The American Association of Immunologists

Career Award Recipients for 2015

The American Association of Immunologists proudly announces the 2015 recipients of AAI awards for outstanding research and career achievements.

The 2015 AAI award winners will be recognized at IMMUNOLOGY 2015™ May 8–12, New Orleans, Louisiana.

AAI Lifetime Achievement Award

In recognition of a career of scientific achievement and contributions to AAI and fellow immunologists

Jonathan Sprent, M.B.B.S., Ph.D.
Garvan Institute of Medical Research

AAI Distinguished Service Award

For outstanding service to AAI and the immunology community as member and Chair of the AAI Committee on Public Affairs, 2007–2014

Elizabeth J. Kovacs, Ph.D.
Loyola University Chicago Stritch School of Medicine

AAI-Steinman Award for Human Immunology Research

For significant, sustained achievement in immunology research pertinent to human disease pathogenesis, prevention, or therapy

Mary Ellen Conley, M.D.
Rockefeller University

AAI-BioLegend Herzenberg Award

For outstanding research contributions to the field of immunology in the area of B cell biology

Matthew D. Scharff, M.D.
Albert Einstein College of Medicine

AAI-Thermo Fisher Meritorious Career Award

For outstanding research contributions to the field of immunology

Ronald N. Germain, M.D., Ph.D.
National Institute of Allergy and Infectious Diseases, National Institutes of Health

AAI-BD Biosciences Investigator Award

For outstanding, early-career research contributions to the field of immunology

Thirumala-Devi Kanneganti, Ph.D.
St. Jude Children’s Research Hospital

AAI Excellence in Mentoring Award

In recognition of exemplary career contributions to a future generation of scientists

Rafi Ahmed, Ph.D.
Emory University School of Medicine
AAI President’s Address
FRIDAY, MAY 8, 5:00 PM
Ernest N. Morial Convention Center, The Great Hall
Linda A. Sherman
Scripps Research Institute, AAI President
Using Autoimmunity to Inform Tumor Immunity
Steven J. Burakoff, The Tisch Cancer Institute
Introduction

AAI President’s Symposium:
Partners in Crime and T Cell Sleuths
MONDAY, MAY 11, 12:30 PM – 2:30 PM
The Great Hall
Chair:
Linda A. Sherman, Scripps Research Institute, AAI President
Speakers:
Matthew F. Mescher, University of Minnesota
Programming of naive CD8 T cells to develop function and memory
William R. Heath, University of Melbourne
Tissue-resident memory in viral and parasite immunity
Linda S. Wicker, University of Cambridge
From autoimmune disease genetics to immune-based therapies
Charles D. Surh, Academy of Immunology and Microbiology, Institute for Basic Science, Pohang, Korea
Regulation of immune homeostasis to commensal bacterial and dietary antigens
When I first learned that my colleagues had honored me with the privilege of representing them on AAI Council and that one day I would become president of AAI, I thought about how lucky I was to have gone into research. Of course, luck played a part in my being accorded this honor, but a larger part was due to the patience of my mentors and the hard work and talent of the trainees I have had the privilege to mentor. And then there are the colleagues with whom I have collaborated over the years, each of whom greatly enriched the scope of my research, and, importantly, whom I treasure as dear friends.

This year’s President’s Symposium takes a slightly different direction from most. Rather than focusing on a single topic, I have focused on the research of several highly accomplished immunologists who also happen to have been my highly valued collaborators. If there is a scientific link in their research, it is that at some point in their careers, our research intersected. These are my close collaborators and friends—or, as I call them, my “partners in crime.” I apologize for such self-indulgence, but I considered this opportunity to bring together, in one session, colleagues whom I greatly admire and respect to be one of the great privileges associated with my tenure as president of AAI!

Matthew F. Mescher. When I went to Harvard Medical School to work as a postdoctoral fellow with Steve Burakoff and Baruj Benacerraf, I selected a project that was at the very heart of T cell biology and a great mystery at that time, the molecular basis for TCR recognition. We knew the MHC was important, but there was great debate about whether other molecules contributed as well. Matthew Mescher was a newly minted assistant professor who had come from Strominger’s lab and wanted to address this question by purifying MHC molecules. Together, we demonstrated that MHC molecules contained all the information required for induction of a secondary response by alloantigen-specific cytolytic T lymphocytes. Of course other information is required for naive T cell activation, such as costimulation as demonstrated by our past AAI president Marc Jenkins. Matt Mescher has been at the forefront of demonstrating the important role of yet a third signal, inflammatory cytokines, which we will hear about in this symposium.

William R. Heath. Years later at The Scripps Research Institute (TSRI), Bill Heath and I further demonstrated that allogeneic MHC molecules contained peptides that were also required for TCR recognition. Bill, who was a postdoctoral fellow at the time, then went on to a highly successful career in cellular immunology. Recently, he and his long-term collaborator Frank Carbone have turned their attention to the importance of tissue-resident T cells in defense against pathogens, a field they have helped to pioneer.

Linda S. Wicker. I first met Linda Wicker at a conference on diabetes when I talked about a new model my lab had developed for looking at the activation of islet antigen-specific CD8 T cells in draining lymph nodes of diabetes-prone NOD mice. Linda wrote the book on the genetic basis of the development of diabetes in NOD mice and wondered whether our model could be used to dissect the cellular consequences of the genetic polymorphisms that contributed to disease. This led to some of the most stimulating scientific conversations I have ever had and to a long-term collaboration. Her work on the genetics of type 1 diabetes and the immunological consequences in mice and humans has led to numerous breakthroughs in the field and, now, to an immunotherapeutic approach to the disease that we will hear about in this symposium.

Charles D. Surh. Charlie Surh started as a postdoctoral fellow at TSRI with Jon Sprent and advanced through the ranks to become professor. Their talent and ingenuity in the areas of thymic development, tolerance, and homeostasis is legendary. Recently, Charlie’s research on homeostasis led him to South Korea, where he was provided an opportunity to set up his own institute to study the role of gut antigens in lymphocyte homeostasis and development of the immune system. He has the only mouse colony in the world that has not only germ-free, but also antigen-free mice. This work has provided a window into the fundamental role of antigen in the development of the immune system, a role we will hear about in this symposium.
AAI Distinguished Lecturers

SATURDAY, MAY 9
6:00 PM, THE GREAT HALL

Dennis R. Burton
Scripps Research Institute
Broadly neutralizing antibodies evolved to counter the structure and variability of HIV and provide a basis for vaccine design

SUNDAY, MAY 10
6:00 PM, THE GREAT HALL

Christine A. Biron
Brown University
Fuzzy borders in innate and adaptive immunity: experience conditions NK and CD8 T cell responses during viral infection

MONDAY, MAY 11
6:00 PM, THE GREAT HALL

Albert S. Bendelac
University of Chicago
Innate and innate-like lymphocytes

2015 FASEB Excellence in Science Award Presentation and Lecture
Sponsored by the Federation of American Societies for Experimental Biology (FASEB)

MONDAY, MAY 11 - 10:15 AM – 11:15 AM
Room 208-209

Chair:
Virginia Shapiro, Mayo Clinic; AAI Committee on the Status of Women Chair

Co-chair:
Margaret K. Offermann, Immediate Past President, FASEB

Award Recipient:
Diane E. Griffin, Johns Hopkins Bloomberg School of Public Health
The immune response and clearance of acute viral infections
The FASEB Excellence in Science Award is given in recognition of outstanding achievement by women in biological science. Recipients have furthered progress in a particular discipline through excellence in research.

AAI Business Meeting & Awards Presentations

SATURDAY, MAY 9, 1:00 PM - 2:30 PM

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 Editor-in-Chief of The Journal of Immunology (The JI), and the Chair of the Committee on Public Affairs on the financial standing of AAI, the status of The JI, important public policy issues, and other items of interest for the membership. Special 2015 AAI awards will also be presented during this session.

AAI Distinguished Service Award Presentation

SATURDAY, MAY 9, 1:00 PM

Elizabeth J. Kovacs, Loyola University Chicago Stritch School of Medicine
For outstanding service to AAI and the immunology community as member and Chair of the AAI Committee on Public Affairs, 2007–2014

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, including underrepresented scientists and trainees. Travel award and grant presentations and acknowledgments will include:

Presentations
- AAI-Thermo Fisher Trainee Achievement Awards
- Chambers-eBioscience Memorial Award
- Lefrançois-BioLegend Memorial Award
- Lustgarten-eBioscience Memorial Award
- Pfizer-Showell Travel Award

Acknowledgments
- AAI Early Career Faculty Travel Grants
  Supported in part by BD Biosciences
- AAI Laboratory Travel Grants
  Supported in part by BD Biosciences
- AAI Underrepresented Scientist Travel Awards
  Sponsored by FASEB MARC Program under a grant from NIGMS, NIH [FASEB MARC Program: T36-GM08059-32]
- AAI Undergraduate Faculty Travel Grants
- AAI Trainee Abstract Awards
  Supported in part by BD Biosciences
- AAI Trainee Poster Awards

AAI 2015 FASEB Excellence in Science Award Presentation and Lecture
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The immune response and clearance of acute viral infections
The FASEB Excellence in Science Award is given in recognition of outstanding achievement by women in biological science. Recipients have furthered progress in a particular discipline through excellence in research.
Join us for the

IMMUNOLOGY 2015™
Opening Night Welcome Reception

Great Hall Lobby – Ernest N. Morial Convention Center • Friday, May 8, 2015 • 6:00 PM – 8:00 PM

At the close of the President’s Address, follow the parade into the Great Hall Lobby to sample the many flavors of New Orleans cuisine, catch up with old friends, mingle with revelers “borrowed” from Mardi Gras—and try the Cajun two-step to the celebrated Dwayne Dopsie & Zydeco Hellraisers band.

