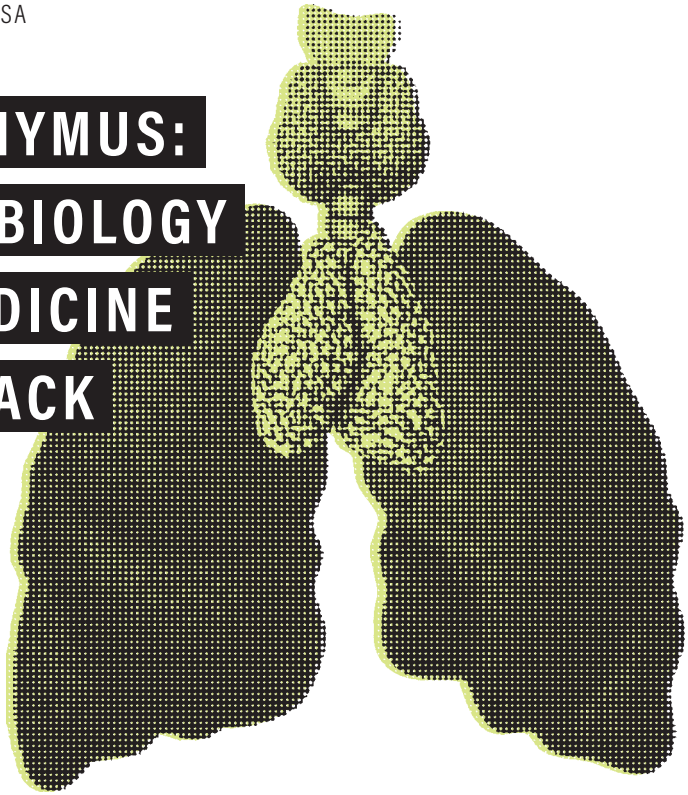
APRIL 11-13, 2024



31ST ANNUAL HENRY KUNKEL SOCIETY MEETING

THE ROCKEFELLER UNIVERSITY
NEW YORK, NY, USA

THE THYMUS: FROM BIOLOGY TO MEDICINE AND BACK



IN PARTNERSHIP WITH
JOURNAL OF EXPERIMENTAL MEDICINE (JEM)
THE ROCKEFELLER UNIVERSITY FRIDAY LECTURE SERIES (FLS)



JEM Journal of
Experimental
Medicine

WELCOME

On behalf of the organizers, it is my pleasure to welcome you to the 2024 scientific meeting of the Henry Kunkel Society: “The thymus: from biology to medicine and back.” We are thrilled to have a terrific group of leading investigators in this line of research and are looking forward to hearing the latest in cutting edge research in this area. In the tradition of Kunkel Society meetings, we aim to bring together and bridge experts in fundamental immunobiology, translational immunology, and clinical medicine. Thymic biology continues to provide new insights and surprises to the control of the immune system and human health. The meeting will be a great venue to not only hear the latest but also a forum to spark and foster new collaborations. Thank you for joining us in New York City for what should be a fantastic meeting!

MEETING CHAIR

MARK S. ANDERSON, MD, PHD
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

HENRY KUNKEL SOCIETY

EXECUTIVE COMMITTEE

Luigi D. Notarangelo
President

Helen C. Su
Secretary

Jean-Laurent Casanova
Past President

Dusan Bogunovic
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YORK AVE.



LOCATIONS

- 1 66TH STREET GATE MAIN ENTRANCE
- 2 CASPARY AUDITORIUM
- 3 ABBY DINING ROOM
- 4 GREENBERG BUILDING LOWER LEVEL
- 5 CARSON FAMILY AUDITORIUM

LOGISTICS

The Rockefeller University
1230 York Avenue, New York, NY 10065
+1 (212) 327 8000

GETTING HERE

By subway: Take the 6 to 68th Street/Hunter College, or the Q to 2nd Avenue/72nd Street (exit at 69th Street). We are a half-mile from the subway.

By bus: Take the M31 to 66th Street or the M66 to York Avenue. Both routes pass within steps of our entrance.

