On BioLegend’s Customer Service team, Anjie takes pride in going above and beyond to ensure the satisfaction of each and every customer. Our team continually strives to provide the highest level of customer support in the industry.

Valuable Web & Mobile Tools
User-friendly Website
Sponsorships & Travel Awards

As technical service scientist, Deepak understands the many variables that impact an experiment. He listens closely and tries to think and feel like the customer does. This helps him to efficiently discern potential areas for improvement and provide the best possible scientific advice.

As a field technical scientist, Yufei helps his customers with prompt responses: answering questions, solving technical problems, and providing samples. He enjoys developing relationships of friendship and trust with his customers.

You are our Bottom Line.

World-Class Quality | Superior Customer Support | Outstanding Value
AAI President’s Address
FRIDAY, MAY 3, 6:00 PM
KĀLAKAUA BALLROOM AB

The Many Faces of TRAF Molecules in Immune Regulation
Gail A. Bishop, University of Iowa
AAI President

AAI President’s Symposium
SUNDAY, MAY 5, 3:15 PM
KĀLAKAUA BALLROOM C

The TNF Receptor Superfamily in Immune Regulation and Disease
Chair: Gail A. Bishop, University of Iowa, AAI President

Speakers:

Michael Croft, La Jolla Institute for Allergy & Immunology
Immunoregulatory activity in the TNF family

Tania H. Watts, University of Toronto, The TNFR family member GITR: striking a chord in anti-viral immunity

Carl F. Ware, Sanford-Burnham Medical Research Institute
Bending LIGHT and cytokines

Linda C. Burkly, Biogen Idec
The TWEAK/Fn14 pathway: a story from bench to bedside

SPECIAL CENTENNIAL SYMPOSIUM

MONDAY, MAY 6, 4:15 PM–6:15 PM
KĀLAKAUA BALLROOM AB

A Legacy of Excellence
Chair:
M. Michele Hogan, AAI Executive Director
Leo Lefrançois, University of Connecticut Health Center
AAI Program Committee Chair

Speakers:

Philippa Marrack
HHMI, National Jewish Health, The basics of immunology: where do(s)ould we go next?

David Baltimore
California Institute of Technology, Viruses and immunity: the tension of desire

Roger M. Perlmutter
Santa Barbara, CA
Building better medicines: immunology research and biopharmaceuticals

Anthony S. Fauci
NIHF, NIH, Three decades of HIV/AIDS science and policy: a personal journey
AAI DISTINGUISHED LECTURES

**AAI Excellence in Mentoring Award Presentation**

**SATURDAY, MAY 4, 5:15 PM, KĀLAKAUJA BALLROOM AB**

Chair: Gail A. Bishop, University of Iowa, AAI President

Award Recipient: Suzanne Ostrand-Rosenberg, Ph.D., University of Maryland, Baltimore County

The AAI Excellence in Mentoring Award recognizes exemplary career contributions to a future generation of scientists. The award will be presented prior to the start of Saturday’s AAI Distinguished Lecture.

**AAI Lifetime Achievement Award**

**SUNDAY, MAY 5, 3:15 PM, KĀLAKAUJA BALLROOM C**

Chair: Gail A. Bishop, University of Iowa, AAI President

Award Recipient: Katherine L. Knight, Ph.D., Loyola University Chicago, Stritch School of Medicine

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 President’s Symposium.

Special AAI Centennial Activities at IMMUNOLOGY 2013™

- Travel the **Centennial Timeline** spanning the exhibit hall floor, depicting important developments for AAI and immunology, science and technology, and U.S. and world history.
- Take the **Walk of Notables** to learn about the many Nobel, Lasker, and other distinguished awardees in the rich AAI legacy.
- Visit the **StoryBooth** with friends, colleagues, or mentors to record your stories and become part of AAI history.
- Seize the **VIP Photo Op** to have your picture taken with preeminent immunologists in the VIP Lounge.
- Enjoy the special festivities and entertainment scheduled for the AAI Centennial at the **Opening Night Welcome Reception** and AAI Centennial Celebration Luau.
Major Symposium A: Tissue-Resident Lymphocytes
Generously sponsored by Kyowa Hakko Kirin California, Inc.

KALAKAUA BALLROOM A

Chairs:
Francis R. Carbone, University of Melbourne
Wendy L. Havran, Scripps Research Institute

Speakers:
Francis R. Carbone, University of Melbourne
Tissue-resident memory T cell involvement in local immune protection
Wendy L. Havran, Scripps Research Institute
Crosstalk between epidermal-resident γδ T cells and epithelial cells
Adrian C. Hayday, King’s College London and London Research Institute of Cancer Research UK
Beneficial autoimmunity: the responses and regulation of intraepithelial T cells
Leo Lefrançois, University of Connecticut Health Center
Cooperation between TCRαβ and TCRγδ T cells provides protective intestinal immunity
David Masopust, University of Minnesota
Resident memory CD8 T cell function in mucosal tissues
Hilde Cheroutre, La Jolla Institute for Allergy & Immunology
CD4 CTL: a major new player in health and disease

Major Symposium B: Antigen Receptor Signaling: Triggering Eruptions on Quiescent Cell Surfaces

KALAKAUA BALLROOM B

Chairs:
Susan K. Pierce, NIAID, NIH
Arthur Weiss, HHMI, University of California, San Francisco

Speakers:
Susan K. Pierce, NIAID, NIH
The initiation of B cell receptor signaling
Facundo Batista, Cancer Research UK London Research Institute
Dynamic imaging of lymphocyte activation: from single molecule to living tissue
Louis M. Staudt, NCI, NIH
Pathological B cell receptor signaling in lymphoid malignancies
Arup K. Chakraborty, Massachusetts Institute of Technology
Early events in TCR signaling at the membrane
Takashi Saito, RIKEN Research Center for Allergy and Immunology, Yokohama, Japan
Dynamic regulation and modulation of T cell activation
Arthur Weiss, HHMI, University of California, San Francisco
Regulating tyrosine phosphorylation pathways controlled by antigen receptors

Major Symposium C: CD4 T Cell Commitment and Plasticity: Fundamental Processes and Translational Applications

KALAKAUA BALLROOM A

Chairs:
William E. Paul, NIAID, NIH
Anuradha Ray, University of Pittsburgh School of Medicine

Speakers:
William E. Paul, NIAID, NIH
The CD4 T cell differentiation system
John J. O’Shea, NIAMS, NIH
Transcriptional and epigenetic control of helper cell specification
K. Mark Ansel, University of California, San Francisco
MicroRNA regulation of helper T cell responses
Shimon Sakaguchi, Immunology Frontier Research Center, Osaka University
Epigenetics and plasticity of regulatory T cells
Megan K. Levings, University of British Columbia
CD4 T cell plasticity in health and chronic skin disease
Anuradha Ray, University of Pittsburgh School of Medicine
Challenges to Treg commitment influencing disease susceptibility

Major Symposium D: Innate Immune Surveillance of Cellular Stress and Injury

KALAKAUA BALLROOM B

Chairs:
Kenneth L. Rock, University of Massachusetts Medical School
Julie Magarian Blander, Mount Sinai School of Medicine

Speakers:
Julie Magarian Blander, Mount Sinai School of Medicine
Introduction
Kenneth L. Rock, University of Massachusetts Medical School
Inflammasome-dependent and independent pathways of sterile inflammation
Guido Kroemer, University of Paris Descartes
Immunogenic cell death and its perception by innate immune effectors
Tiffany Horng, Harvard School of Public Health
Mitochondria, stress responses, and inflammation
Kodi S. Ravichandran, University of Virginia
Metabolic connections during apoptotic cell clearance
Kevin J. Tracey, Feinstein Institute for Medical Research
Neural arcs that control HMGB1, sterile inflammation, and innate immunity
Thirumala-Devi Kanneganti, St. Jude Children’s Research Hospital
Mediators of inflammatory responses
MONDAY, MAY 6, 8:00 AM - 11:30 AM

Major Symposium E: The Battle Within: Viral and Intracellular Bacterial Pathogenesis

KÁLAKAU BALLROOM A

Chairs:
- Bruce D. Walker, Ragon Institute of MGH, MIT, and Harvard
- Denise M. Monack, Stanford University

Speakers:
- Denise M. Monack, Stanford University
  The tug-of-war between intracellular Salmonella and the macrophage
- Mary O’Riordan, University of Michigan Medical School
  Dealing with stress: mobilization of antimicrobial defenses through engagement of ER stress circuitry
- Gregory M. Barton, University of California, Berkeley
  Microbes and innate immunity
- Bruce D. Walker, Ragon Institute of MGH, MIT, and Harvard
  T cell control of HIV
- Sara Cherry, University of Pennsylvania, Perelman School of Medicine
  Using RNAs screening to identify cell-intrinsic innate immune pathways
- Herbert W. Virgin, Washington University School of Medicine
  The virome in health and disease

