96th Annual Meeting
The American Association of Immunologists
IMMUNOLOGY 2009

Important Links

Online Registration  ■ www.IMMUNOLOGY2009.org/registration.htm
Hotel Reservations  ■ www.IMMUNOLOGY2009.org/housing.htm
International Attendees  ■ www.IMMUNOLOGY2009.org/VisaInformation.htm

For program updates and complete meeting information, visit
www.IMMUNOLOGY2009.org
AAI Presidential Program

AAI Presidential Address
**TCR Signal Transduction: Opening the Black Box**
FRIDAY, MAY 8, 2009 • 5:00 PM
Arthur Weiss, HHMI, University of California, San Francisco, AAI President

Introduction: Gary A. Koretzky, University of Pennsylvania School of Medicine

**Presentation of the AAI Lifetime Achievement Award**
FRIDAY, MAY 8 • 5:00 PM
Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President
Award Recipient: Steven J. Burakoff, The Tisch Cancer Institute, Mount Sinai Medical Center

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. The award will be presented prior to the start of the AAI Presidential Address.

AAI Presidential Symposium
**Signaling by Antigen Receptors: From Molecules to Models**
MONDAY, MAY 11, 2009 • 2:30 PM
Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President

- Lawrence E. Samelson
  NCI, NIH
  Signaling at the T cell antigen receptor

- Gary A. Koretzky
  University of Pennsylvania School of Medicine
  Regulation of immune cell development and function by adapter proteins

- Doreen A. Cantrell
  University of Dundee
  Matching lymphocyte metabolism and migration

- Arup K. Chakraborty
  Massachusetts Institute of Technology
  Molecular origin and functional consequences of digital signaling in lymphocytes

**Presentation of the AAI Excellence in Mentoring Award**
MONDAY, MAY 11
Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President
Award Recipient: David Baltimore, California Institute of Technology
Introduction: Frederick W. Alt, HHMI, Children's Hospital Boston, CBR Institute, Harvard Medical School

The AAI Excellence in Mentoring Award recognizes an AAI member’s exemplary career contributions to a future generation of scientists. The award will be presented prior to the start of the AAI Presidential Symposium.

AAI Distinguished Lectures
Generously supported by eBioscience, Inc.

- **SATURDAY, MAY 9**
  5:00 PM
  Megan Sykes
  Massachusetts General Hospital and Harvard Medical School
  Controlling the alloresponse: between benches, to the bedside and back

- **SUNDAY, MAY 10**
  5:00 PM
  John C. Cambier
  University of Colorado Denver School of Medicine and National Jewish Health
  Anergy vs. activation: the B cell antigen receptor as a molecular switch

- **MONDAY, MAY 11**
  5:00 PM
  Alexander Y. Rudensky
  HHMI, Memorial Sloan-Kettering Cancer Center
  Foxp3: a key to dominant tolerance
AAI MAJOR SYMPOSIA

SATURDAY, MAY 9, 2009  ▪  8–11:30 AM

Major Symposium A: Triggers of Autoimmunity
Chair: Joanne L. Viney, Amgen Corporation
Co-Chair: Dale T. Umetsu, Children’s Hospital Boston and Harvard Medical School

Joanne L. Viney, Amgen Corporation, Triggers of intestinal inflammation
Dale T. Umetsu, Children’s Hospital Boston and Harvard Medical School, IL-17-producing natural killer T cells in the lungs
Joan M. Governor, University of Washington, Th17 and Th1 cells in CNS autoimmunity
Nicholas P. Restifo, NCI, NIH, Triggering autoimmunity with cancer therapeutics
Alexander V. Chervonsky, Salk Institute, Pyrin-only proteins: regulators of the inflammasome
Gabriel Núñez, University of Chicago, Commensal bacteria and type 1 diabetes
Sarkis K. Mazmanian, California Institute of Technology, Dysbiosis as a trigger for autoimmune colitis and systemic inflammation

Major Symposium B: The Inflammasome
Chair: Gabriel Núñez, University of Michigan
Co-Chair: Jonathan A. Harton, Albany Medical College

Gabriel Núñez, University of Michigan Cancer Center, Activation of the inflammasome by bacterial pathogens
Jenny P.Y. Ting, Lineberger Comprehensive Cancer Center, Genetic and functional analysis of NLR genes
Vishva M. Dixit, Genentech, Inc., The cryopyrin/NALP3 inflammasome
Jonathan A. Harton, Albany Medical College, Pyrin-only proteins: regulators of the inflammasome
Fayyaz S. Sutterwala, University of Iowa, Sterile inflammatory responses mediated by the NLRP3 inflammasome
Eicke Latz, University of Massachusetts Medical School, Activation of the NALP3 inflammasome by lysoosomal damage

SUNDAY, MAY 10, 2009  ▪  8–11:30 AM

Major Symposium C: Bridging Adaptive and Innate Immunity
Generously supported by Kyowa Hakko Kirin California, Inc.

