

# *The 57<sup>th</sup> 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*

*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 27<sup>th</sup>**

4:00 pm  
8:00 pm  
9:00–11:00 pm

**Registration**  
*The Dan H. Campbell Memorial Lecture*  
*Reception in the Nautilus Room*

### **Sunday, January 28<sup>th</sup>**

8:30–12:00 Noon  
4:00– 6:00 pm  
7:30–10:00 pm  
10:00–11:00 pm

<b>Session I</b>	<b>Spatiotemporal Dimensions of the Immune Response</b>
<b>Poster Session</b>	<i>Fred Farr Forum and Kiln Room</i>
<b>Session II</b>	<b>Frontiers in Ligand Detection and Signaling</b>
<b>Reception</b>	<i>Fred Farr Forum and Kiln Room</i>

### **Monday, January 29<sup>th</sup>**

8:30 – 12:00 Noon  
4:00 – 6:00 PM  
7:30 – 10:00 PM  
10:00–11:00 PM

<b>Session III</b>	<b>The Immune System as an Information System</b>
<b>Oral Presentations</b>	<i>The Chapel Auditorium</i>
<b>Session IV</b>	<b>Myeloid Cells in Health and Disease</b>
<b>Reception</b>	<i>Fred Farr Forum and Kiln Room</i>

### **Tuesday, January 30<sup>st</sup>**

8:30–12:00 Noon

<b>Session V</b>	<b>Lessons at the Interface of Tumor Immunology, Inflammation and Autoimmunity</b>
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### **Sunday through Monday**

<b>Posters on Display</b>	<i>Fred Farr Forum and Kiln Room</i>
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## CONFERENCE PROGRAM

### **SESSION I**

*Sunday Morning*  
8:30-12:00 Noon

**Spatiotemporal Dimensions of the Immune Response**  
**Chairperson: Max Krummel**

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”

*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

**“CAR T Cells: Current Concepts – Future Possibilities”**

Mike Kuhns, University of Arizona

**“Revisiting CD4 Biology”**

Tanya Freedman, University of Minnesota

**“Reciprocal Regulation of LynA and c-Cbl Tunes Responsiveness in Polarized Macrophages”**

Greg Barton, University of California, Berkeley

*“To be announced”*

***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 Macrophage Identity and Function”**

Sean Bendall, Stanford University

**“Massively Multiplexed Single Cell Analysis in Human Health and Disease”**

*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

*“To be announced”*

Filip Swirski, Harvard University

**“Myeloid Cells in Cardiovascular Disease”**

Jessica Hamerman, Benaroya Research Institute

**“TLR7 and Macrophage Activation Syndrome”**

**SESSION V**

*Tuesday Morning*  
8:30-12:00 Noon

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

**Chairperson: Carla Rothlin**

Speakers:

Carla Rothlin, Yale University

**“Coincidence Detectors in Tissue Repair Responses”**

Andrew Oberst, University of Washington

**“Inflammatory Cell Death: Dying to Get Noticed”**

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”**