Major Symposium F: Therapy of Human Autoimmune and Inflammatory Diseases: Emerging Concepts

KÁLAKAU BALLROOM B

Chairs:
- Andrew C. Chan, Genentech, Inc.
- Anne Davidson, Feinstein Institute for Medical Research

Speakers:
- Anne Davidson, Feinstein Institute for Medical Research
  The predictive value of SLE animal models: the story of belimumab
- Brian L. Kotzin, Amgen, Inc.
  Development of new therapeutics for inflammatory diseases
- Jeffrey A. Bluestone, University of California, San Francisco
  Bringing Tregs to the clinic in autoimmune and transplantation
- Tamiko R. Katsumoto, University of California, San Francisco
  The tyrosine phosphatase CD148 reveals a role for Src family kinases in asthma and pulmonary fibrosis
- Judy H. Cho, Yale University
  Do patterns of genetic associations predict therapeutic responses across immune-mediated diseases?
- Andrew C. Chan, Genentech, Inc.
  Personalizing medicine to meet the challenges of drug discovery and development

TUESDAY, MAY 7, 8:30 AM – 12:00 PM

Major Symposium G: Understanding Interactions between the Immune System and Cancer: The Road to Immunotherapy

KÁLAKAU BALLROOM A

Chairs:
- José R. Conejo-Garcia, Wistar Institute
- Olivera J. Finn, University of Pittsburgh School of Medicine

Speakers:
- José R. Conejo-Garcia, Wistar Institute
  Polymorphisms in pattern recognition receptors modulate antitumor immunity and alter malignant progression
- David G. DeNardo, Washington University School of Medicine
  Targeting tumor infiltrating macrophages decreases pancreatic tumor-initiating cells and improves chemotherapeutic response
- Randolph J. Noelle, Geisel School of Medicine at Dartmouth and King’s College London
  Liberating the immune system by interrupting VISTA function
- Ronald Levy, Stanford School of Medicine
  Monoclonal antibodies for the treatment of cancer: targeting the tumor and the immune system
- Crystal L. Mackall, NCI, NIH
  Emerging immunotherapies for pediatric cancer
- Olivera J. Finn, University of Pittsburgh School of Medicine
  Immuno-surveillance and immunoprevention of non-viral cancers

Major Symposium H: TGF-β: Master Regulator of Immunity

KÁLAKAU BALLROOM B

Chairs:
- Ming Li, Memorial Sloan-Kettering Cancer Center
- Elina Zuniga, University of California, San Diego

Speakers:
- Ming Li, Memorial Sloan-Kettering Cancer Center
  TGF-β control of immune homeostasis
- Adam Lacy-Hulbert, Massachusetts General Hospital/Harvard Medical School
  Regulation of TGF-β activation by DCs in immunity
- Michael J. Bevan, HHMI, University of Washington
  Controlling T cell responses against self
- Alexander Y. Rudensky, HHMI, Memorial Sloan-Kettering Cancer Center
  Regulatory T cells and TGF-β
- Paula M. Oliver, University of Pennsylvania
  Ubiquitin regulation of iTreg differentiation
- Elina Zuniga, University of California, San Diego
  Immune regulation during chronic viral infection
**IMMUNOLOGY 2013™ OPENING NIGHT WELCOME RECEPTION**

Generously sponsored by eBioscience, an Affymetrix Company

**FRIDAY, MAY 3, 7:00 PM – 9:00 PM**
**ROOFTOP GARDEN, HAWAII CONVENTION CENTER**

The Opening Night Welcome Reception ignites the historic AAI Centennial Celebration! Come directly from the President’s Address to the stunning Roofop Garden of the Hawaii Convention Center to reunite with friends, make new acquaintances, enjoy the spectacular beauty of Hawaii, and plan your week.

---

**PRESIDENT’S SERVICE APPRECIATION RECEPTION**

Generously sponsored by BioLegend

**SUNDAY, MAY 5**
**6:30 PM – 8:30 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 to 2012–2013 AAI volunteers, by invitation only.**

---

**AAI NEW MEMBER BREAKFAST**

**SATURDAY, MAY 4, 6:45 AM – 7:30 AM**

AAI wishes to welcome new Regular and Trainee members joining AAI for the first time. AAI President Gail Bishop and other AAI leaders look forward to meeting you personally. Please join us for light refreshments and casual conversation. **Event by invitation only.**

---

**IMMUNOLOGY 2013™ GALA AAI CENTENNIAL CELEBRATION LUAU**

Generously sponsored by BioLegend

**MONDAY, MAY 6, 6:30 PM – 9:00 PM**
**HILTON HAWAIIAN VILLAGE, GREAT LAWN**

The IMMUNOLOGY 2013™ Gala will be an enchanting evening honoring the 100th anniversary of AAI. You’ll revel in the splendor and soft breezes of the lagoon setting while feasting sumptuously on our Polynesian luau buffet. Your options during the evening can include learning how to make leis, weave palms, and, of course, hula. Festivities will also include the “Escape to Paradise” program, featuring vibrant Hawaiian singers and colorfully costumed dancers whose precision movements portray the proud history of the Hawaiian people. Capping this most memorable evening will be a magnificent display of fireworks across the evening sky.
AAI-Steinman Award for Human Immunology Research Presentation and Lecture

SATURDAY, MAY 4, 2:15 PM – 3:15 PM
KALAKAUA BALLROOM C

Chair:
Gail A. Bishop, University of Iowa; AAI President

Award Recipient:
Barton F. Haynes, M.D., Duke University School of Medicine
*The path to development of an HIV-1 vaccine*

AAI President Gail A. Bishop will introduce the awardee and present the award immediately prior to Dr. Haynes’s lecture.

AAI-BD Biosciences Investigator Award Presentation and Lecture

Generously sponsored by BD Biosciences, Inc.

SATURDAY, MAY 4, 4:00 PM – 5:00 PM
KALAKAUA BALLROOM C

Chair:
Gail A. Bishop, University of Iowa; AAI President

Award Recipient:
David Artis, Ph.D., University of Pennsylvania, Perelman School of Medicine
*Regulation of innate and adaptive immunity at barrier surfaces*

AAI President Gail A. Bishop and BD Biosciences Vice President of Biological Sciences Robert Balderas will introduce the awardee and present the award immediately prior to Dr. Artis’s lecture.

AAI-Life Technologies Meritorious Career Award Presentation and Distinguished Lecture

Generously sponsored by Life Technologies Corporation

SUNDAY, MAY 5, 5:15 PM – 6:00 PM
KALAKAUA BALLROOM C

Chair:
Gail A. Bishop, University of Iowa; AAI President

Award Recipient:
Jenny P-Y. Ting, Ph.D., University of North Carolina at Chapel Hill
*The broad impact of NLRs on immunity and beyond*

AAI President Gail A. Bishop and a representative of Life Technologies Corporation will introduce the awardee and present the award immediately prior to Dr. Ting’s lecture.

AAI BUSINESS MEETING AND AWARD PRESENTATIONS

MONDAY, MAY 6, 1:00 PM – 2:30 PM

This session will include the annual report to AAI members on AAI and *The Journal of Immunology* business affairs and will feature special 2013 AAI award presentations and acknowledgments. Refreshments will be provided.

AAI Distinguished Service Award Recipients

Prosper N. Boyaka, Ph.D.
Ohio State University
For outstanding service to AAI as member and chair of the AAI Minority Affairs Committee, 2006–2012

Derry C. Roopenian, Ph.D.
Jackson Laboratory
For outstanding service to AAI as member and chair of the AAI Committee on Public Affairs, 2005–2012

AAI annually provides travel awards and grants to recognize the promise and bolster the professional development of young investigators, trainees, and under-represented minority scientists and trainees.

- **AAI-Life Technologies Trainee Achievement Awards**
- **Chambers-eBioscience Memorial Award**
- **Lustgarten-eBioscience Memorial Award**
- **Pfizer-Showell Travel Award**
- **AAI Early Career Faculty Travel Grants**
  - Sponsored in part by BD Biosciences
- **AAI Undergraduate Faculty Travel Grants**
- **AAI Laboratory Travel Grants**
  - Sponsored in part by BD Biosciences
- **AAI Minority Scientist Travel Awards**
  - Sponsored by FASEB MARC Program under a grant from NIGMS, NIH [FASEB MARC Program: T36-GM08059-30]
- **AAI Trainee Abstract Awards**
- **AAI Trainee Poster Awards**

For information on all AAI Awards, visit [www.aai.org/Awards](http://www.aai.org/Awards)
BLOCK SYMPOSIA
Selected abstracts are programmed into oral sessions called Block Symposia. Each Block Symposium is made up of approximately eight selected abstracts. Approximately 84 Block Symposia are programmed for this annual meeting.

