

CALL FOR ABSTRACTS

# IMMUNOLOGY 2019™

Annual Meeting of The American Association of Immunologists



MAY 9–13, 2019 | SAN DIEGO CONVENTION CENTER | SAN DIEGO, CA

Visit [www.IMMUNOLOGY2019.org](http://www.IMMUNOLOGY2019.org) to view the full program.

## PRESIDENT'S PROGRAM

### AAI President's Address

THURSDAY, MAY 9, 5:00 PM

### At the Interface of Microbiology and Immunology

**JoAnne L. Flynn**, Univ. of Pittsburgh Sch. of Med., AAI President

### Introduction

**Olivera J. Finn**, Univ. of Pittsburgh Sch. of Med.

### AAI President's Symposium

SUNDAY, MAY 12, 12:30 PM – 2:30 PM

### Interactions of Pathogens with the Immune System

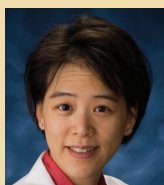
**Chair: JoAnne L. Flynn**, Univ. of Pittsburgh Sch. of Med., AAI President



**Vanja Lazarevic**  
NCI, NIH  
*Transcriptional regulation of the inflammatory response*



**Karen A. Norris**  
Univ. of Georgia  
*Immunity in the immunocompromised host*



**Philana Lin**  
Children's Hosp. of Pittsburgh  
*Tuberculosis: exceptions to every rule*



**Robert Seder**, NIAID, NIH  
*Intravenous vaccination as an approach for inducing protective tissue resident T cell responses against tuberculosis and malaria*



JoAnne L. Flynn



FRIDAY, MAY 10, 6:00 PM

### Andrea J. Tenner

Univ. of California, Irvine  
*Complement: primitive yet powerful—new discoveries in immunity and the nervous system*



SATURDAY, MAY 11, 6:00 PM

### Bruce R. Blazar

Univ. of Minnesota  
*Stem cell transplantation: restoring immune balance*



SUNDAY, MAY 12, 6:00 PM

### Gwendalyn J. Randolph

Washington Univ. in St. Louis  
*Clearance of molecules and cells from sites of inflammation*

Daily  
Dedicated Poster  
Presentation  
Time  
2:30 PM –  
3:45 PM

## ABSTRACTS

AAI invites the submission of abstracts that report new scientific research developments in all areas of immunology. Abstracts are welcome from scientists in all sectors—academia, government, and industry.

All abstracts will be programmed into **Poster Sessions**. Approximately 500 outstanding abstracts will be programmed for podium presentations in **Block Symposia**.

To submit an abstract, please visit [www.IMMUNOLOGY2019.org/abstracts](http://www.IMMUNOLOGY2019.org/abstracts).

Abstract Submission Opens **November 28, 2018**

Abstract Submission Closes **January 14, 2019**

### Abstract Submission Fees

AAI Member \$80

Nonmember \$115

## AWARD PRESENTATIONS AND LECTURES

Each year AAI recognizes the extraordinary professional achievements and career promise of its members. The recipients of the following AAI Career Awards will receive their awards and present their research in a lecture during the meeting.

### AAI-BD Biosciences Investigator Award

Recognizes an early-career investigator who has made outstanding contributions to the field of immunology

### AAI-BioLegend Herzenberg Award

Recognizes an individual who has made exemplary research contributions to the field of B cell biology

### AAI-Steinman Award for Human Immunology Research

Recognizes an individual who has made significant contributions to the understanding of immune processes under-lying human disease pathogenesis, prevention, and therapies

### AAI-Thermo Fisher Meritorious Career Award

Recognizes a mid-career scientist for outstanding research contributions to the field of immunology

### AAI Vanguard Lecture

Presented by an AAI member who is an underrepresented minority investigator noted for scientific achievement and exemplary career success



### Margaret S. Bynoe

Cornell Univ.  
*The impact of neurotropic pathogens on neuroinflammation and neurodegeneration*

For complete information on Awards, visit [www.AAI.org/Awards](http://www.AAI.org/Awards).

**TRAVEL AWARD & GRANT APPLICATIONS DEADLINE: JANUARY 14, 2019**

## MAJOR SYMPOSIA

FRIDAY, MAY 10, 8:00 AM – 11:30 AM

### **MAJOR SYMPOSIUM A: Interactions of Innate and Adaptive Immune Cells that Promote Autoimmunity**

#### **Chairs:**

**David A. Hafler**, Yale Univ.  
**Melissa A. Brown**, Northwestern Univ.

#### **Speakers:**

**David A. Hafler**, Yale Univ.  
**Melissa A. Brown**, Northwestern Univ.  
**Maureen A. Su**, Univ. of North Carolina, Chapel Hill  
**Jane H. Buckner**, Benaroya Res. Inst.  
**Mandy J. McGeachy**, Univ. of Pittsburgh  
**Vijay K. Kuchroo**, Brigham and Women's Hosp.

