Did you miss last year’s topical reviews?

The Journal of Immunology

The Macro Influence of the Microbiome

A PDF of the collection from volume 198, issue 2 of The JI is available at: http://www.jimmunol.org/briefreviews

This series of Brief Reviews highlights the influence of the gut microbiome on:

- Neonatal Immunity
- Inflammatory Diseases
- Metabolites
- Food Allergy
- Type I Diabetes
- Autoimmunity in the CNS
- HIV Infection

The 2017 topical issue of Brief Reviews illustrates the wide-ranging dialogue between the gut microbiome and immune function and emphasizes the clinical consequences of disruption.
AAI PRESIDENT’S PROGRAM

AAI President’s Address
FRIDAY, MAY 4, 5:00 PM
Austin Convention Center, Ballroom D

Wayne M. Yokoyama
Washington Univ. Sch. of Med.; AAI President
50 years (well, almost!) in immunology

Introduction

AAI President’s Symposium
Into the Limelight: Natural Killer and Innate Lymphoid Cells
MONDAY, MAY 7, 12:30 PM – 2:30 PM
Austin Convention Center, Ballroom D

Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Speakers:
David H. Raulet, Univ. of California, Berkeley,
NK cell activation and inactivation in the tumor microenvironment

Katharine C. Hsu, Mem. Sloan Kettering Cancer Ctr.,
NK cells in the oncology clinic

Gabrielle T. Belz, Walter and Eliza Hall Inst. of Med. Res., Australia,
Teasing apart transcriptional regulation in innate lymphoid cells

Marco Colonna, Washington Univ. Sch. of Med., Innate lymphoid cell plasticity
INTO THE LIMELIGHT: NATURAL KILLER AND INNATE LYMPHOID CELLS

When I opened my lab as a new assistant professor at UCSF, I decided to work on natural killer (NK) cells as a natural (pun intended!) extension of my postdoctoral studies in Ethan Shevach’s lab at the NIH. Back then, many questioned my judgment, as I also had the opportunity to develop projects stemming from other studies to which I had contributed as a post-doc, such as T cell cytokine biology and T cell receptors. It was a time when T cells and other aspects of adaptive immunity were in the limelight—and innate immunity was not seriously appreciated by mainstream immunologists.

Our subsequent discoveries, and those from many other laboratories around the world, have clearly shown that NK cells are critical components of the host immune system, responsible for early innate responses to infection and cancer. Recent discoveries that NK cells belong to the broader family of innate lymphoid cells (ILCs) have helped fuel major interest in the biology of these innate lymphocytes, interest that continues to expand. Accordingly, the President’s Symposium this year is focused on NK cells and ILCs, and I am very pleased that world leaders in discovering various aspects of these cells have graciously agreed to join our symposium.

David Raulet has made seminal contributions to our understanding of NK cell biology, integrating areas such as their development, receptors and ligands, and tolerance. He will be speaking on advances in understanding the role of NKG2D and its ligands in tolerance and tumor immunity, which will inform the harnessing of NK cells for immunotherapy.

Katharine Hsu has been studying the anti-tumor effects of NK cells in cancer and leukemia relapse in bone marrow transplant patients. Her studies on the effects of killer immunoglobulin-like receptor (KIR) and HLA genotypes in clinical outcomes of these patients are shaping therapeutic protocols for these devastating diseases.

Gabrielle Belz has a long-standing interest in immune responses to infections that has led to more recent work elucidating the pathways regulating ILC development. These studies promise to provide a framework for understanding the relationship of the various ILC subsets to each other, beyond current classification based on cytokine production profiles.

Marco Colonna has elucidated numerous aspects of innate immunity in both humans and mice. He is a leader in the ILC field, having discovered new human ILC subsets. Another notable contribution is the discovery that an ILC subset can be converted into another subset, demonstrating their plasticity, a finding that has since been shown for other ILCs.

Together, these speakers will describe cutting-edge work in this exciting area of immunology, thereby bringing NK cells and ILCs into the limelight.
THANK YOU TO OUR PREMIER SPONSORS!

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AAI DISTINGUISHED LECTURES

SATURDAY, MAY 5
6:00 PM, BALLROOM D

Jeffrey A. Bluestone
Univ. of California, San Francisco
Treg-mediated immune tolerance in health and disease
Chair: Eugene M. Oltz, Washington Univ. Sch. of Med.; AAI Program Committee Chair

SUNDAY, MAY 6
6:00 PM, BALLROOM D

Pamela J. Fink
Univ. of Washington Sch. of Med.
Educating T cells from the cradle through adolescence
Chair: Eugene M. Oltz, Washington Univ. Sch. of Med.; AAI Program Committee Chair

MONDAY, MAY 7
6:00 PM, BALLROOM D

Randolph J. Noelle
Dartmouth Geisel Sch. of Med.
A panoramic VISTA of the immune system
Chair: Eugene M. Oltz, Washington Univ. Sch. of Med.; AAI Program Committee Chair

AAI VANGUARD LECTURE

Sponsored by the AAI Minority Affairs Committee
MONDAY, MAY 7, 11:15 AM – 12:15 PM

Chair: Robert J. Binder, Univ. of Pittsburgh; AAI Minority Affairs Committee Chair
Speaker: Elina Zúñiga, Univ. of California, San Diego
The art of coexistence: immune adaptations during chronic viral infections
Since 2003, the AAI meeting has featured a scientific lecture presented by an AAI member who is an underrepresented minority investigator noted for scientific achievement and exemplary career success.

AAI BUSINESS MEETING & AWARDS PRESENTATIONS

SATURDAY, MAY 5, 1:00 PM - 2:30 PM

Chair: M. Michele Hogan, AAI Executive Director
AAI reports on the “state of the association” to its members at every AAI annual meeting. Members will hear from the Executive Director, the Secretary-Treasurer, the Editors-in-Chief of AAI journals (The Journal of Immunology and ImmunoHorizons), and the Chair of the Committee on Public Affairs on the financial standing of AAI and other matters of importance to the membership. Selected 2018 AAI awards will also be presented during this session.

AAI Distinguished Service Award Presentation

Wendy L. Havran, Scripps Res. Inst.
The AAI Distinguished Service Award recognizes Dr. Havran for enduring and exemplary service to AAI and the immunology community.

Other Awards Presentations

AAI annually provides more than 700 AAI meeting Travel Awards and Grants to recognize the promise and promote the professional development of investigators of all career stages.

- AAI-Thermo Fisher Trainee Achievement Awards
- Chambers-Thermo Fisher Scientific Memorial Award
- Lustgarten-Thermo Fisher Scientific Memorial Award
- Lefrancois-BioLegend Memorial Award
- Pfizer-Showell Travel Award

Acknowledgments

- AAI Trainee Abstract Awards
- AAI Trainee Poster Awards
- AAI Early Career Faculty Travel Grants
- AAI Laboratory Travel Grants
- AAI Undergraduate Faculty Travel Grants
- AAI Late-Breaking Poster Awards

For information on all AAI Awards, visit www.aai.org/awards.
AAI AWARD LECTURES AND PRESENTATIONS

AAI LIFETIME ACHIEVEMENT AWARD PRESENTATION
FRIDAY, MAY 4, 5:00 PM
Ballroom D
Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Award Recipient:
Laurie H. Glimcher, Dana-Farber Cancer Inst., Harvard Med. Sch.

AAI President Wayne M. Yokoyama will introduce the awardee and present the award prior to the start of the President’s Address.

The AAI Lifetime Achievement Award is the highest honor bestowed by the AAI Council upon an AAI member. This award recognizes a deserving member for a remarkable career of scientific achievement and for contributions to AAI and the field of immunology.

AAI DISTINGUISHED SERVICE AWARD PRESENTATION
SATURDAY, MAY 5, 1:00 PM
Room 18CD
Chair: M. Michele Hogan, AAI Executive Director

Award Recipient:
Wendy L. Havran, Scripps Res. Inst.

AAI Executive Director M. Michele Hogan will introduce the awardee and present the award during the AAI Business Meeting.

The AAI Distinguished Service Award recognizes Dr. Havran for enduring and exemplary service to AAI and the immunology community.

AAI-BD BIOSCIENCES INVESTIGATOR AWARD PRESENTATION AND LECTURE
Generously supported by BD Biosciences
SATURDAY, MAY 5, 4:30 PM – 5:30 PM
Ballroom D
Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Award Recipient:
Hai Qi, Tsinghua Univ., China
T-B interactions and the germinal center response

AAI President Wayne M. Yokoyama and Robert Balderas, Vice President of Biological Sciences, BD Biosciences, will introduce the awardee and present the award immediately prior to Dr. Qi’s lecture.

The AAI-BD Biosciences Investigator Award recognizes an investigator for early-career achievement in immunology research.

AAI-BIOLEGEND HERZENBERG AWARD PRESENTATION AND LECTURE
Generously supported by BioLegend
SUNDAY, MAY 6, 12:30 PM – 1:30 PM
Room 10AB
Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Award Recipient:
Jason G. Cyster, HHMI, Univ. of California, San Francisco
Deciphering the guidance cue code for B cell immunity

AAI President Wayne M. Yokoyama and Gene Lay, President and CEO, BioLegend, will introduce the awardee and present the award immediately prior to Dr. Cyster’s lecture.

The AAI-BioLegend Herzenberg Award recognizes outstanding research contributions to the field of immunology in the area of B cell biology.
AAI-Thermo Fisher Meritorious Career Award Presentation and Lecture

Generously supported by Thermo Fisher Scientific
Sunday, May 6, 4:30 PM – 5:30 PM
Ballroom D
Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Award Recipient:
Akiko Iwasaki, HHMI, Yale Sch. of Med.
Learning immunology from viruses
AAI President Wayne M. Yokoyama and Christoph Hergersberg, Vice President of Research and Development, Thermo Fisher Scientific, will introduce the awardee and present the award immediately prior to Dr. Iwasaki’s lecture.

The AAI-Thermo Fisher Meritorious Career Award recognizes a mid-career scientist for exceptional research contributions to the field of immunology.

AAI Excellence in Mentoring Award Presentation

Monday, May 7, 12:30 PM
Ballroom D
Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Award Recipient:
Marc K. Jenkins, Univ. of Minnesota Med. Sch.
AAI President Wayne M. Yokoyama, Stephen J. McSorley, Univ. of California, Davis, and Marion Pepper, Univ. of Washington, will introduce the awardee and present the award prior to the start of the President’s Symposium.

The AAI Excellence in Mentoring Award recognizes exemplary career contributions to a future generation of scientists.