Open to all IMMUNOLOGY 2015™ attendees. Meeting badge required for entry. Attendees must be at least 21 years of age.
AAI Lifetime Achievement Award Presentation
FRIDAY, MAY 8, 5:00 PM
The Great Hall
Chair: Linda A. Sherman, Scripps Research Institute, AAI President

Award Recipient: Jonathan Sprent, Garvan Institute of Medical Research
AAI President Linda A. Sherman 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 career of scientific achievement and for contributions to AAI and fellow immunologists.

AAI-Steinman Award for Human Immunology Research Presentation and Lecture
SUNDAY, MAY 10, 4:30 PM – 5:30 PM
The Great Hall
Chair: Linda A. Sherman, Scripps Research Institute, AAI President

Award Recipient: Mary Ellen Conley, Rockefeller University
Patients with defects in B cell development

AAI President Linda A. Sherman will introduce the awardee and present the award immediately prior to Dr. Conley’s lecture.

The AAI-Steinman Award for Human Immunology Research, named in honor of Ralph Steinman, recognizes an individual who has made significant contributions to the understanding of immune processes underlying human disease pathogenesis, prevention, or therapy.

AAI Excellence in Mentoring Award Presentation
MONDAY, MAY 11, 12:30 PM
The Great Hall
Chair: Linda A. Sherman, Scripps Research Institute, AAI President

Award Recipient: Rafi Ahmed, Emory University School of Medicine
AAI President Linda A. Sherman 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-Thermo Fisher Meritorious Career Award Presentation and Lecture
Generously supported by Thermo Fisher Scientific
MONDAY, MAY 11, 4:30 PM – 5:30 PM
The Great Hall
Chair: Linda A. Sherman, Scripps Research Institute, AAI President

Award Recipient: Ronald N. Germain, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Developing a quantitative spatiotemporal understanding of immunity using imaging and systems biology

AAI President Linda A. Sherman and a representative of Thermo Fisher Scientific will introduce the awardee and present the award immediately prior to Dr. Germain’s lecture.

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

AAI-BD Biosciences Investigator Award Presentation and Lecture
Generously supported by BD Biosciences
SATURDAY, MAY 9, 4:30 PM – 5:30 PM
The Great Hall
Chair: Linda A. Sherman, Scripps Research Institute, AAI President

Award Recipient: Thirumala-Devi Kanneganti, St. Jude Children’s Research Hospital
Regulators of inflammatory responses

AAI President Linda A. Sherman and BD Biosciences Vice President of Market Development Robert Balderas will introduce the awardee and present the award immediately prior to Dr. Kanneganti’s lecture.

The AAI-BD Biosciences Investigator Award recognizes an early-career investigator who has made outstanding contributions to the field of immunology.

AAI-BioLegend Herzenberg Award Presentation
Generously supported by BioLegend
SATURDAY, MAY 9, 6:00 PM
The Great Hall
Chair: Linda A. Sherman, Scripps Research Institute, AAI President

Award Recipient: Matthew D. Scharff, Albert Einstein College of Medicine
AAI President Linda A. Sherman and Leonore A. Herzenberg, Professor (Research) of Genetics, Stanford School of Medicine, will introduce the awardee and present the award prior to the start of Saturday’s Distinguished Lecture.

The AAI-BioLegend Herzenberg Award, named in honor of Leonard Herzenberg, recognizes outstanding research contributions to the field of immunology in the area of B cell biology.
SATURDAY, MAY 9, 8:00 AM – 11:30 AM

Major Symposium A: Realizing the Potential of Cancer Immunotherapy

Chairs:
- Jedd D. Wolchok, Memorial Sloan Kettering Cancer Center
- Padmanee Sharma, University of Texas MD Anderson Cancer Center

Speakers:
- Jedd D. Wolchok, Memorial Sloan Kettering Cancer Center
  Combined checkpoint blockade
- Padmanee Sharma, University of Texas MD Anderson Cancer Center
  Immunee checkpoint therapies: clinical success and next steps
- Holbrook Kohrt, Stanford Cancer Institute
  Combination monoclonal antibody therapy: dual tumor and immune targeting
- Suzanne L. Topalian, Johns Hopkins University School of Medicine
  PD-1 pathway blockade in cancer therapy; new frontiers
- Pramod K. Srivastava, University of Connecticut School of Medicine
  What does a host-protective tumor-specific neo-antigen look like?
- Steven A. Rosenberg, NCI, NIH
  The curative potential of T cell transfer immunotherapy for human cancer

SUNDAY, MAY 10, 8:00 AM – 11:30 AM

Major Symposium B: The Microbiota in Immunity and Inflammation

Chairs:
- Wendy S. Garrett, Harvard School of Public Health
- Yasmine Belkaid, NIAID, NIH

Speakers:
- Yasmine Belkaid, NIAID, NIH
  From mutualism to parasitism: context and consequences
- Wendy S. Garrett, Harvard School of Public Health
  The gut microbiome in colitis and colorectal cancer
- Eric G. Pamer, Memorial Sloan Kettering Cancer Center
  Microbiota-mediated defense against intestinal infections
- Ami S. Bhatt, Stanford University
  Exploring the composition of the human superorganism: the microbiome in an immunocompromised host
- Bana Jabri, University of Chicago
  Harnessing the interplay between commensals and pathogens in septic shock
- Thaddeus S. Stappenbeck, Washington University School of Medicine
  Commensal-host interactions in the intestine and their relationship to disease pathogenesis

Major Symposium C: Looking Within: Mechanisms of Cytosolic Immune Surveillance

Chairs:
- Russell E. Vance, HHMI, University of California, Berkeley
- Zhijian ‘James’ Chen, HHMI, University of Texas Southwestern Medical Center

Speakers:
- Russell E. Vance, HHMI, University of California, Berkeley
  Mechanisms and consequences of inflammasome activation
- Michaela U. Gack, Harvard Medical School
  RIG-I-like receptor regulation in virus infection and immunity
- Edward A. Miao, University of North Carolina at Chapel Hill
  Inflammasomes in host defense
- Sunny Shin, University of Pennsylvania Perelman School of Medicine
  Overcoming pathogen-encoded virulence activities to initiate innate immune defense
- Zhijian ‘James’ Chen, HHMI, University of Texas Southwestern Medical Center
  Innate immune sensing and signaling of cytosolic DNA
- Thomas E. Gajewski, University of Chicago
  Innate immune sensing of tumors via the host STING pathway

Major Symposium D: Lymphatics and Stroma: Key Players in the Specialized Lymphoid Organ Niche

Chairs:
- Gwendalyn J. Randolph, Washington University School of Medicine
- Shannon J. Turley, Genentech

Speakers:
- Gwendalyn J. Randolph, Washington University School of Medicine
  Lymphatics in inflammatory disease
- Laura Santambrogio, Albert Einstein College of Medicine
  Lymph formation, circulation, and immunological role
- Reinhold Förster, Hannover Medical School
  Lymph node homing of immune cells via afferent lymphatics
- Troy D. Randall, University of Alabama at Birmingham
  Paradoxical role of the omentum in immunity to peritoneal tumors
- Shannon J. Turley, Genentech
  Regulation of leukocyte function and territoriality by fibroblastic reticular cells
- Biju Parekkadan, Harvard Medical School
  Lymph node cell therapy
MONDAY, MAY 11, 8:00 AM – 11:30 AM

**Major Symposium E: Roots and Mechanisms of Human Autoimmunity**

**Chairs:**
Eric Meffre, Yale University
Jane Hoyt Buckner, Benaroya Research Institute at Virginia Mason

**Speakers:**
Eric Meffre, Yale University
Defects in early B cell tolerance checkpoints are common to autoimmune diseases
Jane Hoyt Buckner, Benaroya Research Institute at Virginia Mason
Mapping the immune pathways that drive T1D development
Megan Sykes, Columbia University
New approaches to understanding human allo- and autoimmune responses
Erik J. Peterson, University of Minnesota
PTPN22 promotes interferogenic signaling in myeloid cells
Edward K. Wakeland, University of Texas Southwestern Medical Center
A genomic analysis of systemic autoimmunity
Judith A. James, Oklahoma Medical Research Foundation, University of Oklahoma Health Sciences Center
Roles for impaired immune regulation in transition from preclinical autoimmunity to clinical lupus

**Major Symposium F: Networking through Mobile Cells and Synaptic Interfaces**

**Chairs:**
Michael L. Dustin, University of Oxford
Janis K. Burkhardt, Children’s Hospital of Philadelphia and University of Pennsylvania