POSTERS
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 Hawaii Convention Center Kamehameha II & III Exhibit Halls from 9:30 AM to 3:30 PM.

- Dedicated Daily Poster Presentation from 11:45 AM to 1:00 PM! No concurrent symposia, presentations, or other sessions will be held during the poster presentations at this time.
- Accepted posters may be displayed for the duration of the meeting! Authors are encouraged to leave their posters up throughout IMMUNOLOGY 2013™.

EXHIBITOR WORKSHOPS
Take advantage of the opportunity provided by the Exhibitor Workshops to explore exhibitors’ latest technologies, products, and services. Workshops are planned and conducted by exhibitors; the listing of these workshops does not constitute endorsement of any products or services by AAI.

PROMOTIONAL VIDEOS
Be sure to catch the promotional videos of exhibitors’ new products. Videos will be run on video monitors located throughout the convention center.

Promotional videos are planned and created by exhibitors; the listing of these videos does not constitute endorsement of any products or services by AAI.
As scientists, we conduct research not simply for the thrill of discovery but in the fervent hope that our findings will one day improve human and/or animal health. But our work—and the entire scientific enterprise—depends on the federal funding that flows from taxpayer dollars. And many taxpayers do not understand what we do, while others doubt fundamental scientific theories. We must communicate better what we do, what it means, and why it matters to the public.

In this session, NPR Science Correspondent Joe Palca and Olja Finn, former AAI president, will share their views on, and experiences with, communicating science and discuss the challenges of bringing important scientific information to lay audiences. Attendees will have the opportunity to ask questions.
AAI COMMITTEE-SPONSORED SESSIONS

AAI Education Committee & AAI Committee on the Status of Women

Careers in Science Roundtable
SUNDAY, MAY 5, 1:00 PM – 2:00 PM

Chair: Scheherazade Sadegh-Nasseri, Johns Hopkins University School of Medicine; Chair, AAI Committee on the Status of Women

Registration Fee: $20 (Lunch included)

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. Choose from topics related to the environment in which you work (academic research, biotech industry, governmental agencies), the transitions between specific career stages, or issues in balancing career and family in any career path. Don’t miss this great networking opportunity!

Discussion topics and table leaders:
- Research Careers in Academia
  - Graduate Student to Postdoc: finding a postdoc, interviewing
    Table Leaders: Michele M. Kosiewicz, University of Louisville; Michelle A. Parent, University of Delaware
  - Postdoc to PI: finding a position, interviewing, negotiating, lab start-up
    Table Leaders: Carolina B. Lopez, University of Pennsylvania School of Veterinary Medicine; Shabaana A. Khader, Children’s Hospital of Pittsburgh, UPMC
  - New PI: attracting students and postdocs, preparing for tenure
    Table Leader: Nilabh Shastri, University of California, Berkeley
  - So I won’t get tenure: now what?
    Table Leader: Virginia Shapiro, Mayo Clinic
  - Undergraduate Institutions: finding the balance in teaching, doing research
    Table Leaders: James E. Riggs, Rider University; Devavani Chatterjeea, Macalaster College
- Mentoring Effectively
  Table Leaders: Janice S. Blum, Indiana University School of Medicine; Dorina Avram, Albany Medical College
  Table Leader: Donna L. Farber, Columbia University Medical Center
- Career and Family: time management, family leave, professional couples
  Table Leaders: Scheherazade Sadegh-Nasseri, Johns Hopkins University School of Medicine; Susan Kovats, Oklahoma Medical Research Foundation
  Table Leaders: Mary E. Keir, Genentech
- Careers at Governmental Agencies (FDA/NIH/USDA/CDC)
  Table Leaders: Carol H. Pontzer, NCCAM, NIH; A. Andrew Hurwitz, NCI, NIH
- Non-research Careers: focus for 2013, science writing
  Table Leader: TBA
- The Physician Scientist: balancing clinical and research duties
  Table Leader: TBA

AAI Membership Committee

New Member Breakfast
SATURDAY, MAY 4, 6:45 AM – 7:25 AM

AAI wishes to welcome new Regular and Trainee members joining AAI for the first time. AAI President Gail Bishop and other AAI leaders look forward to meeting you personally. Please join us with your invitation in-hand for light refreshments and casual conversation. Event by invitation only.

AAI Minority Affairs Committee

Careers and Networking Roundtable
SATURDAY, MAY 4, 1:00 PM – 2:30 PM

Chair: Adriana T. Larregina, University of Pittsburgh; Chair, AAI Minority Affairs Committee

Registration Fee: $20 (Lunch included)

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

Discussion topics and table leaders:
- Grad Student: finding a mentor; taking aim at postdoc training
  Table Leaders: Gregory B. Carey, University of Maryland, Baltimore; Santiago Partida-Sanchez, Nationwide Children’s Hospital
  Postdoc: finding a mentor; taking aim at a faculty position
  Table Leader: Jose Conejo-Garcia, Wistar Institute; Jose A. Guevara-Patino, Loyola University Chicago; Margaret S. Bynoe, Cornell University
- Junior Faculty: preparing for promotion and tenure
  Table Leaders: Adriana T. Larregina, University of Pittsburgh; Esteban Celis, Moffitt Cancer Center, University of South Florida
- Academia or Industry: how to decide (or switch sides)
  Table Leaders: Cherie L. Butts, Biogen Idec; Jonathan A. Deane, Genomics Institute of the Novartis Research Foundation
- Government Agency Careers: CDC, FDA, NIH
  Table Leaders: TBA
- Non-Research Careers: science journalism, patent law, biomedical entrepreneurship
  Table Leader: John Emrich, AAI

AAI Minority Affairs Committee Guest Lecture
MONDAY, MAY 6, 2:00 PM – 3:00 PM

Generously supported through a grant to the Federation of American Societies for Experimental Biology (FASEB) from the National Institute of General Medical Sciences, NIH [FASEB MARC Program: T36-GM08059-30]

Chair: Adriana T. Larregina, University of Pittsburgh; Chair, AAI Minority Affairs Committee

Speakers: Esteban Celis, Moffitt Cancer Center, University of South Florida

The long road to effective peptide vaccines for cancer: learning from infectious diseases and autoimmunity
AAI Publications Committee Symposium

Editor’s Choice: The JI 2012
SATURDAY, MAY 4, 1:00 PM – 3:00 PM

Chair:
Jerry M. Boss, Emory University; Editor-in-Chief, The Journal of Immunology

Speakers:
Mark H. Kaplan, Indiana University School of Medicine
Transcriptional regulation in Th9 cells

Jane H. Buckner, Benaroya Research Institute at Virginia Mason
Genetic variants associated with autoimmunity result in altered B cell homeostasis and function

Hirohito Kita, Mayo Clinic Rochester
Innate type 2 lymphoid cells in immunity and allergic airway inflammation

Emily Corse, MD Anderson Cancer Center
Expression of Helios in peripherally induced Foxp3+ regulatory T cells

This symposium will feature speakers whose work, published in The Journal of Immunology in 2012, was selected by the editors as outstanding reports of general interest to the immunology community. The authors will give a brief overview of the published results and then bring the audience up to date on research carried out on these topics since the articles appeared.