AAI Steinman Award for Human Immunology Research Presentation and Lecture

Monday, May 7, 4:30 PM – 5:30 PM
Ballroom D
Chair: Wayne M. Yokoyama, Washington Univ. Sch. of Med.; AAI President

Award Recipient:
John J. O’Shea, NIAMS, NIH
Cytokine signaling: translational advances, future opportunities and challenges
AAI President Wayne M. Yokoyama will introduce the awardee and present the award immediately prior to Dr. O’Shea’s lecture.

The AAI-Steinman Award for Human Immunology Research recognizes an individual for significant, sustained achievement in immunology research pertinent to human disease pathogenesis, prevention, or therapy.

AAI Travel Awards

In addition to Career Awards, AAI annually provides more than 700 AAI meeting Travel Awards and Grants to recognize the promise and bolster the professional development of investigators of all career stages.

• AAI Trainee Abstract Awards
• AAI Trainee Poster Awards
• AAI-Thermo Fisher Trainee Achievement Awards
• Pfizer-Showell Travel Award
• Lefrançois-BioLegend Memorial Award
• Chambers-Thermo Fisher Scientific Memorial Award
• Lustgarten-Thermo Fisher Scientific Memorial Award
• AAI Early Career Faculty Travel Grants
• AAI Laboratory Travel Grants
• AAI Undergraduate Faculty Travel Grants
• AAI Late-Breaking Poster Awards

For information on all AAI Awards, visit www.aai.org/Awards.
**Major Symposium A: Transcriptional Control of Immunity: Diverse Regulatory Mechanisms in Gene Regulation**  
**Ballroom D**  
**Chairs:** Amy S. Weinmann, Univ. of Alabama, Birmingham  
Boris Reizis, New York Univ. Sch. of Med.  

**Speakers:**  
Amy S. Weinmann, Univ. of Alabama, Birmingham  
Role for metabolites in regulating cellular differentiation gene programs  
Boris Reizis, New York Univ. Sch. of Med.  
Transcriptional control of dendritic cell function in vivo  
Tracy L. Johnson, Univ. of California, Los Angeles  
A histone “tail”: coordinating RNA splicing and histone modification—from yeast to macrophages  
Jorge Henao-Mejia, Univ. of Pennsylvania  
Regulation of innate immune cells by IncRNAs  
Andrea Schietinger, Mem. Sloan Kettering Cancer Ctr.  
Molecular mechanisms defining tumor-specific T cell differentiation and dysfunction  
Stephen T. Smale, Univ. of California, Los Angeles  
Mechanisms regulating selective transcriptional responses to innate immune stimuli  

**Major Symposium B: Immune Cells in Tissue Niches**  
**Ballroom EFG**  
**Chairs:** Frederic Geissmann, Mem. Sloan Kettering Cancer Ctr.  
Gretchen Diehl, Baylor Col. of Med.  

**Speakers:**  
Shannon J. Turley, Genentech  
Stromal niche in cancer immunology and immunotherapy  
Frederic Geissmann, Mem. Sloan Kettering Cancer Ctr.  
Roles of resident macrophages in brain, bone, and fat tissue homeostasis  
Robyn S. Klein, Washington Univ. Sch. of Med.  
CNS immunity: new players in neuroprotection  
Maternal gut bacteria, immune cells, and neurodevelopmental disorder  
Gretchen Diehl, Baylor Col. of Med.  
Microbial regulation of intestinal immunity  
Bruno Lemaître, Global Hlth. Inst., EPFL Lausanne, Switzerland  
Regulation of Drosophila hemocyte number and sessility by an adipokine  

**Major Symposium C: New Regulatory Concepts from Human Immunology Studies**  
**Ballroom D**  
**Chairs:** Bana Jabri, Univ. of Chicago  
Michael J. Lenardo, NIAID, NIH  

**Speakers:**  
Bana Jabri, Univ. of Chicago  
Inflammation, tissue resident gamma delta T cells, and the journey of no return  
Michael J. Lenardo, NIAID, NIH  
New precision medicine therapies emerge from genomic investigation of diseases of the immune system  
Luis Barreiro, Univ. of Montreal/CHU Sainte-Justine, Canada  
Genetic and environmental determinants of interindividual variation in immune responses to infection  
Federica Sallusto, Inst. for Res. in Biomed., USI and ETH Zurich, Switzerland  
Lymphocyte diversity: matching specificity and function  
Rammik J. Xavier, Harvard Univ. and Broad Inst.  
Human genetics to innate immune pathways  
Maria Grazia Roncarolo, Stanford Sch. of Med.  
New regulatory concepts from human immunology studies  

**Major Symposium D: Gone but not Forgotten: The Impact of Cell Death on the Immune Response**  
**Ballroom EFG**  
**Chairs:** Carla V. Rothlin, Yale Sch. of Med.  
Andrew A. Oberst, Univ. of Washington  

**Speakers:**  
Shigekazu Nagata, iFREC, Osaka Univ., Japan  
Exposure of phosphatidylserine on apoptotic cells  
Julie Magarian Blander, Weill Cornell Med.  
Phagocyte responses to dying cells  
Carla V. Rothlin, Yale Sch. of Med.  
Death begets a new beginning: recognition of apoptotic cells in the induction of tissue repair  
Ross M. Kedl, Univ. of Colorado Denver Sch. of Med.  
Lymphatic endothelial cell death as a vehicle for antigen exchange and maintenance of T cell memory  
Andrew A. Oberst, Univ. of Washington  
The innate immune response to Zika virus infection of the central nervous system  
Regulation of inflammasome activation and cell death
**MONDAY, MAY 7, 8:00 AM – 11:30 AM**

**Major Symposium E: Developing More Effective Cancer Immunotherapies**

*Ballroom D*

**Chairs:** Robert D. Schreiber, Washington Univ. Sch. of Med.

Nina Bhardwaj, Icahn Sch. of Med. at Mt. Sinai

**Speakers:**

James P. Allison, Univ. of Texas MD Anderson Cancer Ctr.

*Immune checkpoint blockade in cancer therapy: new insights and opportunities, and prospects for cures*

Robert D. Schreiber, Washington Univ. Sch. of Med.

*Elucidating the fundamental principles of personalized cancer vaccines*

Nina Bhardwaj, Icahn Sch. of Med. at Mt. Sinai

*Targeting dendritic cells to modulate antitumor immunity*

Sandra Demaria, Weill Cornell Med.

*Insights into the mechanisms regulating antigenicity and adjuvanticity of irradiated tumors*


*A personal neoantigen vaccine in patients with high risk melanoma*

Philip D. Greenberg, Univ. of Washington and Fred Hutchinson Cancer Res. Ctr.

*Engineering T cell responses to effectively target and then eliminate tumors*

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**Major Symposium F: Immune – Microbe Coevolution**

*Ballroom EFG*

**Chairs:** James R. Carlyle, Univ. of Toronto, Canada

Ignacio Sanz, Emory Univ. Sch. of Med.

**Speakers:**

James R. Carlyle, Univ. of Toronto, Canada

*Immune evasion, adaptation, and escape: the MCMV m12 immunoevasin controls NK cell immunity by targeting the prototypical NKR-P1 family*

Janelle S. Ayres, Salk Inst.

*Host-microbe interactions: harnessing co-evolution to treat disease*

Nichole R. Klett, Univ. of Washington

*Microbial interactions in HIV infection*

David Wang, Washington Univ. Sch. of Med.

*Lessons from novel viruses in infection and immunity*

Lisa Osborne, Univ. of British Columbia, Canada

*Host-microbiome interactions in intestinal infection and inflammation*

Russell E. Vance, HHMI, Univ. of California, Berkeley

*How do inflammasomes detect rapidly evolving pathogens?*

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**TUESDAY, MAY 8, 8:00 AM – 11:30 AM**

**Major Symposium G: Molecular Basis of B cell Differentiation and Function**

*Ballroom D*

**Chairs:** Jennifer L. Gommerman, Univ. of Toronto, Canada

Ignacio Sanz, Emory Univ. Sch. of Med.

**Speakers:**

Troy D. Randall, Univ. of Alabama, Birmingham

*Resident memory B cells in the lung*

Ignacio Sanz, Emory Univ. Sch. of Med.

*B cell differentiation pathways in human SLE*

Christopher Scharer, Emory Univ. Sch. of Med.

*Cell division coupled epigenetic regulation of B cell differentiation*

Marion Pepper, Univ. of Washington

*Understanding somatically hypermutated IgM memory B cells*

Facundo Batista, Ragon Inst. of MGH, MIT and Harvard

*B cell activation induces a switch from canonical to non-canonical autophagy that shapes B cell fate*

Jennifer Anolik, Univ. of Rochester Med. Ctr.

*B cell roles in bone homeostasis in rheumatoid arthritis*

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**Major Symposium H: Neuroscience of Immunity**

*Ballroom EFG*

**Chairs:** Kevin J. Tracey, Feinstein Inst. for Med. Res.

Tajie H. Harris, Univ. of Virginia

**Speakers:**


*Molecular basis for reflex integration of immunity*

Tajie H. Harris, Univ. of Virginia

*Glia-derived signals promote focal protective immunity to CNS infection*


*Nociceptor neuron regulation of innate immunity and host defense*

Paul Kubes, Univ. of Calgary, Canada

*Using imaging to study the neural – immune interplay*


*Antibodies, microglial activation and cognitive impairments*

Diana Bautista, Univ. of California, Berkeley

*Neuro-immune cell interactions that drive atopic dermatitis*
AAI COMMITTEE SYMPOSIA AND SESSIONS

AAI CLINICAL IMMUNOLOGY COMMITTEE

Reverse Translation: Learning From the Patient
SATURDAY, MAY 5, 3:45 PM – 5:45 PM

Chairs: Thomas E. Gajewski, Univ. of Chicago Med. Ctr.; AAI Clinical Immunology Committee Chair
Megan Sykes, Columbia Univ.

Speakers:
Eric Meffre, Yale Univ.
T cells prevent the peripheral accumulation of autoreactive naïve B cells

Susan Zolla-Pazner, Icahn Sch. of Med., Mount Sinai
HIV vaccine design guided by patients' antibody responses

Megan Sykes, Columbia Univ.
Tracking the human alloresponse in transplant recipients

Jordan Orange, Baylor Col. of Med.
Learning about NK cells from inherent defects in human immunity

While translational research has traditionally moved basic immunology knowledge forward into clinical application, varying clinical presentations of human immune-related disease processes, as well as variability in therapeutic outcomes, have provided opportunities for discovery of novel mechanistic hypotheses directly from patients. These types of investigations have been enabled by key technologies, including single-cell assays, high-throughput genomic sequencing, and improved bioinformatic algorithms.