**Speakers:**
Michael L. Dustin, University of Oxford
Novel signals in the immunological synapse
Janis K. Burkhardt, Children’s Hospital of Philadelphia and University of Pennsylvania
Cytoskeletal control of integrin activation at the immunological synapse
Morgan Huse, Memorial Sloan Kettering Cancer Center
Lipid-based patterning of the immunological synapse
Clotilde Théry, INSERM U932/Institut Curie
Exosomes and other extracellular vesicles in communication between tumors and the immune system
Anna Huttenlocher, University of Wisconsin
Imaging inflammation: implications to human disease
Thorsten R. Mempel, Massachusetts General Hospital/ Harvard Medical School
Immune cell communication in the tumor environment

TUESDAY, MAY 12, 8:00 AM – 11:30 AM

**Major Symposium G: Regulating Immunity: Tregs and Beyond**

**Chairs:**
Steven F. Ziegler, Benaroya Research Institute at Virginia Mason
Claudia Mauri, University College London

**Speakers:**
Andrea Cerutti, Mount Sinai School of Medicine
IgD: an ancestral regulator of Th2 immune responses
Claudia Mauri, University College London
Microbiota, regulatory B cells, and arthritis: insight into a new mechanism of regulation
Jennifer L. Gommerman, University of Toronto
Befuddled B cells and EAE pathogenesis
Mitchell Kronenberg, La Jolla Institute for Allergy & Immunology
Natural killer T cells: one specificity, but different functions
Liang Zhou, Northwestern University
Regulation of Tregs in the mucosal tissues
Steven F. Ziegler, Benaroya Research Institute at Virginia Mason
Development and function of regulatory T cells

**Major Symposium H: Mechanisms of Host Immunity: Insights from Eukaryotic Pathogens**

**Chairs:**
William C. Gause, New Jersey Medical School, Rutgers, The State University of New Jersey
De’Broski R. Herbert, University of California, San Francisco

**Speakers:**
De’Broski R. Herbert, University of California, San Francisco
The helminthic harangue on immunity and repair
Amariliz Rivera, New Jersey Medical School, Rutgers, The State University of New Jersey
Inflammatory monocytes orchestrate innate antifungal immunity in the lung
William C. Gause, New Jersey Medical School, Rutgers, The State University of New Jersey
Helminths, wound healing, and worm expulsion
Padraic Fallon, Trinity College Dublin
Helminth activation of innate and adaptive immunity to achieve chronic infections
P’ng Loke, New York University School of Medicine
Alternatively activated macrophages derived from monocytes and tissue-resident macrophages during helminth infections
Edward J. Pearce, Washington University School of Medicine
The metabolic regulation of alternative macrophage activation
AAI COMMITTEE – SPONSORED SESSIONS

AAI CLINICAL IMMUNOLOGY COMMITTEE

Translational Research Towards Awakening the Immune System in Human Disease
MONDAY, MAY 11, 3:45 PM – 5:45 PM

Chairs:
Robert L. Modlin, University of California, Los Angeles
AAI Clinical Immunology Committee Chair
Angela Colmone, Science Translational Medicine, AAAS

Speakers:
Alan Sher, NIAID, NIH
A host-directed therapy for TB infection that targets innate cytokines
Hana Golding, CBER, FDA
Novel methods for measuring antibody affinity, epitope diversity, and cross-reactivity in human vaccine trials
Drew M. Pardoll, Johns Hopkins School of Medicine
Therapeutic manipulation of the microenvironment of cancer
Jeffrey A. Bluestone, University of California, San Francisco
Rebalancing the immune system through Treg biology
Angela Colmone, Science Translational Medicine, AAAS
Translational immunology research: into the future

Advances in translational immunology research have led to new approaches to awaken the immune system in the battle against infection, cancer, and autoimmune disease. This session will include discussion of present approaches and future directions that will be valuable to immunologists interested in translational research.

AAI COMMITTEE ON PUBLIC AFFAIRS

Funding for Immunology Research: Non-Federal Opportunities and NIAID Program Update
SUNDAY, MAY 10, 10:15 AM – 12:15 PM

Chair:
Clifford V. Harding, Case Western Reserve University
AAI Committee on Public Affairs Chair

Speakers:
William Chambers, National Vice President, Extramural Research, American Cancer Society
The role of charitable and patient advocacy organizations in funding biomedical research
Gwen Nguyen, Cause Director, Indiegogo
How crowdfunding can support biomedical research

Session description continues in column 2

Daniel Rotrosen, Director, Division of Allergy, Immunology and Transplantation, NIAID
Recent trends in NIAID-funded, investigator-initiated immunology research

Bruce Walker, Director, Ragon Institute of MGH, MIT and Harvard; Professor, Harvard University; and Investigator, Howard Hughes Medical Institute
The role of philanthropy in supporting biomedical research

NIH has long been one of the major sources of funding for immunologists and other biomedical researchers. In recent years, funding constraints have lowered NIH paylines and reduced success rates, jeopardizing the research and careers of many productive and successful scientists. This session will explore some of the alternatives to NIH funding, including patient advocacy organizations, philanthropists, and crowdfunding. In addition, the session will include an update on immunology research supported by the National Institute of Allergy and Infectious Diseases. Attendees will have ample opportunity to ask questions.

AAI EDUCATION COMMITTEE

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

Chair:
Nandita Bose, Biothera

Panelists:
Jason Fontenot, Principal Scientist, Immunology, Biogen Idec
Brian Johnson, Director, Market Development & Product Management, Thermo Fisher Scientific
Andy I. Kokaji, Senior Scientist, STEMCELL Technologies, Inc.
Isharat Yusuf, Research Investigator II, Genomics Institute of the Novartis Research Foundation

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.
AAI COMMITTEE – SPONSORED SESSIONS

AAI EDUCATION COMMITTEE &
AAI COMMITTEE ON THE STATUS OF WOMEN

Careers in Science Roundtable
SATURDAY, MAY 9, 11:30 AM – 1:00 PM

Chair:
Virginia Shapiro, Mayo Clinic; AAI Committee on the Status of Women Chair

At this always popular session, you’ll have the opportunity to meet with scientists at your own career stage and with more experienced scientists to explore specific career issues important to men and women in science today. Learn what others are thinking and gain insights into issues you are confronting in your own situation. Recently added topics offer insights into NIH study sections and considerations for scientists in M.D.-Ph.D. careers. Choose from these and the other vital topics related to the environment you work in (academic research, biotech industry, governmental agencies, non-profits), the transitions between specific career stages, or issues in balancing career and family in any career path. Don’t miss this great networking opportunity!

Registration Fee: $20 (Lunch included)

Discussion topics and table leaders:

Research Careers in Academia
- Graduate Student to Postdoc: finding a postdoc, interviewing
  Table Leaders: Louise M. D’Cruz, University of Pittsburgh
  Michelle A. Parent, University of Delaware
  Gwendalyn J. Randolph, Washington University School of Medicine
- Postdoc to PI: finding a position, interviewing, negotiating, lab start-up
  Table Leaders: Deborah M. Brown, University of Nebraska, Lincoln;
  Lisa H. Butterfield, University of Pittsburgh
  Lauren A. Zenevics, University of Oklahoma Health Sciences Center
- New PI: attracting students and postdocs, preparing for tenure
  Table Leaders: Emma H. Wilson, University of California, Riverside
- Undergraduate Institutions: finding the balance in teaching, doing research
  Table Leaders: Laurie P. Shornick, St. Louis University
- Mentoring Effectively
  Table Leaders: Elizabeth E. Brown, University of Alabama, Birmingham;
  Federica Sallusto, Institute for Research in Biomedicine, Bellinzona, Switzerland

How to Build a Network
Table Leaders: Gail A. Bishop, University of Iowa
Dawn Jelley-Gibbs, Taconic Bioscience
Madeleine W. Cunningham, University of Oklahoma Health Sciences Center

Attendees networking during careers roundtable break

The Two Body Problem: dual career couples
Table Leaders: Susan Kovats, Oklahoma Medical Research Foundation;
Sunny Shin, University of Pennsylvania School of Medicine

Balancing Parenthood and Career
Table Leaders: Shabaana Khader, Washington University School of Medicine;
Carolina Lopez, University of Pennsylvania School of Veterinary Medicine

Careers in Biotech and Industry: moving from academia to industry and vice versa
Table Leaders: Renold Capocasale, Flowmetric, Inc
Pooja Jain, Drexel University College of Medicine

Careers at Governmental Agencies (FDA/NIH/USDA/CDC)
Table Leaders: Yasmine Belkaid, NIAID, NIH
Avinash Bhandoola, NCI, NIH

NIH Study Section Insights
Table Leaders: Scheherazade Sadegh-Nasseri, Johns Hopkins Medical Institute;
Virginia S. Shapiro, Mayo Clinic

Negotiating an Academic Position
Table Leaders: Sarah L. Gaffen, University of Pittsburgh
Paula M. Lutz, University of Wyoming

The Physician Scientist: balancing clinical and research duties
Table Leaders: David D. Chaplin, University of Alabama, Birmingham;
Jonathan Maltzman, University of Pennsylvania;
Penelope A. Morel, University of Pittsburgh

Negotiating from the M.D., Ph.D. Perspective
Table Leaders: Robin G. Lorenz, University of Alabama, Birmingham;
Wayne M. Yokoyama, Washington University School of Medicine

Non-Research Careers for Scientists: careers in scientific journals, program administration, non-profits, industry
Table Leaders: Peggy Just, ebioscience, an Affymetrix Company;
Jennifer H. Meyers, The American Association of Immunologists and The Journal of Immunology
Kristen Porter, NIAID, NIH
CAREERS ROUNDTABLE AND SPEED NETWORKING SESSION

SATURDAY, MAY 9, 11:45 AM – 2:15 PM

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-GM08059-32]

Chair:
Cherié L. Butts, Biogen Idec; 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 and personalized feedback on communicating your scientific interests/objectives most effectively.