WIFI NETWORK

RUGuest (*No password, agree to terms to connect*)



HENRY GEORGE KUNKEL, MD

1916-1983

Henry Kunkel received his BS degree from Princeton and his MD 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 LECTURERS

1992.....	Louis Kunkel
1993.....	David Ho
1994.....	Benvenuto Pernis
1996.....	Jeffrey Ravetch
1997.....	Anthony Fauci
1998.....	Klaus Rajewsky
1999.....	Peter Doherty
2000.....	Max D. Cooper
2001.....	Fritz Melchers
2002.....	Tasuku Honjo
2003.....	Fred Rosen
2004.....	Diane Mathis
2005.....	Charles Weissman
2006.....	Ralph M. Steinman
2007.....	Antonio Lanzavecchia
2008.....	John Atkinson
2009.....	Thomas Tuschl
2010.....	Frederick Alt
2011.....	Mark M. Davis
2012.....	Louis M. Staudt
2013.....	Daniel L. Kastner
2014.....	Shigekazu Nagata
2015.....	Yanick Crow
2016.....	Michel C. Nussenzweig
2017.....	Carl Nathan
2018.....	Michael Lenardo
2019.....	Alain Fischer
2021.....	Tadatsugu Taniguchi
2022.....	Federica Sallusto
2023.....	Jean-Claude Weill

THURSDAY

APRIL 11, 2024

MEETING CHECK-IN

GREENBERG BUILDING
LOWER LEVEL

11:30 PM - 12:00 PM

MEETING COMMENCEMENT

CARSON FAMILY
AUDITORIUM

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

**THYMIC COMPOSITION AND LYMPHOSTROMAL
CROSS-TALK (1/3)**

CARSON FAMILY
AUDITORIUM

Moderator: Shachi Bhatt, PhD, Executive Editor, JEM

12:05 PM **Mark S. Anderson, MD, PhD**
University of California San Francisco, San Francisco, United States
Thymic Tolerance and Type 1 Diabetes

12:35 PM **Diane Mathis, PhD**
Harvard Medical School, Boston, United States
Thymic Mimetic Cells

01:05 PM **Nuno Alves, PhD**
Instituto de Investigação e Inovação em Saúde (i3S), Porto, Portugal
Molecular Control of Thymic Epithelial Cell Differentiation and Function

01:35 PM **Tom Taghon, PhD**
Ghent University, Ghent, Belgium
Role of Thymic Dendritic Cells in Promoting Human T-Cell Lineage Specification

COFFEE BREAK

GREENBERG BUILDING
LOWER LEVEL

2:05 - 2:30 PM

THYMIC COMPOSITION AND LYMPHOSTROMAL
CROSS-TALK (2/3)

CARSON FAMILY
AUDITORIUM

Moderator: Zhijuan Qiu, PhD, Scientific Editor, JEM

02:30 PM **Ellen V. Rothenberg, PhD, JEM Speaker**

California Institute of Technology, Pasadena, United States
Gene Regulatory Networks in T-Cell Commitment

03:00 PM **Thomas Boehm, PhD**

Max Planck Institute, Freiburg, Germany
Molecular Signals Controlling Intrathymic T-Cell Development

03:30 PM **Alexander Rudensky, PhD**

Memorial Sloan Kettering Cancer Center & Howard Hughes Medical
Institute, New York, United States
Regulatory T-Cell Differentiation in the Thymus and Beyond

COFFEE BREAK

GREENBERG BUILDING
LOWER LEVEL

4:00 - 4:30 PM

THYMIC COMPOSITION AND LYMPHOSTROMAL
CROSS-TALK (3/3)

CARSON FAMILY
AUDITORIUM

Moderator: Gaia Trincucci, PhD, Deputy Editor, JEM

04:30 PM **Graham Anderson, PhD**

University of Birmingham, Birmingham, United Kingdom
Role of Eosinophils in Thymus Regeneration

05:00 PM **Stephen Daley, PhD**

Queensland University of Technology, Brisbane, Australia
*Covalent TCR-Peptide-MHC Interactions Redirect T-Cell Fate in the
Thymus*

05:30 PM **Michael Waterfield, MD, PhD**

University of California San Francisco, San Francisco, United States
Role of IKAROS in mTEC Development and Function

06:00 PM **Ellen A. Robey, PhD**

University of California at Berkeley, Berkeley, United States
T-Cell Fate Decisions in the Thymus

COCKTAIL HOUR (ADDITIONAL CHARGE)

GREENBERG BUILDING
LOWER LEVEL

6:30 - 7:30 PM

FRIDAY

APRIL 12, 2024

BREAKFAST (PROVIDED)

GREENBERG BUILDING
LOWER LEVEL

8:00 - 8:30 AM

**T-CELL TRAFFICKING AND IN VIVO DYNAMICS
OF T-CELL RESPONSES**

CARSON FAMILY
AUDITORIUM

Moderator: Shachi Bhatt, PhD, Executive Editor, JEM

8:30 AM **Juan Carlos Zúñiga-Pflücker, PhD**
University of Toronto & Sunnybrook Research Institute, Toronto,
Canada