### **MAJOR SYMPOSIUM B: Extrinsic and Intrinsic Immune Aspects of the Tumor Microenvironment**

#### **Chairs:**

**Victor H. Engelhard**, Univ. of Virginia  
**Mary Jo Turk**, Dartmouth Geisel Sch. of Med.

#### **Speakers:**

**Victor H. Engelhard**, Univ. of Virginia  
**Mary Jo Turk**, Dartmouth Geisel Sch. of Med.  
**Jennifer A. Wargo**, MD Anderson Cancer Ctr.  
**Max Krummel**, Univ. of California, San Francisco  
**Susan M. Kaech**, Salk Inst.  
**Jose R. Conejo-Garcia**, H. Lee Moffitt Cancer Ctr. and Res. Inst.

SATURDAY, MAY 11, 8:00 AM – 11:30 AM

### **MAJOR SYMPOSIUM C: Acute and Chronic Inflammation**

#### **Chairs:**

**Claudia Kemper**, NHLBI, NIH  
**Michael C. Carroll**, Boston's Children's Hosp.

#### **Speakers:**

**Claudia Kemper**, NHLBI, NIH  
**Michael C. Carroll**, Boston Children's Hosp.  
**Jörg Köhl**, Univ. of Lübeck, Germany  
**Clare E. Bryant**, Univ. of Cambridge, England  
**Grace Y. Chen**, Univ. of Michigan  
**Susan Carpenter**, Univ. of California, Santa Cruz

### **MAJOR SYMPOSIUM D: Structural and Cellular Aspects of Innate Lymphocytes**

#### **Chairs:**

**Erin J. Adams**, Univ. of Chicago  
**Joseph Sun**, Mem. Sloan Kettering Cancer Ctr.

#### **Speakers:**

**Erin J. Adams**, Univ. of Chicago  
**Joseph Sun**, Mem. Sloan Kettering Cancer Ctr.  
**Luc Teyton**, Scripps Res. Inst.  
**Catherine A. Blish**, Stanford Univ.  
**Mariapia A. Degli-Esposti**, Univ. of Western Australia, Australia  
**Hao Wu**, Harvard Univ.

SUNDAY, MAY 12, 8:00 AM – 11:30 AM

### **MAJOR SYMPOSIUM E: Mechanisms of Allergic Immunity**

#### **Chairs:**

**Richard M. Locksley**, Univ. of California, San Francisco  
**Jakob von Moltke**, Univ. of Washington

#### **Speakers:**

**Richard M. Locksley**, Univ. of California, San Francisco  
**Jakob von Moltke**, Univ. of Washington  
**Xin Sun**, Univ. of California, San Diego  
**Nora A. Barrett**, Brigham and Women's Hosp.  
**Brian S. Kim**, Washington Univ. Sch. of Med. in St. Louis  
**Caroline L. Sokol**, Massachusetts Gen. Hosp.

### **MAJOR SYMPOSIUM F: Functional Plasticity of Innate and Adaptive Immune Cells**

#### **Chairs:**

**Ananda W. Goldrath**, Univ. of California, San Diego  
**Jessica A. Hamerman**, Benaroya Res. Inst.

#### **Speakers:**

**Ananda W. Goldrath**, Univ. of California, San Diego  
**Jessica A. Hamerman**, Benaroya Res. Inst.  
**Deepta Bhattacharya**, Univ. of Arizona  
**Jinfang "Jeff" Zhu**, NIAID, NIH  
**David G. DeNardo**, Washington Univ. in St. Louis  
**Pandurangan Vijayanand**, La Jolla Inst. for Allergy and Immunology

MONDAY, MAY 13, 8:00 AM – 11:30 AM

### **MAJOR SYMPOSIUM G: Immune Responses to Emerging Viral Infections**

#### **Chairs:**

**James Crowe, Jr.**, Vanderbilt Univ.  
**Sara Cherry**, Univ. of Pennsylvania

#### **Speakers:**

**James Crowe, Jr.**, Vanderbilt Univ.  
**Sara Cherry**, Univ. of Pennsylvania  
**Carolyn B. Coyne**, Univ. of Pittsburgh  
**Erica Ollmann Saphire**, Scripps Res. Inst.  
**Adolfo Garcia-Sastre**, Icahn Sch. of Med., Mount Sinai  
**Sujan Shresta**, La Jolla Inst. for Allergy and Immunology