Chair: Hilde Cheroutre, La Jolla Institute for Allergy and Immunology
Co-Chair: Youhai H. Chen, University of Pennsylvania School of Medicine
Carla V. Rothlin, Salk Institute, TAKing inflammation: introducing a novel anti-inflammatory receptor tyrosine kinase signaling pathway
Youhai H. Chen, University of Pennsylvania School of Medicine, Toll-like receptor signaling: gene- and signal-specific regulators
Eugene C. Butcher, Stanford University, Chemokine receptors at the interface of innate and adaptive immunity
Wendy L. Havran, The Scripps Research Institute, Crosstalk between gamma delta T cells and their epithelial neighbors
Hilde Cheroutre, La Jolla Institute for Allergy and Immunology, Mucosal immunity: it is all a matter of “gu” decisions
Randolph J. Noelle, Dartmouth Medical School, Regulation of peripheral tolerance in transplantation and cancer

Major Symposium D: MicroRNAs
Chair: Judy Lieberman, Immune Disease Institute and Harvard Medical School
Co-Chair: K. Mark Ansel, University of California, San Francisco

K. Mark Ansel, University of California, San Francisco,MicroRNA homeostasis in lymphocytes
Joshua Mendell, Johns Hopkins University School of Medicine, MicroRNA reprogramming by oncogenes and tumor suppressors
Judy Lieberman, Immune Disease Institute and Harvard Medical School, Silencing cell proliferation
Chang-Zheng Chen, Stanford University School of Medicine, Micromanaging immune systems by the miR-181 family genes
Jeffrey A. Bluestone, University of California, San Francisco, Role of microRNAs in autoimmunity: a key role in regulatory and memory T cell function
David Baltimore, California Institute of Technology, MicroRNAs and immunity

MONDAY, MAY 11, 2009  ▪  8–11:30 AM

Major Symposium E: Epigenetic Regulation of the Immune Response
Chair: Ann J. Feeney, The Scripps Research Institute
Co-Chair: Stephen T. Smale, University of California, Los Angeles

Ann J. Feeney, The Scripps Research Institute,Epigenetic regulation of immunoglobulin gene recombination
Cornelis Murre, University of California, San Diego, The 3-D structure of the immunoglobulin heavy chain locus: implications for the generation of antibody diversity
Michael S. Krangel, HHMI, University of Washington, Epigenetic regulation of TCR gene assembly
Amy S. Weinmann, University of Washington, The role for T-box proteins in establishing epigenetic states in immune cells
Stephen T. Smale, University of California, Los Angeles, Selective regulation of pro-inflammatory genes by chromatin
Christopher B. Wilson, University of Washington, Epigenetic regulation of T helper cell differentiation and function

Major Symposium F: T Cell Response to Pathogens
Chair: Michael J. Bevan, HHMI, University of Washington, Seattle
Co-Chair: Marcia A. Blackman, Trudeau Institute

John T. Harty, University of Iowa, CD8+ T cell immunity to microbes
Marcia A. Blackman, Trudeau Institute, The impact of aging on T cell repertoire and immunity to influenza virus
Nilabh Shastri, University of California, Berkeley, Immune responses to Toxoplasma Gondii
Francis R. Carbone, University of Melbourne, Dendritic cells and tissue-resident T cells contribute to the memory response during localized infections
David Masopust, University of Minnesota, Memory T cells: issues of quantity, quality and location
Cliona M. Rooney, Baylor College of Medicine, Improving multipathogen-specific T cell therapies

FOR MORE INFORMATION, SEE WWW.IMMUNOLOGY2009.ORG
TUESDAY, MAY 12, 2009  •  8–11:30 AM

**Major Symposium G: IL-23/IL-17 Axis in T Cell Differentiation and Tissue Inflammation**

Chair: Vijay K. Kuchroo, Harvard Medical School and Brigham and Women's Hospital
Co-Chair: Wenjun Ouyang, Genentech, Inc.

Steven D. Levin, ZytoGenetics, Inc., Ancillary molecules in the development and function of Th17 cells
Vijay K. Kuchroo, Harvard Medical School and Brigham and Women's Hospital, Reciprocal relationship between Treg and Th17 cells
Wenjun Ouyang, Genentech, Inc., The functions of IL-22 and IL-17 in autoimmune and infectious diseases
John J. O'Shea, NIAMS, NIH, Signal transduction in Th17 development
Sarah L. Gaffen, University of Pittsburgh, Structure-function relationships in the IL-17 receptor complex

**Major Symposium H: Cell Fate Decisions in Lymphocyte Development**

Chair: Ellen V. Rothenberg, California Institute of Technology
Co-Chair: Jonathan G. Kaye, The Scripps Research Institute

Jonathan G. Kaye, The Scripps Research Institute, Multiple roles for nuclear factor TOX in development of the immune system
Paul E. Love, NICHD, NIH, A new T cell-specific protein with a critical role in thymocyte development
Harald von Boehmer, Dana-Farber Cancer Institute and Harvard Medical School, Notch1 and c-myc in alpha beta T-lineage fate and lymphoma
Nancy A. Speck, University of Pennsylvania School of Medicine, Roles of core binding factors (Runx/CBFβ) in hematopoietic lineage choice
Ellen V. Rothenberg, California Institute of Technology, A genomic view of T-lineage specification and commitment
Avinash Bhandoola, University of Pennsylvania School of Medicine, Notch signals constrain the myeloid potential of early thymic progenitors

**BLOCK SYMPOSIA**

Submitted abstracts are programmed into oral or poster sessions; oral sessions are called Block Symposia. Each abstract selected for a Block Symposium will also be presented in a Poster Session. Approximately 50 Block Symposia will be presented at IMMUNOLOGY 2009™; all sessions will be held in the Washington State Convention & Trade Center.