AAI Veterinary Immunology Committee & American Association of Veterinary Immunologists (AAVI) Joint Symposium

Natural Animal Models of Human Disease
MONDAY, MAY 6, 1:00 PM – 3:00 PM

Chairs:
Simon M. Barratt-Boyes, University of Pittsburgh; Chair, AAI Veterinary Immunology Committee
Susan D. Eicher, Livestock Behavior Research Unit, ARS, USDA

Speakers:
Wendy C. Brown, Washington State University College of Veterinary Medicine
Dysregulated T cell responses induced by a persistent bacterial pathogen of cattle

Guido Silvestri, Yerkes National Primate Research Center, Emory University School of Medicine
Understanding AIDS by studying natural SIV infections

Daniel R. Perez, University of Maryland, College Park
Of men, pigs, birds, and...flu

Carol Reinero, University of Missouri College of Veterinary Medicine
What spontaneous and experimental feline asthma can teach us about human asthma

Traditional rodent models often do not recapitulate human disease, and performing research directly in humans presents its own set of practical limitations and ethical concerns. Research in nonhuman primates and domestic animal species fills this void and has provided major advances in our understanding of diseases of both humans and animals. This symposium will illustrate the value of a range of natural animal models of human infectious and immunologic diseases.
**National Institute of Allergy and Infectious Diseases (NIAID) Symposium**

**Current Progress: Development and Maintenance of Long-Lived Plasma Cells**

**SUNDAY, MAY 5, 1:00 PM – 3:00 PM**

**Chairs:**
- Stacy E. Ferguson, NIAID, NIH
- Michael G. McHeyzer-Williams, Scripps Research Institute

**Speakers:**
- Christopher C. Goodnow, Australia National University
  IgD, anergy, and the germinal center versus plasma cell decision
- Michael G. McHeyzer-Williams, Scripps Research Institute
  Programming effective plasma cell responses
- David M. Allman, University of Pennsylvania
  Role of short-lived bone marrow plasma cells in long-lived immunity
- Jan Erikson, Wistar Institute
  Plasma cell induction following respiratory tract infection
- Discussion with all participants, Discussion of gaps in understanding plasma cell biology

**National Institute of Environmental Health Sciences (NIEHS) Symposium**

**Impact of Environmental Exposures on Immune Function**

**SATURDAY, MAY 4, 1:00 PM – 3:00 PM**

**Chairs:**
- Michael C. Humble, NIEHS, NIH
- Prakash Nagarkatti, University of South Carolina at Columbia

**Speakers:**
- Scott W. Burchiel, University of New Mexico Health Sciences Center
- Nancy I. Kerkvliet, Oregon State University
  Immunosuppression associated with the combined exposure to polycyclic aromatic hydrocarbons (PAHs) and arsenite
- Mitzi Nagarkatti, University of South Carolina at Columbia
  The role of microRNA and epigenetic regulation of T cell dysfunction following prenatal exposure to DES
- Stephen B. Pruett, Mississippi State University
  Mechanisms of immunotoxicity of sodium methyldithiocarbamate: unexpected observations on the role of oxidative stress in inflammation and innate immunity

**National Institute on Aging (NIA) Symposium**

**Aging, Cancer, and Immunosenescence**

**MONDAY, MAY 6, 9:45 AM – 11:45 AM**

**Chairs:**
- Rebecca A. Fuldner, NIA, NIH
- Graham Pawelec, University of Tübingen

**Speakers:**
- Graham Pawelec, University of Tübingen
  Is there an “Immune Risk Profile” in cancer and aging?
- Judith Campisi, Buck Institute for Research on Aging
  Inflammation caused by senescent cells: a link between age-related cancer and degeneration?
- Tyler J. Curiel, University of Texas Health Science Center, San Antonio
  Tailoring age-optimized cancer immunotherapy: early insights
- Marcel R. M. van den Brink, Memorial Sloan-Kettering Cancer Center and Weill Medical College of Cornell University
  Strategies to reverse thymic involution

**American Association of Veterinary Immunologists (AAVI) & AAI Veterinary Immunology Committee Joint Symposium**

**Natural Animal Models of Human Disease**

**MONDAY, MAY 6, 1:00 PM – 3:00 PM**

**Chairs:**
- Simon M. Barratt-Boyes, University of Pittsburgh; Chair, AAI Veterinary Immunology Committee
- Susan D. Eicher, Livestock Behavior Research Unit, ARS, USDA

**Speakers:**
- Wendy C. Brown, Washington State University College of Veterinary Medicine
  Dysregulated T cell responses induced by a persistent bacterial pathogen of cattle
- Guido Silvestri, Yerkes National Primate Research Center, Emory University School of Medicine
  Understanding AIDS by studying natural SIV infections
- Daniel R. Perez, University of Maryland, College Park
  Of men, pigs, birds, and...flu
- Carol Reinero, University of Missouri College of Veterinary Medicine
  What spontaneous and experimental feline asthma can teach us about human asthma
American Society of Transplantation (AST) Symposium

Achieving and Detecting Tolerance in Transplant Patients
SUNDAY, MAY 5, 1:00 PM – 3:00 PM

Chairs:
Jonathan S. Maltzman, University of Pennsylvania
Mandy L. Ford, Emory University

Speakers:
Bruce R. Blazar, University of Minnesota
Regulatory T cell therapy in clinical bone marrow transplantation
Sandi Feng, University of California, San Francisco
Withdrawal of immunosuppression from the operationally tolerant patient
Joseph R. Levanthal, Northwestern University
Inducing tolerance in mismatched kidney transplant recipients
Kenneth A. Newell, Emory University School of Medicine
Identifying tolerance signatures in kidney transplant recipients

Australasian Society for Immunology (ASI) Symposium

Lymphocyte Differentiation Following Immunization
SUNDAY, MAY 5, 1:00 PM – 3:00 PM

Chairs:
Meredith O’Keefe, Burnet Institute
John Stambas, Deakin University

Speakers:
Scott N. Mueller, University of Melbourne
Dynamic intravital imaging of tissue-resident memory T cells during immunosurveillance and recall responses
Kim L. Good-Jacobson, Walter & Eliza Hall Institute
c-Myb is required for plasma cell migration to the bone marrow during an immune response
Jonathan M. Coquet, Flanders Institute, Ghent
The CD27 and CD70 costimulatory pathway inhibits effector function of Th17 cells and attenuates associated autoimmunity
Susan Johnson, University of Geneva
Functionally “exhausted” CD8+ T cell populations help resolve chronic viral infection
Stephanie Gras, Monash University
Structural basis of viral escape in influenza

Canadian Society for Immunology (CSI) Symposium

Cytokine Regulation of Immunity
SUNDAY, MAY 5, 9:45 AM – 11:45 AM

Chairs:
Ninan Abraham, University of British Columbia
Nathalie Labrecque, Université de Montréal

Speakers:
Ninan Abraham, University of British Columbia
Immune regulation by the IL-7-related cytokines
Valérie Abadie, Sainte-Justine Hospital Research Centre
Impact of IL-15 dysregulation on celiac disease pathogenesis
Georgia Perona-Wright, University of British Columbia
Cytokine versus receptor in the control of cytokine signaling
Christopher J. Paige, Ontario Cancer Institute
IL-12 conducts an anti-cancer quartet
Nathalie Labrecque, Université de Montréal
Circadian regulation of cytokine production by T cells

Chinese Society of Immunology (ChSI) Symposium

Molecular Regulation of Innate Response and Inflammation
SATURDAY, MAY 4, 3:15 PM – 5:15 PM

Chairs:
Xuetao Cao, Chinese Academy of Medical Sciences, Beijing
Olivera J. Finn, University of Pittsburgh School of Medicine

Speakers:
Xuetao Cao, Chinese Academy of Medical Sciences, Beijing
Regulation of innate signaling in the immunity and inflammation
Zhengfam Jiang, Peking University
Regulation of virus-induced innate immunity
Youcun Qian, Institute of Health Sciences, Chinese Academy of Sciences, and Shanghai Jiaotong University School of Medicine
IL-17 family cytokines and inflammation
Wenwei Tu, University of Hong Kong
Gammadelta T cells: unpolished sword in human antiviral immunity
Jiyan Zhang, Chinese Academy of Military Medical Sciences
RACK1 in cytokine production and inflammation

German Society for Immunology (DGfI) Symposium

Innate Lymphocytes in Health and Disease
SUNDAY, MAY 5, 3:15 PM – 5:15 PM

Chairs:
Hans-Martin Jäck, University of Erlangen
Andreas Radbruch, Rheumatism Research Center (DRFZ), Berlin

Speakers:
Andreas Diefenbach, University of Freiburg
Transcriptional control of innate lymphocyte fate decision
Barbara Rehermann, NIDDK, NIH
Natural killer cells in hepatitis C virus infection
Immo Prinz, Medical University Hannover
Immune regulation by interleukin-17-producing γδ T cells
Dieter Kabelitz, University of Kiel
Plasticity of human γδT cells

MAY 3–7, 2013 | HAWAII CONVENTION CENTER | HONOLULU, HAWAII | WWW.IMMUNOLOGY2013.ORG
**International Society for Interferon and Cytokine Research (ISICR) Symposium**

**Interferons and Innate Immunity**
TUESDAY, MAY 7, 9:45 AM – 11:45 AM

**Chairs:**
- Eleanor N. Fish, University Health Network and University of Toronto
- Bryan R. G. Williams, Monash Institute of Medical Research