Tissues being sampled include biopsy material from target organs, peripheral blood cells and serum/plasma, germline DNA, and stool for microbiota analysis. Such work is accelerating therapeutic advances in autoimmunity, solid organ transplantation, and cancer immunotherapy. A sampling of presentations will highlight opportunities in reverse translational immunology research.

AAI COMMITTEE ON PUBLIC AFFAIRS

Town Hall Meeting on NIH Efforts to Fund the Next Generation: Progress, Challenges and Future Directions
SUNDAY, MAY 6, 10:15 AM – 12:15 PM

Chair: Beth A. Garvy, Professor, Univ. of Kentucky; AAI Committee on Public Affairs Chair

Speakers:
Lawrence A. Tabak, Principal Deputy Director, NIH
The NIH NGRI: why it is needed and how it works

Gary A. Koretzky, Vice Dean, Weill Cornell Med.
The potential impact of the NGRI on training, hiring, promotion, tenure, and beyond

Judy L. Cannon, Associate Professor, Univ. of New Mexico Sch. of Med.
Perspectives of an early-career investigator: will the NGRI alleviate the struggle to establish a research career?

The current funding environment has raised serious concerns about the long-term viability of the biomedical research enterprise, as securing NIH grants has become increasingly difficult for scientists early in their careers. To address this issue, NIH launched the Next Generation Researchers Initiative (NGRI) in June 2017 to increase support for meritorious Early Stage Investigators (ESIs) and Early Established Investigators (EEIs). Despite the Initiative’s laudable goals, many questions remain, including how NIH Institutes and Centers will reprioritize funds to support these early and mid-career investigators, and how it will impact those who are not targeted by the program. Speakers will discuss NIH implementation of the Initiative; provide a variety of perspectives on its progress, challenges, and future directions; answer audience questions; and listen to attendees’ feedback.

AAI EDUCATION COMMITTEE

Careers in Biotech: Panel Discussion and Networking
SATURDAY, MAY 5, 7:00 PM – 9:00 PM

Chair: Kerry A. Casey, MedImmune

Panelists:
Andrew C. Chan, Senior Vice President, Research Biology, Genentech, Inc.
David J. DiLillo, Staff Scientist, Regeneron Pharmaceuticals, Inc.
Stephen T. Haley, Vice President, North America, and Chief Commercial Officer, MedImmune

Catherine J. McMahan, Senior Director, Aptevo Therapeutics

Many opportunities exist in industry for scientists with advanced degrees. There are positions in laboratory research, program management, business development, regulatory affairs, clinical trials oversight, medical liaison, and more. This panel features scientists employed in a variety of positions in industry discussing their career paths and the skills required for success in each. Following the panel discussion, enjoy casual conversation with the speakers and other scientists from industry at a networking reception.

Immunology Teaching Interest Group
SATURDAY, MAY 5, 11:00 AM – 1:00 PM

Chairs: Anil K. Bamezai, Villanova Univ.
David W. Mullins, Dartmouth Col.

Panelists:
Edith Porter, California State Univ., Los Angeles
Integrating caring and the human dimension in immunology to improve student learning

Crystal C. Walline, Univ. of North Carolina, Pembroke
Teaching immunology essentials with clinical correlations

Doreen E. Szollosi, Univ. of Saint Joseph Sch. of Pharmacy
Promoting critical thinking through writing in a first-year immunology course

Kara R. Lukin and Katja Avizius, Univ. of Colorado, Denver
How to create effective student-driven learning without becoming overwhelmed

Breakout Session Leaders:
Anil K. Bamezai, Villanova Univ.
Intro undergraduate/graduate immunology: Developing a teaching philosophy and a course syllabus
**Discussion topics and table leaders:**

- **Research Careers in Academia**
  - Succeeding in Graduate School
  - Graduate Student to Postdoc: finding a postdoc, interviewing
  - Postdoc to PI
    - Government Research Institutions
      - *Table Leader:* Charles E. Egwuagu, NEI, NIH
- **Medical Schools**
  - *Table Leaders:* Madeleine W. Cunningham, Univ. of Oklahoma Hlth. Sci. Ctr.; Lauren A. Zenezwicz, Univ. of Oklahoma Hlth. Sci. Ctr.; Norian A. Lyse, Univ. of Alabama, Birmingham; Steve M. Varga, Univ. of Iowa; Yina H. Huang, Geisel Sch. of Med. Dartmouth Col.
- **Undergraduate Institutions**
  - *Table Leaders:* Jennifer Manilay, Univ. of California, Merced; Crystal Walline, Univ. of North Carolina, Pembroke; Penny E. Shockett, Southeastern Louisiana Univ.; Jennifer A. Punt, Univ. of Pennsylvania
- **New PI:**
  - Recruiting Students and Postdocs
    - *Table Leader:* Marlene Bouvier, Univ. of Illinois, Chicago
  - Preparing for Promotion
    - *Table Leaders:* Allan J. Zajac, Univ. of Alabama, Birmingham; Lisa K. Denzlin, Child Hlth. Inst. of New Jersey, Rutgers
  - Negotiating an Academic Position
    - *Table Leaders:* William R. Green, Geisel Sch. of Med. Dartmouth; Marion Pepper, Univ. of Washington
  - Mentoring Effectively
  - How to Build a Network for Postdocs
    - *Table Leaders:* Gudrun Debes, Thomas Jefferson Univ.; Bao Vuong, City Univ. of New York
  - Networking Skills for PIs
    - *Table Leaders:* Lawrence P. Kane, Univ. of Pittsburgh; Nicole L. Ward, Case Western Reserve Univ.
- **Career and Family:** balancing parenthood and career; the dual career couple
  - *Table Leaders:* Gail A. Bishop, Univ. of Iowa; Michelle A. Swanson-Mungerson, Midwestern Univ. Chicago Coll. of Osteopathic Med.; Paula M. Lutz, Univ. of Wyoming
- **Careers in Biotech and Industry:** moving from academia to industry and vice versa
  - *Table Leaders:* Hilario Ramos, Molecular Templates; Mandy J. McGeachy, Univ. of Pittsburgh; Shannon J. Turley, Genentech; Robert Balderas, BD Biosciences; David J. Dilillo, Regeneron Pharmaceuticals, Inc.; Jacqueline M. McBride, Genentech; Catherine J. McMaham, Aptevo Therapeutics; Stephen T. Haley, Immudex; Kerry A. Casey, MedImmune
- **Careers at Governmental Agencies**
  - *Table Leaders:* Niki M. Moutsopoulos, NIH; Stacy E. Ferguson, NIAID, NIH
- **NIH Study Section Insights**
  - Grant Writing for Fellowships/Transition Awards
    - *Table Leaders:* Tajie H. Harris, Univ. of Virginia; Amariliz Rivera-Medina, Rutgers New Jersey Med. Sch.; Mark L. Lang, Univ. of Oklahoma Hlth. Sci. Ctr.; Virginia Shapiro, Mayo Clinic
  - Grant Writing for PIs
    - *Table Leaders:* Carol E. Webb, Univ. of Oklahoma Hlth. Sci. Ctr.; Andre Ballesteros, Univ. of Alabama, Birmingham; Sarah L. Gaff, Univ. of Pittsburgh; Jose R. Conejo-Garcia, Moffitt Cancer Ctr.; Jane A. Gross, Aptevo Therapeutics

**AAI EDUCATION COMMITTEE & AAI COMMITTEE ON THE STATUS OF WOMEN**

**Careers in Science Roundtable**

**SUNDAY, MAY 6, 12:00 PM – 1:30 PM**

**Chair:** Laura A. Solt, Scripps Res. Inst.; AAI Committee on the Status of Women Chair

At this popular session, attendees will have the opportunity to meet with experienced scientists to explore specific career issues important to men and women in science today. Gain insights into issues you are confronting in your own career. Topics include international opportunities in science, succeeding in graduate school, participating in NIH Study Sections, considerations for scientists in M.D.-Ph.D. careers, and exciting careers outside of the bench. There are also table discussions on navigating work-life issues such as balancing careers with family and transitioning from specific career stages that may be relevant to any work environment (academic research, biotech industry, governmental agencies, non-profit). Don’t miss this great networking opportunity! *Registration Fee: $30 (lunch included)*

**Discussion topics and table leaders:**

- **Research Careers in Academia**
  - Succeeding in Graduate School
  - Graduate Student to Postdoc: finding a postdoc, interviewing
  - Postdoc to PI
    - Government Research Institutions
      - *Table Leader:* Charles E. Egwuagu, NEI, NIH
AAI COMMITTEE SYMPOSIA AND SESSIONS

- The Physician Scientist: balancing clinical and research duties
  
  **Table Leaders:** Michael Silverman, Univ. of Pennsylvania; Gerald P. Morris, Univ. of California, San Diego; Penelope A. Morel, Univ. of Pittsburgh

- Research from the M.D., Ph.D. Perspective
  
  **Table Leaders:** Robyn S. Klein, Washington Univ. Sch. of Med.; Celeste Morley, Washington Wash. Univ. Sch. of Med.

- Non-Research Careers for Scientists: careers enabling scientists to advance the field away from the bench
  
  - Scientific Publishing
    
    **Table Leader:** Irina Tiper, The Journal of Immunology
  
  - Opportunities for Scientists in Foundations/Non-profits
    
    **Table Leaders:** Courtney R. Pinard, Career Development and Awards, AAI; Anastazia Older Aguilar, Bill and Melinda Gates Fdn.
  
  - Careers in Science Policy
    
    **Table Leaders:** Lauren G. Gross, Public Policy and Government Affairs, AAI; Lauren L. Brodd, Public Policy and Government Affairs, AAI

- International Opportunities in Science
  
  **Table Leaders:** Anne Hosmalm, Institut Cochin, Université Paris-Descartes Sorbonne-Paris-Cité; Christopher J. Paige, Princess Margaret Cancer Ctr.

