

The 57th Midwinter Conference of Immunologists at Asilomar



January 27 -30, 2018

Asilomar Conference Grounds, Pacific Grove, California

Christel Uittenbogaart, Executive Director

Roberta Meyers-Elliott, Treasurer

Jessica A. Hamerman and Matthew F. Krummel

Chairpersons

The Dan H. Campbell Memorial Lecture

Sponsored by The American Association of Immunologists

Saturday, January 27, 8:00 PM

The Chapel Auditorium

James P. Allison

University of Texas, MD Anderson Cancer Center

*“Immune Checkpoint Blockade in Cancer Therapy:
Insights, Opportunities, and Prospects for Cures”*

Council Members

Gregory Barton
Daniel Campbell
Michael Cancro
Rachel Caspi
Hilde Cheroutre
Shane Crotty
Laurie Dempsey
Pamela Fink
Jason Fontenot
Jessica Hamerman
Wendy Havran

Stephen M. Hedrick
Kristin Hogquist
Christopher Hunter
Mitchell Kronenberg
Max Krummel
Michael Kuhns
Terri Laufer
David Lewis
Ann Marshak-Rothstein
Roberta Meyers-Elliott
Tomas Mustelin

Marion Pepper
Roberta Pollock
David Scott
Dan Stetson
Jenna M. Sullivan
Shannon Turley
Christel Uittenbogaart
David Webb
Arthur Weiss
Steven Ziegler
Martha Zuniga

CONFERENCE SCHEDULE

All Sessions: The Chapel Auditorium

Saturday, January 27th

4:00 pm

Registration

8:00 pm

The Dan H. Campbell Memorial Lecture

9:00–11:00 pm

Reception in the Nautilus Room

Sunday, January 28th

8:30–12:00 Noon

Session I

Spatiotemporal Dimensions of the Immune Response

4:00– 6:00 pm

Poster Session

Fred Farr Forum and Kiln Room

7:30–10:00 pm

Session II

Frontiers in Ligand Detection and Signaling

10:00–11:00 pm

Reception

Fred Farr Forum and Kiln Room

Monday, January 29th

8:30 – 12:00 Noon

Session III

The Immune System as an Information System

4:00 – 6:00 PM

Oral Presentations

The Chapel Auditorium

7:30 – 10:00 PM

Session IV

Myeloid Cells in Health and Disease

10:00–11:00 PM

Reception

Fred Farr Forum and Kiln Room

Tuesday, January 30st

8:30–12:00 Noon

Session V

**Lessons at the Interface of Tumor Immunology,
Inflammation and Autoimmunity**

Sunday through Monday

Posters on Display

Fred Farr Forum and Kiln Room

CONFERENCE PROGRAM

SESSION I

Spatiotemporal Dimensions of the Immune Response

Sunday Morning

Chairperson: Max Krummel

8:30-12:00 Noon

Speakers:

Gabriel Victora, Rockefeller University
“Monitoring Cell-cell Interactions *in vivo*”

Daniel Mucida, Rockefeller University
“Immune Homeostasis by Compartmentalized Gut Lymph Node
Drainage”

Stephanie Eisenbarth, Yale University
“Guiding T Cell Fate: Spatial Leukocyte Organization Dictates
Function”

Mark Looney, University of California, San Francisco
“Imaging Platelet Biogenesis in the Lung Microcirculation”

Two short presentations chosen from abstracts

Sunday Afternoon
4:00 – 6:00 PM

POSTER SESSION and informal discussion groups.

SESSION II

Sunday Evening
7:30–10:00 PM

Frontiers in Ligand Detection and Signaling

Chairperson: Greg Barton

Speakers:

Crystal Mackall, Stanford University
“Enhancing the Efficacy of CAR T Cells”

Mike Kuhns, University of Arizona
“Revisiting CD4 Biology: Accessory, Coreceptor, Both or Neither?”

Tanya Freedman, University of Minnesota
“An Interplay Between the Src-family Kinase LynA and the E3 Ligase c-Cbl Tunes the Macrophage Response Threshold”

Greg Barton, University of California, Berkeley
“Nucleic Acid Recognition by Toll-like Receptors”

SESSION III

Monday Morning
8:30-12:00 Noon

The Immune System as an Information System

Chairperson: Jimmie Ye

Speakers:

John Tsang, National Institutes of Health
“Do Differences make a Difference: Human Immune Responsiveness and single-cell variations.”

Andrea Scheitinger, Memorial Sloan Kettering Cancer Center
“Molecular and Epigenetic Programs Defining Tumor-Specific T cell Dysfunction”

Chris Glass, University of California, San Diego
“Nature and Nurture of Tissue Resident Macrophages”

Michael Angelo, Stanford University
“Massively Multiplexed Single Cell Analysis in Human Health and Disease”

Two short presentations chosen from abstracts

Monday Afternoon
4:00 – 6:00 PM

ORAL POSTER PRESENTATIONS

SESSION IV

Monday Evening
7:30 -10:00 PM

Myeloid Cells in Health and Disease

Chairperson: Miriam Merad

Speakers:

Catherine Hedrick, La Jolla Institute

“Monocyte Heterogeneity in Inflammation and Disease”

Miriam Merad, Mt. Sinai School of Medicine

“Single Analysis of Fate Mapped Macrophages Reveals the Distinct Contribution of Tissue- Resident Macrophages to Tumor Outcome.

Filip Swirski, Harvard University

“Inflamation in Cardiovascular Disease”

Jessica Hamerman, Benaroya Research Institute

“TLR7 and Macrophage Activation Syndrome”

Awards Presentations to Graduate, Postdoctoral and Young Investigators

Poster Awards:

Ray Owen Poster Awards (Sponsored by AAI)

Council Poster Awards (Sponsored by MCI Council)

Ray Owen Young Investigator Poster Awards (Sponsored by AAI and Cellular Immunology)

Oral Presentation Awards:

Ray Owen Young Investigator Awards (Sponsored by AAI)

Young Investigator Presentation Awards (Sponsored by BioLegend)

Young Investigator Travel Awards (Sponsored by BioLegend)

Excellence in Research Awards in memory of P. Cairns

SESSION V

Tuesday Morning
8:30-12:00 Noon

Lessons at the Interface of Tumor Immunology, Inflammation and Autoimmunity

Chairperson: Paul Kubes

Speakers:

Carla Rothlin, Yale University

“Coincidence Detectors in Tissue Repair Responses”

Andrew Oberst, University of Washington

“Cell Death and Inflammation and Zombies”

Dave Masopust, University of Minnesota

“Immunosurveillance by Resident Memory T Cells”

Paul Kubes, University of Calgary

“The Complex Immune Response Following a Simple Injury and Repair”