**POSTER SESSIONS**

The most interactive part of the meeting! Discuss data and research issues firsthand with authors at the Poster Sessions. Posters will be displayed Saturday through Monday in the Washington State Convention & Trade Center Exhibit Hall from 8:00 AM – 5:00 PM, with authors present from 12:30 – 1:30 PM.

**FOR MORE INFORMATION, SEE WWW.IMMUNOLOGY2009.ORG**
Awards Presentations and Lectures

AAI-Dana Foundation Award in Human Immunology Research Presentation and Lecture
Generously supported by the Dana Foundation
Saturday, May 9  •  3:15 PM
Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President
Award Recipient/Lecturer:
Jacques Banchereau, Baylor Institute for Immunology Research, Human immunology: a fertile field for basic and patient-oriented discoveries

AAI-BD Biosciences Investigator Award Presentation and Lecture
Generously supported by BD Biosciences
Sunday, May 10  •  2:30 PM
Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President
Award Recipient/Lecturer:
Chen Dong, The University of Texas MD Anderson Cancer Center, Many paths of peripheral T cells

AAI-Invitrogen Meritorious Career Award Presentation and Lecture
Generously supported by Invitrogen Corporation
Sunday, May 10  •  3:30 PM
Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President
Award Recipient/Lecturer:
Michael J. Bevan, HHMI, University of Washington, Seattle, Matching antigen strength in the thymus and periphery

Awards Presentations at the AAI Business Meeting
Monday, May 11  •  12:45 PM
AAI Distinguished Service Award Presentation
Award Recipient:
John G. Monroe, Genentech, Inc.
AAI-Invitrogen Trainee Achievement Awards
Cynthia Chambers Memorial–eBioscience Junior Faculty Award
Pfizer-Showell Travel Award

For complete information on all AAI Awards, please visit www.aai.org/Awards.

Attend the AAI Business Meeting & Awards Presentation!
MONDAY, MAY 11  •  12:45 PM
In addition to awards presentations, this session will include the annual report to AAI members on AAI and The Journal of Immunology business affairs. Lunch will be provided (no ticket required).

Additional awards to be given in conjunction with IMMUNOLOGY 2009™:

AAI Junior Faculty Travel Grants
Assist young investigators with travel to the AAI Annual Meeting. Selection based on career promise and submission of a first-author abstract to the Annual Meeting.

AAI Trainee Abstract Awards
Awarded to AAI trainee members (students and postdoctoral fellows) whose first-author abstracts are selected for oral presentation in an AAI Block Symposium.

AAI Minority Scientist Travel Awards
Support the participation of under-represented minority scientists at the AAI Annual Meeting; funded by a grant from the National Institute of General Medical Sciences, NIH [FASEB MARC Program: T36-GM08059-26].

FOR MORE INFORMATION, SEE WWW.IMMUNOLOGY2009.ORG
**IMMUNOLOGY 2009**

**AAI COMMITTEE-SPONSORED SESSIONS**

**CLINICAL IMMUNOLOGY COMMITTEE**

**Scourge of the Mummies: TB Then and Now**

*SUNDAY, MAY 10, 12:30 – 2:00 PM*

Chair: Kathleen E. Sullivan, Children’s Hospital of Philadelphia, Chair, AAI Clinical Immunology Committee

Co-Chair: Cathryn Nagler, Massachusetts General Hospital and Harvard Medical School, Co-Chair, AAI Clinical Immunology Committee

Jerald C. Sadoff, Aeras Foundation, TB vaccine development in modern times

Joel D. Ernst, NYU School of Medicine, Dendritic cell traffic and antigen presentation in tuberculosis

Shabaana A. Khader, Children’s Hospital of Pittsburgh, T cell-mediated immunity to tuberculosis

Samuel M. Behar, Brigham and Women’s Hospital and Harvard Medical School, Lipid mediators modulate the cellular fate of infected macrophages and regulate innate and adaptive immunity to tuberculosis

**COMMITTEE ON PUBLIC AFFAIRS**

**Immunology at CDC: Research Opportunities in Public Health**

*SATURDAY, MAY 9, 12:30 – 2:00 PM*

Chair: William R. Green, Dartmouth Medical School, Chair, AAI Committee on Public Affairs

Alison C. Mawle, Associate Director for Laboratory Science, National Center for Immunization and Respiratory Diseases, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, *Immunology at CDC: why it matters*

Conrad Quinn, Molecular Pathogenesis and Immunology Team, Meningitis and Vaccine Preventable Diseases Branch, Division of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, *Anthrax vaccines—from Pasteur to pasture to PA*

Ellen Kersh, Laboratory Branch, Pre-clinical Evaluation Team, Division of HIV/AIDS Prevention, National Center for HIV, Hepatitis, STD and TB Prevention, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, *Immunological factors impact susceptibility to SHIV in a macaque model of repeated mucosal viral challenge*

This session will surprise you, as you learn about some of the exciting immunological research being conducted at the CDC. Speakers will also describe ongoing collaborative and interagency work, as well as funding opportunities for scientists. A question and answer period will follow the presentations.