AAI MINORITY AFFAIRS COMMITTEE

**Careers Roundtable and Speed Networking Session**

**SATURDAY, MAY 5, 11:45 AM – 2:15 PM**

**Chair:** Robert J. Binder, Univ. of Pittsburgh; AAI Minority Affairs Committee Chair

Networking skills have never been more crucial to ensure success for early/mid-career scientists, including those traditionally under-represented in biomedical research. At the roundtable, take advantage of the opportunity to meet in small-group format with accomplished, senior immunologists to hear how they have handled the career challenges you now face and learn what they believe will work for you today. Then practice networking in a relaxed environment offering a structured networking exercise handled the career challenges you now face and learn what they believe will work for you today. Then practice networking in a relaxed environment offering a structured networking exercise and personalized feedback on communicating your scientific interests/objectives most effectively. Scientists and trainees of all backgrounds are encouraged to attend! **Registration Fee:** $30 (includes lunch plus coffee during networking hour)

**Discussion topics and table leaders:**

- Grad student: finding a mentor, setting sights on postdoc training
  
  **Table Leaders:** Luis A. Sanchez-Perez, Duke Univ.; Tonya Webb, Univ. of Maryland; Adriana Larregina, Univ. of Pittsburgh

- Postdoc: finding a mentor, setting sights on a faculty position
  
  **Table Leaders:** Mireia Guerau-de-Arellano, Ohio State Univ.; Charlotte Vines, Univ. of Texas, El Paso; Eduardo Davila, Univ. of Maryland

- Junior faculty: preparing for promotion and tenure
  
  **Table Leaders:** Robert J. Binder, Univ. of Pittsburgh; Floyd Wormley, Univ. of Texas, San Antonio; Jose R. Conejo-Garcia, Wistar Inst.

- NEW! Work-life balance, it’s real!
  
  **Table Leader:** Claudia Jakubzick, Natl. Jewish Hlth.

- Academia or industry: how to decide (or switch sides)
  
  **Table Leaders:** Jonathan A. Deane, GNF/Novartis; Homero Sepulveda, Thermo Fisher Scientific

- Government agency careers:
  
  **Table Leaders:** Cheri Butts, Biogen; Charles Egwuagu, NEI, NIH; Jennifer Martinez, NIEHS, NIH

- Non-bench research science careers – e.g., entrepreneurship/research technology; intellectual property/patent law; non-profits/foundations
  
  **Table Leaders:** Robert Balderas, BD Biosciences (research technology); Edwin Flores, Chalker Flores LLP (intellectual property law); Anastazia Older Aguilar, Gates Foundation (non-profit/foundations)

AAI PROGRAM COMMITTEE

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

**FRIDAY, MAY 4, 2:30 PM – 4:30 PM**

**Chairs:** Eugene M. Oltz, Washington Univ. Sch. of Med.; AAI Program Committee Chair

**Jennifer A. Punt, Univ. of Pennsylvania Sch. of Vet. Med.**

**Speakers:**

- Jeffrey C. Rathmell, Vanderbilt Univ.
  
  *Update on immunometabolism and how to fuel immunity*

  
  *Cell death in the immune system*

  
  *Chromatin conformation and epigenetics of the antigen receptor loci shape emerging immune repertoires*

- Paul G. Thomas, St. Jude Children’s Res. Hosp.
  
  *Defining essential features of epitope-specific T cell receptor repertoires responding to pathogens and tumors*

This workshop intends to bring a broad audience up-to-date on a few emerging or rapidly changing fields or areas of technological innovation. Expert lecturers will provide an overview of each trending topic with an emphasis on communicating big picture concepts.

AAI PUBLICATIONS COMMITTEE

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

**SUNDAY, MAY 6, 12:30 PM – 2:30 PM**

**Chairs:** Brian D. Evavold, Univ. of Utah; AAI Publications Committee Chair

**Pamela J. Fink, Univ. of Washington Sch. of Med.; Editor-in-Chief, The Journal of Immunology**

**Speakers:**

- Brian D. Evavold, Univ. of Utah
  
  *Advice on writing a scientific manuscript*
Suzanne Ostrand-Rosenberg, Univ. of Maryland, Baltimore County
You just received the reviews of your manuscript: how do you respond?

Pamela J. Fink, Univ. of Washington Sch. of Med.
Ethics in publishing: how to keep to the straight and narrow

In this session sponsored by the AAI Publications Committee, experienced editors will provide valuable insights to the processes of preparing a manuscript and responding to reviewers’ comments. Panelists will address questions such as: When writing a manuscript, what steps can an author take to enhance its impact on editors, reviewers and, if accepted for publication, on readers? What are recommended practices for responding to reviewers’ comments? How can authors enhance the presentation of data in figures? In addition, the Editor-in-Chief of The Journal of Immunology will speak on how to avoid possible ethical missteps in scientific publishing.

AAI VETERINARY IMMUNOLOGY COMMITTEE

Neonatal Immunity: Getting it Right from the Start

Support in part provided by the American Association of Veterinary Immunologists

SATURDAY, MAY 5, 12:30 PM – 2:30 PM

Chairs: Crystal L. Loving, Natl. Animal Dis. Ctr., ARS, USDA; AAI Veterinary Immunology Committee Chair
George Mutwiri, Univ. of Saskatchewan

Speakers:
John E. Butler, Univ. of Iowa Carver Col. of Med.
The critical window of neonatal immune system development: lessons from animal models

Neonatal memory B cell activation in horses

Tod J. Merkel, FDA
Protecting neonates from pertussis—lessons from a baboon model

Philip Griebel, VIDO-Intervac, Univ. of Saskatchewan, Canada
Bovine mucosal immune system development: vaccines targeting the pathobiome

This symposium will emphasize factors impacting neonatal immune development and protection against disease across various animal systems. Whereas transitioning from a sterile environment to a world with a multitude of microbes makes a neonate vulnerable to infection, exposure to the microbial world is important for immune maturation, but poses a risk to neonatal health. Maternal-derived immune factors can provide protection during the vulnerable neonatal period, and various methods are being utilized to exploit maternal immunity or enhance neonatal acquired immunity. This symposium will highlight factors that can improve or impede neonatal health, identifying commonalities relevant to both human and animal health.

SPECIAL ACTIVITIES AT THE AAI BOOTH (403)

Visit the AAI Booth for the following activities throughout IMMUNOLOGY 2018™:

SATURDAY, MAY 5, 2:30-3:45 PM
• Meet the Editors-in-Chief of ImmunoHorizons: Leslie J. Berg and Michael S. Krangel.
• Meet AAI Minority Affairs Committee (MAC) Members to learn about MAC activities.

SUNDAY, MAY 6, 2:30-3:45 PM
• Meet the AAI Public Policy Fellows and discover why YOU should be our next Fellow!
• Meet the Editors-in-Chief of The Journal of Immunology: Pamela J. Fink (current) and Eugene M. Oltz (incoming).

MONDAY, MAY 7, 2:30-3:45 PM
• Learn about the Career Advisory Board (CAB) from Laura A. Solt, Chair, AAI Committee on the Status of Women.
• Meet the AAI Public Policy Fellows and discover why YOU should be our next Fellow!

The AAI Public Policy Fellows hold informal sessions at the AAI booth to talk about the program with interested AAI members. Plan to attend these and other AAI booth activities as scheduled above.
NATIONAL INSTITUTE ON AGING (NIA) SYMPOSIUM

Aging and Hematopoiesis
SUNDAY MAY 6, 8:00 AM – 10:00 AM

Chairs: Rebecca A. Fuldner, NIA, NIH
Ken Dorshkind, Univ. of California, Los Angeles

Speakers:
Paul Frenette, Albert Einstein Col. of Med.
Aging of the bone marrow environment
Hematopoietic stem cell function in regeneration and aging
Ken Dorshkind, Univ. of California, Los Angeles
The effects of aging on the transcriptional profile of hematopoietic stem cell subpopulations
Danica Chen, Univ. of California, Berkeley
Hematopoietic stem cell aging and rejuvenation: inflammasome regulation of the mitochondrial metabolic checkpoint

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS) SYMPOSIUM

Novel Findings and Next Steps Concerning Nanomaterial Exposures on the Immune System
SUNDAY, MAY 6, 12:30 PM – 2:30 PM

Chairs: Michael C. Humble, NIEHS, NIH
Andrij Holian, Univ. of Montana

Speakers:
Jared Brown, Univ. of Colorado, Denver
Understanding mast cell activation in the development of safe nanotechnologies
Lisa DeLouise, Univ. of Rochester
Immunomodulatory effects of nanoparticles in a mouse model of skin and allergy
Andrij Holian, Univ. of Montana
Nanomaterials accelerate systemic autoimmune disease in lupus-prone New Zealand mixed mice
Srikanth Nadadur, NIEHS, NIH
Nano environmental health and safety research: where are we now?

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES (NIAID) SYMPOSIUM

Maternal Effects on Fetal Immunity
SUNDAY, MAY 6, 3:45 PM – 5:45 PM

Chairs: Alison Deckhut Augustine, NIAID, NIH
Gil Mor, Yale Univ.

Speakers:
Gil Mor, Yale Univ.
Mechanism of immune regulation by the placenta
Erin Adams, Univ. of Chicago
How antigen presentation by the nonclassical MHC, HLDA-F modulates its interactions with NK receptors
Catherin Blish, Stanford Univ.
Expansion of CD38-expressing NK cells with enhanced antiviral activity during pregnancy
Tippi MacKenzie, Univ. of California, San Francisco
Maternal and fetal T cell activation during preterm labor
THE AMERICAN SOCIETY OF GENETIC AND CELL THERAPY (ASGCT) SYMPOSIUM

Immunologic Responses to Gene Therapy for Hemophilia
SATURDAY, MAY 5, 10:15 AM – 12:15 PM

Chairs: Federico Mingozzi, INSERM, UPMC, Genethon
Roland W. Herzog, Univ. of Florida

Speakers:
Roland W. Herzog, Univ. of Florida
In vivo gene therapy to induce immune tolerance in hemophilia
Federico Mingozzi, INSERM, UPMC, Genethon, France
Immune responses in clinical trials for hemophilia
David W. Scott, Uniformed Services Univ.
Regulatory T cell-mediated tolerance induction in hemophilia
Antonia Follenzi, Univ. of Piemonte Orientale, Italy
MicroRBA-regulated lentiviral gene therapy for treatment and immune tolerance in hemophilia

THE AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE (ASTMH) SYMPOSIUM

Immune Lessons from Parasites
MONDAY, MAY 7, 8:00 AM – 10:00 AM

Chairs: Christine Peterson, Univ. of Iowa
Noah Butler, Univ. of Iowa

Speakers:
P’ng Loke, New York Univ.
Alternatively activated macrophages during helminth infection
Emma Wilson, Univ. of California, Riverside
The neuroimmunological niche of Toxoplasma infection
Tiffany Borbon, Univ. of Iowa
Bacterial co-infection in murine cutaneous leishmaniasis
Angela Mossiman, Oxford, United Kingdom
Safety and immunogenicity of the novel Plasmodium falciparum blood stage vaccine RH5.1/AS01B in a phase 1/1a clinical trial