Registration Fee: $20
(Includes lunch; coffee/cookies during networking hour)

Discussion topics and table leaders:
Grad Student: finding a mentor; taking aim at postdoc training
Table Leaders: Eduardo Davila, University of Maryland Greenebaum Cancer Center; Santiago Partida-Sanchez, Nationwide Children’s Hospital; Tonya Webb, University of Maryland School of Medicine

Postdoc: finding a mentor; taking aim at a faculty position
Table Leaders: Robert J. Binder, University of Pittsburgh; De’Broski R. Herbert, University of California, San Francisco; Joseph Larkin, University of Florida

Junior Faculty: preparing for promotion and tenure
Table Leaders: Avery August, Cornell University College of Veterinary Medicine; Arturo Casadevall, Albert Einstein College of Medicine; Prosper Boyaka, Ohio State University

Academia or Industry: how to decide (or switch sides)
Table Leaders: Jonathan A. Deane, GNF/Novartis; Karel Otero Gutierrez, Biogen Idec

Government Agency Careers: CDC, FDA, NIH
Table Leaders: Marta Catalafamo, NIAID, NIH; Charles Egwuagu, NEI, NIH; Alison Mawle, Centers for Disease Control and Prevention

Non-Research Careers (e.g., entrepreneurship, law/policy)
Table Leaders: James W. Lillard, Morehouse School of Medicine and JYANT Technologies, Inc. (President/CEO); Jaconda Wagner, Wagner Law LLC (intellectual property attorney)

AAI Vanguard Lecture

MONDAY, MAY 11, 11:30 AM – 12:30 PM

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-GM08059-32]

Chair:
Cherié L. Butts, Biogen Idec; AAI Minority Affairs Committee Chair

Speaker:
Gabriel Núñez, University of Michigan

Linking pathogen virulence, immunity, and the microbiota

Since 2003, the AAI meeting has featured a scientific lecture presented by an AAI member who is an underrepresented minority investigator. Selected for their achievements in the field of immunology, presenters are among the most prominent investigators in the field and models of successful career development.

AAI PROGRAM COMMITTEE

AAI PROGRAM COMMITTEE WORKSHOP: BACK TO SCHOOL:
A REVIEW OF FOUR FAST-MOVING FIELDS

FRIDAY, MAY 8, 2:30 PM – 4:30 PM

Chairs:
Wendy L. Havran, Scripps Research Institute; AAI Program Committee Chair
Maria-Luisa Alegre, University of Chicago

Speakers:
Jian Han, HudsonAlpha Institute for Biotechnology

NextGen sequencing of immune repertoire: technology, applications, and challenges

Russell G. Jones, McGill University

Metabolomics in immunity

Melody A. Swartz, University of Chicago

Immunoregulatory roles of lymphatic endothelium and their transport functions

Kevin J. Tracey, The Feinstein Institute for Medical Research

Evolutionary integration of neural and immune pathogen sensing and response

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**

**Publishing Scientific Articles: Advice and Admonition**

SUNDAY, MAY 10, 12:30 PM – 2:00 PM

Chairs:
Eugene M. Oltz, Washington University School of Medicine
AAI Publications Committee Chair
Pamela J. Fink, University of Washington School of Medicine
Editor-in-Chief, The Journal of Immunology

Speakers:
Eugene M. Oltz, Washington University School of Medicine
*Composing a masterpiece: make your data sing*

Robert L. Fairchild, Cleveland Clinic
*My most excellent paper was returned with serious reviewer issues: what do I do now?*

Pamela J. Fink, University of Washington School of Medicine
*How to stay on the right side of the ethics divide*

In this session, experienced editors will provide valuable insights in understanding the process 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**

**AAI Veterinary Immunology Committee & American Association of Veterinary Immunologists (AAVI) Joint Symposium—Vaccines for the Modern Era: Implications for Human and Animal Health II**

SATURDAY, MAY 9, 12:30 PM – 2:30 PM

Chairs:
Laurel J. Gershwin, University of California, Davis; AAI Veterinary Immunology Committee Chair
Crystal Loving, National Animal Disease Center, ARS, USDA
American Association of Veterinary Immunologists President

Speakers:
W. Ray Waters, National Animal Disease Center, ARS, USDA
*Vaccine approaches for bovine tuberculosis: correlates of protection and relevance to human tuberculosis*

Volker Gerdts, Vaccine and Infectious Disease Organization-InterVac, University of Saskatchewan
*Large animal models for human vaccine research: pertussis, RSV, and others*

Barney S. Graham, Vaccine Research Center, NIAID, NIH
*Structure-guided development of an RSV vaccine*

Crystal Loving, National Animal Disease Center, ARS, USDA
*Provocation versus protection: immune responses and differential outcomes following influenza virus vaccination and challenge in pigs*

This symposium will feature topics on both human and veterinary vaccines, with emphasis on new technologies and new information for more appropriate targeting of the immune response to achieve protective immunity. Advances in understanding immune responses to veterinary and human pathogens and applications of that information to vaccine design illustrate a commonality that supports the current “one health” concept in medicine.
NIH INSTITUTE-SPONSORED SYMPOSIA

National Cancer Institute (NCI) and Radiation Research Society (RRS) Symposium: Symbiosis of Radiation and Immunology: Basic and Translational Impact
MONDAY, MAY 11, 8:00 AM – 10:00 AM

Chairs:
Mansoor Ahmed, NCI, NIH
Chandan Guha, Albert Einstein College of Medicine

Speakers:
Mansoor Ahmed, NCI, NIH
Opening/meeting interaction
Gayle E. Woloschak, Northwestern University
Introduction: Information on Radiation Research Society (RRS)
Ralph R. Weichselbaum, University of Chicago Medicine
Basic radiation biology: fatal attraction for immunologists
Yang-Xin Fu, University of Chicago
Immunologist's experiences of collaborating with the field of radiation biology
Chandan Guha, Albert Einstein College of Medicine
Opportunities for immunology in clinical radiotherapy
Lisa M. Coussens, Oregon Health & Science University
Tumor immune microenvironment

National Institute of Allergy and Infectious Diseases (NIAID) Symposium: Hitting the Mother Lode: Mining the Data Fields
SATURDAY, MAY 9, 12:30 PM – 2:30 PM

Chairs:
Alison Deckhut Augustine, NIAID, NIH
Ashley Xia, NIAID, NIH

Speakers:
Atul J. Butte, Stanford University
Translating a trillion points of data into therapies, diagnostics, and new insights into disease
Steven H. Kleinstein, Yale University
The transcriptional response to influenza infection and vaccination
Anjana Rao, La Jolla Institute for Allergy and Immunology
Genomics approaches to understanding immune function
Martin S. Zand, University of Rochester
Start making sense: visualization and modeling of high-dimensional data

National Institute of Allergy and Infectious Diseases (NIAID) Workshop: Inflammation as an Immunological Determinant of HIV Transmission
SUNDAY, MAY 10, 12:30 PM – 2:30 PM

Organizers:
Anjali Singh, NIAID, NIH
Alan Schultz, NIAID, NIH

Chairs:
Jonathan A. Harton, Albany Medical Center
Jim A. Turpin, NIAID, NIH

Panelists:
Michael R. Betts, University of Pennsylvania
Daniel C. Douek, NIAID, NIH
Mimi Ghosh, George Washington University
Ashley T. Haase, University of Minnesota
Eric Hunter, Emory University
David Masopust, University of Minnesota
Christopher J. Miller, University of California, Davis
Kristen A. Porter, NIAID, NIH
Barbara L. Shacklett, University of California, Davis

The objective of this panel discussion is to probe the relationship between inflammation and susceptibility to HIV infection and to identify novel avenues for HIV prevention, targeting mucosal microenvironment inflammation to limit HIV target cell availability. The panel will highlight recent findings and research gaps to address the key questions and challenges.
National Institute on Aging (NIA) Symposium: 
Rejuvenating the Aged Immune System: New Directions for Targeting Interventions 
SATURDAY, MAY 9, 3:45 PM – 5:45 PM 
Chairs: 
Janko Nikolich-Zugich, University of Arizona College of Medicine 
Rebecca A. Fuldner, NIA, NIH 
Speakers: 
Nancy R. Manley, University of Georgia 
Too much is not enough: Foxn1 and the maintenance of the postnatal thymus 
Jorg J. Goronzy, Stanford University 
mRNA regulation of T cell responses in older individuals 
Janko Nikolich-Zugich, University of Arizona College of Medicine 
Age-related changes in metabolic programming and trafficking of T cells: lessons from parabiosis 
Donna M. Murasko, Drexel University 
Enhanced IgG response to influenza vaccine in aged mice with a novel adjuvant, rOv-ASP-1 

