



# AAI

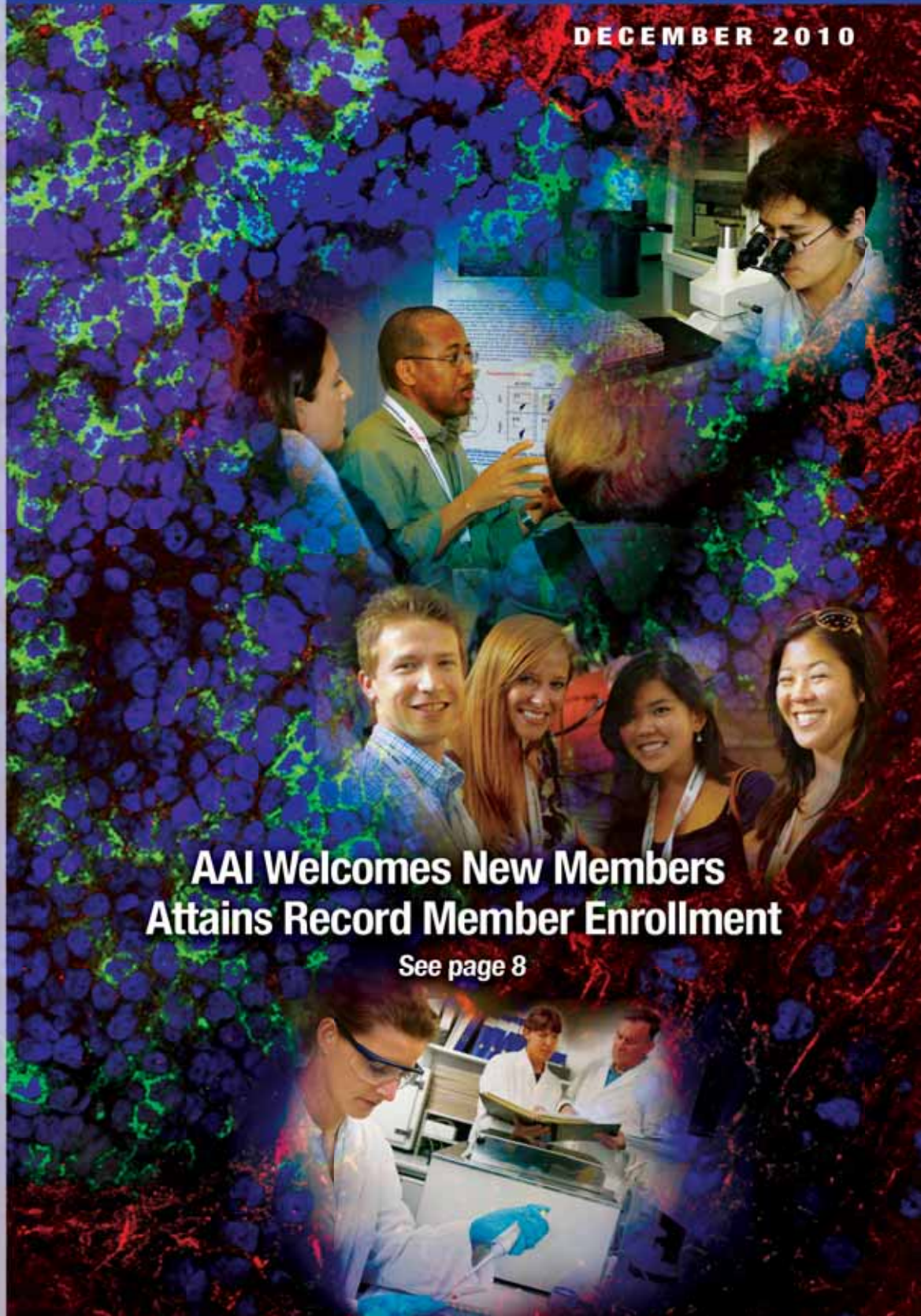
The American Association of Immunologists

# NEWSLETTER

DECEMBER 2010

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**AAI Welcomes New Members  
Attains Record Member Enrollment**

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## CALL FOR 2011 AAI AWARD APPLICATIONS

**Deadline: January 14, 2011**

Applications are invited for the following AAI Travel Awards and Grants, which annually foster the promise and professional development of early-career investigators and trainees, including underrepresented minority scientists and trainees.

### **Pfizer-Showell Travel Award**

This award recognizes the professional promise of an early career investigator (assistant professor or equivalent) by assisting the award recipient with travel to the AAI annual meeting to present his or her research. Selection is based on career progress and submission of an outstanding abstract selected for oral presentation in a block symposium at the meeting. The award recipient must attend the annual AAI business meeting and awards presentation held during the annual meeting, where he/she will be recognized and presented with his/her award. Support of up to \$1500 will be provided for meeting registration and travel. This award is supported through an endowment from Henry J. Showell and Pfizer, Inc.

### **AAI-Life Technologies Trainee Achievement Award**

This award recognizes up to 6 promising trainees in the field of immunology. Awardees will receive a \$1,000 cash prize, meeting registration, and travel support to the AAI annual meeting. Selection is based on career promise and presentation of an outstanding first-author abstract selected for oral presentation in a block symposium. This award is supported through a generous grant from Life Technologies Corporation.

### **AAI Junior Faculty Travel Grant**

AAI is pleased to offer travel grants of \$700 to young investigators to attend the AAI annual meeting. Applicants must submit a first-author abstract or be an author on an abstract submitted to the AAI annual meeting. Attendance at the meeting is mandatory.

### **Cynthia Chambers Memorial-eBioscience Junior Faculty Award**

Established to honor the memory of AAI member Dr. Cynthia Chambers, this award is intended to advance the career of a junior scientist who attends the AAI annual meeting and presents an outstanding abstract specifically in the area of cancer biology. The award recipient will receive a \$1,000 cash award and a certificate during an awards presentation program at the AAI annual meeting. This award is generously supported through a grant from eBioscience, Inc.

### **AAI Minority Scientist Travel Award**

Supported through the FASEB Minority Access to Research Careers (MARC) program and a grant from the National Institute of General Medical Sciences (NIGMS), NIH, this award provides travel support to eligible AAI members to attend the AAI annual meeting. Two types of awards are available (see application instructions, linked below), providing support of up to \$1,650 for registration and meeting-related travel expenses. Award recipients are invited to attend the annual AAI business meeting and awards presentation, where they will be recognized.

### **AAI Trainee Abstract Award**

This award provides \$500 to AAI Trainee Members (students and postdoctoral fellows) whose first-author abstract submitted to the AAI annual meeting is selected for oral presentation in a block symposium. Attendance at the meeting is mandatory and the first author must make the abstract presentation.

For complete AAI Travel Award and Grant application details, as well as information on AAI Career Awards, visit [www.AAI.org/Awards](http://www.AAI.org/Awards).

The 2011 AAI Awards will be presented in conjunction with

**IMMUNOLOGY 2011™, the 98<sup>TH</sup> AAI Annual Meeting**

**May 13-17, 2011, in San Francisco, California**

Questions? Contact AAI at (301) 634-7178 or [awards@aai.org](mailto:awards@aai.org).