THE AMERICAN SOCIETY OF TRANSPLANTATION (AST) SYMPOSIUM

New Paradigms in T Follicular Cell Biology and Transplant Immunity
SATURDAY, MAY 5, 12:30 PM – 2:30 PM

Chairs: Peter Heeger, Ichan Sch. of Med., Mount Sinai
Maria-Lusia Alegre, Univ. of Chicago

Speakers:
Scot Hale, Univ. of Utah
Recent progress in T follicular helper cell biology
Raul Badell, Univ. of Utah
Impact of CD28 costimulation blockade of T follicular helper and follicular regulatory responses in transplantation
Peter S. Heeger, Ichan Sch of Med., Mount Sinai
Complement regulation of T follicular helper and germinal center B cells induced by transplantation
Diana Metes, Univ. of Pittsburgh
Tracking T follicular helper cells in human transplant recipients

CANADIAN SOCIETY FOR IMMUNOLOGY (CSI) SYMPOSIUM

Innate Lymphoid Cells and Inflammatory Disease
MONDAY, MAY 7, 3:45 PM – 5:45 PM

Chairs: Kelly McNagny, Univ. of British Columbia, Canada
Arthur Mortha, Univ. of Toronto, Canada

Speakers:
Pamela Ohashi, Princess Margaret Cancer Centre, Canada
Innate lymphoid cells regulate CD8 T cell immunity
Jörg Fritz, McGill Univ., Canada
Molecular regulation of group 2 innate lymphoid cell functions
Arthur Mortha, Univ. of Toronto, Canada
Adaptive immune control of ILC3 functions
Fumio Takei, Univ. of British Columbia, Canada
Heterogeneity of mouse lung ILC2
Kelly McNagny, Univ. of British Columbia, Canada
Role of innate lymphoid cells in fibrotic disease
**CHINESE SOCIETY FOR IMMUNOLOGY (CSI) SYMPOSIUM**

*The Regulatory Function of Innate Lymphoid Cells and T Cells*

**SUNDAY, MAY 6, 3:45 PM – 5:45 PM**

**Chairs:** Bing Sun, Shanghai Inst. of Biochemistry and Cell Biol., China  
Leslie Berg, Univ. of Massachusetts Med. Sch.

**Speakers:**

- Lanfen Chen, Sch. of Life Sciences, Xiamen Univ., China  
  *The transcriptional coactivator TAZ regulates the Treg/Th17 balance*

- Guangwei Liu, Beijing Normal Univ., China  
  *Histone deacetylase SIRT1 negatively regulates the differentiation of IL-9-producing CD4+ T cells*

- Xin Lin, Sch. of Med., Tsinghua Univ., China  
  *The contribution of IL-17 receptor signaling components to psoriasis development*

- Zhanguo Li, Beijing Univ., China  
  *Low dose interleukin-2 treatment selectively modulates CD4+ cells subsets in patients with systemic lupus erythematosus*

**CHINESE SOCIETY OF IMMUNOLOGY, TAIWAN (CSIT) SYMPOSIUM**

*Inflammation and Immunity*

**SUNDAY, MAY 6, 10:15 AM – 12:15 PM**

**Chairs:** Jenny Ting, Univ. of North Carolina  
Kuo-I Lin, Genomics Res. Ctr., Academia Sinica, Taiwan

**Speakers:**

- Kuo-I Lin, Genomics Res. Ctr, Academia Sinica, Taiwan  
  *O-GlcNAcylation in B cell immunity*

  *CLEC5A is a critical receptor in innate immunity against Listeria infection*

  *Communications between macrophages and cancer cells during tumor progression*

- Ming-Zong Lai, Inst. of Molec. Biol., Academia Sinica, Taiwan  
  *Resolution of inflammation in primary immunodeficiency: an example or an exception?*

- Chien-Kuo Lee, Grad. Inst. of Immunology, Natl. Taiwan Univ. Col. of Med., Taiwan  
  *Essential role of STAT1 in B cell differentiation*

**EUROPEAN FEDERATION OF IMMUNOLOGICAL SOCIETIES (EFIS) SYMPOSIUM**

*T Cell Memory*

**SATURDAY, MAY 5, 10:15 AM – 12:15 PM**

**Chairs:** Federica Sallusto, Inst. for Res. in Biomedicine, Bellinzona, Switzerland  
Susan Swain, Univ. of Massachusetts Med. Sch.

**Speakers:**

- René van Lier, Sanquin Blood Supply Fndn., The Netherlands  
  *Border control by virus-specific T cells*

- Susan Swain, Univ. of Massachusetts Med. Sch.  
  *Making CD4 memory and Tfh and ThCTL effectors*

- Arne Akbar, Univ. Col. London, United Kingdom  
  *Strategies for enhancing immune memory during aging*

- Andreas Radbruch, German Rheumatism Res. Ctr. Berlin  
  *The resting and restless memory*

**GERMAN SOCIETY FOR IMMUNOLOGY (DGfI) SYMPOSIUM**

*Immune Regulation by Dendritic Cells*

**MONDAY, MAY 7, 10:15 AM – 12:15 PM**

**Chairs:** Diana Dudziak, Univ. Hosp. Erlangen, Germany  
Björn Clausen, Univ. Med. Ctr. of the Johannes Gutenberg Univ. Inst. for Molec. Med., Germany

**Speakers:**

- Michael Lohoff, Univ. of Marburg, Germany  
  *The German Society of Immunology*

  *Molecules for development and homing of dendritic cells*

- Anne Krug, Ludwig-Maximilians-Univ. Munich Inst. for Immunology, Germany  
  *Development and plasticity of plasmacytoid dendritic cells*

- Björn Clausen, Univ. Med. Ctr. of the Johannes Gutenberg Univ. Inst. for Molec. Med., Germany  
  *Dendritic cells drive psoriatic skin disease in mice*

- Diana Dudziak, Univ. Hosp. Erlangen, Germany  
  *Human lymphoid organ dendritic cell identity*

- Joachim Schultze, Univ. of Bonn, Germany  
  *Single cell technologies to decipher the human myeloid cell atlas*
Join your colleagues and let loose for a boot stompin’ good time at Austin’s premier indoor/outdoor music venue.

Enjoy an authentic Texas-style BBQ buffet with all the trimmings (vegetarian options provided), and dance to the music of The Nightowls. Austin’s “Soul Royalty” rocks “a little bit of funk, a little soul, and a whole lotta rhythm and blues.”

The Gala is open to all IMMUNOLOGY 2018™ registered attendees and paid adult guests with a ticket. (Children not permitted.) Drink tickets will be provided; meeting badge is required for admission.

Come as you are, directly from the Austin Convention Center. Meeting badge required. Attendees must be at least 21 years of age.

GENEROUSLY SPONSORED BY BIOLEGEND

* 4 blocks from Austin Convention Center
INTERNATIONAL COMPLEMENT SOCIETY (ICS)

New Discoveries in Complement: Impact on Health and Disease
SUNDAY, MAY 6, 12:30 PM – 2:30 PM

Chairs: Viviana P. Ferreira, Univ. of Toledo Col. of Med.
Rick Wetsel, Univ. of Texas

Speakers:
Clq as an immune modulator of pro-inflammatory pathways
Claudia Kemper, NIH  
Intracellular complement is required for basic physiological processes in immune cells
Ronald Taylor, Univ. of Virginia  
Cancer and complement therapeutics: molecular structure to treatment regimens
CD21 blockade of neurological symptoms of lupus

THE INTERNATIONAL CYTOKINE AND INTERFERON SOCIETY (ICIS) SYMPOSIUM

Cytokine and Interferon Signaling in the Immune Response
SATURDAY, MAY 5, 3:45 PM – 5:45 PM

Chairs: Sarah L. Gaffen, Univ. of Pittsburgh  
Shao-Cong Sun, MD Anderson Cancer Ctr.

Speakers:
Shao-Cong Sun, MD Anderson Cancer Ctr.  
Ubiquitin regulation of IL-15 signaling in T cells
Sarah L. Gaffen, Univ. of Pittsburgh  
The yin and yang of IL-17 signaling
Michail S. Lionakis, NIH, NIAID  
Host defense against Candida: lessons from primary immunodeficiencies
Jenny Ting, Univ. of North Carolina, Chapel Hill  
Intracellular innate receptors: molecular biology, diseases, and the microbiome

KOREAN ASSOCIATION OF IMMUNOLOGISTS (KAI) AND ASSOCIATION OF KOREAN IMMUNOLOGISTS IN AMERICA (AKIA) SYMPOSIUM

Novel Regulators of Immune Homeostasis and Inflammation
SATURDAY, MAY 5, 3:45 PM – 5:45 PM

Je-Min Choi, Hanyang Univ., South Korea

Speakers:
Yoontae Lee, Postech, South Korea  
The role of Capicua in lymphocyte development and immune disorder
Tolerogenic function of dendritic cells and autoimmunity
Je-Min Choi, Hanyang Univ., South Korea  
Ligand independent CTLA-4 signaling peptide as a novel immune regulator in autoimmune diseases
Chang H. Kim, Univ. of Michigan  
Roles of gut microbial metabolites in regulating immunity and inflammation

THE OBESITY SOCIETY (TOS) SYMPOSIUM

Abnormal Metabolism and Inflammation as Driving Mechanisms in Breast Cancer
SUNDAY, MAY 6, 10:15 AM – 12:15 PM

Chairs: Gerald V. Denis, Boston Univ. Sch. of Med.  
Neil M. Iyengar, Mem. Sloan Kettering Cancer Ctr.

Speakers:
Annapoorni Rangarajan, Indian Inst. of Sci.  
Inflammation and abnormal metabolism in breast cancer progression
Catherine Muller, Institut de Pharmacologie et de Biologie Structurale, France  
Bidirectional cross-talk between breast cancer and tumor-surrounding adipocytes in breast cancer progression
Guillaume Andrieu, Boston Univ. Sch. of Med.  
BET bromodomain proteins regulate cytokine drivers of breast cancer metastasis
Daniela F. Quail, McGill Univ. Cancer Ctr., Canada  
Obesity and mechanisms of breast cancer metastasis
2018 Introductory Course in Immunology

July 10–15, 2018
UCLA Luskin Conference Center, Los Angeles, California

Director: Juan Carlos Zúñiga-Pflücker, Ph.D.
University of Toronto and Sunnybrook Research Institute

This comprehensive two-part course, taught by leading experts, provides an in-depth overview of the basics of immunology. This course is for students new to the discipline or those seeking more information to complement general biology or science training. Part I (July 10–12) is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. Part II (July 13–15) is a clinically oriented lecture series focusing on specialty areas. Parts I and II may be taken independently at the discretion of the student.