National Institute of Environmental Health Sciences (NIEHS) Symposium: Developmental Exposures and Their Effects on Immune System Function 
SUNDAY, MAY 10, 12:30 PM – 2:30 PM 
Chairs: 
Michael C. Humble, NIEHS, NIH 
B. Paige Lawrence, University of Rochester 
Speakers: 
John B. Barnett, West Virginia University 
Long-term changes in the immune system due to prenatal cadmium exposure 
B. Paige Lawrence, University of Rochester 
The environmental legacy of pollutants: linking developmental exposures to perturbations in antiviral immune responses 
Kari C. Nadeau, Stanford University 
Mechanistic approaches to epigenetics and toxicant exposures 
Judith T. Zelikoff, New York University School of Medicine 
Maternal inhalation of ambient particulate matter causes alterations in immune profiles and anti-tumor mechanisms in juvenile murine offspring 

American Association of Veterinary Immunologists (AAVI) & AAI Veterinary Immunology Committee Joint Symposium: 
Vaccines for the Modern Era: Implications for Human and Animal Health II 
SATURDAY, MAY 9, 12:30 PM – 2:30 PM 
Chairs: 
Laurel J. Gershwin, University of California, Davis 
Crystal Loving, National Animal Disease Center, ARS, USDA 
Speakers: 
W. Ray Waters, National Animal Disease Center, ARS, USDA 
Vaccine approaches for bovine tuberculosis: correlates of protection and relevance to human tuberculosis 
Volker Gerdt, Vaccine and Infectious Disease Organization-InterVac, University of Saskatchewan 
Large animal models for human vaccine research: pertussis, RSV, and others 
Barney S. Graham, Vaccine Research Center, NIAID, NIH 
Structure-guided development of an RSV vaccine 
Crystal Loving, National Animal Disease Center, ARS, USDA 
Provocation versus protection: immune responses and differential outcomes following influenza virus vaccination and challenge in pigs 

American Society for Reproductive Immunology (ASRI) Symposium: Innate Immunity in Pregnancy 
SATURDAY, MAY 9, 10:15 AM – 12:15 PM 
Chairs: 
Vikki M. Abrahams, Yale School of Medicine 
Mukesh K. Jaiswal, Rosalind Franklin University of Medicine and Science 
Speakers: 
Emmet Hirsch, NorthShore University Health System 
Autophagy in preterm labor 
Vikki M. Abrahams, Yale School of Medicine 
Mechanisms of placental inflammation in obstetric antiphospholipid syndrome 
Mukesh K. Jaiswal, Rosalind Franklin University of Medicine and Science 
IL-22 prevents lipopolysaccharide-induced preterm labor in mice 
Gil Mor, Yale School of Medicine 
Role of placenta type I interferon on polymicrobial infection-induced preterm birth
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*Lagniappe: a Creole expression pronounced [lay-nee-ap] and meaning “a little something extra”
American Society of Transplantation (AST) Symposium: T Cell Trafficking during Alloimmunity and Tolerance
SATURDAY, MAY 9, 12:30 PM – 2:30 PM
Chairs:
Mandy L. Ford, Emory University
Maria-Luisa Alegre, University of Chicago
Speakers:
Donna L. Farber, Columbia University Medical Center
Tissue-resident human memory T cells in transplantation and immunity
Kimberly D. Klonowski, University of Georgia
IL-15-mediated control of memory T cell glycosylation and trafficking
Daniel Kreisel, Washington University School of Medicine
Tolerogenic role of central memory T cells in lung transplantation
Bryna Burrell, Immune Tolerance Network
Laminins affect T cell trafficking and allograft fate

Canadian Society for Immunology (CSI) Symposium: T Lymphocyte Regulation and Differentiation during Infection
MONDAY, MAY 11, 8:00 AM – 10:00 AM
Chairs:
Irah L. King, McGill University
Jude E. Uzonna, University of Manitoba
Speakers:
Jun Wang, Dalhousie University
Diverse immune mechanisms for shaping anti-Chlamydia CD4 T cell responses
Simona Stäger, INRS-Institut Armand Frappier
The role of inflammation in regulating the development of T cell responses during leishmaniasis
Irah L. King, McGill University
The role of integrins in T follicular helper cell maintenance following helminth infection
S. M. Mansour Haeryfar, University of Western Ontario
Invariant T cell responses to bacterial superantigens
Jude E. Uzonna, University of Manitoba
MHC class II-restricted innate-like double negative T cells display memory characteristics and contribute to optimal anti-Leishmania immunity

Chinese Society of Immunology (ChSI) Symposium: Differentiation and Regulation of Lymphocytes
SATURDAY, MAY 9, 8:00 AM – 10:00 AM
Chairs:
Zhigang Tian, University of Science and Technology of China
Olivera J. Finn, University of Pittsburgh School of Medicine
Speakers:
Zhigang Tian, University of Science and Technology of China
Development and differentiation of liver-resident NK cells
Bing Sun, Institute Pasteur of Shanghai, Chinese Academy of Sciences
Extracellular Matrix Protein 1 plays a critical role in driving Th2 cell migration and controlling Th17 cell differentiation
Liwei Lu, University of Hong Kong
Regulatory B cells in autoimmunity
Hai Qi, Tsinghua University
Follicular T helper cells and germinal center reaction
Zhongjun Dong, Tsinghua University
Metabolic regulation of NK cell development and activation

German Society for Immunology (DGfI) Symposium: Control of Treg/Th17 Differentiation
MONDAY, MAY 11, 3:45 PM – 5:45 PM
Chairs:
Hans-Martin Jäck, University of Erlangen
Dieter Kabelitz, University of Kiel
Carsten Watzl, Leibniz Research Center, Dortmund
Speakers:
Jürgen Wienands, University of Göttingen
Immunology in Germany
Tim Sparwasser, University of Hannover
Metabolic influences that regulate CD4 T cell function
Vigo Heissmeyer, University of Munich
Post-transcriptional control of Th17 differentiation
Petra Hoffmann, University of Regensburg
Impact of Treg cell plasticity on adaptive cell therapies
Jochen Hühn, Helmholtz Society, Braunschweig
Epigenetic control of regulatory T cell development
Michael Lohoff, University of Marburg
The role of interferon regulatory factors for T cell subset differentiation
International Complement Society (ICS) Symposium: Key Roles of Complement in Adaptive Immunity, Pathogen Responses, and Human Disease
SUNDAY, MAY 10, 10:15 AM – 12:15 PM

Chairs:
Andrea J. Tenner, University of California, Irvine
Joshua M. Thurman, University of Colorado School of Medicine

Speakers:
Claudia Kemper, King’s College London
Regulation of T lymphocyte programming by autocrine complement
Brian Geisbrecht, Kansas State University
Utilization of complement evasion strategies by pathogens
Susan Lea, University of Oxford
Illuminating mechanisms of complement-pathogen interactions from structural biology
V. Michael Holers, University of Colorado School of Medicine
Targeting complement and its activation mechanisms: successful interventions in human disease and new strategies going forward

International Cytokine and Interferon Society (ICIS) Symposium: Innate and Adaptive Immune Recognition
SATURDAY, MAY 9, 3:45 PM – 5:45 PM

Chairs:
Richard A. Flavell, HHMI, Yale School of Medicine
Sarah L. Gaffen, University of Pittsburgh

Speakers:
Metabolic reprogramming in innate immunity
Federica Sallusto, Institute for Research in Biomedicine
Polarized T cell responses to pathogens and vaccines
Andrew N. McKenzie, Cambridge Immunology Network
Type-2 innate lymphoid cells at the interface with adaptive immunity
Curt M. Horvath, Northwestern University
Regulation of viral RNA recognition, innate immune signaling, and antiviral gene expression

Japanese Society for Immunology (JSI) Symposium: Development and Function of Immune Cells: Symposium by JSI Awardees
SATURDAY, MAY 9, 12:30 PM – 2:30 PM

Chairs:
Toshinori Nakayama, Chiba University
Ryoji Yagi, Chiba University

Speakers:
Yosuke Kurashima, University of Tokyo
Analysis of a mast cell-suppressive milieu on the body surface for the prevention and treatment of inflammatory diseases
Satoshi Nishimura, Jichi Medical University
Immune cell activation in obese adipose tissue: visualization by two photon microscopy
Yoshiki Omatu, Kyoto University
Molecular mechanism of formation of bone marrow niche for hematopoietic stem/progenitor cells and immune cells
Takashi Satoh, Osaka University
The physiological role and differentiation mechanism of disorder-specific M2 macrophages
Ryoji Yagi, Chiba University
Role of the transcription factor GATA3 in helper T cell and innate lymphoid cell development
Toshinori Nakayama, Chiba University
Pathogenic memory Th2 cells in airway inflammation

Korean Association of Immunologists (KAI) and Association of Korean Immunologists in America (AKIA) Symposium: Cellular and Molecular Factors that Control Immunity
MONDAY, MAY 11, 10:15 AM – 12:15 PM