**Speakers:**
- Iain L. Campbell, University of Sydney
  - Type I IFN signaling in the host response to virus infection
- Hilario Ramos, University of Washington
  - The convergence of IL-1 and type I IFN signaling in antiviral immunity
- Meredith O’Keeffe, Burnet Institute
  - The role of IFN-λ in dendritic cell activation
- Laurel L. Lenz, National Jewish Health and University of Colorado Denver
  - Regulation of myeloid cell responsiveness to IFN-γ by type I IFNs
- Dane Parker, Columbia University Medical Center
  - Type I IFN and Staphylococcus aureus
- Bryan R. G. Williams, Monash Institute of Medical Research
  - Regulation of IFN and cytokine signaling and action of PLZF
- Eleanor N. Fish, University Health Network and University of Toronto
  - Type I IFNs: master regulators of the immune response to virus infection

**Japanese Society for Immunology (JSI) Symposium**

**Molecular Basis of Chronic Inflammation**
SUNDAY, MAY 5, 3:15 – 5:15 PM

**Chairs:**
- Takashi Saito, RIKEN Center for Allergy and Immunology
- Toshinori Nakayama, Chiba University

**Speakers:**
- Kensuke Miyake, University of Tokyo
  - TLR logistics by Ucm3D1 as a mechanism regulating autoimmunity
- Akira Shibuya, University of Tsukuba
  - Inhibitory immunoreceptors in inflammatory diseases
- Kiyoshi Takeda, Osaka University
  - Regulation of gut homeostasis by innate immunity
- Toshinori Nakayama, Chiba University
  - Generation and maintenance of pathogenic memory CD4 T cells

**Korean Association of Immunologists (KAI) Symposium**

**Regulatory Mechanism of Immune Homeostasis**
MONDAY, MAY 6, 9:45 AM – 11:45 AM

**Chairs:**
- Myung-Shik Lee, Samsung Medical Center
- Eun Sook Hwang, Ewha Womans University

**Speakers:**
- Myung-Shik Lee, Samsung Medical Center
  - Autophagy, inflammation, and metabolism
- Eun-Kyeong Jo, Chungnam National University School of Medicine
  - Autoimmunity and innate immunity in mycobacterial infection
- Chang-Duk Jun, Gwangju Institute of Science and Technology (GIST)
  - IGSF4/CADM1 regulates both T cell activation and homing
- Eun Sook Hwang, Ewha Womans University
  - Crucial roles of Lysine 313 of T-box in T-bet
- Sin-Hyeog Im, Gwangju Institute of Science and Technology (GIST)
  - Ets1 as a key regulator of atopic dermatitis

**Mexican Society for Immunology (MSI) Symposium**

**Development of Novel Adjuvants and Immunomodulators**
SUNDAY, MAY 5, 3:15 PM – 5:15 PM

**Chairs:**
- Constantino López-Macías, National Medical Centre “Siglo XXI,” Mexican Social Security Institute
- Laura Bonifaz, National Medical Centre “Siglo XXI,” Mexican Social Security Institute

**Speakers:**
- Laura Bonifaz, National Medical Centre “Siglo XXI,” Mexican Social Security Institute
  - Skin immunization using the cholera toxin as adjuvant
- Gladys Fragoso, National Autonomous University of Mexico
  - The cysticeri-derived peptide GK1 is able to modulate the immune response: considerations of its adjuvant properties for vaccine development
- Ignacio Terrazas, National Autonomous University of Mexico
  - Regulation of inflammatory diseases by cestode antigens: multiple receptors and a possible common pathway
- Mayra Pérez, National School of Biological Sciences, National Polytechnic Institute (Mexico)
  - Present and future of immunomodulatory peptides obtained from dialyzable leukocyte extracts
- Constantino López-Macías, National Medical Centre “Siglo XXI,” Mexican Social Security Institute
  - Use of Salmonella porin as novel adjuvants for vaccine development
**Society for Glycobiology (SFG) Symposium**

**Glycan Recognition in Regulation of Innate and Adaptive Immunity**

**SUNDAY, MAY 5, 9:45 AM – 11:45 AM**

**Chair:**
James C. Paulson, Scripps Research Institute

**Speakers:**
Dennis R. Burton, Scripps Research Institute

*How antibodies breach the glycan shield of HIV*

Gabriel A. Rabinovich, Institute of Biology and Experimental Medicine (IBYME-CONICET)

*Regulatory circuits in autoimmunity and cancer mediated by galectin-glycan interactions*

Yvette van Kooyk, Vrije Universiteit Medical Center Amsterdam

*Glycans for improving skin vaccination strategies*

Matthew S. Macauley, Scripps Research Institute

*Siglec-induced B cell tolerance and therapeutic potential*

Jeffrey V. Ravetch, Rockefeller University

*The role of glycans in antibody activity*

**Society for Immunotherapy of Cancer (SITC) Symposium**

**Cancer Immunotherapy 2013: Overcoming Barriers to Adaptive Immunity**

**SATURDAY, MAY 4, 9:45 AM – 11:45 AM**

**Chairs:**
Thomas F. Gajewski, University of Chicago

Francesco M. Marincola, NIH

**Speakers:**
Robert D. Schreiber, Washington University School of Medicine

*Cancer immunoediting: antigens, mechanisms, and therapeutic implications*

Nicholas P. Restifo, NCI, NIH

*T cell adoptive transfer*

Philip D. Greenberg, University of Washington

*Creating high avidity T cells for targeting tumors*

Thomas F. Gajewski, University of Chicago

*Innate and adaptive immune regulation within the tumor microenvironment*

Julie R. Brahmer, Johns Hopkins University School of Medicine

*PD-1/PD-L1 axis*

**Society of Mucosal Immunology (SMI) Symposium**

**Innate Immunity at Mucosal Surfaces**

Partially supported by Mucosal Immunology Studies Team (MIST)

**MONDAY, MAY 6, 1:00 PM – 3:00 PM**

**Chairs:**
Ifor Williams, Emory University

Joanne Viney, Biogen Idec

**Speakers:**
David Artis, University of Pennsylvania, Perelman School of Medicine

*Innate immune regulation at barrier surfaces*

Hiroshi Ohno, RIKEN Research Center for Allergy and Immunology

*Function and differentiation of M cells, a unique subset of intestinal epithelial cells specialized for mucosal antigen uptake*

Yasmine Belkaid, NIAID, NIH

*Memory responses against commensals*

Charles L. Bevins, University of California, Davis

*Strategies of defensin-mediated innate immunity in the small intestine*

**The Obesity Society (TOS) Symposium**

**Immunometabolism: The Role of the Immune System in Obesity and Type 2 Diabetes**

**SATURDAY, MAY 4, 9:45 AM – 11:45 AM**

**Chairs:**
Barbara S. Nikolajczyk, Boston University School of Medicine

Gerald V. Denis, Boston University School of Medicine

**Speakers:**
Carey N. Lumeng, University of Michigan

*Adipose tissue macrophage activation in obesity*

Alyssa Hasty, Vanderbilt University

*Function of resident macrophages in adipose tissue homeostasis*

Barbara S. Nikolajczyk, Boston University School of Medicine

*Lymphocyte functions in type 2 diabetes*

Gerald V. Denis, Boston University School of Medicine

*Unresolved, chronic inflammation as a critical link between insulin-resistant obesity and the obesity-associated cancers*

Bonnie B. Blomberg, University of Miami Miller School of Medicine

*Biomarkers for human B cell responsiveness to influenza vaccine in elderly and type 2 diabetics*
Through workshops, roundtables, and one-on-one counseling, IMMUNOLOGY 2013™ provides critical career development programs. Career sessions and services this year include:

- Careers in Biotech: Panel Discussion and Networking
- Careers in Science Networking Roundtables (2)
- How to Convert Your CV into a Resumé
- Interviewing for a Job
- Secrets for a Successful Postdoctoral Fellowship
- Online and on-site Jobs Board free to meeting registrants and exhibitors

**Careers in Biotech: Panel Discussion and Networking**

**SATURDAY, MAY 4, 6:30 PM – 8:00 PM**

**Chair:**
Steven M. Varga, University of Iowa

**Panelists:**
- Kerry A. Casey, Scientist I, MedImmune
- Michael P. Crowley, Director, Business Development, Genentech, Inc.
- Jonathan A. Deane, Research Investigator II, Genomics Institute of the Novartis Research Foundation
- Joanne L. Viney, Vice President, Immunology Research, Biogen Idec

Many opportunities exist in industry for a scientist with advanced degrees. There are positions in laboratory research, program management, business development, regulatory affairs and clinical trials oversight, medical liaison, and more. This panel features scientists employed in a variety of positions in industry sharing their career paths and highlighting the skills required to succeed in these careers. Following the panel discussion, enjoy casual conversation with the panelists and other industry connections at a networking reception.