### **MAJOR SYMPOSIUM H: Impact of Host and Microbe Metabolism on Immunity**

#### **Chairs:**

**Jonathan D. Powell**, Johns Hopkins Univ.  
**Laurence Morel**, Univ. of Florida

#### **Speakers:**

**Jonathan D. Powell**, Johns Hopkins Univ.  
**Laurence Morel**, Univ. of Florida  
**Maxim N. Artyomov**, Washington Univ. Sch. of Med. in St. Louis  
**Greg M. Delgoffe**, Univ. of Pittsburgh  
**Jennifer Martinez**, NIEHS, NIH

*All session information subject to change.*



## SPECIAL SYMPOSIA AND EVENTS

### Participating Guest Societies

American Society for Histocompatibility and Immunogenetics (ASHI)  
American Society of Transplantation (AST)  
American Society of Tropical Medicine and Hygiene (ASTMH)  
Canadian Society for Immunology (CSI)  
Chinese Society for Immunology (CSI)  
Chinese Society of Immunology, Taiwan (CSIT)  
German Society for Immunology (DGfI)  
International Complement Society (ICS)  
International Cytokine and Interferon Society (ICIS)  
International Society for Neuroimmunology (ISNI)  
International Society of Developmental and Comparative Immunology (ISDCI)  
Korean Association of Immunologists (KAI) and Association of Korean Immunologists in America (AKIA)  
Obesity Society (TOS)  
Society for Glycobiology (SfG)  
Society for Leukocyte Biology (SLB)  
Society for Immunotherapy of Cancer (SITC)  
Society for Mucosal Immunology (SMI)  
Society for Natural Immunity (SNI)

### Participating NIH Institutes

National Institute of Allergy and Infectious Diseases (NIAID)  
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)  
National Institute of Environmental Health Sciences (NIEHS)  
National Institute on Aging (NIA)

## AAI COMMITTEE-SPONSORED SESSIONS AND EVENTS

AAI Committees host symposia, workshops, lectures, and events which address the most recent science in their specialty areas of immunology research, as well as issues in public policy and career development.

**Clinical Immunology Committee:** Inborn Defects of Immunity

**Committee on Public Affairs:** Advocating for Biomedical Research: We've Done It, and So Can You!

**Committee on the Status of Women and Education Committee:** Careers in Science Roundtable

**Education Committee:** Careers in Biotech: Panel Discussion and Networking; Immunology Teaching Interest Group

**Membership Committee:** New Member Reception (*by invitation only*)

**Minority Affairs Committee:** Careers Roundtable and Speed Networking Session; AAI Vanguard Lecture

**Program Committee:** Back to School: A Review of Four Fast-Moving Fields

**Publications Committee:** Writing Scientific Manuscripts and Responding to Reviewers: Tips on Navigating the Process

**Veterinary Immunology Committee:** Towards OneHealth: Understanding Disease with Animal Models

## AAI CAREER DEVELOPMENT OPPORTUNITIES

Through workshops, presentations, roundtables, and one-on-one counseling, IMMUNOLOGY 2019™ provides the following career development programs.

- Careers and Networking Roundtables
- Careers in Biotech: Panel Discussion and Networking
- How to Convert Your CV into a Résumé
- How to Convert Your CV into a Résumé: One-on-One Consultation
- International Opportunities in Science: Panel Discussion
- Interviewing for a Job
- Jobs Board
- NIH Grants Workshop: Demystifying the Grant Application Submission, Review, and Funding Processes
- Strategies for Successful Postdoctoral Training
- And More!

## SOCIAL EVENTS

THURSDAY, MAY 9, 6:00 PM – 7:30 PM

### IMMUNOLOGY 2019™ OPENING NIGHT NETWORKING EVENT

The Opening Night Networking Event is back! Immediately following the President's Address, registrants are invited to toast old friends, make new connections, plan their week, and enjoy a picturesque view of San Diego Bay on the Convention Center's Center Terrace. Light refreshments and a drink ticket are included in your registration.



SUNDAY, MAY 12, 7:00 PM – 9:30 PM

### IMMUNOLOGY 2019™ GALA *Generously sponsored by BioLegend*

This year's Gala will be held at the USS Midway Museum, an iconic San Diego destination. On the flight deck attendees can experience an array of restored naval aircraft—from the workhorse of Vietnam to helicopters that picked up Apollo space missions. On deck, a band will perform dance hits surrounded by the 360-degree panoramic view of the San Diego skyline. Below, on the hangar deck, World War II aircraft can be viewed, cockpits sat in, and flight simulators experienced.