Fixing to Find a Home for Progenitor T-Cells

9:00 AM **Leonard I. Zon, MD**
Harvard Medical School, Boston, United States

*Tracking T-Cell Development and Homing in Zebrafish: From the Thymus
to Cancer Niche*

9:30 AM **Mark M. Davis, PhD**
Stanford University School of Medicine & Howard Hughes Medical
Institute, Stanford, United States

*Tracking T-Cell Receptor Specificity During Immune Response to Infections
and Cancer*

COFFEE BREAK

GREENBERG BUILDING
LOWER LEVEL

10:00 - 10:30 AM

THYMIC SPATIAL ORGANIZATION AND
DISEASE MODELING

CARSON FAMILY
AUDITORIUM

Moderator: Lucie Van Emmenis, PhD, Scientific Editor, JEM

- 10:30 AM **Marita Bosticardo, PhD**
National Institute of Allergy and Infectious Diseases, NIH, Bethesda,
United States
*In Vitro Modeling of Hematopoietic and Thymic Causes of T-Cell
Lymphopenia*
- 11:00 AM **Ronald N. Germain, MD, PhD**
National Institute of Allergy and Infectious Diseases, NIH, Bethesda,
United States
High-Resolution Spatial Organization
- 11:30 AM **Audrey Parent, PhD**
University of California San Francisco, San Francisco, United States
Modeling Human Autoimmune Diabetes Using Pluripotent Stem Cells
- 12:00 PM **Peter Zandstra, PhD**
University of British Columbia, Vancouver, Canada
Engineering Lymphoid Development from Stem Cells

LUNCH (PROVIDED)

GREENBERG BUILDING
LOWER LEVEL

12:30 - 01:30 PM **JEM Editor Meet & Greet**

HUMAN CONGENITAL THYMIC AND T-CELL
DEFECTS (1/2)

CARSON FAMILY
AUDITORIUM

Moderator: Montserrat Cols, PhD, Senior Scientific Editor, JEM

- 01:30 PM **Alexandra Y. Kreins, MD, PhD**
University College London, London, United Kingdom
Human Congenital Athymia
- 02:00 PM **Nicolai S.C. van Oers, PhD**
The University of Texas Southwestern Medical Center, Dallas, United
States
Molecular Insights From Congenital Thymic Defects in Humans
- 02:30 PM **Sarah S. Dinges, MD**
Charité – Berlin University of Medicine, Berlin, Germany
A Novel Defect of Human Thymic Development

FRIDAY

APRIL 12, 2024

COFFEE BREAK

CASPARY AUDITORIUM

03:00 - 03:30 PM

KUNKEL MEMORIAL LECTURE

CASPARY AUDITORIUM

Introduction: Luigi D. Notarangelo, MD, President, Henry Kunkel Society

03:30 PM **Christopher C. Goodnow, PhD**

Garvan Institute of Medical Research, Darlinghurst, Australia
Autoimmunity, Immune Tolerance Checkpoints, and Somatic Mutations

HUMAN CONGENITAL THYMIC AND T-CELL DEFECTS (2/2)

CARSON FAMILY AUDITORIUM

Moderator: Montserrat Cols, PhD, Senior Scientific Editor, JEM

04:45 PM **Vivien Béziat, PhD**

INSERM, Paris Cité University, Paris, France
The Immunopathological Landscape of Human Pre-TCRa Deficiency: From Rare to Common Variants

05:15 PM **Tom Le Voyer, MD, PhD**

Necker Hospital for Sick Children, Paris, France
NFKB2 Signaling in the Thymus Controls Production of Anti-Type I IFN Antibodies

05:45 PM **Gay M. Crooks, MD**

University of California Los Angeles, Los Angeles, United States
In Vitro Generation of Therapeutic T-Cells

DINNER RECEPTION (ADDITIONAL CHARGE)

ABBY ALDRICH
ROCKEFELLER DINING
ROOM

06:15 - 08:15 PM

Autoimmunity, immune tolerance checkpoints, and somatic mutations

Henry Kunkel was one of the first to reveal the immune system sometimes makes the catastrophic mistake of synthesizing antibodies against our body's self components, defining autoimmune diseases now known collectively to affect more than 10% of people at some point in their lives. Autoimmune diseases pose two central questions: how does our immune system normally learn to distinguish self from non-self to avoid making autoantibodies, and how does that fail in autoimmune diseases?