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*The JI Homepage:*  
[www.jimmunol.org/](http://www.jimmunol.org/)

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M. Michele Hogan, Ph.D.

For a full staff listing, visit:  
[www.aai.org/office/About\\_staff.htm](http://www.aai.org/office/About_staff.htm)

# FOCUS ON PUBLIC AFFAIRS

## Continuing Resolution Temporarily Funds NIH, Other Agencies



The 111th Congress adjourned prior to the November 2 elections without approving a regular appropriations bill for fiscal year (FY) 2011 which began on October 1, 2010. Instead, Congress approved a Continuing Resolution (“CR”), which funds NIH and other agencies at FY 2010 levels through December 3, 2010. By that date, Congress must either pass unfinished appropriations bills or approve another CR, one that potentially lasts into 2011 and the seating of the 112th Congress.

Prior to its passage of the CR, Congress had made considerable progress on a bill to fund NIH. The House Labor, Health and Human Services, Education and Related Agencies Appropriations Subcommittee (Labor-HHS Appropriations Subcommittee) had approved its FY 2011 appropriations bill, which includes \$32 billion for NIH (an increase of roughly \$1 billion/3.2 percent, the amount requested by President Obama) over regular FY 2010 appropriations. While this is considerably less than both the amount requested by AAI (\$37 billion) and the current NIH program level of \$35 billion (inclusive of American Recovery and Reinvestment Act of 2009 [ARRA] stimulus funds), any NIH budget increase is notable at this time of severe budgetary constraints.

The bill permits NIH to spend up to \$50 million to implement the Cures Acceleration Network (CAN), a new NIH grant program authorized by the “Patient Protection and Affordable Care Act” that is designed to speed potential therapies “from bench to bedside.” This \$50 million appropriation falls far short of the \$500 million authorized for the program and sought by its Senate sponsor, Senator Arlen Specter (D-PA).

In addition to the House action, both the Senate Labor-HHS Appropriations Subcommittee and the full Senate Appropriations Committee had passed a Senate version of the FY 2011 appropriations bill. Like the House bill, the Senate bill includes \$32 billion for NIH, including \$50 million to implement CAN.

During the Senate Appropriations Committee mark-up, Senator Specter offered an amendment to add an additional \$1 billion to the NIH budget, which would have increased the total FY 2011 NIH appropriation to \$33 billion. Committee Chairman Tom Harkin (D-IA), himself a staunch supporter of NIH, expressed gratitude to Senator Specter for his continued support of biomedical research but said he could not support the amendment because of budget concerns. Ultimately, the amendment failed by a vote of 2-28. Senator Barbara Mikulski (D-MD) provided the lone other vote in support of the amendment.

The Senate Appropriations Committee did acknowledge the potential post-stimulus funding cliff facing NIH in its Report language: “The Committee recognizes that the NIH faces an imposing ‘funding cliff’ following the historic increase—nearly \$10,400,000,000—provided by the American Recovery and Reinvestment Act of 2009. Negotiating the softest possible landing is critical to maintaining the scientific momentum gained over the past 2 years and ensuring that young investigators in particular can find a bright future in the field of biomedical research.”

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AAI sent a letter to the Chair and Ranking Member of both the House and Senate Labor-HHS Appropriations Subcommittees prior to the mark-ups, urging them to include \$37 billion for NIH in the FY 2011 appropriations bills. **To view a copy of the letter, please visit [www.aai.org](http://www.aai.org) and click Public Affairs > Policy Issues > AAI Advocacy.**

### NIH Obligates Final ARRA Dollars

**N**IH has obligated the last of its \$10.4 billion American Recovery and Reinvestment Act (ARRA) funding, meeting the Act's deadline of September 30, 2010.

The ARRA legislation directed NIH to spend \$8.2 billion on extramural research. According to NIH, it has funded 21,580 ARRA grants worth a total of more than \$8.9 billion. The National Institute of Allergy and Infectious Diseases (NIAID) alone has funded 3,044 ARRA grants worth just under \$1.1 billion.

While no new ARRA funds are available, many ARRA projects will continue through 2010 and beyond. ARRA grant recipients will continue to be required to report quarterly on their progress. Additionally, NIH has permitted no-cost extensions for ARRA grants, extending the life of a grant by up to 12 months.

NIH is asking researchers to share their ARRA success stories. Investigators who wish to describe ARRA's important impact on their research or on our nation's health and economic well-being should visit: <http://recovery.nih.gov/ContactUs/contactus.php>.

### Embryonic Stem Cell Research Temporarily Restored

**N**IH will continue to fund human embryonic stem cell (hESC) research following a ruling by the U.S. Court of Appeals for the D.C. Circuit, which temporarily lifts a preliminary injunction by United States District Court for the District of Columbia Chief Judge Royce C. Lamberth. While in place, the injunction prevented NIH from funding hESC research (see: AAI Newsletter, August–September 2010, page 4).

Immediately following the ruling, NIH announced that it is permitting researchers, both intramural and extramural, to continue their hESC research. Additionally, hESC grants are being given priority, potentially allowing for the extension of 24 grants currently up for renewal and funding for 20 new grant proposals.

The Appeals Court acted in response to an appeal by the U.S. Department of Justice (DOJ), which represents the U.S. government (and specifically, NIH) in this case. Following a September 27 hearing, the Appeals Court granted a stay, thus permitting hESC research to continue while it considers the appeal of Judge Lamberth's ruling. The Court is expected to render a decision by year's end.

### NIH Announces New Post-Submission Grant Policy

**A**s of September 25, 2010, NIH no longer accepts most post-submission grant application materials.

Previously, NIH allowed researchers to submit supplementary materials after turning in a grant, but before the peer review process was initiated. Those materials had to be in compliance with the "NIH Best Practice Guidelines for Accepting Additional Grant Materials."

Post-submission materials that are still being accepted include:

- "Revised budget page(s) (e.g., change in budget request due to new funding or institutional acquisition of equipment)
- Biographical sketches (e.g., change in senior/key personnel due to the hiring, replacement, or loss of an investigator)
- Letters of support or collaboration resulting from a change in senior/key personnel due to the hiring, replacement, or loss of an investigator
- Adjustments resulting from natural disasters (e.g., loss of an animal colony)
- Adjustments resulting from change of institution (e.g., PI moves to another university)
- News of an article accepted for publication (a copy of the article should not be sent)."

According to the official NIH notice, "the new policy is intended to expedite timely peer review, reduce burden on NIH extramural staff and peer reviewers, and provide a uniform amount of materials for each grant application going to review."