**Good Science Gone Bad: “Dual Use” Research and How It Affects You**

*SUNDAY, MAY 10, 12:30 – 2:30 PM*

Chair: William R. Green, Dartmouth Medical School, Chair, AAI Committee on Public Affairs

*Keynote Speaker: Dennis L. Kasper, Chair, National Science Advisory Board for Biosecurity (NSABB): William Ellery Channing Professor of Medicine and Professor of Microbiology and Molecular Genetics, Harvard Medical School; Director, Channing Laboratory, and Senior Physician, Brigham and Women’s Hospital, Good research for bad purposes: how to know “dual use” research when you see it, and when you should worry*

David A. Relman, Member, National Science Advisory Board on Biosecurity (NSABB); Professor of Microbiology & Immunology, and of Medicine, Stanford University; Chief of Infectious Diseases, VA Palo Alto Health Care System, *The future life sciences landscape: benefits and risks*

David R. Franz, Co-Chair, National Science Advisory Board on Biosecurity (NSABB) International Working Group; Chief Biological Scientist, Midwest Research Institute (Frederick, Maryland), Regulating “dual-use” research: if the U.S. does, will the world follow?

Paul S. Keim, Chair, National Science Advisory Board on Biosecurity (NSABB) Communications Working Group; Director of Pathogen Genomics, The Translational Research Institute (TGen); Director, Center for Microbial Genetics and Genomics, and The Cowden Endowed Chair in Microbiology, Northern Arizona University, *The anthrax letter attacks: investigating the researchers, investigating the crime*

**BIOTERRORISM!** Caused by a rogue scientist or caused, unknowingly, by you? Caused by you because you didn’t know about “dual use research” (research that can be used for both beneficial and nefarious purposes).

This session will explore the political and scientific issues surrounding dual use research, its dangers and benefits—including its forensic role in identifying suspects in the 2002 anthrax case—and many of the key concerns about government regulation of such research. A question and answer period will follow the presentations.

**EDUCATION COMMITTEE**

*just added! The NIH Grant Maze: Navigating Old Turns and New Twists*

*SATURDAY, MAY 9, 10:15 AM – 12:15 PM*

See CAREER DEVELOPMENT PROGRAMS section, below

**John H. Wallace High School Teachers Workshop: Lessons in Immunology**

*SATURDAY, MAY 9, 10:15 AM – 12:15 PM*

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

The AAI High School Teachers Program brings the excitement of immunology directly to high school students by sending high school science teachers into the laboratories of established immunologists who mentor them in a “hands-on” summer internship. The teachers develop a science project for the classroom based on their summer experience. The teachers present their experiences and projects in this session.

**2008–2009 PROGRAM PARTICIPANTS**

**Teacher:** Mary Haus, Los Osos High School, Rancho Cacamonga, CA

**Mentor:** Roberta R. Pollock, Department of Biology, Occidental College, Los Angeles, California

**Teacher:** Monica Thoune, Bay Middle College/Fitzharris High School, Delta-Schoolcraft Intermediate School District, Wells, Michigan

**Mentor:** Mariana J. Kaplan, University of Michigan Medical School, Ann Arbor, Michigan

**Teacher:** David Mwangi, East Orange High School, East Orange, New Jersey

**Mentor:** Patricia Fitzgerald-Bocarsly, UMDNJ—New Jersey Medical School, Newark, New Jersey

**Teacher:** Kevin Jarigese, West Mesa High School, Albuquerque, New Mexico

**Mentor:** Carolyn Mold, Department of Molecular Genetics and Microbiology, University of New Mexico, Albuquerque, New Mexico

**Teacher:** Rita English, John F. Kennedy Memorial High School, Iselin, New Jersey

**Mentor:** Debra Laskin, Department of Pharmacology/Toxicology, Rutgers University, Piscataway, New Jersey

**Teacher:** Nels Dokken, John F. Kennedy High School, South Bloomington, Minnesota

**Mentor:** Chris Pennell, Department of Laboratory Medicine & Pathology, University of Minnesota, Minneapolis, Minnesota
**EDUCATION COMMITTEE and COMMITTEE ON THE STATUS OF WOMEN**

**Careers in Science: Lecture and Roundtable Discussion**
SATURDAY, MAY 9, 1:30 – 3:30 PM

*Chair: Christine Mikarek*, University of Pittsburgh, Chair, AAI Committee on the Status of Women  
*Co-Chair: Bonnie N. Dittel*, BloodCenter of Wisconsin, Blood Research Institute  
*Speaker: Phyllis M. Wise*, Provost and Executive Vice President, University of Washington

Learn about career options and successful paths to each in this afternoon session. Following Dr. Wise’s lecture, experienced scientists will serve as roundtable discussion leaders and offer one-on-one insight about specific career issues and options important to men and women in science today. Attendance will be limited to the first 300 registrants. Roundtable topics will address career options and issues that challenge success at all career stages.

**General**

Topics related to the environment you work in or want to work in  
- Academic Research  
- Biotech and Industry  
- Governmental Agencies: CDC/FDA/NIH  
- Clinic: clinical and diagnostic immunology, clinician-scientist  
- Undergraduate Institutions: teaching, doing research part-time

**Transitions**

Topics focused on a specific career stage  
- Graduate Student to Post-doc: finding a post doc, interviewing  
- Post-doc to PI: finding a position, interviewing, negotiating, lab start-up  
- New PI: attracting students and post-docs, preparing for tenure  
- Mid-Career: developing administrative and management skills/sabbaticals  
- Changing Careers: moving from academia to industry, or vice versa

**Special**

Topics for unique situations  
- Career and Family: time management/family leave/professional couples  
- Integrity and Ethics: dealing with controversy, discrimination in the workplace  
- Alternative Careers: science journalism, patent law  
- The Scientist’s Role in Public Policy  
- Time Management

Registration, $10 fee required; dessert buffet and coffee included

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**MINORITY AFFAIRS COMMITTEE**

**Careers and Networking Roundtable**
SUNDAY, MAY 10, 11:00 AM – 12:30 PM

*Chair: Randy R. Brutkiewicz*, Indiana University School of Medicine, Chair, AAI Minority Affairs Committee

Don't miss this opportunity to meet one-on-one with senior minority immunologists to hear how they have handled the career challenges you now face. Learn what they believe will work for you today.