**Networking Roundtables**

**Careers and Networking Roundtable**

*Sponsored by the AAI Minority Affairs Committee*

**SATURDAY, MAY 4, 1:00 PM – 2:30 PM**

**Chair:**
Adriana T. Larregina, University of Pittsburgh; Chair, AAI Minority Affairs Committee

**Registration Fee:** $20 (Lunch included)

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

**Discussion topics:**
- Grad Student: finding a mentor; taking aim at postdoc training
- Postdoc: finding a mentor; taking aim at a faculty position
- Junior Faculty: preparing for promotion and tenure
- Academia or Industry: how to decide (or switch sides)
- Government Agency Careers: CDC, FDA, NIH
- Non-Research Careers: science journalism, patent law, biomedical entrepreneurship

**Table leaders:** see AAI Committee-sponsored Sessions

**Careers in Science Roundtable**

*Sponsored by the AAI Education Committee & AAI Committee on the Status of Women*

**SUNDAY, MAY 5, 1:00 PM – 2:00 PM**

**Chair:**
Scheherazade Sadegh-Nasseri, Johns Hopkins University School of Medicine; Chair, AAI Committee on the Status of Women

**Registration Fee:** $20 (Lunch included)

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. Choose from topics related to the environment in which you work (academic research, biotech industry, governmental agencies), the transitions between specific career stages, or issues in balancing career and family in any career path. Don't miss this great networking opportunity!

**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
  - So I won't get tenure: now what?
- Undergraduate Institutions: finding the balance in teaching, doing research
- Mentoring Effectively
- Networking Skills
- Career and Family: time management, family leave, professional couples
- Careers in Biotech and Industry: moving from academia to industry and vice versa;
- Careers at Governmental Agencies (FDA/NIH/USDA/CDC)
- Non-research Careers: focus for 2013, science writing
- The Physician Scientist: balancing clinical and research duties

**Table leaders:** see AAI Committee-sponsored Sessions

**How to Convert Your CV into a Resumé**

*SATURDAY, MAY 4, 10:30 AM – 11:30 AM*

**Speaker:**
Derek Haseltine, Director, Career Services, George Washington University

For anyone seeking a job outside of academe, how you present yourself on paper is critical. A well-prepared resumé can make all the difference in securing that interview. The focus of this session will be on the important elements of a resumé, the differences between a resumé and the standard academic curriculum vitae, and the information needed to make a good impression. In this special career development session, attendees will be instructed in how to transform their CV's into professional resumés. Small breakout sessions for individual consulting will follow from 1 PM to 3 PM. Bring your CV!
CAREER DEVELOPMENT PROGRAMS

Interviewing for a Job
SUNDAY, MAY 5, 8:00 AM – 9:00 AM

Speaker:
Derek Haseltine, Director, Career Services, 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 student and postdoctoral attendees.

Secrets for a Successful Postdoctoral Fellowship
SUNDAY, MAY 5, 10:00 AM – 11:30 AM

Speaker:
Bill Lindstaedt, Director, Office of Career and Professional Development, University of California, San Francisco

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 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.

AAI is offering career services to both job seekers and employers through a Jobs Board free to meeting registrants and exhibitors at www.immunology2013.org/Attendees/jobsboard.html.

J O B S B O A R D
A Free Recruiting Service for Registrants and Exhibitors

Post Online and Meet Onsite

Job Seekers! Whatever your career stage, use this career service at IMMUNOLOGY 2013™ 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 22. Watch for Onsite Postings, online or on paper in the AAI Booth!) 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 2013™ website. By including a contact email, you will receive inquiries directly.

Advance Postings. Postings will be accepted as of February 1, 2013, 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 22, 2013.

Onsite Postings. After April 22, 2013, employers wishing to advertise a job on the IMMUNOLOGY 2013™ website may still do so by visiting the AAI Office in the Hawaii Convention Center, Room 327, between 9:00 AM and 5:00 PM. You may also post a paper announcement on the bulletin board in the AAI Booth in the Exhibit Hall.

Save Thousands of Dollars in Recruiting Expenses. Take advantage of this complimentary hiring opportunity at IMMUNOLOGY 2013™. To register for the meeting, visit www.immunology2013.org/Registration/attendee.html.

The American Association of Immunologists, Inc. 9650 Rockville Pike | Bethesda, Maryland 20814 Phone: (301) 634-7178 | Fax: (301) 634-7887 Email: info@aai.org | Web: www.aai.org
The American Association of Immunologists
Gratefully Acknowledges the Generous Sponsorship of

BioLegend®

for the

IMMUNOLOGY 2013™ Gala
AAI Centennial Celebration Luau
at the Hilton Hawaiian Village, Great Lawn
MONDAY, MAY 6 ■ 6:30 PM–9:00 PM

President’s Service
Appreciation Reception
SUNDAY, MAY 5 ■ 6:30 PM–8:30 PM
By invitation only

Meeting Lanyards

Celebrating
100 Years

The American Association of Immunologists
May 3–7, 2013 ■ Honolulu, Hawaii ■ Hawaii Convention Center
The American Association of Immunologists

Career Award Recipients for 2013

The American Association of Immunologists proudly announces the 2013 recipients of AAI awards for outstanding research and career achievements.

The 2013 AAI award winners will be recognized at IMMUNOLOGY 2013™, the AAI Centennial Meeting, May 3–7, Honolulu, Hawaii.

**AAI Lifetime Achievement Award**
In recognition of a career of scientific achievement and contributions to AAI and fellow immunologists

Katherine L. Knight, Ph.D.
Loyola University Chicago, Stritch School of Medicine

**AAI Excellence in Mentoring Award**
In recognition of exemplary career contributions to a future generation of scientists

Suzanne Ostrand-Rosenberg, Ph.D.
University of Maryland, Baltimore County

**AAI-Steinman Award for Human Immunology Research**
For significant, sustained achievement in immunology research pertinent to human disease pathogenesis, prevention, or therapy

Barton F. Haynes, M.D.
Duke University School of Medicine

**AAI-Life Technologies Meritorious Career Award**
For outstanding research contributions to the field of immunology

Jenny P-Y. Ting, Ph.D.
University of North Carolina at Chapel Hill

**AAI-BD Biosciences Investigator Award**
For outstanding, early-career research contributions to the field of immunology

David Artis, Ph.D.
University of Pennsylvania, Perelman School of Medicine

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

For outstanding service to AAI and the immunology community as member and Chair of the AAI Minority Affairs Committee, 2006–2012

Prosper N. Boyaka, Ph.D.
The Ohio State University

For outstanding service to AAI and the immunology community as member and Chair of the AAI Committee on Public Affairs, 2005–2012

Derry C. Roopenian, Ph.D.
The Jackson Laboratory
The American Association of Immunologists
Gratefully Acknowledges the Generous Sponsorship of
eBioscience®
An Affymetrix Company
for the
IMMUNOLOGY 2013™
Opening Night Welcome Reception
FRIDAY, MAY 3 ■ 7:00 PM–9:00 PM
Chambers-eBioscience Memorial Award
Lustgarten-eBioscience Memorial Award
Meeting Bags

Celebrating
100 Years
The American Association of Immunologists
May 3–7, 2013 ■ Honolulu, Hawaii ■ Hawaii Convention Center
The American Association of Immunologists thanks the following sponsors for their generous support of the 2013 AAI Annual Meeting and Centennial Celebration

May 3–7, 2013  ■  Honolulu, Hawaii  ■  Hawaii Convention Center

Thank you to our Premier Sponsors

PLATINUM SPONSORS

- IMMUNOLOGY 2013™ Gala
- AAI Centennial Celebration Luau
- President’s Service Appreciation Reception
- Meeting Lanyards

- Chambers-eBioscience Memorial Award
- Lustgarten-eBioscience Memorial Award
- Opening Night Welcome Reception
- Meeting Bags

GOLD SPONSOR

- FASEB
- MARC: Maximizing Access to Research Careers
- AAI Minority Scientist Travel Awards
- Support for Minority Affairs Committee Guest Lecture
- Program Support

SILVER SPONSORS

- BD
- AAI-BD Biosciences Investigator Award
- AAI Early Career Faculty Travel Grants
- AAI Laboratory Travel Grants
- AAI Trainee Abstract Awards

- life
- AAI-Life Technologies Meritorious Career Award
- AAI-Life Technologies Trainee Achievement Awards

SUPPORTING SPONSORS

- DARTMOUTH JOURNAL SERVICES
- The JI Editorial Board Dinner and Meeting

- Genentech
- A Member of the Roche Group
- General Meeting Support

- InvivoGen
- Literature

- Taconic
- Support for AAI Trainee Abstract Awards

CONTRIBUTING SPONSORS

- BioXCell
- Fermentation/Purification Services
- Refreshment Cart

- KYOWA KIRIN
- Major Symposium A

- DVS Sciences, Inc.
- Literature

- Fluidigm
- Literature

- STEMCELL
- Literature

- Stratedigm
- Literature

OTHER SUPPORT

- Henry J. Showell
- Pfizer-Showell Travel Award
AAI gratefully acknowledges the efforts of the Program Committee and AAI Abstract Programming Chairs for IMMUNOLOGY 2013™

2012–2013 AAI PROGRAM COMMITTEE

Leo Lefrançois, Chair
University of Connecticut Health Center

Marlene Bouvier
University of Illinois at Chicago

Maria-Luisa Alegre
University of Chicago

Gregory M. Barton
University of California, Berkeley

Scheherazade Sadegh-Nasseri
Johns Hopkins University School of Medicine

Nicole Baumgarth
University of California, Davis

Andrea M. Cooper
Trudeau Institute, Inc.