AAI is concerned that this new policy may prevent grant applicants from submitting new information that could enhance their applications. The AAI Committee on Public Affairs worked with the FASEB

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Peer Review Subcommittee (chaired by AAI Councillor Gail Bishop) to develop a letter to NIH which articulates these concerns while recognizing NIH's interest in expediting peer review. FASEB sent the letter to NIH in October. **To view a copy of the letter, please visit [faseb.org](http://faseb.org) and click Policy & Government Affairs > Newsroom.**

### NIH "Error-Correction Window" to Close in January

NIH has announced that it will close the two-day "error-correction window" for electronic grant applications for applications due on or after January 25, 2011. The error-correction window, which allows researchers to correct errors or address warnings identified by NIH for two days after the submission deadline, was originally instituted to ease concerns about transitioning to the NIH Electronic Submission of Grant Applications Program in 2005. It was last reduced from five days to two days in November 2007.

NIH will continue to preserve the two-day application viewing window that allows grant applicants to view an online image of their application prior to the deadline. If the applicant discovers an error during that two-day period, the NIH signing official can reject the application, allowing the applicant to correct the error and resubmit the application. NIH cautions, however, that grants must be submitted before the deadline for applicants to be able to benefit from the application-viewing window.

### New NIH Award Allows Some Scientists to Skip Postdoctoral Training

NIH has announced a new program, the NIH Director's Early Independence Award (EIA), which will allow exceptional junior scientists to bypass postdoctoral training and move directly to independent research positions at U.S. universities.

Qualified applicants must have a graduate degree (M.D., Ph.D., or equivalent) and identify a host institution. An institution may also recruit up to two individuals per year.

NIH is expected to issue up to 10 EIAs in 2011. Applications for the EIA must be received by January 21, 2011. **To apply, please visit <http://commonfund.nih.gov/earlyindependence>.**

### NIH Director Announces Two Appointments

#### New Director Named for Division of Program Coordination, Planning, and Strategic Initiatives

NIH Director Francis Collins, M.D., Ph.D., recently announced the appointment of James M. Anderson, M.D., Ph.D., as Director of the NIH Division of Program Coordination, Planning, and Strategic Initiatives (DPCPSI). Prior to assuming his new position, Anderson had served as a professor and chair of the Department of Cell and Molecular Physiology at the University of North Carolina at Chapel Hill School of Medicine since 2002.

DPCPSI was established by the NIH Reform Act of 2006 to "identify research that represents important areas of emerging scientific opportunities, rising public health challenges, or knowledge gaps that deserve special emphasis and would benefit from conducting or supporting additional research that involves collaboration between two or more national research institutes or national centers, or would otherwise benefit from strategic coordination and planning." The division includes the offices of AIDS Research, Behavioral and Social Sciences Research, Disease Prevention, Research on Women's Health, and Strategic Coordination.

#### Deputy Director of Extramural Research Appointed

Collins also recently announced the appointment of Sally Rockey, Ph.D., as NIH Deputy Director for Extramural Research (DDER). Rockey had been acting DDER since 2008.

Sally Rockey joined NIH in 2005 when she was appointed to the position of Deputy Director of the Office of Extramural Research (OER). Along with her promotion to DDER, Rockey was also named Director of OER.

### President Obama Issues Executive Order on Biosecurity

President Obama recently issued an Executive Order (EO) entitled "Optimizing the Security of Biological Select Agents and Toxins in the United States." The EO follows publication of a report by the Working Group on Strengthening Laboratory Biosecurity in

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the United States, part of the Obama Administration's comprehensive review of federal policies associated with Biological Select Agents and Toxins (BSAT).

The EO instructs the Department of Health and Human Services (HHS) and the United States Department of Agriculture (USDA) to tier and potentially reduce their select-agent lists. Currently, the lists are comprised of more than 80 pathogens and toxins viewed as potential threats to the nation. Each of the pathogens and toxins is being reviewed by HHS and USDA during their biennial reviews and will be grouped according to "the risk posed...in enabling a mass casualty incident through deliberate misuse." HHS and USDA will then work in concert to determine appropriate action to minimize the threat posed by each select-agent.

Additionally, the EO calls for

- the creation of a new federal advisory panel for the select-agent program;
- the implementation of a plan to ensure better coordination of oversight of BSAT security; and
- a revision of select-agent rules and regulations to reflect the new tiered select-agent list.

### Update on Key Animal Issues in the Senate

#### Two developments in Congress target the appropriate use and/or supply of animals for research

Senator Maria Cantwell (D-WA) recently introduced a Senate version of the Great Ape Protection Act (GAPA). The bill is cosponsored by Senators Susan Collins (R-ME), Bernie Sanders (D-VT), John Kerry (D-MA), and Joe Lieberman (I-CT).

GAPA was originally introduced in the House of Representatives in 2009 by Representative Edolphus Towns (D-10th, NY). The bill would effectively end the use of the relatively small number of chimpanzees and other great apes used in biomedical research, threatening promising studies on vaccines and therapies. Proponents of the bill seek to prevent what they call "invasive research" on great apes, defined as "research that may cause death, bodily injury, pain, distress, fear, injury, or trauma." Many in the biomedical research community believe, however, that GAPA would impede progress on research involving Ebola, malignant malaria, and cardiovascular disease, which affect both humans and some great apes. GAPA currently has 156 cosponsors in the House.

AAI has joined with numerous biomedical research organizations in opposing passage of GAPA. No final action on the legislation is expected to occur this Congress.

In related developments, the Senate appropriations Committee included language regarding the use of Class B animal dealers in its report accompanying the 2010 appropriations bill for the Departments of Labor, Health and Human Services, Education and Related Agencies. Controversy over the use of Class B dealers, who are licensed to buy, sell, and/or transport random source animals, has prompted NIH to phase-out the use of all Class B dealers. The Senate Appropriations Committee report language notes that: "the best way to phase out the use of class B dealers as the providers for random-source dogs and cats in NIH-supported research is to supplement class A dealers so that they can provide these animals instead. The three- to four-year timeline projected by the NIH to complete this transition is longer than the Committee would have preferred, especially considering that the NIH largely ignored this issue for years. However, the Committee is pleased that the NIH is on track to meet the early milestones of this timeline."

### ILAR Offers New Resource Regarding the Care and Use of Laboratory Animals

The Institute for Laboratory Animal Research (ILAR), part of the National Research Council's Division on Earth and Life Studies, has released its eighth edition of the *Guide for the Care and Use of Laboratory Animals*. The guide is "intended to assist IACUCs [Institutional Animal Care and Use Committees], researchers, and veterinarians in fulfilling their obligation to plan, conduct, and oversee animal experiments in accordance with the highest scientific, humane, and ethical principles."

This is the first new version of the guide since 1996. The NIH is expected to adopt this revised version of the guide, replacing the 1996 version. A comparison document between the 1996 and 2010 versions of the guide is available on the website of the American Association for Laboratory Animal Science (AALAS). Visit [www.aalas.org/bookstore/downloads.aspx](http://www.aalas.org/bookstore/downloads.aspx) and go to the section titled "other downloads."



# AAI Courses in Immunology

## *2011 Introductory Course in Immunology*

July 9 – 14, 2011

The University of Pennsylvania, Philadelphia, PA

**Director: Christopher A. Hunter, Ph.D.**, University of Pennsylvania School of Veterinary Medicine

**Co-Director: Terri M. Laufer, M.D.**, University of Pennsylvania School of 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 9 – 11)** is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. **Part II (July 12 – July 14)** is a clinically oriented lecture series. Parts I and II may be taken independently at the discretion of the student.