Registration, $10 fee required; box lunch included

**Minority Affairs Committee Guest Lecture**
MONDAY, MAY 11, 11:30 AM – 12:30 PM

*Chair: Randy R. Brutkiewicz*, Indiana University School of Medicine, Chair, AAI Minority Affairs Committee  
*Emil R. Unanue*, Washington University (St. Louis) School of Medicine, *The mysteries of peptide selection by the class II MHC molecules*

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**PUBLICATIONS COMMITTEE**

**Course: Excellence in Scientific Writing**
FRIDAY, MAY 8, 12:00 – 4:00 PM

Improve the quality of your publications and grant applications. This interactive half-day workshop will, through examples and class participation, focus on the essentials of effective writing and strategies for clear communication. Course is limited to 100 attendees.

Registration, $100 fee required

**Scientific Publishing: Dos and Don’ts for Authors and Reviewers**
SUNDAY, MAY 10, 12:30 – 2:30 PM

*Chair: Robert D. Schreiber*, Washington University (St. Louis) School of Medicine, Chair, AAI Publications Committee  
*Pamela J. Fink*, University of Washington School of Medicine, *Dos and don’ts when writing a scientific manuscript*  
*JoAnne L. Flynn*, University of Pittsburgh School of Medicine, *Essentials for becoming a valued reviewer*  
*Pamela A. Shaw*, NIAID, NIH, *The appropriate use of statistics in the biological sciences*  
*Jeremy M. Boss*, Emory University School of Medicine, *What do you mean I already published it? Ethics in scientific publishing*

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**NIH INSTITUTE-SPONSORED SYMPOSIA**

**NATIONAL CANCER INSTITUTE (NCI) SYMPOSIUM:**  
**The Role of NKG2D in Immune Responses to Tumors**
FRIDAY, MAY 8, 2:00 – 4:00 PM

*Chair: David H. Raulet*, University of California, Berkeley  
*Co-Chair: T. Kevin Howcroft*, Division of Cancer Biology and Cancer Immunology, NCI, NIH  
*Thomas Spies*, Fred Hutchinson Cancer Research Center, *NKG2D-mediated suppression of tumor immunity*  
*David H. Raulet*, University of California, Berkeley, *Regulation of NKG2D ligands and the role of NKG2D in tumor surveillance*  
*Lewis L. Lanier*, University of California, San Francisco, *NKG2D-mediated immune responses*  
*Glenn Dranoff*, Dana-Farber Cancer Institute, *Targeting the NKG2D pathway in cancer therapy*

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**NATIONAL INSTITUTE ON AGING (NIA) SYMPOSIUM:**  
**How Aging Impacts Vaccine Efficacy**
SUNDAY, MAY 10, 8:00 – 10:00 AM

*Chair: Rebecca A. Fuldner*, NIA, NIH  
*Co-Chair: Janko Nikolich-Zugich*, University of Arizona College of Medicine and Arizona Center on Aging  
*Donna M. Murasko*, Drexel University, *Immune response to influenza in the aged: a story of mice and men*  
*Jack Gorski*, BloodCenter of Wisconsin, *The aging of cytotoxic T cell memory to influenza*  
*Janko Nikolich-Zugich*, University of Arizona College of Medicine and Arizona Center on Aging, *How the frail fail: immune response to acute and chronic viral infections in old age*  
*Joseph Lustgarten*, Mayo Clinic, *Implications of aging and self tolerance for the development of tumor vaccines in the elderly*
**GUEST SOCIETY SYMPOSIA**

AII is joined by the following guest societies presenting two-hour symposia in special disciplines.

**British Society for Immunology (BSI)–AAI Special Symposium**

**Immune Responses to Distressed Self**

**MONDAY, MAY 11, 12:30 – 2:30 PM**

*Chairs: John G. Monroe, Genentech, Inc., AAI Program Chair; Adrian H. Hayday, King’s College London School of Medicine, BSI Secretariat*

Vincenzo Cerundolo, University of Oxford, Invariant NKT cells: effect on DC, B cells and myeloid-derived suppressor cells

Yueh-Hsiu Chien, Stanford University, From the (lack of) thymic selection to IL-17 production: why γδ T cells are indispensable

Wayne Yokoyama, HHMI, Washington University (St. Louis) School of Medicine, NK cell tolerance: licensing and other mechanisms

Benjamin E. Willcox, University of Birmingham, Immune display of the cancer phosphoproteome: presentation of transformed self

**Working B Cells: How to Make Antibodies that Protect for Anti-HIV Vaccines**

**MONDAY, MAY 11, 10:15 AM – 12:15 PM**

*Chairs: Helen Quill, DAIT, NIAID, NIH; Tony Conley, DAIT, NIAID, NIH*

Harry W. Schroeder, University of Alabama at Birmingham, Regulation of the primary antibody CDR-H3 repertoire and epitope selection in immunoglobulin responses to HIV

Leonidas A. Stamatatos, Seattle Biomedical Research Institution, Prevalence and epitope specificities of broadly-neutralizing antibodies generated during HIV-1 infection: how can we elicit them by vaccination?