2018 Advanced Course in Immunology

July 22–27, 2018
Seaport World Trade Center, Boston, Massachusetts

Director: Ulrich H. von Andrian, M.D., Ph.D.
Harvard Medical School and Ragon Institute of MGH, MIT and Harvard

Established in 1966, this intensive course is directed toward advanced trainees and scientists who wish to expand or update their understanding of the field. World-renowned immunologists will present recent advances in the biology of the immune system and address its role in health and disease. This is not an introductory course; attendees will need to have a firm understanding of the basic principles of immunology and laboratory techniques.

For more information, visit www.aai.org/Education/Courses

Please direct inquiries to (301) 634-7178 or meetings@aai.org
SOCIETY FOR IMMUNOTHERAPY OF CANCER (SITC) SYMPOSIUM

Combination Cancer Immunotherapy: Expanding Clinical Success
SATURDAY, MAY 5, 8:00 AM – 10:00 AM

Leisha Emens, Johns Hopkins Univ.

Speakers:
Lawrence Fong, Univ. of California, San Francisco  
Dr. Jekyll and Mr. Hyde of combination checkpoint inhibition
Brendan Curti, Earle A. Chiles Res. Inst.  
Costimulation and chronicity: does timing matter
Leisha Emens, Johns Hopkins Univ.  
Emerging immunotherapy combinations for breast cancer
Chryystal Paulos, Med. Univ. of South Carolina  
Harnessing durable memory T cell responses against cancer

THE SOCIETY FOR LEUKOCYTE BIOLOGY (SLB) SYMPOSIUM

Early Career Investigators: Tissue Phagocyte Heterogeneity in Health and Disease
MONDAY, MAY 7, 10:15 AM – 12:15 PM

Chairs: Robert A. Clark, Univ. of Texas Hlth. Sci. Ctr., San Antonio  
Larry Schlesinger, Texas Biomed

Speakers:
Mark Headley, Univ. of California, San Francisco  
Intravital analysis of tumor-immune engagement during pulmonary metastasis
Ty Troutman, Univ. of California, San Diego  
Hepatic myeloid cell diversity during fibrosis and non-alcoholic steatohepatitis
Wendy Liu, Univ. of California, Irvine  
Biophysical regulation of macrophage phenotype during wound healing
David Verhoeven, Iowa State Univ.  
Divergent macrophage control of early viral replication between infants/toddler and adults during influenza infection contributes to enhanced morbidity in the young

SOCIETY FOR MUCOSAL IMMUNOLOGY (SMI) SYMPOSIUM

Immune Modulation at Mucosal Barriers
MONDAY, MAY 7, 10:15 AM – 12:15 PM

Chairs: Lauren A. Zenewicz, Univ. of Oklahoma Hlth. Sci. Ctr.  
Nobuhiko Kamada, Univ. of Michigan

Speakers:
Nobuhiko Kamada, Univ. of Michigan  
The mouth-gut axis: the influence of oral pathobionts on gastrointestinal disease
Manuela Raffatellu, Univ. of California, San Diego  
Nutritional immunity in the inflamed gut
Niki Moutsopoulos, NIDCR, NIH  
Tissue-specific immunity at the oral mucosal barrier
Jay K. Kolls, Tulane Univ.  
Regulation of mucosal immunity by IL-17R signaling

SOCIETY FOR NATURAL IMMUNITY (SNI) SYMPOSIUM

Towards Treatment of Human Cancer with NK Cells
SATURDAY, MAY 5, 12:30 PM – 2:30 PM

Chairs: Hans-Gustaf Ljunggren, Karolinska Inst., Sweden  
Katy Rezvani, MD Anderson Cancer Ctr.

Speakers:
Anjali Mishra, Ohio State Univ.  
Malignant NK/T-cells in the context of human NK-cell development
Hans-Gustaf Ljunggren, Karolinska Inst., Sweden  
Allogeneic NK cell therapy against hematological malignancies
Katy Rezvani, MD Anderson Cancer Ctr.  
Off-the-shelf CAR-transduced NK cells for cancer therapy
Evren Alici, Karolinska Inst., Sweden  
Ex vivo expansion of autologous NK cells for cancer treatment
CAREER DEVELOPMENT SESSIONS

Through workshops, roundtables, and one-on-one counseling, IMMUNOLOGY 2018™ provides critical career development programs, detailed below.

AAI is also offering an online and on-site Jobs Board free to meeting registrants and exhibitors, and an NIH Grant Review and Funding Information Room.

How to Convert Your CV into a Resumé

Supported in part by a grant to the Federation of American Societies for Experimental Biology (FASEB) from the National Institute of General Medical Sciences (NIGMS), National Institutes of Health [FASEB MARC Program: T36-GM008637-21NCE]

SATURDAY, MAY 5, 9:00 AM – 10:00 AM

Speaker: Derek Haseltine, Director, Career Development Center, Baylor Col. of Med.

For anyone seeking a job outside of academe, how you present yourself on paper is critical. A well prepared resumé can make all the difference in securing that interview. The focus of this session will be on the important elements of a resumé, the differences between a resumé and the standard academic curriculum vitae, and the information needed to make a good impression. In this special career development session, attendees will be instructed in how to transform their CVs into professional resumés. Small breakout sessions for individual consulting will follow. Bring your CV!

Immunology Teaching Interest Group

Sponsored by the AAI Education Committee

SATURDAY, MAY 5, 11:00 AM – 1:00 PM

Chairs: Anil K. Bamezai, Villanova Univ.
David W. Mullins, Dartmouth Col.

Panelists:

Edith Porter, California State Univ., Los Angeles
Integrating caring and the human dimension in immunology to improve student learning

Crystal C. Walline, Univ. of North Carolina, Pembroke
Teaching immunology essentials with clinical correlations

Doreen E. Szollosi, Univ. of Saint Joseph Sch. of Pharmacy
Promoting critical thinking through writing in a first-year immunology course

Kara R. Lukin and Katja Aviszus, Univ. of Colorado, Denver
How to create effective student-driven learning without becoming overwhelmed

Breakout Session Leaders:

Anil K. Bamezai, Villanova Univ.
Intro undergraduate/graduate immunology: Developing a teaching philosophy and a course syllabus

Stephanie James, Regis Univ. Sch. of Pharmacy
Using team-based learning to teach immunology

Paula Kavathas, Yale Univ.
A network of universities collaborate to improve STEM education and literacy

David W. Mullins, Dartmouth Col.
Topics in immunology teaching for medical schools: Selecting course content and “teaching to the USMLE”

Are you looking for new ideas or strategies to enliven and improve your teaching? If so, please join us for this special interest group which will focus on strategies that instructors can use to successfully convey immunology concepts to students at the undergraduate and graduate level. Topics will include the use of clinical correlations, writing, immediate feedback assessment, and more. The session will end with structured breakout discussion groups on team-based learning, undergraduate/graduate education topics, and medical school teaching topics. Current educators, new faculty, and trainees with an interest in teaching are welcome.

Careers Roundtable and Speed Networking Session

Sponsored by the AAI Minority Affairs Committee

SATURDAY, MAY 5, 11:45 AM – 2:15 PM

Chair: Robert J. Binder, Univ. of Pittsburgh; AAI Minority Affairs Committee Chair

For session details, please see p. XII.

NIH Grants Workshop: Demystifying the Grant Application Submission, Review, and Funding Processes

SATURDAY, MAY 5, 12:30 PM – 2:30 PM

Chair: Tina McIntyre, CSR, NIH

Panelists:

Tina McIntyre, Scientific Review Officer, III Study Section, Immunology IRG, DPPS, CSR, NIH

Alison Deckhut-Augustine, Chief, Basic Immunology Branch, Division of Allergy, Immunology, and Transplantation, NIAID, NIH

Deborah Hodge, Scientific Review Officer, HAI Study Section, Immunology IRG, DPPS, CSR, NIH

This workshop will provide participants with an overview of NIH grant submission, assignment, review, and funding opportunities. Emphasis will be given to identification of the most appropriate funding agencies and mechanisms available through NIH, how to make an application “reviewer friendly”, and other strategies that contribute to applications that succeed in obtaining research funding. The workshop will also provide information on how to understand the peer review system, which is essential to competing successfully for funding, with a focus on recent changes to the review process. NIH review and program staff will provide a broad array of expertise and encourage questions from seminar participants. This workshop is open to anyone interested in learning more about preparing an NIH grant application and obtaining NIH funding. Trainees and independent investigators are welcome.

CAREER DEVELOPMENT SESSIONS
Careers in Biotech: Panel Discussion and Networking
Sponsored by the AAI Education Committee
SATURDAY, MAY 5, 7:00 PM – 9:00 PM
Chair: Kerry A. Casey, MedImmune
Panelists:
Andrew C. Chan, Senior Vice President, Research Biology, Genentech, Inc.
David J. DiLillo, Staff Scientist, Regeneron Pharmaceuticals, Inc.
Stephen T. Haley, Vice President, North America, and Chief Commercial Officer, Immudex
Catherine J. McMahan, Senior Director, Aptevo Therapeutics

Many opportunities exist in industry for scientists with advanced degrees. There are positions in laboratory research, program management, business development, regulatory affairs, clinical trials oversight, medical liaison, and more. This panel features scientists employed in a variety of positions in industry discussing their career paths and the skills required for success in each. Following the panel discussion, enjoy casual conversation with the speakers and other scientists from industry at a networking reception.

Strategies for Successful Postdoctoral Training
SUNDAY, MAY 6, 9:00 AM – 10:00 AM
Speaker: Deirdre Brekken, Assistant Dean for Postdoctoral Affairs, Univ. of Texas Southwestern Med. Ctr.

Postdoctoral training is the time to develop the research skills you will need to succeed as an independent scientist. It is, however, just as important to realize that you need to develop your professional skills to prepare you for your career path at the same time. This session will highlight ways of getting the most out of your postdoctoral training, relating successfully with your mentor, and understanding how to use the resources available to you to ensure that your training prepares you for the transition into the next phase of your career.

Interviewing for a Job
Supported in part by a grant to the Federation of American Societies for Experimental Biology (FASEB) from the National Institute of General Medical Sciences (NIGMS), National Institutes of Health (FASEB-MARC Program: T36-GM08637-21NCE)
SUNDAY, MAY 6, 10:15 AM – 11:15 AM
Speaker: Derek Haseltine, Director, Career Development Center, Baylor Col. of Med.

This session will be focused on tips and techniques to help you successfully navigate the interview process. Emphasis will be on how you can present yourself in the best possible light. You will also learn how to respond to unexpected questions. This session is open to anyone but is especially intended for student and postdoctoral attendees.