Shane Crotty
La Jolla Institute for Allergy and Immunology

David Masopust
University of Minnesota

J. Rodrigo Mora
Massachusetts General Hospital Harvard Medical School

Erika L. Pearce
Washington University School of Medicine

Mercedes Rincón
University of Vermont

Barbara J. Vilen
University of North Carolina at Chapel Hill

David L. Wiest
Fox Chase Cancer Center

AAI ABSTRACT PROGRAMMING CHAIRS

ANTIGEN PROCESSING AND PRESENTATION

Marlene Bouvier
University of Illinois at Chicago

Scheherazade Sadegh-Nasseri
Johns Hopkins University School of Medicine

BASIC AUTOIMMUNITY

Jeffrey C. Rathmell
Duke University

Barbara J. Vilen
University of North Carolina at Chapel Hill

CELLULAR ADHESION, MIGRATION, AND INFLAMMATION

Margaret S. Bynoe
Cornell University

Yoji Shimizu
University of Minnesota Medical School

CYTOKINES AND CHEMOKINES AND THEIR RECEPTORS

Ninan Abraham
University of British Columbia

Sarah L. Gaffen
University of Pittsburgh

HEMATOPOIESIS AND IMMUNE SYSTEM DEVELOPMENT

Lisa Borghesi
University of Pittsburgh School of Medicine

Virginia M. Shapiro
Mayo Clinic

IMMEDIATE HYPERSENSITIVITY, ASTHMA, AND ALLERGIC RESPONSES

Toshiaki Kawakami
La Jolla Institute for Allergy and Immunology

Anuradha Ray
University of Pittsburgh School of Medicine

IMMUNE SYSTEM REGULATION II

Barbara K. Birnstein
Albert Einstein College of Medicine

Barbara L. Kee
University of Chicago

IMMUNOTHERAPY AND VACCINES

Lisa H. Butterfield
University of Pittsburgh

Herman F. Staats
Duke University Medical Center

INNATE IMMUNE RESPONSES AND HOST DEFENSE: CELLULAR MECHANISMS

Bobby J. Cherayil
Massachusetts General Hospital Harvard Medical School

Judith Hellman
University of California, San Francisco

INNATE IMMUNE RESPONSES AND HOST DEFENSE: MOLECULAR MECHANISMS

Lee-Ann H. Allen
University of Iowa

Jill Suttles
University of Louisville School of Medicine
AAI ABSTRACT PROGRAMMING CHAIRS  Continued

LYMPHOCYTE DIFFERENTIATION AND PERIPHERAL MAINTENANCE
Roberta Pelanda
National Jewish Health and University of Colorado Denver
Charles D. Surh
Pohang University of Science and Technology

MICROBIAL, PARASITIC, AND FUNGAL IMMUNOLOGY
Andrea M. Cooper
Trudeau Institute, Inc.
George S. Yap
UMDNJ, New Jersey Medical School

MUCOSAL AND REGIONAL IMMUNOLOGY
Prosper N. Boyaka
Ohio State University
Peter B. Ernst
University of California, San Diego

THERAPEUTIC APPROACHES TO AUTOIMMUNITY
Nitin Karandikar
UT Southwestern Medical Center
Michael K. Racke
Ohio State University Medical Center

TRANSPLANTATION IMMUNOLOGY
Donna L. Farber
Columbia University Medical Center
Pavan Reddy
University of Michigan Medical Center

TUMOR IMMUNOLOGY
José R. Conejo-Garcia
Wistar Institute
Suzanne Ostrand-Rosenberg
University of Maryland, Baltimore County

VETERINARY AND COMPARATIVE IMMUNOLOGY
D. Mark Estes
University of Georgia
Jeffrey A. Yoder
North Carolina State University

VIRAL IMMUNOLOGY
Julia L. Hurwitz
St. Jude Children’s Research Hospital
Luis J. Sigal
Fox Chase Cancer Center

2012–2013 AAI COMMITTEE CHAIRS

AWARDS COMMITTEE
Ann Marshak-Rothstein
University of Massachusetts Medical School

EDUCATION COMMITTEE
Arthur A. Hurwitz
CCR, NCI, NIH

FINANCE COMMITTEE
Mitchell Kronenberg
La Jolla Institute for Allergy and Immunology

MEMBERSHIP COMMITTEE
Judith A. Owen
Haverford College

MINORITY AFFAIRS COMMITTEE
Adriana T. Larrega
University of Pittsburgh School of Medicine

NOMINATING COMMITTEE
Pamela S. Ohashi
Ontario Cancer Institute/University of Toronto

PROGRAM COMMITTEE
Leo Lefrançois
University of Connecticut Health Center

PUBLICATIONS COMMITTEE
Paul E. Love
NICHD, NIH

VETERINARY IMMUNOLOGY COMMITTEE
Simon M. Barratt-Boyes
University of Pittsburgh

CLINICAL IMMUNOLOGY COMMITTEE
Robert L. Modlin
David Geffen School of Medicine at UCLA

COMMITTEE ON PUBLIC AFFAIRS
Elizabeth J. Kovacs
Loyola University Stritch School of Medicine

COMMITTEE ON THE STATUS OF WOMEN
Sheherazade Sadegh-Nasser
Johns Hopkins University School of Medicine

COMMITTEE ON THE STATUS OF WOMEN
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 13–15)** is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. **Part II (July 16–18)** 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**

Christopher A. Hunter, University of Pennsylvania School of Veterinary Medicine  
*Introduction to the Immune System*

Kathleen E. Sullivan, Children’s Hospital of Philadelphia  
*Innate Immunity: Introduction to the Cells*

Oriol J. Sunyer, University of Pennsylvania School of Veterinary Medicine  
*Complement*

Igor E. Brodsky, University of Pennsylvania School of Veterinary Medicine  
*Innate Immunity: Introduction to Pattern Recognition and Intracellular Signaling*

Jennifer A. Punt, Haverford College  
*Introduction to Adaptive Immunity*

Terri M. Laufer, University of Pennsylvania, Perelman School of Medicine  
*MHC Restriction and Thymic Selection*

Laurence C. Eisenlohr, Jefferson Medical College  
*Antigen Processing and Presentation*

Edward M. Behrens, Children’s Hospital of Philadelphia  
*Dendritic Cells: The Bridge Between Innate and Adaptive Immunity*

Jonathan D. Powell, Johns Hopkins University School of Medicine  
*Effector T Cell Differentiation and Response*

Michael P. Cancro, University of Pennsylvania, Perelman School of Medicine  
*B Cell Activation and Humoral Immunity*

Gary A. Koretzky, University of Pennsylvania, Perelman School of Medicine  
*Signaling in the Immune System*

Andrew D. Luster, Massachusetts General Hospital, Harvard Medical School  
*Trafficking of Immune Cells*

Ethan M. Shevach, NIAID, NIH  
*T and B Cell Tolerance*

Cathryn Nagler, University of Chicago  
*Mucosal Immunology*

David Aris, University of Pennsylvania, Perelman School of Medicine  
*Type 2 Immunity and Parasite Infections*

Christopher A. Hunter, University of Pennsylvania School of Veterinary Medicine  
*Cytokines*

Jonathan S. Maltzman, University of Pennsylvania, Perelman School of Medicine  
*Solid Organ Transplantation*

Robert H. Vonderheide, University of Pennsylvania, Perelman School of Medicine  
*Tumor Immunology*

Sunny Shin, University of Pennsylvania, Perelman School of Medicine  
*Immunity to Bacterial Pathogens*

Carolina B. Lopez, University of Pennsylvania School of Veterinary Medicine  
*Immunity to Viruses*

E. John Wherry, University of Pennsylvania, Perelman School of Medicine  
*Immunologic Memory*

David B. Weiner, University of Pennsylvania, Perelman School of Medicine  
*Vaccination*