Abraham Pinter, UMDNJ-New Jersey Medical School, Targets for HIV-1 neutralization—limitations and new approaches

Ignacio E. Sanz, University of Rochester, The cellular basis of protective anti-HIV antibody responses

Scientific progress in B cell biology relevant to the production of broadly neutralizing anti-HIV antibodies for the development of prophylactic vaccines: Scientific presentations of recent advances together with panel discussion of the unusual immunological issues involved and potential solutions to roadblocks. Scientific presentation followed by a panel discussion.

**American Association of Veterinary Immunologists (AAV) and AAI Veterinary Immunology Committee Joint Symposium**

**Comparative Biology of Non-Classical MHC Class I Molecules**

**SUNDAY, MAY 10, 12:30 – 2:30 PM**

*Chairs: Christopher J. Davies, Utah State University; Mark A. Jutila, Montana State University, AAI Veterinary Immunology Committee Chair*

Joan S. Hunt, University of Kansas Medical Center, Similar and dissimilar features of human and baboon MHC class Ib antigens in placentas

Thaddeus G. Golos, University of Wisconsin, Towards in vivo models to define the functions of primate MHC class I molecules

Christopher J. Davies, Utah State University, Placental expression patterns of cattle non-classical MHC class I genes and proteins

Laurent Abi-Rached, Stanford University, Species-specific evolution of NK cell receptors for MHC class I
**Association of Medical Laboratory Immunologists (AMLI)**

**Human Immunology: Primary Immunodeficiencies as Models for Understanding Lymphocyte Development and Differentiation**

**SUNDAY, MAY 10, 8:00 – 10:00 AM**

*Chairs: Ronald J. Harbeck, National Jewish Health; Roshini S. Abraham, Mayo Clinic*

**Pamela L. Schwartzberg, NHGRI, NIH, Lessons from mouse models of primary immunodeficiencies**

**Jack J. H. Blessing, Cincinnati Children’s Hospital Medical Center, Autoimmune lymphoproliferative syndromes: models for lymphocyte homeostasis and regulation**

**Troy R. Torgerson, University of Washington and Seattle Children’s Research Institute, Immune dysregulation and primary immunodeficiencies: Foxp3 and Treg development**

**Jordan Orange, University of Pennsylvania School of Medicine and The Children’s Hospital of Philadelphia, The NK immunological synapse and NK-related immune deficiencies**

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**Canadian Society for Immunology (CSI)**

**Innate Regulation of Acquired Immunity**

**SUNDAY, MAY 10, 12:30 – 2:30 PM**

*Chairs: Jean S. Marshall, Dalhousie University; Kent T. HayGlass, University of Manitoba*

**Jennifer L. Gommerman, University of Toronto, Interactions between stromal cells, dendritic cells, and lymphotoxic-expressing lymphocytes tune the adaptive immune response**

**Kent T. HayGlass, University of Manitoba, Linkages between TLR/NLR responsiveness and human allergic disease**

**Dana J. Philpott, University of Toronto, Nod proteins in innate and adaptive immunity**

**Jean S. Marshall, Dalhousie University, Mast cell mobilization of dendritic cells**

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**Chinese Society of Immunology (ChSI)**

**Immune Regulation: From Basic to Clinics**

**SATURDAY, MAY 9, 10:15 AM – 12:15 PM**

*Chairs: Xuetao Cao, Institute of Immunology, Second Military Medical University, Shanghai; Olivia (Olja) J. Finn, University of Pittsburgh School of Medicine*

**Gang Pei, Institute of Biological Sciences, Chinese Academy of Sciences, Shanghai, Beta-arrestin 2 and negative regulation of innate and adaptive immune response**

**Sidong Xiong, Fudan University School of Medicine, Shanghai, DNA for de novo autoantigen: when DNA could trigger autoimmunity**

**Xiaoming Gao, Peking University Health Science Center, Beijing, Specificity and function of regulatory anti-T-cell Abs induced by T cell vaccination**

**Hong Tang, Center for Immunity and Infection, Chinese Academy of Sciences, Beijing, Adaptive immune cells temper initial innate responses**

**Fusheng Wang, Beijing 302 Hospital, Beijing, Both regulatory T cells and inhibitory receptors impair CD8+ T cell responses in chronic HBV infection**

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**International Society for Interferon and Cytokine Research (ISICR)**

**Cytokines and Interferons in the Immune Response**

**MONDAY, MAY 11, 10:15 AM – 12:15 PM**

*Chair: Robert M. Friedman, USUHS*

**Patricia Fitzgerald-Bocarsly, UMDNJ, Interferons and plasmacytoid dendritic cells**

**Grant Gallagher, HUMIGEN LLC, Modulation of the Th2 response by IL-19 and interferon lambda**

**Thomas A. Wynn, NIAID, NIH, Dissecting alternative and classical activation: the role of macrophage subsets in the pathogenesis of Th2-mediated disease**

**Kendall A. Smith, Weill Medical College of Cornell University, How mutations in cytokine signaling pathways can lead to autoimmunity and leukemia**

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**International Society of Neuroimmunology (ISNI)**