Careers in Science Roundtable
Sponsored by the AAI Education Committee & AAI Committee on the Status of Women
SUNDAY, MAY 6, 12:00 PM – 1:30 PM
Chair: Laura A. Solt, Scripps Res. Inst.; AAI Committee on the Status of Women Chair
For session details, please see p. XI.

Writing Scientific Manuscripts and Responding to Reviewers: Tips on Navigating the Process
Sponsored by the AAI Publications Committee
SUNDAY, MAY 6, 12:30 PM – 2:30 PM
Chairs: Brian D. Evavold, Univ. of Utah; AAI Publications Committee Chair
Pamela J. Fink, Univ. of Washington Sch. of Med.; Editor-in-Chief, The Journal of Immunology
For session details, please see p. XII.

International Opportunities in Science
MONDAY, MAY 7, 10:15 AM – 11:45 AM
Chair: Hans-Martin Jäck, Univ. of Erlangen-Nürnberg, Germany
Panelists:
Anne Hosmalin, Inst. Cochin, France
Christopher J. Paige, Princess Margaret Cancer Ctr., Canada
Bing Sun, Chinese Acad. of Sci.
Winfried F. Pickl, Med. Univ. of Vienna, Austria

Working as a scientist outside of the U.S. requires curiosity, adaptability, and open-mindedness, which are qualities important for success in any career. Given the international reach of science, this new session will help immunologists learn about opportunities to gain professional experience beyond the U.S. This panel features scientists employed at academic or research institutions around the globe. Panelists will discuss the postdoctoral fellowship and grant application process; the benefits of international training and employment; the challenges in finding science-related jobs outside of the U.S.; and the process of moving your lab to another country. This session is open to anyone.
Visit the AAI Jobs Board!

A Free Recruiting Service for Registrants and Exhibitors Only at IMMUNOLOGY 2018™

Post Online and Meet On-site

AAI is offering career services to both job seekers and employers through a Jobs Board free to meeting registrants and exhibitors at www.immunology2018.org/jobs-board.

**Job Seekers!**

Whatever your career stage, use this career service at IMMUNOLOGY 2018™ to enhance your professional development.

- **Job Postings**
  Review the online AAI Jobs Board to identify postings you wish to pursue. View new Advance Postings through April 25. Watch for additional On-site Postings in the Exhibit Hall.

- **Direct Access to Recruiters**
  Job postings will include recruiters’ e-mail addresses so that you can contact them directly.

**Employers!**

Advertise your position on the virtual Jobs Board located on the IMMUNOLOGY 2018™ website. By including a contact email, you will receive inquiries directly.

- **Advance Postings**
  Postings will be accepted as of February 15 and will remain online until the end of the meeting. To post job listings in advance of the meeting, contact meetings@aai.org. Advance Postings must be submitted to AAI by April 25, 2018.

- **On-site Postings**
  After April 25, 2018, employers may still advertise a job on the IMMUNOLOGY 2018™ Jobs Board by visiting the AAI Office in the Austin Convention Center between 9:00 AM and 5:00 PM. Ads submitted on-site will be posted on the Jobs Board in the Exhibit Hall.

**Save Thousands of Dollars in Recruiting Expenses**

Take advantage of this complimentary hiring opportunity at IMMUNOLOGY 2018™.

To register for the meeting, visit www.immunology2018.org/register.
POSTER SESSIONS AND BLOCK SYMPOSIA

Abstracts of unpublished, original research are presented during Poster Sessions and Block Symposia (oral presentations of poster data). This is perhaps the most dynamic aspect of IMMUNOLOGY 2018™. Take part in face-to-face discussions with abstract authors and learn about their most recent, unpublished research. Poster Sessions will be held daily (unopposed by any other sessions) in the Exhibit Hall from 2:30 PM – 3:45 PM.

NIH GRANT REVIEW AND FUNDING INFORMATION ROOM

NIH program and review staff will be available in the NIH Grant Review and Funding Information Room for individual conversations and consultations. A schedule will be posted online and on site to show specific times staff members will be on hand to answer questions about the scientific review process, grant/fellowship opportunities, and NIH institute-specific interests. Consultations will be available on a drop-in basis. No appointments are necessary. Location: Room 14.

EXHIBITOR WORKSHOPS

Be sure to take advantage of the knowledge-building opportunities presented in Exhibitor Workshops. Located on the Exhibit Floor, these workshops explore exhibitors’ latest technologies, products, and services through demonstrations and discussions.

Workshops are planned and conducted by exhibitors; the listing of those workshops does not constitute endorsement of any products or services by AAI.

FILL OUT YOUR EXHIBIT HALL PASSPORT FOR A CHANCE TO WIN ONE OF THREE $250 AMERICAN EXPRESS GIFT CARDS!

Entries must be received by Monday, May 7, at 2:00 PM. The drawing will be held during the Poster Presentations on Monday, May 7, from 2:30 PM – 3:45 PM. You’ll find your Passport in your meeting bag or you may pick one up at the AAI Booth (403).
ImmunoHorizons is a fully peer-reviewed journal committed to advancing the knowledge of immunology. All decisions are made by editors who are practicing scientists.

Questions? Email infoih@aai.org

Connect with AAI!

Want to hear the latest from The American Association of Immunologists? You can find AAI and its journals, The Journal of Immunology and ImmunoHorizons, through your favorite social media channels:

If you’d like to join the AAI email list, please email infoaai@aai.org.
SPECIAL EVENTS

New Member Reception (By Invitation Only)
Sponsored by the AAI Membership Committee
FRIDAY, MAY 4, 4:00 PM – 4:45 PM
(BADGE AND INVITATION REQUIRED)
AAI welcomes new Regular, Associate, and Postdoctoral Fellow members to meet each other at a relaxed gathering. Members of the AAI Membership Committee, AAI President Wayne Yokoyama, and fellow Council members and Chairs from various of our committees will join new members for casual conversation and light refreshments.

AAI Public Policy Fellows Program Dinner (By Invitation Only)
Sponsored by the AAI Committee on Public Affairs
FRIDAY, MAY 4, 6:15 PM – 9:30 PM
AAI welcomes the 2018-19 AAI Public Policy Fellows to this first meeting with members of the AAI Committee on Public Affairs and the AAI Public Affairs staff. Discussion topics will cover the upcoming program year, including the Fellows’ 2019 Capitol Hill visit to advocate for increased support for biomedical research and the National Institutes of Health.

The AAI Journals Editorial Boards Dinner Meeting (By Invitation Only)
Generously sponsored by Sheridan Journal Services
SATURDAY, MAY 5, 7:00 PM – 10:00 PM
Editorial Board members meet to discuss items of interest and concern regarding The JI and IH specifically, and scientific publishing in general.

Service Appreciation Reception (By Invitation Only)
Generously sponsored by BioLegend
SUNDAY, MAY 6, 7:30 PM – 9:30 PM
(BADGE AND INVITATION REQUIRED)
AAI honors the dedicated member volunteers of the association—committee members, editors, abstract programming chairs, and others—who work on the membership’s behalf throughout the year by giving generously of their time in support of the AAI mission. Open (by invitation only) to 2017-2018 AAI volunteers.

IMMUNOLOGY 2018™ Gala
Generously sponsored by BioLegend
MONDAY, MAY 7, 7:00 PM – 9:30 PM
STUBB’S BAR-B-Q
801 RED RIVER ST.,
AUSTIN, TEXAS
This year’s Gala will be held at the Stubb’s Bar-B-Q, Austin’s premier indoor/outdoor music venue. Unwind with your colleagues for a boot stompin’ good time! Enjoy an authentic Texas style BBQ buffet with all the trimmings (vegetarian options provided), and dance to the music of The Nightowls, dubbed Austin’s ‘Soul Royalty’.

GUEST SOCIETIES

AAI welcomes the following Guest Societies presenting symposia in their respective areas at IMMUNOLOGY 2018™.

The American Society of Gene and Cell Therapy (ASGCT)
The American Society of Transplantation (AST)
The American Society of Tropical Medicine and Hygiene (ASTMH)
The Canadian Society for Immunology (CSI)
The Chinese Society for Immunology (CSI)
The Chinese Society of Immunology, Taiwan (CSIT)
The European Federation of Immunological Societies (EFIS)
The German Society for Immunology (DgFI)
The International Complement Society (ICS)
The International Cytokine and Interferon Society (ICIS)
The Korean Association of Immunologists (KAI) and Association of Korean Immunologists in America (AKIA)
The Obesity Society (TOS)
The Society for Immunotherapy of Cancer (SITC)
The Society for Leukocyte Biology (SLB)
The Society for Mucosal Immunology (SMI)
The Society for Natural Immunity (SNI)
THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS
GRATEFULLY ACKNOWLEDGES THE GENEROUS PLATINUM SPONSORSHIP OF

for the

IMMUNOLOGY 2018™ GALA
MONDAY, MAY 7, 2018 • 7:00 PM – 9:30 PM

Service Appreciation Reception

Lefrançois-BioLegend Memorial Award

AAI-BioLegend Herzenberg Award and Lecture

Meeting Lanyards
2017–2018 AAI PROGRAM COMMITTEE

Eugene M. Oltz, Chair  
Washington University School of Medicine

Julie Magarian Blander  
Weill Cornell Medical College of Cornell University

Arup K. Chakraborty  
Massachusetts Institute of Technology

José R. Conejo-Garcia  
Moffitt Cancer Center

Viviana P. Ferreira  
University of Toledo College of Medicine and Life Sciences

Mark L. Lang  
University of Oklahoma Health Sciences Center

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University of Florida College of Veterinary Medicine

Jennifer A. Punt  
University of Pennsylvania School of Veterinary Medicine

Anne I. Sperling  
University of Chicago

Daniel B. Stetson  
University of Washington

AAI ABSTRACT PROGRAMMING CHAIRS

Antigen Processing and Presentation  
Robert J. Binder  
University of Pittsburgh

Laura Santambrogio  
Albert Einstein College of Medicine

Amy Lovett-Racke  
Ohio State University Medical Center

Chandra Mohan  
University of Houston

Cellular Adhesion, Migration, and Inflammation  
Minsoo Kim  
University of Rochester

S. Celeste Morley  
Washington University School of Medicine

Cytokines and Chemokines and Their Receptors  
Laurie E. Harrington  
University of Alabama at Birmingham

Mandy J. McGechy  
University of Pittsburgh

Hematopoiesis and Immune System Development  
Jose Alberola-Ila  
Oklahoma Medical Research Foundation

Kay L. Medina  
Mayo Clinic

Immediate Hypersensitivity, Asthma, and Allergic Responses  
Paul J. Bryce  
Northwestern University

Mitchell H. Grayson  
Nationwide Children's Hospital

Immune Mechanisms of Human Disease  
Jordan S. Orange  
Texas Children's Hospital

Barbara Shacklett  
University of California, Davis

Immune Response Regulation: Cellular Mechanisms  
Rachel Ettinger  
MedImmune

Thomas C. Mitchell  
University of Louisville School of Medicine

Immune Response Regulation: Molecular Mechanisms  
Lee Ann Garrett-Sinha  
State University of New York at Buffalo

Jie Sun  
Mayo Clinic

Innate Immune Responses and Host Defense: Cellular Mechanisms  
Jonathan C. Kagan  
Harvard Med. Sch./Boston Children's Hosp.