## *2011 Advanced Course in Immunology*

July 31 – August 5, 2011

The University of Minnesota, Minneapolis, MN

**Director: Stephen C. Jameson, Ph.D.**, University of Minnesota Medical School

**Co-Director: Michael A. Farrar, Ph.D.**, University of Minnesota Center for Immunology

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/Courses.htm](http://www.aai.org/Courses.htm).**

Please direct inquiries to [meetings@aai.org](mailto:meetings@aai.org) or 301-634-7178.

*Financial support for underrepresented minority scientists is available through the FASEB MARC Program. Visit: <http://marc.faseb.org/>.*



## AAI Welcomes New Members (2010) Attains Record High Membership

AAI now has 7,299 members, a record high! With record renewals by existing members and record enrollment of new members, both Regular and Trainee, AAI has a stronger voice, one that advocates on your behalf for increased NIH funding, reduced regulatory burdens, and myriad other issues that affect your careers and lives. Members are proud of and benefit from career development programs, scientifically strong meetings and courses, and a top-ranking scientific journal, *The Journal of Immunology*.

Please personally welcome those you know among the new members listed below and encourage your colleagues to join AAI today. (They may apply at [www.aai.org](http://www.aai.org).)

### REGULAR MEMBERS

**Derek W. Abbott, MD, PhD**  
Cleveland, Ohio

**Sayed Fekry Abdelwahab, PhD**  
Minia, Egypt

**Hussien A. Abouelhad, PhD**  
Jazan, Saudi Arabia

**Gernot Achatz, PhD**  
Salzburg, Austria

**Ali Ahmad, PhD**  
Montreal, Canada

**Rama Rao Amara, PhD**  
Atlanta, Georgia

**Amal Amer, MD, PhD**  
Columbus, Ohio

**Ashok R. Amin, PhD**  
Blacksburg, Virginia

**Hanady A. Amoudy, PhD**  
Safat, Kuwait

**Petronela Ancuta, PhD**  
Montreal, Canada

**Meenakshi Arora, PhD**  
Pittsburgh, Pennsylvania

**Antonio R. N. Arulananandam, DVM, PhD**  
Tarrytown, New York

**Bobbie Ann Austin, PhD**  
Gaithersburg, Maryland

**Agnes Marie Azimzadeh, PhD**  
Baltimore, Maryland

**Suk-Hwan Baek, PhD**  
Daegu, South Korea

**Jeffrey John Bajramovic, PhD**  
Rijswijk, Netherlands

**Weili Bao, MD**  
New York, New York

**Joyoti Basu, PhD**  
Kolkata, India

**Courtney Beers, PhD**  
Seattle, Washington

**Andrew T. Bender, PhD**  
Andover, Massachusetts

**Lbachir Benmohamed, PhD**  
Orange, California

**Helene B. Bernstein, MD, PhD**  
Cleveland, Ohio

**Roopa Bhat, MD, PhD**  
Stanford, California

**Haribabu Bodduluri, PhD**  
Louisville, Kentucky

**Claudine S. Bonder, PhD**  
Adelaide, Australia

**David L. Boone, PhD**  
Chicago, Illinois

**Dorin-Bogdan Borza, PhD**  
Nashville, Tennessee

**Andrew G. Bowie, PhD**  
Dublin, Ireland

**Jay H. Bream, PhD**  
Baltimore, Maryland

**Thomas C. Brodnicki, PhD**  
Fitzroy, Australia

**Elizabeth E. Brown, PhD**  
Birmingham, Alabama

**John H. Brumell, PhD**  
Toronto, Canada

**Eric James Buenz, PhD**  
Lakewood, Colorado

**Steven J. Burgess, PhD**  
Kent, United Kingdom

**Dirk Busch, MD**  
Munich, Germany

**Cherie L. Butts, PhD**  
Bethesda, Maryland

**Laurence U. Buxbaum, MD, PhD**  
Philadelphia, Pennsylvania

**Vera L. G. Calich, PhD**  
Sao Paulo, Brazil

**Matthew Edwin Call, PhD**  
Boston, Massachusetts

**Melissa Joy Call, PhD**  
Boston, Massachusetts

**John P. Cannon, PhD**  
St. Petersburg, Florida

**Jennifer Leigh Cannons, PhD**  
Bethesda, Maryland

**Bryan D. Carson, PhD**  
Albuquerque, New Mexico

**James T. Casper, MD**  
Milwaukee, Wisconsin

**Vincenzo Cerundolo, MD, PhD**  
Oxford, United Kingdom

**Marion M. Chan, PhD**  
Philadelphia, Pennsylvania

**Theresa Li-Yun Chang, PhD**  
Montclair, New Jersey

**Yahia Chebloune, PhD**  
Grenoble, France

**Chunxia Chen, PhD**  
Philadelphia, Pennsylvania

**Keqiang Chen, PhD**  
Frederick, Maryland

**Lee-Wei Chen, MD, PhD**  
Kaohsiung, Taiwan

**Shun-Hua Chen, PhD**  
Tainan, Taiwan

**Xinchun Chen, PhD**  
Shenzhen, China

**Ya Chen, PhD**  
La Jolla, California

**Tian Chi, PhD**  
New Haven, Connecticut

**Ghania Chikh, PhD**  
Ottawa, Canada

**Young Il Choi, PhD**  
Boston, Massachusetts

**Jin-Kyong Chun, PhD**  
Gangwon-do, South Korea

**Stephanie B. Conant, PhD**  
Detroit, Michigan

**Laura Conforti, PhD**  
Cincinnati, Ohio

**David K. C. Cooper, MD, PhD**  
Pittsburgh, Pennsylvania

**Claudio Cortes, DVM, PhD**  
Toledo, Ohio

**Andrew Craig, PhD**  
Kingston, Canada

**Daniel J. Cua, PhD**  
Palo Alto, California

**Christopher W. Cutler, DDS, PhD**  
Stony Brook, New York

**Ali Otman Daeki, PhD**  
Tripoli, Libya

**Jie Dai, MD, PhD**  
Nutley, New Jersey

**Mari H. Dallas, MD**  
Memphis, Tennessee

**Alexander H. Dalpke, MD**  
Heidelberg, Germany

**Subhajit Dasgupta, PhD**  
Charleston, South Carolina

**Suryasarathi Dasgupta, PhD**  
Boston, Massachusetts

**Hayk Davtyan, PhD**  
Huntington Beach, California

**Camila Indiani de Oliveira, PhD**  
Salvador, Brazil

**Thorsten Demberg, PhD**  
Bethesda, Maryland

**Thomas Decker, PhD**  
Vienna, Austria

**Paolo Dellabona, MD, PhD**  
Milano, Italy

**Wilbert A. Derbigny, Jr., PhD**  
Indianapolis, Indiana

**Yuanpu Peter Di, PhD**  
Pittsburgh, Pennsylvania

**Marcin P. Dobaczewski, MD, PhD**  
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**Helen Dooley, PhD**  
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**Petr Draber, PhD**  
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**Kirk M. Druey, MD**  
Bethesda, Maryland