**B Cells in Neuroimmunologic Disease**

**SATURDAY, MAY 9, 2:45 – 4:45 PM**

*Chairs: Anne H. Cross, Washington University (St. Louis) School of Medicine; Bonnie N. Dittel, BloodCenter of Wisconsin, Blood Research Institute*

**Bonnie N. Dittel, BloodCenter of Wisconsin, Blood Research Institute, Mechanisms utilized by B cells to regulate autoimmune inflammation in the CNS**

**Scott S. Zamvil, University of California, San Francisco, Mechanisms of B cell involvement in CNS autoimmunity**

**Kevin C. O’Connor, Harvard Medical School, The specificity of B cells in the CNS of multiple sclerosis patients**

**Anne H. Cross, Washington University (St. Louis) School of Medicine, B cell depletion in the therapy of relapsing multiple sclerosis**

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**Singaporean Society for Immunology (SSI)**

**New Initiatives in Asia**

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

*Chairs: David Michael Kemeny, National University of Singapore; Paola Ricciardi Castagnoli, Singapore Immunology Network, A*STAR*

**David Michael Kemeny, National University of Singapore, CD8+ T cells induce dendritic cell IL-12 in vitro and in vivo via CD40-dependent and independent pathways**

**Paola Ricciardi Castagnoli, Singapore Immunology Network, A*STAR, Dendritic cells regulate immune responses via the NFAT signaling pathway**

**S. K. Alex Law, Nanyang Technological University, Lessons from mutations of LAD patients and the structure and function of integrins**

**Antonio Bertolotti, Singapore Institute for Clinical Sciences, A*STAR,Reconstitution of virus-specific immunity through TCR transfer in chronic hepatitis B**

**Paul A. MacArley, National University of Singapore, Targeting Epstein-Barr virus-associated tumors using TCR-like monoclonal antibodies**

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**Society for Glycobiology**

**Glycans in Immune Development, Recognition, and Function**

**SATURDAY, MAY 9, 12:30 – 2:30 PM**

*Chairs: Linda G. Baum, UCLA School of Medicine; Mitchell Kronenberg, La Jolla Institute for Allergy and Immunology*

**Mitchell Kronenberg, La Jolla Institute for Allergy and Immunology, Innate-like recognition of microbial glycolipid by natural killer T cells**

**Yvette van Kooyk, Vrije Universiteit Medical Center, Amsterdam, Innate and adaptive dendritic cell responses upon glycan recognition**

**James C. Paulson, The Scripps Research Institute, Targeting B cells with ligands of CD22**

**Linda G. Baum, UCLA School of Medicine, Galectin-glycan lattices on the plasma membrane regulate T cell function**
Society for Mucosal Immunology (SMI)

Enemies at the Gate: Control of Microbes at Mucosal Surfaces
SATURDAY, MAY 9, 2:45 – 4:45 PM

Chairs: Leo Lefrançois, University of Connecticut Health Center; Charlotte S. Kaetzel, University of Kentucky College of Medicine
Lora V. Hooper, HHMI, University of Texas Southwestern Medical School, Innate immune responses to commensal bacteria at the gut epithelial surface
Stephen J. McSorley, University of Minnesota Medical Center, Initiation of a CD4+ T cell response to Salmonella infection
David Artis, University of Pennsylvania School of Medicine, Innate immune cells in the recognition and response to helminth parasites
Linda S. Cauley, University of Connecticut Health Center, CD69 and CD103 cooperatively regulate CD8+ T cell responses in the lungs after influenza infection
Dennis W. Metzger, Albany Medical College, The role of mucosal immunity in viral-bacterial synergistic lung infections

Society for Natural Immunity (SNI)

NK Cell Development and Tolerance: Implications for Immunotherapy
SATURDAY, MAY 10, 2:45 – 4:45 PM

Chairs: Peter Parham, Stanford University; Michael A. Caligiuri, Ohio State University
Fumio Takei, University of British Columbia, NK cell progenitors in various tissues suggest multiple pathways of NK cell development
Michael A. Caligiuri, Ohio State University, NK cell development
Peter Parham, Stanford University, NK-cell immunogenetics: the art of fine tuning NK cell responses
Jeffrey S. Miller, University of Minnesota, NK cell therapy in cancer and transplantation

CAREER DEVELOPMENT PROGRAMS

AAI Education Committee Special Session

The NIH Grant Maze: Navigating Old Turns and New Twists
SATURDAY, MAY 9, 10:30 AM – 12:15 PM

Chair: Barry P. Sleckman, Washington University (St. Louis) School of Medicine, AAI Education Committee
Barry P. Sleckman, Associate Professor, Washington University (St. Louis) School of Medicine, Introduction
Cheryl A. Kitt, Deputy Director, Center for Scientific Review, NIH, NIH grant rules, obligations and changes every PI should know: an overview from CSR
Gail A. Bishop, Professor, University of Iowa, Chair, T3T Study Section, Notes from a study section chair: what it takes to rise to the top

Richard A. Pelroy, Program Director, NCI, The role of NIH institute program officials in the grant process

Education Committee and National Postdoctoral Association

Special Session: The Secrets to a Successful Postdoctoral Experience
MONDAY, MAY 11, 10:30 AM – 12:00 PM

Chair: Kira Ganett, AAI
Karen Peterson, Director of the Office of Scientific Career Development, Fred Hutchinson Cancer Research Center, The secrets to a successful postdoctoral experience