David M. Underhill  
Cedars-Sinai Medical Center

Innate Immune Responses and Host Defense: Molecular Mechanisms  
Katherine A. Fitzgerald  
University of Massachusetts Medical School

Jessica A. Hamerman  
Benaroya Research Institute

Lymphocyte Differentiation and Peripheral Maintenance  
Nicole Baumgarth  
University of California, Davis

Ross M. Kedl  
University of Colorado Denver

Microbial, Parasitic, and Fungal Immunology  
Mercedes Gonzalez Juarrero  
Colorado State University

DeBrooki B. Herbert  
University of Pennsylvania

Mucosal and Regional Immunology  
Timothy L. Denning  
Georgia State University

June L. Round  
University of Utah

Technological Innovations in Immunology  
Lawrence Stern  
University of Massachusetts

Yuri Sykulev  
Thomas Jefferson University

Therapeutic Approaches to Autoimmunity  
Jennifer H. Anolik  
University of Rochester

Gregory F. Wu  
Washington University

Transplantation Immunology  
Megan K. LeVings  
University of British Columbia

William J. Murphy  
University of California, Davis

Tumor Immunology  
Tyler J. Curiel  
Univ. of Texas Hlth. Sci. Ctr., San Antonio

Eduardo Davila  
Univ. of Maryland Greenebaum Cancer Ctr.

Erica L. Stone  
Wistar Institute

Vaccines and Immunotherapy  
Sandora Demaria  
Weill Cornell Medical College

Kohtaro Fujihashi  
University of Alabama at Birmingham

Vaccines and Immunotherapy  
Sandora Demaria  
Weill Cornell Medical College

Kohtaro Fujihashi  
University of Alabama at Birmingham

Veterinary and Comparative Immunology  
Janice C. Telfer  
University of Massachusetts Amherst

Jeffrey A. Vorder  
North Carolina State University

Viral Immunology  
Julia L. Hurwitz  
St. Jude Children's Research Hospital

Steven M. Varga  
University of Iowa

AAI gratefully acknowledges the efforts of the Program Committee and Abstract Programming Chairs for IMMUNOLOGY 2018™.
Meet *ImmunoHorizons* Editors-in-Chief!

Saturday, May 5, 2018
2:30 PM – 3:45 PM
Booth 403
Exhibit Hall

Leslie J. Berg, Ph.D.
Editor-in-Chief

Michael S. Krangel, Ph.D.
Editor-in-Chief

Open access from AAI
www.immunohorizons.org

Meet *The Journal of Immunology* Editors-in-Chief!

Sunday, May 6, 2018
2:30 PM – 3:45 PM
Booth 403
Exhibit Hall

Pamela J. Fink, Ph.D.
Editor-in-Chief

Eugene M. Oltz, Ph.D.
Editor-in-Chief Designate

The most cited journal in immunology
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The American Association of Immunologists

AAI Annual Meetings
Mark Your Calendar for the Premier Annual Immunology Event!

2018
IMMUNOLOGY 2018™
May 4–8
Austin, Texas

2019
IMMUNOLOGY 2019™
May 9–13
San Diego, California

2020
IMMUNOLOGY 2020™
May 8–12
Honolulu, Hawaii

2021
IMMUNOLOGY 2021™
May 12–16
Philadelphia, Pennsylvania
AAI Programs to Benefit Your Lab’s Current or Future Research

AAI Careers in Immunology Fellowship

**KEY DATES**

**APPLICATIONS OPEN**

**APPLICATIONS CLOSE**

**JANUARY 15**

**MARCH 15**

These fellowships provide AAI member PIs with one year of salary support for a graduate student or postdoctoral fellow in their labs. Member PIs in good standing with less than $250,000 (excluding PI’s salary) in annual direct costs are eligible to apply.

Selection is based on the potential of the trainee, merit of the project, quality of the training environment, and financial need.

Direct inquiries to fellowships@aaionline.org.

AAI Travel for Techniques Award Program

**AWARDS CYCLE**

**APPLICATIONS OPEN**

**APPLICATIONS CLOSE**

**WINTER**

**DECEMBER 15**

**FEBRUARY 15**

**SPRING**

**APRIL 15**

**JUNE 15**

**FALL**

**AUGUST 15**

**OCTOBER 15**

The Travel for Techniques Award is given to member PIs, reimbursing up to $1,500 in expenses for travel to learn a new technique. Member PIs in good standing with less than $250,000 (excluding PI’s salary) in annual direct costs are eligible to apply.

Direct inquiries to awards@aaionline.org.

*If the application deadline falls on a weekend day or a federal holiday, applications will be due on the next regular business day.*

The American Association of Immunologists provides robust support for scientists through an array of fellowships, career awards, and travel grants. For complete details, visit www.aai.org/awards.
Summer Opportunity for High School Science Teachers

AAI HIGH SCHOOL TEACHERS SUMMER RESEARCH PROGRAM IN IMMUNOLOGY

Looking for creative ways to bring the excitement of discovery to your classroom? Participate in the 2018–19 American Association of Immunologists (AAI) High School Teachers Summer Research Program. You’ll enjoy hands-on experience in cutting-edge research, using the latest tools and techniques. And you’ll take home a number of new lab exercises for use in your classes.

This national program supports high school science teachers’ participation in a 4–6 week summer research experience in the laboratories of AAI members. If you are selected,

- AAI will locate an AAI member in your area to serve as your mentor for the summer.
- You will receive a stipend for working in the laboratory of your AAI mentor.
- An educational consultant will assist you with the development of an innovative curriculum to be shared nationally.
- You will be supported to attend a national professional meeting to present your experiences, and
- Prior to starting in the lab, you will be supported in attending the 3-day AAI Introductory Course in Immunology, Part I, held in July in Los Angeles, California. There, you’ll learn the basic principles of the discipline. (www.aai.org/Education/Courses/Introductory).

Apply today for this exciting professional development opportunity! Applications are due March 15, 2018.

Complete details and application forms can be found at:
www.aai.org/Education/Summer-Teachers

Contact Courtney R. Pinard, Ph.D., with any questions: cpinard@aai.org or 301.634.7826.

AAI is a professional association dedicated to advancing the discipline of immunology and representing the interests of scientists engaged in research in the field. AAI sponsors the High School Teachers Summer Research Program in Immunology in an effort to cultivate the next generation of talented investigators and enhance public understanding of the critical nature of basic research to human health.

Curricula from past program participants are available to other teachers through an archive maintained on the AAI web site.

Find ideas for incorporating the excitement of immunology into your classroom!

Recent topics include:
- A Bioinformatics Approach to Systemic Lupus Erythematosus and Autoimmunity
- Exploring the Link Between Regulatory T Cells and Tumor Growth: A Lesson in the Immune System and Cancer
- How Can Students Combine Computational Biology Tools with a Laboratory Model to Analyze Changes in the Human Gut Microbiome?
- Vaccines and Herd Immunity

Take advantage of this free educational resource! To view the complete teaching material archive, visit www.aai.org/Education/AAI-Summer-Research-Program-for-Teachers/Archive.aspx.

The American Association of Immunologists
1451 Rockville Pike
Suite 650
Rockville, MD 20852
(301) 634-7178
www.aai.org
The Journal of Immunology Influence Statement

Comprehensive • Authoritative • Foundational

The largest and oldest journal in the field offers unparalleled reporting of major advances in immunology research. Fully peer-reviewed by working scientists, reports are rapidly published and broadly cited.

Comprehensive
• Your “first stop” for major advances
• No triage! Every manuscript is peer-reviewed.
• All editorial decisions made by practicing scientists
• Submission to first decision: 28 days
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• Fourth most frequently used journal for NIH-supported publications

Authoritative
• Cited more than any other immunology journal
• 5-year Impact Factor of 5.185, top 20% of immunology journals
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• Scimago H-index is 328, fourth amongst 200 Immunology journals

Foundational
• At 9.6 years, the cited half-life is one of the longest in the field!
• Committed to rigorously performed research that moves the field forward
• Over 1.5 million page views and 330,000 PDF downloads per month

The Journal of Immunology (The JI) is owned and published by The American Association of Immunologists, Inc., a non-profit association founded in 1913 that is dedicated to advancing the careers of scientists and promoting the field of immunological research.

1. 2016 Journal Citation Reports
2. “A journal’s Eigenfactor score is our measure of the journal’s total importance to the scientific community,” http://www.eigenfactor.org/about.php, accessed 01/10/18
3. https://scholar.google.com/citations?view_op=top_venues&hl=en&q=med_immunology, accessed 01/10/18
An exciting new collection available from

The Journal of Immunology

The Cancer Immunotherapy Revolution: Mechanistic Insights

Read the January 15 issue at www.jimmunol.org

A series of reviews highlighting the interface between basic tumor immunology and the development of cancer immunotherapeutics
The Career Advisory Board
A RESOURCE FOR SENIOR POSTDOCS AND EARLY-CAREER FACULTY

Have you just started your first lab? Trying to juggle research, teaching, and service?
Are you facing new and puzzling issues that an established scientist can answer?

The Career Advisory Board (CAB) is a referral service that matches senior postdocs (start of fourth year and beyond) and early-career PIs who submit requests for guidance on specific career issues with more senior scientists with experience and insights in those areas. The program is not meant to replace the mentoring programs at a scientist’s home institution, but rather to serve as a resource for senior postdocs and early-career PIs to obtain advice on a specific question from established investigators outside of their home institutions—often through a single phone call.

Selected Topics
Balancing family and work
Timing for first grant submission
Recruiting
Handling personnel issues
Managing a lab
Finding a mentor
Building networks
Preparing for leadership
Balancing service obligations
Teaching
Serving on NIH study sections

ELIGIBILITY: The CAB is open to all senior postdocs (start of fourth year and beyond) and early-faculty AAI members.

APPLY HERE: http://aai.org/CAB