

# *The 60<sup>th</sup> Midwinter Conference of Immunologists at Asilomar*



*January 22-25, 2022*

*Asilomar Conference Grounds, Pacific Grove, California*

*Christel Uittenbogaart, Executive Director*

*Mary Ann Hausner, Treasurer*

*Susan Kaech and Russell Vance*

*Chairpersons*

*The Dan H. Campbell Memorial Lecture*

*Saturday, January 22, 8:00 PM*

*The Chapel Auditorium*

*Richard Locksley*

*University of California, San Francisco*

## *Council Members*

Montserrat Anguera  
Gregory M. Barton  
Anna Beaudin  
Deepta Bhattacharya  
Catherine Blish  
Daniel J. Campbell  
Michael P. Cancro  
Rachel R. Caspi  
Hilde Cheroutre  
Jason D. Fontenot  
Jessica Hamerman  
Kristin A. Hogquist  
Christopher Hunter

Amanda Jamieson  
Kirk Jensen  
Susan Kaech  
Meghan Koch  
Mitchell Kronenberg  
Matthew F. Krummel  
Michael S. Kuhns  
Terri Laufer  
David B. Lewis  
Joanna Maltbaek  
Roberta Meyers-Elliott  
Tomas Mustelin  
Andrew Oberst

Marion Pepper  
Roberta R. Pollock  
Peter Savage  
David W. Scott  
Sunny Shin  
Dan Stetson  
Elia Tait Wojno  
Kristin Tarbell  
Christel H. Uittenbogaart  
Russell Vance  
David R. Webb  
Steven F. Ziegler  
Martha C. Zuniga

## CONFERENCE SCHEDULE

*All Sessions: The Chapel Auditorium*

### *Saturday, January 22<sup>nd</sup>*

4:00 pm  
8:00 pm  
9:00–10:00 pm

**Registration**  
*The Dan H. Campbell Memorial Lecture*  
*Reception outside the Chapel*

### *Sunday, January 23<sup>rd</sup>*

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

**Session I**            **19<sup>th</sup> Nervous Breakdown: Immuno-neuro Interactions**  
**Poster Session**    *Fred Farr Forum and Kiln Room*  
**Session II**            **You Can't Always Get What You Want:**  
                                 **Host-Pathogen Antagonism**  
**Reception**            *Outside Fred Farr Forum and Kiln Room*

### *Monday, January 24<sup>th</sup>*

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

**Session III**            **Highway to Hell: Inflaming Tissues**  
**Oral Poster Presentations**    *The Chapel Auditorium*  
**Session IV**            **Our House...in the Middle of the Street:**  
                                 **Immune Microenvironments**  
**Reception**            *Outside Fred Farr Forum and Kiln Room*

### *Tuesday, January 25<sup>th</sup>*

8:30–12:00 Noon

**Session V**            **High Voltage: Immunometabolism**

*Saturday through Monday*

**Posters on Display**    *Fred Farr Forum and Kiln Room*

## CONFERENCE PROGRAM

### **SESSION I**

*Sunday Morning*  
*8:30 AM to Noon*

**19<sup>th</sup> Nervous Breakdown: Immuno-neuro Interactions**  
**Chairperson: Anna Molofsky**

Speakers:

Marco Colonna, Washington University in St. Louis  
“A Lymphopoietic Niche at the CNS Borders”

Dan Littman, New York University  
“Gut microbiota-directed T cell differentiation programs”

Anna Molofsky, University of California, San Francisco  
“Innate immune regulation of brain development and plasticity”

*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

**You Can't Always Get What You Want: Host-Pathogen Antagonism**

***Chairperson: Ram Savan***

Speakers:

JoAnne Flynn, University of Pittsburgh

**“CD8+ lymphocytes: the neglected cells in the immune response to tuberculosis”**

Sara Cherry, University of Pennsylvania

**“Innate immune control of viral infections: Lessons learned from SARS-CoV-2”**

Matt Daugherty, University of California, San Diego

**“Running with scissors: evolutionary conflicts between viral proteases and the host immune system”**

Ram Savan, University of Washington

**“Prenylated OAS1 isoform is the Achilles heel for plus-stranded RNA viruses”**

***SESSION III***

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

**Highway to Hell: Inflaming Tissues**

***Chairperson: Diana Hargreaves***

Speakers:

Diana Hargreaves, Salk Institute for Biological Studies

**“Loss of the Tumor Suppressor ARID1A Activates a STING-Type I Interferon Signaling Axis that Promotes Anti-Tumor Immunity”**

Jon Kagan, Harvard Medical School

**“Initiation and Regulation of Innate Immunity”**

Anjana Rao, La Jolla Institute for Immunology

**“DNA methylation and demethylation in immune/ inflammatory responses”**

Shannon Turley, Genentech, Inc.

**“Stromal Evolution in Inflammation, Cancer and Immunotherapy”**

***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

### **Our House ...in the Middle of the Street: Immune Microenvironments**

***Chairperson: Ana Anderson***

Speakers:

Ana Anderson, Harvard Medical School

**“Temporal analysis of the tumor microenvironment reveals novel pathways involved in T cell dysfunction”**

Shane Crotty, La Jolla Institute for Immunology

**“Understanding adaptive immunity and memory to SARS-CoV-2 infection and COVID-19 vaccines.”**

Nicole Baumgarth, University of California, Davis

**“Humoral immune response regulation to infections”**

Award Presentations

### ***SESSION V***

*Tuesday Morning*

8:30-12:00 Noon

### **High Voltage: Immunometabolism**

***Chairperson: Steve Bensinger***

Speakers:

Lydia Lynch, Brigham and Women’s Hospital, Harvard

**“Sex, Drugs, and IL-17”**

Steve Bensinger, University of California, Los Angeles

**"Understanding lipid metabolic programming in host defense"**

Gerry Shadel, Salk Institute for Biological Studies

**“Mitochondria-to-Nucleus Signaling Enhances Tumor Immune Responses**

Jeff Rathmell, Vanderbilt University Medical Center

**“Friends in Low Places and How T cells get the Energy to Honkytonk”**