Chairs:
Booki Min, Cleveland Clinic Foundation
Chong-Kil Lee, Chungbuk National University

Speakers:
Woong-Kyung Suh, Clinical Research Institute of Montreal
Dissection of inducible costimulator (ICOS) signaling components in follicular helper T cell and Th17 responses
Eun Young Choi, Seoul National University
CD8 T cells can generate memory cells without CD4 help when antigen is cleared early enough
Sang-Moo Kang, Georgia State University
Roles of innate and adaptive immune components in inducing protective immune responses to influenza vaccination
Myoung Ho Jang, Institute for Basic Science, Pohang
Eosinophils regulate inflammation in the gut
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GUEST SOCIETY SYMPOSIA

Radiation Research Society (RRS) and National Cancer Institute (NCI) Symposium: Symbiosis of Radiation and Immunology: Basic and Translational Impact
MONDAY, MAY 11, 8:00 AM – 10:00 AM
Chairs:
Mansoor Ahmed, NCI, NIH
Chandan Guha, Albert Einstein College of Medicine
Speakers:
Mansoor Ahmed, NCI, NIH
Opening/meeting interaction
Gayle E. Woloschak, Northwestern University
Introduction: Information on Radiation Research Society (RRS)
Ralph R. Weichselbaum, University of Chicago Medicine
Basic radiation biology: fatal attraction for immunologists
Yang-Xin Fu, University of Chicago
Immunologist’s experiences of collaborating with the field of radiation biology
Chandan Guha, Albert Einstein College of Medicine
Opportunities for immunology in clinical radiotherapy
Lisa M. Coussens, Oregon Health & Science University
Tumor immune microenvironment

Society for Immunotherapy of Cancer (SITC) Symposium: Immune Biomarkers in Cancer
SUNDAY, MAY 10, 8:00 AM – 10:00 AM
Chairs:
Lisa H. Butterfield, University of Pittsburgh
Augusto C. Ochoa, Louisiana State University Health Sciences Center
Speakers:
Augusto C. Ochoa, Louisiana State University Health Sciences Center
Metabolism in the immune response to cancer
Giorgio Trinchieri, NCI, NIH
Omics platforms and systems biology in biomarker identification
Holden T. Maecker, Stanford University Medical Center
High dimensional cellular and proteomic profiling approaches
Lisa H. Butterfield, University of Pittsburgh
Immune biomarkers in clinical trials

Society for Glycobiology (SfG) Symposium: Glycans and Immunity
SUNDAY, MAY 10, 12:30 PM – 2:30 PM
Chairs:
Brian A. Cobb, Case Western Reserve University School of Medicine
James P. Paulson, Scripps Research Institute
Speakers:
Robert M. Anthony, Massachusetts General Hospital
Glycoregulation of immunoglobulins
Charles J. Dimitroff, Brigham and Women’s Hospital
Galectin-1 binding glycans play a pleiotropic role in melanoma development
Eugene C. Butcher, Stanford School of Medicine
Carbohydrate addressins for lymphocyte homing
Paula A. Videira, NOVA Medical School
Immunomodulation of dendritic cells: cracking the role of sialic acid-containing sugars
Vijay K. Kuchroo, Brigham and Women’s Hospital
Tim-3 and Galectin-3: regulators of effector and Treg cells

Society for Leukocyte Biology (SLB) Symposium: Society for Leukocyte Biology: The Next Generation
MONDAY, MAY 11, 10:15 AM – 12:15 PM
Chairs:
Louis B. Justement, University of Alabama at Birmingham
Silvia M. Uriarte, University of Louisville
Speakers:
Joshua J. Obar, Montana State University
Leukotriene and IL-1beta-mediated orchestration of the antifungal leukocyte response to Aspergillus fumigatus
I. Coy Allen, Virginia Polytechnic Institute and State University
Evaluating NLR modulation of canonical and non-canonical NF-kappaB signaling in IBD
Laura M. Sly, University of British Columbia
Harnessing macrophage phenotype for anti-inflammatory therapy
Madhavi J. Rane, University of Louisville
Baclofen, a GABABR agonist, ameliorates immune-complex-mediated acute lung injury by modulating pro-inflammatory mediators
Ilhem Messaoudi Powers, University of California, Riverside
Dose-dependent modulation of immune response to vaccination by alcohol
Silvia M. Uriarte, University of Louisville
Neutrophils and oral pathogens: opposing forces in the dysbiosis battle
Guest Society Symposia

Society of Mucosal Immunology (SMI) Symposium: Unique Lymphocyte Populations at Mucosal Surfaces
SUNDAY, MAY 10, 10:15 AM – 12:15 PM

Chairs:
Timothy L. Denning, Georgia State University
Marielle C. Gold, Oregon Health & Science University

Speakers:
Ivaylo I. Ivanov, Columbia University
Control of mucosal Th17 cell homeostasis
Florence Lambolez, La Jolla Institute for Allergy and Immunology
DN TCRαβ IEL: mix and match MHC reactivities
Richard S. Blumberg, Harvard Medical School
NKT cells orchestrate critical barrier protective functions in mucosal tissues
Marielle C. Gold, Oregon Health & Science University
Human pathogen-reactive MAIT cells

The Obesity Society (TOS) Symposium: Immunometabolism of Aging
SUNDAY, MAY 10, 10:15 AM – 12:15 PM

Chairs:
Barbara S. Nikolajczyk, Boston University School of Medicine
Gerald V. Denis, Boston University School of Medicine

Speakers:
Derek M. Huffman, Albert Einstein College of Medicine
Obesity, aging, and the intestinal stem cell niche
Daniela Frasca, University of Miami
Obesity, aging, and antibody responses
Nathan K. LeBrasseur, Mayo Clinic
Cellular senescence: at the crossroads of aging, obesity, and exercise
Shai Shen-Orr, Technion-Israeli Institute of Technology
Cellular immune response to chronic inflammation
Simin N. Meydani, Tufts University
Caloric restriction and immune function in aging humans

Society for Natural Immunity (SNI) Symposium: Advances in NK Cell Research
SATURDAY, MAY 9, 10:15 AM – 12:15 PM

Chairs:
Christine A. Biron, Brown University
Eric O. Long, NIAID, NIH

Speakers:
Eric O. Long, NIAID, NIH
Negative signaling by NK cell inhibitory receptors
Sungjin Kim, Michigan State University
Antibody-dependent memory-like NK cells
Joseph C. Sun, Memorial Sloan Kettering Cancer Center
Novel role for RAG in NK cells
David K. Finlay, Trinity College Dublin
Metabolic regulation of NK cell responses
Emily M. Mace, Baylor College of Medicine
The structure and function of the NK cell developmental synapse
CAREER DEVELOPMENT SESSIONS

Careers in Science Roundtable
Sponsored by the AAI Education Committee & AAI Committee on the Status of Women
SATURDAY, MAY 9, 11:30 AM – 1:00 PM
Chair:
Virginia Shapiro, Mayo Clinic; AAI Committee on the Status of Women Chair
At this always popular session, you'll have the opportunity to meet with scientists at your own career stage and with more experienced scientists to explore specific career issues important to men and women in science today. Learn what others are thinking and gain insights into issues you are confronting in your own situation. Recently added topics offer insights into NIH study sections and considerations for scientists in M.D.-Ph.D. careers. Choose from these and the other vital topics related to the environment you work in (academic research, biotech industry, governmental agencies, non-profits), the transitions between specific career stages, or issues in balancing career and family in any career path. Don't miss this great networking opportunity!

Registration Fee: $20 (Lunch included.)

Discussion topics:
• Research Careers in Academia
• Graduate Student to Postdoc: finding a postdoc, interviewing
• Postdoc to PI: finding a position, interviewing, negotiating, lab start-up
• New PI: attracting students and postdocs, preparing for tenure
• Undergraduate Institutions: finding the balance in teaching, doing research
• Mentoring Effectively
• How to Build a Network
• The Two Body Problem: dual career couples
• Balancing Parenthood and Career
• Careers in Biotech and Industry: moving from academia to industry and vice versa
• Careers at Governmental Agencies (FDA/NIH/USDA/CDC)
• NIH Study Section Insights
• Negotiating an Academic Position
• The Physician Scientist: balancing clinical and research duties
• Research from the M.D., Ph.D. Perspective
• Non-research Careers for Scientists: careers in scientific journals, program administration, non-profits, industry

Table Leaders: See AAI Committee-sponsored Sessions
**Careers Roundtable and Speed Networking Session**

**Sponsored by the AAI Minority Affairs Committee**

**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-GM08059-32)**

**SATURDAY, MAY 9, 11:45 AM – 2:15 PM**

**Chair:**

Cherié L. Butts, Biogen Idec; 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 and personalized feedback on communicating your scientific interests/objectives most effectively. **Registration Fee: $20**

(Includes lunch; coffee/cookies during networking hour)

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**GRIP**

**Grant Review for Immunologists Program**

**Get a GRIP: An AAI program designed to help new investigators prepare their NIH grant proposals**

The AAI Grant Review for Immunologists Program (GRIP) offers new principal investigators (PIs) access to established PIs for guidance in preparing grant proposals as they embark on their independent careers. Early-career PIs (assistant professors or equivalents) are invited to submit their grants’ “Specific Aims” pages to the GRIP coordinator who, with the assistance of a small volunteer subcommittee, will attempt to match each topic of the proposal with the research experience of an established PI. Matches will be made as quickly as possible to allow participants to meet upcoming NIH grant deadlines. Participation is open only to AAI regular members and is strictly voluntary. The program is not intended to supplant internal mentoring programs at applicants’ institutions.