**Warren Noel D'Souza, PhD**  
Thousand Oaks, California

**Lanying Du, PhD**  
New York, New York

**J. Andrew Duty, PhD**  
Norman, Oklahoma

**Lars Eckmann, MD**  
La Jolla, California

**James S. Economou, MD, PhD**  
Los Angeles, California

**Takeshi Egawa, MD, PhD**  
St. Louis, Missouri

**Ann-Marie Fairhurst, PhD**  
Singapore, Singapore

**Yujiang Fang, MD**  
Columbia, Missouri

**Jessie-Farah Fecteau, PhD**  
La Jolla, California

**Kumar Felix, PhD**  
Houston, Texas

**Feng Feng, PhD**  
Durham, North Carolina

**Brian T. Fife, PhD**  
Minneapolis, Minnesota

**Susetta Finotto, PhD**  
Nurnberg, Germany

**Stefano Fiorucci, MD**  
Perugia, Italy

**Ian B. Fisher, PhD**  
Albuquerque, New Mexico

**Pedro O. Flores-Villanueva, MD**  
Houston, Texas

**Thea M. Friedman, PhD**  
Hackensack, New Jersey

**Deborah H. Fuller, PhD**  
Albany, New York

**Castle J. Funatake, PhD**  
San Diego, California

**Erik Yee Mun George Fung, MBChB, PhD**  
Boston, Massachusetts

**Miheala Gadjeva, PhD**  
Boston, Massachusetts

**Christopher J. Gamper, MD, PhD**  
Baltimore, Maryland

**Malathesa M. Ganachari, PhD**  
Houston, Texas

**Keith E. Garrison, PhD**  
Moraga, California

**Manik C. Ghosh, PhD**  
Memphis, Tennessee

**Julio Washington Gomez-Rodriguez, Sr.**  
Bethesda, Maryland

**Sangeeta Goswami, MBBS, PhD**  
Houston, Texas

**Karen A. Gould, PhD**  
Omaha, Nebraska

**Jasvir S. Grewal, PhD**  
Stony Brook, New York

**Lanping Guo, MD**  
Pittsburgh, Pennsylvania





# AAI Welcomes New Members *(continued)*

- Yousang Gwack, PhD**  
Los Angeles, California
- Nir Hacohen, PhD**  
Charlestown, Massachusetts
- W. Nicholas Haining, MBChB**  
Boston, Massachusetts
- Pamela Hall, PhD**  
Albuquerque, New Mexico
- Seung Hyun Han, PhD**  
Seoul, South Korea
- Masahisa Handa, PhD**  
Berkeley, California
- Pamela A. Hankey, PhD**  
University Park, Pennsylvania
- Eric Hanson, MD**  
Bethesda, Maryland
- Crafford A. Harris, PhD**  
Easton, Pennsylvania
- Kristina M. Harris, PhD**  
Baltimore, Maryland
- Derek Nigel John Hart, MD**  
Sydney, Australia
- Zhong He, MD, PhD**  
Port St. Lucie, Florida
- Catherine C. Hedrick, PhD**  
La Jolla, California
- Thomas Herrmann, PhD**  
Wurzburg, Germany
- Rachmat Hidajat, MD, PhD**  
Bethesda, Maryland
- Yasuhiko Hirabayashi, MD, PhD**  
Sendai, Japan
- Kasper Hoebe, PhD**  
Cincinnati, Ohio
- David A. Hokey, PhD**  
Rockville, Maryland
- Vladimir Holan, PhD**  
Prague, Czech Republic
- Christian K. Holm, PhD**  
Aarhus, Denmark
- Reiko Horai, PhD**  
Bethesda, Maryland
- Vaclav Horejsi, PhD**  
Prague, Czech Republic
- Hui Hu, PhD**  
Philadelphia, Pennsylvania
- Jiaqiang Huang, MD, PhD**  
Frederick, Maryland
- Cedric J. Hubeau, PhD**  
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Stony Brook, New York
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Hannover, Germany
- Naoto Ishii, MD, PhD**  
Sendai, Japan
- Susan Irene Jarvi, PhD**  
Hilo, Hawaii
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Amassoma, Nigeria
- Young-Hee Jin, PhD**  
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- Michael Brian Jordan, MD**  
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Cheongwon, South Korea
- Thirumala-Devi Kanneganti, PhD**  
Memphis, Tennessee
- David E. Kaplan, MD**  
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Bethesda, Maryland
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- Steven Kleinstein, PhD**  
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Baltimore, Maryland
- Tobias Kollmann, MD, PhD**  
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- Pavol Kudela, PhD**  
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Montreal, Canada
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New Orleans, Louisiana
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Atlanta, Georgia
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- Thomas W. Lowder, PhD**  
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- Amber U. Luong, MD, PhD**  
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- Milton Maciel, Jr, PhD**  
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Toyko, Japan
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Sylvania, Ohio
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Toledo, Ohio
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New Orleans, Louisiana
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Rochester, New York
- Kim Midwood, PhD**  
London, United Kingdom
- David J. Miller, MD, PhD**  
Ann Arbor, Michigan
- Paola Mina-Osorio, MD, PhD**  
Manhasset, New York
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Amherst, Massachusetts
- Manoj K. Mishra, PhD**  
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Bethesda, Maryland
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Yongsan, South Korea
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Paris, France
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St. Louis, Missouri
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Washington, DC
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Chandigarh, India
- Sangita Mukhopadhyay, PhD**  
Hyderabad, India
- Isis K. Mullarky, PhD**  
Blacksburg, Virginia
- William J. Muller, MD**  
Chicago, Illinois
- Takeshi Nabe, PhD**  
Kyoto, Japan
- Krishnamurthy Natarajan, PhD**  
Delhi, India