Appetizers, dinner stations, and two drinks—included in your registration fee—will be provided. Guest tickets may be purchased when registering.

Shuttle service will be provided between the Convention Center and the Midway Museum.

## ABSTRACT SUBMISSION TOPICS

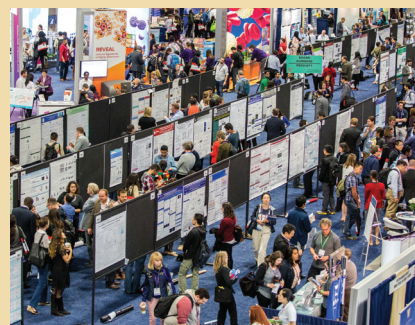
For details on what the following topics include, visit [www.IMMUNOLOGY2019.org/abstracts](http://www.IMMUNOLOGY2019.org/abstracts).

- Antigen Processing and Presentation
- Basic Autoimmunity
- Cellular Adhesion, Migration, and Inflammation
- Cytokines and Chemokines and Their Receptors
- Hematopoiesis and Immune System Development
- Immediate Hypersensitivity, Asthma, and Allergic Responses
- Immune Mechanisms of Human Disease
- Immune Response Regulation: Cellular Mechanisms
- Immune Response Regulation: Molecular Mechanisms
- Immunology Education
- Innate Immune Responses and Host Defense: Cellular Mechanisms
- Innate Immune Responses and Host Defense: Molecular Mechanisms
- Lymphocyte Differentiation and Peripheral Maintenance
- Microbial, Parasitic, and Fungal Immunology
- Mucosal and Regional Immunology
- Technological Innovations in Immunology
- Therapeutic Approaches to Autoimmunity
- Transplantation Immunology
- Tumor Immunology
- Vaccines and Immunotherapy
- Veterinary and Comparative Immunology
- Viral Immunology

## POSTERS

Come to the Exhibit Hall to experience the most interactive part of the meeting—the **Daily Dedicated Poster Presentations**. On Friday, Saturday, and Sunday, between 2:30 PM and 3:45 PM, you will have access to the most recent data presented by scientists conducting the work. If you wish to submit an abstract, please visit [www.IMMUNOLOGY2019.org/abstracts](http://www.IMMUNOLOGY2019.org/abstracts)—but please note:

- All accepted abstracts, **including those selected for an oral presentation**, are required to be presented as a poster.
- Posters are viewable for one day only.
- Posters are to be placed between 7:30 AM and 9:30 AM on the assigned day, on the assigned board.
- All first authors must be present and by their poster between the hours of 2:30 PM and 3:45 PM on their assigned day. **Any authors failing to (1) display their poster throughout their assigned day, and/or (2) be present during their assigned poster session will forfeit publication of their abstract in the Special Meeting Abstracts Supplement to *The Journal of Immunology*. Corresponding travel awardees will, additionally, forfeit their award.**



- Posters are to remain up until 3:45 PM and removed by 4:30 PM on the assigned day; posters not removed will be discarded.
- Videoing or photographing of posters without the permission of the author is forbidden. First authors are allowed to photograph their own posters.

### Daily Dedicated Poster Presentation Times

Friday through Sunday:  
2:30 PM – 3:45 PM

Poster and Exhibit Hall hours:  
9:30 AM – 4:30 PM

**Approximately 500 outstanding abstracts will be programmed for podium presentations in Block Symposia.**

**Over 700 AAI members receive AAI travel awards each year!**

**IMPORTANT: For abstract presentation guidelines, visit [www.IMMUNOLOGY2019.org](http://www.IMMUNOLOGY2019.org).**

## JOBS BOARD

### Post Online and Meet On Site

AAI offers career services to job-seekers and employers through the meeting **Jobs Board**—free for meeting attendees and exhibitors.

**Jobs Board submission information will be available online in February 2019.**

**TAKE ADVANTAGE OF THIS FREE CAREER SERVICE FOR ATTENDEES AND EXHIBITORS!**



## EXHIBIT HALL

### EXHIBIT HALL

Open **Friday, Saturday, and Sunday**  
from **9:30 AM – 4:30 PM**

Leading scientific companies and organizations will showcase their products and services. Returning this year is the AAI Passport to Prizes raffle for attendees visiting the Exhibit Hall. Three lucky winners will receive a \$250 gift card! Plan which exhibits you wish to visit and learn more by viewing the interactive Exhibit Floor: [www.IMMUNOLOGY2019.org/exhibitor](http://www.IMMUNOLOGY2019.org/exhibitor).