Max Planck famously said that science progresses one funeral at a time. The story I will tell you today is how medical scientists have not waited quite so long for progress in autoimmune disease: births of new technologies especially from molecular genetics have changed our minds and revealed answers we could never have imagined.

I will illustrate with personal stories from published and unpublished work by my collaborators and I in three autoimmune diseases: the unexpected role of the thymus revealed by autoimmune polyendocrine syndrome; lymphoma driver somatic mutations in innate lymphoid cells/progenitor T-Cells and mature T-Cells in the intestine of refractory celiac disease; and a perfect storm of B cell somatic mutagenesis precipitated by hepatitis c virus leading to Kunkel's rheumatoid factors in cryoglobulinemic vasculitis.



**CHRISTOPHER C.
GOODNOW, PHD**

Christopher C. Goodnow holds The Bill and Patricia Ritchie Foundation Chair as Head of the Immunogenomics Laboratory at the Garvan Institute of Medical Research, and is Professor in the Cellular Genomics Futures Institute and School of Biomedical Sciences at UNSW Sydney. Chris trained in veterinary medicine and surgery, immunochemistry, and immunology at Sydney University and in DNA technology and molecular immunology at Stanford University. Previous faculty positions were HHMI Investigator at Stanford University, and founding Director of the Australian Phenomics Facility at the Australian National University. Chris' team discovered the immune tolerance checkpoints controlling antibody production, which prevent autoimmune disease and target antibodies against foreign infections. Chris' awards include: American Association of Immunologists Distinguished Fellow, Pharmingen Award, and Herzenberg Award; William E. Paul Award; past President and Burnet Orator of the Australian & New Zealand Society for Immunology; Gottschalk Medal; Health Minister's Prize; Centenary Medal; Ramaciotti Medal; GSK Award for Research Excellence. He is a Fellow of the Australian Academy of Science, Fellow of the Royal Society, and Member of the US National Academy of Sciences.

SATURDAY

APRIL 13, 2024

BREAKFAST (PROVIDED)

GREENBERG BUILDING
LOWER LEVEL

8:00 - 8:30 AM

**THYMOCYTE AND THYMIC EPITHELIAL CELL
DEVELOPMENT**

CARSON FAMILY
AUDITORIUM

Moderator: Xin (Cindy) Sun, PhD, Deputy Editor, JEM

8:30 AM **Daniel Gray, PhD**

The Walter and Eliza Hall Institute, Melbourne, Australia
Age-Related Epithelial Defects Limit Thymic Function and Regeneration

9:00 AM **Rémy Bosselut, MD, PhD**

National Cancer Institute, NIH, Bethesda, United States
*Single-Cell and Tissue Transcriptomics to Map Intrathymic T-Cell
Developmental Trajectories and Lineage Decisions*

**CURRENT AND FUTURE APPROACHES TO
TREATMENT**

CARSON FAMILY
AUDITORIUM

Moderator: Shachi Bhatt, PhD, Executive Editor, JEM

9:30 AM **John W. Sleasman, MD**

Duke University, Durham, United States
Thymus Implantation in the Treatment of Congenital Athymia

10:30 AM **Michail S. Lionakis, MD, ScD**

National Institute of Allergy and Infectious Diseases, NIH, Bethesda,
United States
Novel Approaches to the Treatment of APECED

11:00 AM **Anna Villa, MD**

San Raffaele Telethon Institute for Gene Therapy, IRCCS San Raffaele
Scientific Institute, Milan, Italy
Gene Editing-Based Correction of SCID

MEETING ADJOURNMENT

CARSON FAMILY
AUDITORIUM

11:30 AM **Luigi D. Notarangelo, MD**
Henry Kunkel Society, President
Closing Remarks

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 Yanick Crow
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 Rundles
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 Randall S. Davis
 Jean-Michel Dayer
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 Rasheed[†]
 Jean Pierre De Villartay
 Silvia Deaglio
 Thomas Decker
 James Di Santo
 Betty A. Diamond

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Taia T. Wang
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Klaus Warnatz
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Peter Zandstra[†]
Ivan Zanoni
Jianying Zhang
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Song Guo Zheng
Rolf Zinkernagel

Leonard Zon[†]

Yong-Rui Zou

Juan Carlos Zuniga-
Pflucker

[†] New Member 2024

[#] Deceased Member

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