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Charlestown, Massachusetts
- Minjian Ni, PhD**  
Seattle, Washington
- Shunbin Ning, PhD**  
Miami, Florida
- Tamara K. Nowling, PhD**  
Charleston, South Carolina
- Gabriel Nussbaum, MD, PhD**  
Jerusalem, Israel
- Rienk Offringa, PhD**  
South San Francisco, California
- Julie Old, PhD**  
Penrith South Dc, Australia
- Purevdorj B. Olkhanud, MD, PhD**  
Baltimore, Maryland
- Leigh Alice O'Mara, PhD**  
Duluth, Georgia
- John J. Osterholzer, MD**  
Ann Arbor, Michigan
- Mario Ostrowski, MD**  
Toronto, Canada
- Alexander Owyang, PhD**  
Berkeley, California
- Annette Oxenius, PhD**  
Zurich, Switzerland
- Rossella Paolini, PhD**  
Rome, Italy
- Chandrashekar Pasare, PhD**  
Dallas, Texas
- Maria Virginia Pascual**  
Dallas, Texas
- Virginia Pasquinelli, PhD**  
Cuidad Universitaria, Argentina
- Deepa Patke, PhD**  
Gaithersburg, Maryland
- Erika L. Pearce, PhD**  
Saranac Lake, New York
- Christopher S. Petty, PhD**  
Cary, North Carolina
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Palo Alto, California
- Shari Pilon-Thomas, PhD**  
Tampa, Florida
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- Costantino Pitzalis, MD**  
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Moscow, Russia
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Woburn, Massachusetts
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San Francisco, California
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- Sachin Puri, PhD**  
Portland, Oregon
- Haiyan Qin, MD**  
New York, New York
- Hongwei Qin, PhD, MD**  
Birmingham, Alabama
- Zhihai Qin, MD**  
Beijing, China
- Peng Qu, PhD**  
Indianapolis, Indiana
- Michael Quigley, PhD**  
Gaithersburg, Maryland
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Boston, Massachusetts
- Sanjay Ram, MD**  
Worcester, Massachusetts
- Sekhar Reddy, PhD**  
Maryland, Maryland
- William L. Redmond, PhD**  
Portland, Oregon
- Emer P. Reeves, PhD**  
Dublin, Ireland
- Nancy C. Reich, PhD**  
Stony Brook, New York
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Geneva, Switzerland
- Jyothi Rengarajan, PhD**  
Atlanta, Georgia
- Christelle Retiere, PhD**  
Nantes, France
- Francesco Ria, MD, PhD**  
Rome, Italy
- Scott H. Robbins, PhD**  
Seattle, Washington
- Denise Silva Rodrigues, MD, PhD**  
Sao Paulo, Brazil
- Simon Rousseau, PhD**  
Montreal, Canada
- Qingguo Ruan, PhD**  
Philadelphia, Pennsylvania
- Christian David Sadiq, MD**  
Charlestown, Massachusetts
- Ronit Sagi-Eisenberg, PhD**  
Tel Aviv, Israel
- Domenico Sansonno, MD**  
Bari, Italy
- Saumendra N. Sarkar, PhD**  
Pittsburgh, Pennsylvania
- Isobel A. Scarisbrick, PhD**  
Rochester, Minnesota
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Bern, Switzerland
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Nashville, Tennessee
- Ho Seong Seo, PhD**  
San Francisco, California
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Cardiff, United Kingdom
- Lan Shao, PhD**  
Stanford, California
- Wenhai Shao, PhD**  
Philadelphia, Pennsylvania
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Melbourne, Australia
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Augusta, Georgia
- Soon Cheon Shin, PhD**  
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- Shunichi Shiozawa, MD, PhD**  
Chuoku, Japan
- Sujan Shresta, PhD**  
La Jolla, California
- Thomas Simmet, MD, PhD**  
Ulm, Germany
- Jakub K. Simon, MD**  
Baltimore, Maryland
- Sushmita Sinha, PhD**  
Portland, Oregon
- Pallavur V. Sivakumar, PhD**  
Seattle, Washington
- Pamela J. Skinner, PhD**  
St. Paul, Minnesota
- Dimitris Skokos, PhD**  
Tarrytown, New York
- Judith Anne Smith, MD, PhD**  
Madison, Wisconsin
- Susan Harless Smith, PhD**  
Durham, North Carolina
- Haifeng Song, PhD**  
Bethesda, Maryland
- Hugo Soudeyns, PhD**  
Montreal, Canada
- Tim Sparwasser, PhD**  
Hannover, Germany
- Anne I. Sperling, PhD**  
Chicago, Illinois
- Rupa Srivastava, PhD**  
Minneapolis, Minnesota
- Aleksandar Stanic-Kostic, MD, PhD**  
Boston, Massachusetts
- Nicholas James Robert Steers, PhD**  
Rockville, Maryland
- Paul L. Stein, PhD**  
Chicago, Illinois
- Liljana Stevceva, MD, PhD**  
Germantown, Maryland
- Efstratios Stratikos, PhD**  
Athens, Greece
- Kaihong Su, PhD**  
Omaha, Nebraska
- Lishan Su, PhD**  
Chapel Hill, North Carolina
- Maureen A. Su, MD**  
Chapel Hill, North Carolina
- Yan Su, PhD**  
Baltimore, Maryland
- Jian Sun, MD**  
Shanghai, China
- Susan E. Sweeney, MD, PhD**  
La Jolla, California
- Yasuaki Tamura, MD**  
Sapporo, Japan
- Suet-Mien Tan, PhD**  
Singapore, Singapore
- Hong Tang, PhD**  
Beijing, China
- Iliaria Tassi, PhD**  
Bethesda, Maryland
- Ryan M. Teague, PhD**  
St. Louis, Missouri
- Paresh Thakker, PhD**  
Cambridge, Massachusetts
- Mitchell Thorn, PhD**  
New York, New York
- Hua Hua Tong, MD**  
Columbus, Ohio
- Mary M. Tomayko, MD**  
New Haven, Connecticut
- Vladimir Y. Toshchakov, PhD**  
Baltimore, Maryland
- Dat Q. Tran, MD**  
Houston, Texas
- Michel J. Tremblay, PhD**  
Quebec, Canada
- Laura Simon Tremblay, PhD, VMD**  
Shawnee Mission, Kansas
- Mary Truckenmiller, PhD**  
Hershey, Pennsylvania
- Wenwei Tu, MD, PhD**  
Hong Kong, China
- Martin John Charles Turner, BSc, PhD**  
Cambridgeshire, United Kingdom
- Michael J. Turner, PhD**  
Framingham, Massachusetts
- Stephen John Turner, PhD**  
Parkville, Australia
- B. K. Tyagi, PhD**  
Jodhpur, India
- Viktor Umansky, PhD**  
Heidelberg, Germany
- Bruce A. Vallance, PhD**  
Vancouver, Canada
- Luigi Varesio, PhD**  
Genova Quarto, Italy
- Nancy Vazquez, PhD**  
Bethesda, Maryland
- Monika Vig, PhD**  
St. Louis, Missouri
- Neeraj Vij, PhD**  
Baltimore, Maryland
- Jose A. Villadangos, PhD**  
Parkville, Australia
- Wendy Walker, PhD**  
New Haven, Connecticut
- Bin Wang, PhD**  
Beijing, China
- Jiang Huai Wang, MD, PhD**  
Cork, Ireland
- Shengjun Wang, PhD**  
Zhenjiang, China
- Xiang-Yang Shawn Wang, PhD**  
Richmond, Virginia
- Wendy Tarpe Watford, PhD**  
Athens, Georgia
- Stephanie S. Watowich, PhD**  
Houston, Texas
- Tonya J. Webb, PhD**  
Baltimore, Maryland
- Adriana Weinberg, MD**  
Aurora, Colorado
- Geert Wiegertjes, PhD**  
Wegeningen, Netherlands
- Cara C. Wilson, MD**  
Aurora, Colorado
- Emma H. Wilson, PhD**  
Riverside, California
- Matthew D. Woolard, PhD**  
Shreveport, Louisiana
- Linda Wooldridge, PhD**  
Wales, United Kingdom
- Marcel Wuethrich, PhD**  
Madison, Wisconsin
- Weihua Xiao, MD**  
Hefei, China