**To apply, please send your CV and the grant’s “Specific Aims” page to infoaai@aai.org. (please write “GRIP” in the subject line)**

**To volunteer as a mentor, please send your CV and a brief description of your grant-reviewing experience to infoaai@aai.org. (subject line “GRIP”)**

Program details at [aai.org/Education/GRIP](http://aai.org/Education/GRIP)
of getting the most out of your postdoctoral fellowship, relating successfully with your mentor, and understanding how to use the resources available to you to ensure that your training prepares you adequately for a seamless transition into the next phase of your career.

Interviewing for a Job
MONDAY, MAY 11, 1:30 PM – 2:30 PM

Speaker:
Derek Haseltine, Director, Career Services, College of Professional Studies, George Washington University

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 students and postdoctoral attendees.

Careers in Biotech: Panel Discussion and Networking
Sponsored by the AAI Education Committee
SATURDAY, MAY 9, 7:00 PM – 9:00 PM

Chair:
Nandita Bose, Biothera

Panelists:
Jason Fontenot, Principal Scientist, Immunology, Biogen Idec
Brian Johnson, Director, Market Development & Product Management, Thermo Fisher Scientific
Andy I. Kokaji, Senior Scientist, STEMCELL Technologies, Inc.
Isharat Yusuf, Research Investigator II, Genomics Institute of the Novartis Research Foundation

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.

How to Convert Your CV into a Resumé
SUNDAY, MAY 10, 9:00 AM – 10:00 AM

Speaker:
Derek Haseltine, Director, Career Services, College of Professional Studies, George Washington University

For anyone seeking a job outside of academia, 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 from 10:30 AM to 12:30 PM. Bring your CV!

Secrets for a Successful Postdoctoral Fellowship
MONDAY, MAY 11, 11:00 AM – 12:00 PM

Speaker:
James Gould, Director, Office for Postdoctoral Fellows, Harvard Medical School

A postdoctoral fellowship is the time to develop research skills you will need to succeed as an independent scientist. It is, however, just as important to realize that you need to prepare for a career path at the same time. This session will highlight ways
Jobs Board

A Free Recruiting Service for Registrants and Exhibitors

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.immunology2015.org/jobs-board/index.html.

Job Seekers!
Whatever your career stage, use this career service at IMMUNOLOGY 2015™ 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 29. Watch for On-site Postings, online or on paper 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 a virtual Jobs Board located on the IMMUNOLOGY 2015™ website. By including a contact email, you will receive inquiries directly.

- **Advance Postings.** Postings will be accepted as of February 2, 2015, 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 29, 2015.

- **On-site Postings.** After April 29, 2015, employers wishing to advertise a job on the IMMUNOLOGY 2015™ website may still do so by visiting the AAI Office in the Ernest N. Morial Convention Center between 9:00 AM and 5:00 PM. You may also post a paper announcement on the bulletin board in the Exhibit Hall.

Save Thousands of Dollars in Recruiting Expenses.
Take advantage of this complimentary hiring opportunity at IMMUNOLOGY 2015™. To register for the meeting, visit www.immunology2015.org/registration.
POSTER SESSIONS & 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 the AAI annual meeting. 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.

EXHIBITOR HALL PASSPORT PROGRAM

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 11, at 2:00 PM. The drawing will be held during the Poster Presentations on Monday, May 11 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.

EXHIBITOR WORKSHOPS

Be sure to take advantage of the knowledge-building opportunities presented in Exhibitor Workshops. Located on the Exhibit Floor, these workshops explore companies’ 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.

AAI Courses in Immunology

2015 Introductory Course in Immunology
July 14–19, 2015 • Long Beach Convention Center, Long Beach, California
Director: Juan Carlos Zuñiga-Pflücker, Ph.D.
University of Toronto and Sunnybrook Research Institute

2015 Advanced Course in Immunology
August 2–7, 2015 • Seaport World Trade Center, Boston, Massachusetts
Director: Leslie J. Berg, Ph.D.
University of Massachusetts Medical School

For more information visit www.aai.org/Education/Courses
Please direct inquiries to meetings@aai.org or 301-634-7178.

Financial support for underrepresented minority scientists is available through the FASEB MARC Program.
Visit: www.faseb.org/MARC.
The American Association of Immunologists
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for the

IMMUNOLOGY 2015™
Opening Night Welcome Reception
FRIDAY, MAY 8 • 6:00 PM – 8:00 PM

Chambers-eBioscience Memorial Award

Lustgarten-eBioscience Memorial Award

Meeting Bags

Program Support

IMMUNOLOGY 2015™
May 8 – 12, 2015 • New Orleans, Louisiana • Ernest N. Morial Convention Center
New Member Reception (By invitation only)  
Sponsored by the AAI Membership Committee  
FRIDAY, MAY 8, 4:00 PM – 4:45 PM  
(BADGE AND INVITATION REQUIRED)  

AAI wishes to welcome new regular and associate members joining AAI for the first time. AAI President Linda Sherman and other AAI leaders look forward to meeting you personally. Please join us with your invitation in hand for light refreshments and casual conversation.

Opening Night Reception: Carnival Night in NOLA  
Generously sponsored by eBioscience, an Affymetrix company  
FRIDAY, MAY 8, 6:00 PM – 8:00 PM  
GREAT HALL LOBBY –  
ERNEST N. MORIAL CONVENTION CENTER  
900 CONVENTION CENTER BLVD.

As you exit the President’s Address, you’ll be greeted by a traditional southern Louisiana band in the Great Hall Lobby for the Opening Night Welcome Reception. There you’ll sample the many flavors of New Orleans cuisine, mingle with old friends and revelers “borrowed” from Mardi Gras, and enjoy trying out your Cajun two-step to the celebrated Dwayne Dopsie & Zydeco Hellraisers band.

The Journal of Immunology (The JI) Editorial Board Dinner and Meeting (By invitation only)  
Generously sponsored by Dartmouth Journal Services  
SATURDAY, MAY 9, 7:00 PM – 10:00 PM  

This working dinner is held each year at the annual meeting to provide Editorial Board members the valuable opportunity to meet in person to discuss items of interest and concern about The JI.

Service Appreciation Reception (By invitation only)  
Generously sponsored by BioLegend  
SUNDAY, MAY 10, 7:30 PM – 9:30 PM  

At this important event, AAI leadership honors the association’s dedicated member volunteers—the committee members, editors, mentors, instructors, 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 to 2014-2015 AAI volunteers.

IMMUNOLOGY 2015™ Gala: Lagniappe* on the Levee—The Tastes & Tunes of New Orleans  
Generously sponsored by BioLegend  
MONDAY, MAY 11, 7:00 PM – 9:30 PM  
THE SUGAR MILL  
1021 CONVENTION CENTER BLVD.

Pause during your week of intense science to enjoy an evening with friends and colleagues at the AAI Gala: Lagniappe on the Levee—The Tastes and Tunes of New Orleans. At this festive event to be held at the historic Sugar Mill directly across from the Convention Center, you’ll enjoy sampling the ambience and cuisines of three distinctive New Orleans neighborhoods—the Vieux Carré, the Garden District, and Cajun Bayou Country. You’ll also be treated to the tunes of the 14-piece Swingaroux Band performing the many different genres of Louisiana music. And when you aren’t dancing, you’ll find lagniappe in novelty entertainment.

*Lagniappe: a Creole expression pronounced [lay-nee-ap] and meaning “a little something extra”
The American Association of Immunologists
Gratefully Acknowledges the Generous Sponsorship of

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IMMUNOLOGY 2015™ GALA
MONDAY, MAY 11 • 7:00 PM – 9:30 PM

Service Appreciation Reception

Lefrançois-BioLegend Memorial Award

AAI-BioLegend Herzenberg Award

Meeting Lanyards

IMMUNOLOGY 2015™
May 8 – 12, 2015 • New Orleans, Louisiana • Ernest N. Morial Convention Center
AAI PROGRAM COMMITTEE

AAI gratefully acknowledges the efforts of the Program Committee for IMMUNOLOGY 2015™.

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The Scripps Research Institute

Maria-Luisa Alegre  
University of Chicago

Marlene Bouvier  
University of Illinois at Chicago

Daniel J. Campbell  
Benaroya Research Institute

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La Jolla Institute for Allergy and Immunology

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Washington University School of Medicine

AAI ABSTRACT PROGRAMMING CHAIRS

AAI gratefully acknowledges the efforts of the Abstract Programming Chairs for IMMUNOLOGY 2015™.

