

Thursday, March 21, 2019

Location: Carson Family Auditorium

- 1:00 p.m. **Welcoming Remarks**
Jean-Laurent Casanova, President, Henry Kunkel Society
- 1:05 p.m.–3:35 p.m. **Session I: Immune system development and function in health and disease**
Chair: Alexander Rudensky, JEM Academic Editor
- 1:05 p.m. **Federica Sallusto**
IRB, Università della Svizzera Italiana, Bellinzona, Switzerland
The development of human Th cells
- 1:35 p.m. **Stuart Tangye**
Garvan Institute of Medical Research, Sydney, Australia
Learning human immunology from the study of PIDs- CIRCA 2019
- 2:05 p.m. **Rafi Ahmed**
Emory University, Atlanta, GA, USA
Harnessing T cell memory and effector function
- 2:35 p.m. **Christophe Benoist**
Harvard Medical School, Boston, MA, USA
Errors of tolerance
- 3:05 p.m. **Pamela Schwartzberg**
National Institutes of Health, Bethesda, MD, USA
Cell-autonomous and cell-extrinsic mechanisms of immune dysregulation in APDS Insights from mice
- 3:35 p.m. **Afternoon break until 4:00 p.m.**
- 4:00 p.m.–5:00 p.m. **Session II: Modeling human disease with induced pluripotent stem cells**
Chair: Teodoro Pulvirenti, JEM Executive Editor
- 4:00 p.m. **Rudolf Jaenisch**
MIT, Cambridge, MA, USA
Human stem cell and disease modeling
- 4:30 p.m. **Vittorio Sebastiano**
Stanford University, Stanford, CA, USA
Unraveling faulty thymic development of DiGeorge syndrome with patient-derived iPS cells
- 5:00 p.m. **Gregory Smith**
Northwestern University Feinberg School of Medicine, Chicago, IL, USA
Cellular mechanisms of faulty control of HSV in herpes simplex encephalitis: A virology view with iPS-derived neurons
- 5:30 p.m. **Cocktail Reception** (for purchase)

Friday, March 22, 2019

Location: Carson Family Auditorium

8:00 a.m.–9:00 a.m.

Breakfast

9:00 a.m.–3:00 p.m.

Session III: Novel inborn errors of immunity

Chair: Carl Nathan, JEM Editorial Board Co-Chair

9:00 a.m.

Helen Su

National Institute of Allergy and Infectious Diseases,
NIH, Bethesda, MD, USA

*Elucidating the molecular pathogenesis of a novel
immunodeficiency- immunodysregulation disease*

9:30 a.m.

Carrie Lucas

Yale School of Medicine, New Haven, CT, USA

*A new PI3K gene defect with immunodeficiency and tissue
immunopathology*

10:00 a.m.

Morning Break until 10:30 a.m.

Chair: Michel Nussenzweig, JEM Editorial Board Co-Chair

10:30 a.m.

Richard Cornall

MRC Human Immunology Unit, University of Oxford, Oxford, UK

Modelling a new B cell immunodeficiency syndrome

11:00 a.m.

Luigi D. Notarangelo, 2019 HKS Program Chair

National Institute of Allergy and Infectious Diseases,
NIH, Bethesda, MD, USA

A novel and unexpected cause of SCID

11:30 a.m.

Nada Jabado

McGill University, Montreal, Canada

*Unleashing the immune system: an experiment of nature
highlights TIM3 inhibitory function*

12:00 p.m.

Lunch until 1:30 p.m.

Chair: David Tuveson, JEM Academic Editor

1:30 p.m.

Jean-Laurent Casanova

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

Severe infections as inborn errors of immunity

2:00 p.m.

Stephanie Boisson-Dupuis

Necker Hospital for Sick Children, Paris, France

A monogenic and common cause of human tuberculosis

2:30 p.m.

Anna Villa

San Raffaele Telethon Institute for Gene Therapy & CNR-IRBG,
Milan Italy

Leakage in mucosal barriers: a novel player in Omenn syndrome

3:00 p.m.

Afternoon break until 3:45 p.m.

Friday, March 22, 2019

Location: Caspary Auditorium

3:45 p.m.

Introduction for Inaugural Memorial Lecture
Jean-Laurent Casanova

Alain Fischer

Collège de France, Paris, France

Inaugural Memorial Lecturer

Twenty years of gene therapy for children with SCID

5:30 p.m.

Dinner (for purchase)

Saturday, March 23, 2019

Location: Carson Family Auditorium

8:00 a.m.–9:00 a.m.

Breakfast

9:00 a.m.–10:00 a.m.

Session IV: Systems biology and single-cell genomics

Chair: Gaia Trincucci, JEM Scientific Editor

9:00 a.m.

Naresha Saligrama

Stanford University School of Medicine, Stanford, CA, USA

From T cell receptor to antigen; Systems approaches to discovering T cell antigen(s) in neurological diseases

9:30 a.m.

Alexandra-Chloé Villani

Massachusetts General Hospital, Boston, MA, USA

The power of ONE: solving biomedical challenges through single cell genomics approaches

10:00 a.m.–12:00 p.m.

Session V: Novel therapeutic approaches

Chair: Stephanie Houston, JEM Scientific Editor

10:00 a.m.

Juan Carlos Zúñiga-Pflücker

University of Toronto, Toronto, Canada

Speeding up immune reconstitution with in vitro generation of human pro-T cell in a cell-free system

10:30 a.m.

Morning Break until 11:00 a.m.

11:00 a.m.

Judith Shizuru

Stanford University, Palo Alto, CA, USA

Novel approaches to open the stem cell niche: in vivo experience in SCID children

11:30 a.m.

Matthew Porteus

Stanford University School of Medicine, Stanford, CA, USA

Genome editing for the treatment of genetic diseases of the blood and immune system

12:00 p.m.

Closing Remarks

Jean-Laurent Casanova