**Zheng Xing, PhD**  
St. Paul, Minnesota

**Sidong Xiong, PhD**  
Shanghai, China

**Huaxi Xu, MD**  
Zhenjiang, China

**Guo-Xiang Yang, PhD**  
Davis, California

**Yanping Yang, PhD**  
Birmingham, Alabama

**Jeffrey Yen, PhD**  
Taipei, Taiwan

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Taoyuan, Taiwan

**Jiangmei Yin, PhD**  
Philadelphia, Pennsylvania

**Sun-Ok Yoon, PhD**  
New Orleans, Louisiana

**Jodi L. Yorty, PhD**  
Elizabethtown, Pennsylvania

**Ryusuke Yoshimi, MD, PhD**  
Yokohama, Japan

**Jeehee Youn, PhD**  
Seoul, South Korea

**Ellen F. Young, PhD**  
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**Haibing Zhang, PhD**  
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Davis, California

**Wenji Zhang, MD**  
Beachwood, Ohio

**Wenliang Zhang, PhD**  
Worcester, Massachusetts

**Xiao-Lian Zhang, PhD**  
Hubei, China

**Xin Zhang, MD, PhD**  
New Orleans, Louisiana

**Yi Zhang, MD, PhD**  
Ann Arbor, Michigan

**Yongliang Zhang, PhD**  
Singapore, Singapore

**Yu-Zhong Zhang, PhD**  
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**Dongchang Zhao, PhD**  
Arcadia, California