Education Committee and Committee on the Status of Women

Careers in Science: Lecture and Roundtable Discussion
SATURDAY, MAY 9, 1:30 - 3:30 PM

Chair: Christine Milcarek, University of Pittsburgh, Chair, AAI Committee on the Status of Women; Bonnie N. Dittel, BloodCenter of Wisconsin, Blood Research Institute
Speaker: Phyllis M. Wise, Provost and Executive Vice President, University of Washington
Learn about career options and successful paths to each in this afternoon session. Following Dr. Wise’s lecture, experienced scientists will serve as roundtable discussion leaders and offer one-on-one insight about specific career issues and options important to men and women in science today. Attendance will be limited to the first 300 registrants. For the complete list of roundtable topics, visit www.IMMUNOLOGY2009.org/index.htm#CareerRoundtable.
Registration, $10 fee required; dessert buffet and coffee included

Minority Affairs Committee

Careers and Networking Roundtable
SUNDAY, MAY 10, 11:00 AM – 12:30 PM

Chair: Randy R. Brutkiewicz, Indiana University School of Medicine, Chair, AAI Minority Affairs Committee
Don't miss this opportunity to meet one-on-one with senior minority immunologists to hear how they have handled the career challenges you now face. Learn what they believe will work for you today.
Registration, $10 fee required; box lunch included

Publications Committee

Course: Excellence in Scientific Writing
FRIDAY, MAY 8, 12:00 – 4:00 PM

Improve the quality of your publications and grant applications. This interactive half-day workshop will, through examples and class participation, focus on the essentials of effective writing and strategies for clear communication. Course is limited to 100 attendees.
Registration, $100 fee required

Scientific Publishing: Dos and Don'ts for Authors and Reviewers
SUNDAY, MAY 10, 12:30-2:30 PM

Chair: Robert D. Schreiber, Washington University (St. Louis) School of Medicine, Chair, AAI Publications Committee
Pamela J. Fink, University of Washington School of Medicine, Essentials for becoming a valued reviewer
JoAnne L. Flynn, University of Pittsburgh School of Medicine, The appropriate use of statistics in the biological sciences
Pamela A. Shaw, NIAID, NIH, The role of NIH institute program officials in the grant process

Jeremy M. Boss, Emory University School of Medicine, What do you mean I already published it? Ethics in scientific publishing
The American Association of Immunologists

AAI gratefully acknowledges the efforts of the AAI Program Committee in organizing IMMUNOLOGY 2009™

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COMPARATIVE IMMUNOLOGY
Simon Barratt-Boyes
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Professor, University of Texas Medical Branch

CYTOKINES AND CHEMOKINES AND THEIR RECEPTORS
Achsah Dorsey Keegan
Professor, University of Maryland School of Medicine
Thomas R. Malek
Professor, University of Miami Medical School

GENETIC AND EPIGENETIC REGULATION OF THE IMMUNE SYSTEM
Barbara K. Birshtein
Professor, Albert Einstein College of Medicine
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Professor, The Scripps Research Institute

HEMATOPOIESIS AND IMMUNE SYSTEM DEVELOPMENT
Avinash Bhandoola
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HOST DEFENSE AND INNATE IMMUNITY
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Rick L. Tarleton
Professor, University of Georgia

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## Councillors

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<td>Veterinary Immunology Committee, Montana State University</td>
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**AAI Courses in Immunology**

The American Association of Immunologists

**2009 Introductory Course in Immunology**

June 19-25, 2009

The University of Pennsylvania, Philadelphia, PA

*Don’t miss the most comprehensive introduction to immunology available!*

An intensive course taught by world-renowned teachers and researchers in immunology. This two-part course provides a comprehensive overview of the basics on immunology for students new to the discipline or seeking more information to complement general biology or science training. Upon completion, students will have the tools necessary to understand and discuss current concepts and methods in immunology.

Part I (June 19-22) is a comprehensive introduction to the basic principles of immunology and is suitable for students with a general biology background. Part II (June 23-25) is a lecture course covering major areas of immunology and will require an understanding of basic immunology. Parts I and II may be taken independently at the discretion of the student. Course and registration details to be announced.

*Course Director:* Terri M. Laufer, M.D., University of Pennsylvania School of Medicine

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July 26-31, 2009

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*Course Director:* Kristin A. Hogquist, Ph.D., University of Minnesota Center for Immunology

*Co-Course Director:* Yoji Shimizu, Ph.D., University of Minnesota Center for Immunology

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FOR MORE INFORMATION VISIT: [www.aai.org/Courses.htm](http://www.aai.org/Courses.htm)

If you have any questions, contact infoaai@aai.org or call 301-634-7178.

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The American Association of Immunologists proudly announces the 2009 recipients of AAI Awards for outstanding research and career achievements. The 2009 AAI Award winners will be recognized at the 96th AAI Annual Meeting, IMMUNOLOGY 2009™.

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*In recognition of distinguished scientific accomplishment and extraordinary service to AAI*

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The Tisch Cancer Institute, Mount Sinai Medical Center

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

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Baylor Institute for Immunology Research

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*For outstanding research contributions to the field of immunology*

Michael J. Bevan, Ph.D.
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For complete details on manuscript submission to *The JI*, please visit [www.jimmunol.org](http://www.jimmunol.org), contact *The JI* office at 301-634-7197, or email infoji@aai.org.
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