Antigen Processing and Presentation  
Malini Raghavan  
University of Michigan Medical School

Scheherazade Sadegh-Nasseri  
Johns Hopkins School of Medicine

Basic Autoimmunity  
Laura Mandik-Nayak  
Lankenau Institute for Medical Research

Chandra Mohan  
University of Houston

Cellular Adhesion, Migration, and Inflammation  
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Cornell University College of Veterinary Medicine

Yoji Shimizu  
University of Minnesota Medical School

Cytokines and Chemokines and Their Receptors  
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Immediate Hypersensitivity, Asthma, and Allergic Responses  
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Toshiaki Kawakami  
La Jolla Institute for Allergy and Immunology

Immune Mechanisms of Human Disease  
Clara Abraham  
Yale University

Marcus R. Clark  
University of Chicago

Immune Response Regulation: Cellular Mechanisms  
Andrew L. Mellor  
Georgia Regents University

Thomas C. Mitchell  
University of Louisville School of Medicine

Immune Response Regulation: Molecular Mechanisms  
Rachel M. Gerstein  
University of Massachusetts Medical School

Mark H. Kaplan  
Indiana University School of Medicine

Immune Immune Responses and Host Defense: Cellular Mechanisms  
Judith Hellman  
University of California, San Francisco

Paige Lacy  
University of Alberta

Innate Immune Responses and Host Defense: Molecular Mechanisms  
Gregory M. Barton  
University of California, Berkeley

Denise M. Monack  
Stanford University

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

Ross M. Kedl  
University of Colorado, Denver

Microbial, Parasitic, and Fungal Immunology  
George S. Deepe  
University of Cincinnati College of Medicine

Joanne Turner  
Ohio State University

Mucosal and Regional Immunology  
Peter B. Ernst  
University of California, San Diego

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Transplantation Immunology  
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Columbia University Medical Center

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Tumor Immunology  
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Hollings Cancer Center MUSC

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College of Veterinary Medicine North Carolina State University

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Julia L. Hurwitz  
St. Jude Children’s Research Hospital

Steven M. Varga  
University of Iowa
2015 Introductory Course in Immunology
July 14–19, 2015 • Long Beach Convention Center, Long Beach, California
Director: Juan Carlos Zuñiga-Pflücker, Ph.D.
University of Toronto and Sunnybrook Research Institute

Don’t miss the most comprehensive introduction to immunology available!
This intensive two-part course, taught by world-renowned immunologists, provides a comprehensive 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 14–16) is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. Part II (July 17–19) is a clinically oriented lecture series focusing on specialty areas.
Parts I and II may be taken independently at the discretion of the student.

Faculty
Juan Carlos Zuñiga-Pflücker, University of Toronto and Sunnybrook Research Institute
Introduction to the Immune System

Lewis L. Lanier, University of California, San Francisco
Innate Immunity: Introduction to the Cells

Andrea J. Tenner, University of California, Irvine
Complement

Jessica A. Hamerman, Benaroya Research Institute
Innate Immunity: Introduction to Pattern Recognition and Intracellular Signaling

Wendy L. Havran, The Scripps Research Institute
Introduction to Adaptive Immunity

Nilabh Shastri, University of California, Berkeley
Antigen Processing and Presentation

Juan Carlos Zuñiga-Pflücker, University of Toronto and Sunnybrook Research Institute
MHC Restriction and Thymic Selection

David Nemazee, The Scripps Research Institute
B Cell Development and Maturation

Shannon J. Turley, Genentech, Inc.
Dendritic Cells: The Bridge Between Innate and Adaptive Immunity

Michael Croft, La Jolla Institute for Allergy and Immunology
Effector T Cell Differentiation and Response

Shane Crotty, La Jolla Institute for Allergy and Immunology
B Cell Activation and Humoral Immunity

Arthur Weiss, University of California, San Francisco
Signaling in the Immune System

Stephen M. Hedrick, University of California, San Diego
Immune Homeostasis in Infection and Disease

Ninan Abraham, University of British Columbia
Cytokines

Megan K. Levings, University of British Columbia
T and B Cell Tolerance

Matthias G. von Herrath, La Jolla Institute for Allergy and Immunology
Autoimmunity

Olivia M. Martinez, Stanford University School of Medicine
Transplantation

Peter B. Ernst, University of California, San Diego
Mucosal Immunology

Steven F. Ziegler, Genentech, Inc.
Type 2 Immunity

Linda A. Sherman, The Scripps Research Institute
Tumor Immunology

Robert L. Modlin, University of California, Los Angeles
David Geffen School of Medicine
Immunity to Bacterial Pathogens

Michael J. Bevan, University of Washington
Immunologic Memory

Nicole Frahm, Fred Hutchinson Cancer Research Center
Vaccination

Donald B. Kohn, University of California, Los Angeles
Genetic Approaches to Immune-Mediated Diseases

Andrew C. Chan, Genentech, Inc.
Bench to Bedside to Bench: Current Issues in Immunology

Also included will be a lecture on: Immunity to Viruses

For complete course details and registration, visit: www.aai.org/Education/Courses

For assistance, contact (301) 634-7178 or meetings@aai.org. Overseas applicants are advised to apply early for visas; for details, visit www.aai.org/Education/Courses/Visa.html. Financial support for underrepresented minority scientists is available through the FASEB MARC Program; for details, visit www.faseb.org/MARC.
2015 Advanced Course in Immunology
August 2–7, 2015 • Seaport World Trade Center, Boston, Massachusetts
Director: Leslie J. Berg, Ph.D.
University of Massachusetts Medical School

Don’t miss the premier course in immunology for research scientists!
This intensive course is directed toward advanced trainees and scientists who wish to expand or update their understanding of the field. Leading experts 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 principles of immunology.

Faculty

Marc K. Jenkins, Center for Immunology
University of Minnesota Medical School
Anatomy of the Immune Response

Jonathan C. Kagan, Children’s Hospital Boston
Harvard Medical School
Innate Immunity: Pattern Recognition and Anti-microbial Mechanisms

Bruce Horwitz, Brigham & Women’s Hospital, Harvard Medical School
Innate Immunity: Gene Regulation

Albert S. Bendelac, University of Chicago
Innate Immunity: Cellular Mechanisms

Wayne M. Yokoyama, Washington University School of Medicine
NK Cells — Their Receptors and Function in Health and Disease

Michael C. Carroll, Immune Disease Institute
Harvard Medical School
Molecular and Cellular Mediators of Inflammation

Brian T. Edelson, Washington University School of Medicine
Dendritic Cells

Eugene M. Oltz, Washington University School of Medicine
The Generation and Modification of Lymphocyte Antigen Receptor Genes

Kay L. Medina, Mayo Clinic
B Cell Development

Avinash Bhandoola, NCI, NIH
T Cell Development

Kenneth L. Rock, University of Massachusetts Medical School
MHC-Restricted Antigen Presentation to T Cells

Leslie J. Berg, University of Massachusetts Medical School
Signaling from Antigen Receptors

Joshy Jacob, Emory University School of Medicine
B Cell Memory

Arup K. Chakraborty, Massachusetts Institute of Technology
Computational Modeling of Immunological Processes

Brian A. Cobb, Case Western Reserve University
School of Medicine
Glycoimmunology

Richard S. Blumberg, Brigham & Women’s Hospital, Harvard Medical School
Mucosal Immunity

Joel D. Ernst, New York University School of Medicine
Immune Response to Pathogens

Jennifer Anolik, University of Rochester Medical Center
B Cell Tolerance and Autoimmunity

Lisa H. Butterfield, University of Pittsburgh
Tumor Immunology

Joanne L. Viney, Biogen Idec
Immunotherapeutics

Also included will be lectures on:
T Cell Memory, T Cell Tolerance and Autoimmunity, and Vaccines

For complete course details and registration, visit: www.aai.org/Education/Courses
For assistance, contact (301) 634-7178 or meetings@aai.org. Overseas applicants are advised to apply early for visas; for details, visit www.aai.org/Education/Courses/Visa.html.
Financial support for underrepresented minority scientists is available through the FASEB MARC Program; for details, visit www.faseb.org/MARC.
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Before preparing manuscript figures, please read the Information for Authors at http://www.jimmunol.org/site/misc/authorinstructions.xhtml#mspreparation

1. Do not erase any part of the image, including the background.

   YES
   
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   YES
   
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3. Make any adjustments to brightness or contrast equally across the entire image.

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4. Indicate any splicing of data from a single experiment by contrasting (black or white) lines; state the manipulation in the legend. Images from different experiments should not be spliced to form a new single image.

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5. Crop gels and blots conservatively, retaining important bands.

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- All images submitted to The Journal of Immunology must accurately represent the original data.
- Original data (digital files, autoradiographs, films, etc.) for all experiments should be fully annotated, secured, and retrievable for up to 10 years.
- The original image file (raw data file) should be kept in an unprocessed and non-compressed file format.
- Figures that are compiled into multi-figure panels should be kept individually.
The American Association of Immunologists

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Mark Your Calendar for the Premier Annual Immunology Event!

2015
IMMUNOLOGY 2015™
May 8–12
New Orleans, Louisiana

2016
IMMUNOLOGY 2016™
May 13–17
Seattle, Washington

2017
IMMUNOLOGY 2017™
May 12–16
Washington, D.C.
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