### EXHIBITOR WORKSHOPS

Take advantage of the knowledge-building opportunities presented in Exhibitor Workshops. Located on the Exhibit Floor, these workshops explore the newest technologies, products, and services through demonstrations and discussions.

*Workshops are planned and conducted by exhibitors. These sessions do not constitute endorsement of any product or service by AAI.*

### MEET THE EXHIBITORS ONLINE!

Visit [www.IMMUNOLOGY2019.org](http://www.IMMUNOLOGY2019.org) to learn about all the exciting new products and services you will see at IMMUNOLOGY 2019™.

## REGISTRATION

Early Registration opens **December 18, 2018** | Early Registration Deadline: **March 29, 2019**

AAI members are eligible for *member discounts!* Registrants must be a member at the time of registration to qualify for discounts. Visit [www.aai.org/membership](http://www.aai.org/membership) to join or direct inquiries to [members@aai.org](mailto:members@aai.org).

REGISTRATION CATEGORIES AND FEES	Early Deadline March 29	Advance March 30– May 8	On-site May 9 or later
Member (Regular, Associate, & Postdoc)	\$395	\$495	\$595
Nonmember	\$660	\$760	\$800
Graduate Student Member	\$115	\$140	\$175
Graduate Student Nonmember	\$225 with student photo I.D. (on-site registration only)		
Post Undergraduate*	Contact <a href="mailto:meetings@aai.org">meetings@aai.org</a> to register		
Emeritus Member	\$125	\$160	\$185
Undergrad Student	\$55 with student photo I.D. (on-site registration only)		
HS Teacher, HS Student	\$0 with ID or letter (on-site registration only)		
Lost Badge Fee	\$50 first replacement, \$100 each replacement after		
Cancellation Fee	\$75 up to April 5, 2019; no refund after April 5, 2019		

Your registration fee covers entrance to scientific sessions, exhibits, the Opening Night Networking Event, IMMUNOLOGY 2019™ Gala, and the printed Meeting Guide. Visit [www.IMMUNOLOGY2019.org/register](http://www.IMMUNOLOGY2019.org/register) for complete details.

\* Recent college graduates (up to 3 years post graduation) who are not enrolled in graduate school or further undergraduate education may register at a special rate with proof of employment/status.

## IMPORTANT DATES AND DEADLINES

**THURSDAY, MAY 9 – MONDAY, MAY 13, 2019**

### Abstract Submission

Abstract Submission Opens	<b>November 28, 2018</b>
Abstract Submission Closes	<b>January 14, 2019</b>

### Registration

Registration Opens	<b>December 18, 2018</b>
Early Registration Discount Ends	<b>March 29, 2019</b>

### Awards

Career Award Nominations Due	<b>October 31, 2018</b>
Travel Award & Grant Applications Open	<b>November 28, 2018</b>
Travel Award & Grant Applications Due	<b>January 14, 2019</b>

### Housing

Discounted Housing Reservations	<b>Now Open</b>
Discounted Hotel Rates End	<b>April 5, 2019</b>

[www.IMMUNOLOGY2019.org](http://www.IMMUNOLOGY2019.org)

## IMMUNOLOGY 2019™

### Join us in SAN DIEGO this May for GREAT SCIENCE!

Come to IMMUNOLOGY 2019™ for great science, networking and social events, career development programs, and exhibits featuring exciting products and services to benefit you in your research!

In addition to all this, IMMUNOLOGY 2019™ attendees will enjoy the lively San Diego nightlife and eclectic atmosphere of Southern California!

**Register before March 29, 2019, to take advantage of the Early Registration Discount!**

Learn more at [www.IMMUNOLOGY2019.org](http://www.IMMUNOLOGY2019.org)

### Book Your Hotel Early for the Best Selection and Rates!

Get exclusive benefits when you book your stay through the AAI-designated housing service—**onPeak**.

- No pre-payment charged at time of booking—Book Now, Pay Later
- Deeply discounted rates at hotels within walking distance of the Convention Center
- Greater networking opportunities at official hotels

View hotels in the AAI block at [www.IMMUNOLOGY2019.org/hotel-travel](http://www.IMMUNOLOGY2019.org/hotel-travel).

#### JOIN AAI!

SAVE on registration and abstract fees, and become eligible for travel awards. Visit [www.aai.org/membership](http://www.aai.org/membership).

To register for the meeting, visit  
[www.IMMUNOLOGY2019.org/register](http://www.IMMUNOLOGY2019.org/register).