Vijay K. Kuchroo, Brigham & Women’s Hospital, Harvard Medical School  
*Autoimmunity*

Michael J. Lenardo, NIAID, NIH  
*Genetic Approaches to Immune-Mediated Diseases*

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

---

For complete course details and registration, visit:  
[www.aai.org/Education/Courses](http://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](http://www.aai.org/Education/Courses/Visa.html). Financial support for underrepresented minority scientists is available through the FASEB MARC Program; for details, visit [http://marc.faseb.org](http://marc.faseb.org).
2013 Advanced Course in Immunology
July 28–August 2, 2013 • Seaport World Trade Center, Boston, Massachusetts
Course 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

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

Shannon J. Turley, Dana Farber Cancer Institute, Harvard Medical School
Dendritic Cells

Frederick W. Alt, Children’s Hospital Boston, Harvard Medical School
The Generation and Modification of Lymphocyte Antigen Receptor Genes

Shiv Pillai, Massachusetts General Hospital Cancer Center, Harvard Medical School
B Cell Development

Avinash Bhandoola, University of Pennsylvania, Perelman School of Medicine
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

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

Charlotte S. Kaetzel, University of Kentucky College of Medicine
Mucosal Immunity

Joanne L. Flynn, University of Pittsburgh School of Medicine
Immune Response to Pathogens

Ann Marshak-Rothstein, University of Massachusetts Medical School
B Cell Tolerance and Autoimmunity

Megan Sykes, Columbia University College of Physicians and Surgeons
Transplantation

Robert Schreiber, Washington University School of Medicine
Tumor Immunology

Susan M. Kaech, Yale School of Medicine
Lymphocyte Memory

Linda C. Burdky, Biogen Idec
Immunotherapeutics

Dennis W. Metzger, Albany Medical College
Vaccines

Also included will be lectures on
Lymphocyte Trafficking, Asthma and Allergy, and T Cell Tolerance and Autoimmunity

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 http://marc.faseb.org.
AAI in 2013 anticipates honoring close to 825 scientists for their research achievements and their professional promise by providing awards and grants of over $850,000!

AAI members enjoy the opportunity to nominate a worthy colleague for recognition or apply for a travel grant in support of their own work.

You too can be a recipient of an AAI award or grant, including the new AAI Trainee Poster Award, for IMMUNOLOGY 2013™, the AAI Centennial Celebration—May 3–7, in Honolulu, Hawaii.

In its commitment to the cultivation of career opportunities for promising young scientists, AAI also provides travel support for talented scientists-in-training at the AAI summer immunology courses and sponsors over 100 awards at other immunology conferences.

Let AAI Help You Advance Your Career!
To join AAI, visit www.aai.org/Membership.
To view AAI individual awards, visit www.aai.org/Awards.
IMMUNOLOGY 2013™
Annual Meeting of The American Association of Immunologists
May 3 - 7, 2013 | Hawaii Convention Center | Honolulu, Hawaii

You might be surprised to learn...

**Hotels—Rates are the lowest in three years.**
Attendees can enjoy room rates as low as $135 per night—$95 per night less than in 2012!

Treat yourself and upgrade to an ocean-view room for just $199 per night.

**Registration—No increases from 2012**
AAI prides itself on keeping registration prices low!
Members can attend for as little as $280!

Cutting-edge science, career development, and fantastic social events—all in one place.

**Funding—There’s help!**
AAI supports travel to the annual meeting for over 20% of attendees through grants and travel awards.

We’ve introduced new awards this year to benefit more attendees at every career stage!

You can attend IMMUNOLOGY 2013™ for the same or less than previous meetings!
Details at www.immunology2013.org

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

2013
IMMUNOLOGY 2013™
May 3–7
Honolulu, Hawaii
AAI Centennial Meeting

2014
IMMUNOLOGY 2014™
May 2–6
Pittsburgh, Pennsylvania

2015
IMMUNOLOGY 2015™
May 8–12
New Orleans, Louisiana
Grant Review for Immunologists Program

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

AAI is pleased to offer a program to match new PIs with established PIs who have significant, successful grant writing careers. The Grant Review for Immunologists Program (GRIP) invites new PIs to submit an outline or NIH-style abstract to the GRIP coordinator who, with the assistance of a small volunteer subcommittee, will attempt to match the topic of the proposal with the research experience of an established PI. Matches will be made as quickly as possible to allow new PIs to meet upcoming NIH grant deadlines. Participation is open only to AAI members and is strictly voluntary. The program is not intended to supplant internal mentoring programs.

GRIP is now accepting both new PI and established PI participants. Please send your CV and a brief description of either your potential research project (new PIs) or grant reviewing experience (established PIs) to infoaai@aai.org (please write “GRIP” in the subject line).

Program details at www.aai.org/GRIP_rd.htm

AAI Public Affairs ONLINE

Visit us to

• Learn about NIH funding
• Keep current on key policy issues
• Discover how you can help AAI in its advocacy initiatives

Go to www.aai.org and click on Public Affairs.
Special Discounts for AAI Member Authors

Waiver of Manuscript Submission Fee

Corresponding authors who are regular, emeritus, or honorary AAI members in good standing on the date of manuscript submission to *The Journal of Immunology* receive a waiver of the $50 submission fee.

Reduced Charges for Color Figures

Corresponding authors who are regular, emeritus, or honorary AAI members in good standing on the date their manuscript is accepted for publication in *The Journal of Immunology* receive a $200 reduction in the cost of each color figure.

For complete details on AAI membership privileges and benefits, eligibility requirements, and application forms, please visit [www.aai.org/membership](http://www.aai.org/membership), contact the AAI membership office at 301-634-7195, or email members@aai.org.

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.
Jobs Board

A Free Recruiting Service for Registrants and Exhibitors

Post Online and Meet Onsite

AAI is offering career services to both job seekers and employers through a Jobs Board free to meeting registrants and exhibitors at www.immunology2013.org/Attendees/jobsboard.html.

Job Seekers! Whatever your career stage, use this career service at IMMUNOLOGY 2013™ 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 22. Watch for Onsite Postings, online or on paper in the AAI Booth!)

- **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 2013™ website. By including a contact email, you will receive inquiries directly.

- **Advance Postings.** Postings will be accepted as of February 1, 2013, 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 22, 2013.

- **Onsite Postings.** After April 22, 2013, employers wishing to advertise a job on the IMMUNOLOGY 2013™ website may still do so by visiting the AAI Office in the Hawaii Convention Center, Room 327, between 9:00 AM and 5:00 PM.

  You may also post a paper announcement on the bulletin board in the AAI Booth in the Exhibit Hall.

**Save Thousands of Dollars in Recruiting Expenses.** Take advantage of this complimentary hiring opportunity at IMMUNOLOGY 2013™. To register for the meeting, visit www.immunology2013.org/Registration/attendee.html.
AAI Courses in Immunology

2013 Introductory Course in Immunology
July 13–18, 2013
The University of Pennsylvania, Philadelphia, Pennsylvania

Director: Michael P. Cancro, Ph.D.
University of Pennsylvania School of Medicine
Co-Director: Christopher A. Hunter, Ph.D.
University of Pennsylvania School of Veterinary Medicine

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 13–15) is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. Part II (July 16–18) is a clinically oriented lecture series. Parts I and II may be taken independently at the discretion of the student.

2013 Advanced Course in Immunology
July 28–August 2, 2013
Seaport World Trade Center, Boston, Massachusetts

Director: Leslie J. Berg, Ph.D.
University of Massachusetts Medical School

This intensive annual course is designed for serious students of immunology. Leading experts will present recent advances in understanding the biology of the immune system and its role in health and disease. This course is intended for advanced trainees and scientists who wish to expand or update their understanding of the field. This is not an introductory course, and attendees will need to have a firm understanding of the principles of immunology.

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.
Do you need copyright permission from THE JOURNAL OF IMMUNOLOGY?

EASY ONLINE COPYRIGHT REQUEST FORM

Submit copyright requests online at: www.aai.org/ji/copyright.html

- Enter your contact information.
- Provide the citation of the original journal article.
- When adapting a figure or table, submit the request online and FAX the modified figure to 301-634-7829.
- State where the article will be reproduced and indicate the anticipated date of publication.

IT’S THAT EASY!

Next in The JI

features articles published online ahead of print in THE JOURNAL OF IMMUNOLOGY at www.jimmunol.org.

Articles incorporate author proof corrections but may differ from the final published version. The date of online release is posted on each article and is the official date of publication. Print issues are released twice a month.

Use the Email Alerts feature at www.jimmunol.org to be notified when new content is published, either single articles ahead-of-print or full issues.