**Keji Zhao, PhD**  
Bethesda, Maryland

**Zhou Zhu, MD, PhD**  
Baltimore, Maryland

**Quanming Zou, PhD**  
Chongqing, China

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Bethesda, Maryland

**Claudia Andrea Alves de  
Araujo, PhD**  
Chicago, Illinois

**Tohti Amet, PhD**  
Indianapolis, Indiana

**Jie An, PhD**  
Baltimore, Maryland

**Paras K. Anand, PhD**  
Memphis, Tennessee

**Nuray Aslan, PhD**  
Worcester, Massachusetts

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Bethesda, Maryland

**Sonia Bakkour, PhD**  
South Hadley, Massachusetts

**Laura L. Bandura-Morgan,  
PhD**  
Louisville, Kentucky

**Tyler Barker, PhD**  
Murray, Vermont

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Milwaukee, Wisconsin

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San Diego, California

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Brookline, Massachusetts

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Rochester, New York

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Chicago, Illinois

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Denville, New Jersey

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Cleveland Heights, Ohio

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Tampa, Florida

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New Haven, Connecticut

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Philadelphia, Pennsylvania

**Neelanjana Chunder, PhD**  
Philadelphia, Pennsylvania

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Minneapolis, Minnesota

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Baltimore, Maryland

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Philadelphia, Pennsylvania

**Lillian Cruz-Orengo, PhD**  
St. Louis, Missouri

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Chicago, Illinois

**Pradyot Dash, PhD**  
Memphis, Tennessee

**Rachel Lee De Kluyver, PhD**  
Frederick, Maryland

**Dima A. Decker, PhD**  
Iowa City, Iowa

**Yukan Duan, PhD**  
Ellicott City, Maryland

**Anne-Cecile E. Duc, PhD**  
Philadelphia, Pennsylvania

**Ann Duskin, PhD**  
Philadelphia, Pennsylvania

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Durham, North Carolina

**Contessa E. Edgar, PhD**  
Moore, Oklahoma

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Baltimore, Maryland

**Erika A. Eksioglu, PhD**  
Tampa, Florida

**Sonia Elhadad, PhD**  
New York, New York

**Jason S. Ellis, PhD**  
Columbia, Missouri

**Quentin Espinassous, PhD**  
Vancouver, Canada

**Laura Marie Fahey, PhD**  
Los Angeles, California

**David R. Fooksman, PhD**  
New York, New York

**Jill W. Ford, PhD**  
Frederick, Maryland

**Yoshiko Fukuyama, DDS, PhD**  
Birmingham, Alabama

**David Furman, PhD**  
Palo Alto, California

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Indianapolis, Indiana

**Vitaly V. Ganusov, PhD**  
Knoxville, Tennessee

**Aleksandra Joanna  
Gil-Krzewska, PhD**  
Cambridge, Massachusetts

**Jason M. God, PhD**  
Charleston, South Carolina

**Amit Golding, MD, PhD**  
Baltimore, Maryland

**Jessica Grieves, DVM**  
New York, New York

**Fei Han, PhD**  
Chicago, Illinois

**Anna M. Hansen, PhD**  
Bethesda, Maryland

**Ashraf E. Hassaballa, MD,  
PhD**  
Kansas City, Kansas

**Shan He, PhD**  
Ann Arbor, Michigan

**Nicola M. Heller, PhD**  
Baltimore, Maryland

**Hillary S. Hernandez-Trujillo,  
MD**  
Philadelphia, Pennsylvania

**Jeong Soo Hong, PhD**  
Houston, Texas

**Sishun Hu, PhD**  
Indianapolis, Indiana

**Xueyou Hu, PhD**  
Houston, Texas

**Eduardo Huarte, PhD**  
Bozeman, Montana

**Hee Young Hwang, PhD**  
Decatur, Georgia

**Sujin Hwang, PhD**  
Bethesda, Maryland

**Rukhsana Jabeen, PhD**  
Indianapolis, Indiana

**Shawn S. Jackson, PhD**  
Baltimore, Maryland

**Junbae Jee, PhD**  
Columbus, Ohio

**Venkatesh Jeganathan, PhD**  
Manhasset, New York

**Lukas T. Jeker, MD, PhD**  
San Francisco, California

**Silke G. H. Jennrich, PhD**  
Philadelphia, Pennsylvania

**Ting Jia, PhD**  
New York, New York

**Feng Jiao, MD**  
El Paso, Texas

**Angela C. Johnson, PhD**  
Cleveland, Ohio

**Britt A. Johnson, PhD**  
San Francisco, California

**Margaret M. Joyce, PhD**  
Philadelphia, Pennsylvania

**Rosalyn A. Jurjus, MD, PhD**  
Washington, DC

**Stanislav V. Khoruzhenko, MD**  
Baltimore, Maryland

**Patricia Kiesler, PhD**  
Rockville, Maryland

**Eleanor Z. Kincaid, PhD**  
Worcester, Massachusetts

**Christine A. King, PhD**  
Halifax, Canada

**M. Heather Knowles, PhD**  
Denver, Colorado

**Irina Kochetkova, MD**  
Bozeman, Montana

**Jill M. Kramer, PhD**  
Manhasset, New York

**Dimitry N. Kremontsov, PhD**  
Burlington, Vermont

**Cosima C. Kretz, PhD**  
Bethesda, Maryland

**Carsten Krieg, PhD**  
Zurich, Switzerland

**Michelle H. W. Laird, PhD**  
Baltimore, Maryland

**Miles D. Lange, PhD**  
Omaha, Nebraska

**Annie W. Lau-Kilby, PhD**  
Bethesda, Maryland

**Quang Trong Le, PhD**  
Richmond, Virginia

**Karim Lee, PhD**  
San Francisco, California

**Sang Yun Lee, PhD**  
Philadelphia, Pennsylvania



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Saranac Lake, New York
- Dan Li, PhD**  
Houston, Texas
- Jianxu Li, PhD**  
Atlanta, Georgia
- Lin-xi Li, PhD**  
St. Paul, Minnesota
- Songqing Li, PhD**  
Memphis, Tennessee
- Shang L. Lian, PhD**  
Memphis, Tennessee
- Scott M. Lieberman, MD, PhD**  
Philadelphia, Pennsylvania
- Fanching Lin, PhD**  
Frederick, Maryland
- Evan F. Lind, PhD**  
Toronto, Canada
- Jianyun Liu, PhD**  
Indianapolis, Indiana
- Mingyu Liu, PhD**  
New York, New York
- Yingru Liu, PhD**  
Buffalo, New York
- Jinghua Lu, PhD**  
Rockville, Maryland
- Heather E. Lynch, PhD**  
Durham, North Carolina
- Narsa R. Machireddy, PhD**  
Baltimore, Maryland
- R. K. Subbarao Malireddi, PhD**  
Memphis, Tennessee
- Assaf Marcus, PhD**  
Rehovot, Israel
- Katie L. Marks, MD**  
Philadelphia, Pennsylvania
- Kathleen Marran-Nichol, PhD**  
Omaha, Nebraska
- Monica A. McArthur, MD, PhD**  
Baltimore, Maryland
- Megan E. McBee, PhD**  
Chicago, Illinois
- Nathanael McCurley, PhD**  
Atlanta, Georgia
- Lisa M. McEwen, PhD**  
Athens, Georgia
- Parul Mehra, PhD**  
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- Gabriela Mellado-Sanchez, PhD**  
Baltimore, Maryland
- Juscilene S. Menezes, PhD**  
La Jolla, California
- Christian F. Meyer, MD, PhD**  
Baltimore, Maryland
- Suzanne A. Miles, PhD**  
Tannersville, Pennsylvania
- Pankaj Kumar Mishra, PhD**  
Newark, New Jersey
- Charlotte Mitchell, PhD**  
New Haven, Connecticut
- Vaishali Moulton, MD, PhD**  
Boston, Massachusetts
- Karen M. Muindi, PhD**  
Bethesda, Maryland
- Sarah C. Mullaly, PhD**  
Vancouver, Canada
- Yousuke Murakami, PhD**  
Rockville, Maryland
- Trinh T. Nguyen, DO**  
Houston, Texas
- Quan M. Nhu, PhD**  
Baltimore, Maryland
- Enayat Nikoopour, PhD**  
London, Canada
- Modesta N. Njau, PhD**  
Atlanta, Georgia
- Leela E. Noronha, DVM**  
Ithaca, New York
- Elizabeth B. Norton, PhD**  
New Orleans, Louisiana
- Geraldine M. O'Conner, PhD**  
Frederick, Maryland
- Javier Gordon Ogembo, PhD**  
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- Olabisi O. Ojo, PhD**  
Pittsburgh, Pennsylvania
- Chetachi A. Okereke, MD**  
Los Angeles, California
- Jessica J. O'Konek, PhD**  
Bethesda, Maryland
- Reiko Onishi, PhD**  
Pittsburgh, Pennsylvania
- Selinda J. Orr, PhD**  
Frederick, Maryland
- Ananta Paine, PhD**  
Hannover, Germany
- Yuk Pheel Park, PhD**  
Rockville, Maryland
- Chiraag S. Patel, MD**  
Philadelphia, Pennsylvania
- Nikolaos E. Patsoukis, PhD**  
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- Sudesh Pawaria, PhD**  
Pittsburgh, Pennsylvania
- Martin Pelletier, PhD**  
Bethesda, Maryland
- Meghan Pennini, PhD**  
Baltimore, Maryland
- Julia Pinkhasov, PhD**  
Bethesda, Maryland
- Gianfranco Pittari, MD**  
New York, New York
- Qian Qi, PhD**  
University Park, Pennsylvania
- Xiaohua Qi, PhD**  
Bronx, New York
- Maire F. Quigley, PhD**  
Bethesda, Maryland
- Sandeep K. Raghuvanshi, PhD**  
Durham, North Carolina
- Rajesh Rajaiah, PhD**  
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- Claudia Rival, PhD**  
Charlottesville, Virginia
- Rebekah A. Robinette, PhD**  
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Bethesda, Maryland
- Jerod A. Skyberg, PhD**  
Bozeman, Montana
- Chang Song, PhD**  
Baltimore, Maryland
- Uma Sriram, PhD**  
Philadelphia, Pennsylvania
- Jason E. Stadanlick, PhD**  
Philadelphia, Pennsylvania
- Joshua A. Steinberg, MD**  
Philadelphia, Pennsylvania
- C. Andrew Stewart, PhD**  
Frederick, Maryland
- Erica Stone, PhD**  
La Jolla, California
- Ruijun Su, PhD**  
Loma Linda, California
- Ildefonso Vicente Suarez, PhD**  
La Jolla, California
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Pickerington, Ohio
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Bethesda, Maryland
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- Poonam Tewary, PhD**  
Frederick, Maryland
- Sheetal A. Thakur, PhD**  
Durham, North Carolina
- Linjie Tian, PhD**  
Rockville, Maryland
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Memphis, Tennessee
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Tampa, Florida
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Columbia, Maryland
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Los Angeles, California
- Zhaojun Wang, PhD**  
Philadelphia, Pennsylvania
- Kylie E. Webster, PhD**  
Darlinghurst, Australia
- Jennifer H. Wilson-Welder, PhD**  
Albany, New York
- Myriam F. Wlodarczyk, PhD**  
Worcester, Massachusetts
- Amaya I. Wolf, PhD**  
Philadelphia, Pennsylvania
- Laurence M. Wood, PhD**  
Philadelphia, Pennsylvania
- Wenhui Wu, MD**  
Newark, New Jersey
- Zuoxiang Xiao, PhD**  
Lutherville, Maryland
- Yan Xing, PhD**  
Minneapolis, Minnesota
- Yanbao Xiong, PhD**  
Baltimore, Maryland
- Caiyun Xuan, PhD**  
Los Angeles, California
- Heeyoung Yang, PhD**  
Chicago, Illinois
- Kee Thai Yeo, MD**  
Cleveland, Ohio
- Hongen Yin, MD, PhD**  
Bethesda, Maryland
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Indianapolis, Indiana
- Shuyang Yu, PhD**  
Iowa City, Iowa
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Omaha, Nebraska
- Mohammad H. Zaki, PhD**  
Memphis, Tennessee
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New York, New York
- Qing Zhang, PhD**  
La Jolla, California
- Yong Zhang, PhD**  
Philadelphia, Pennsylvania
- Zhijie Zhang, MD**  
Tyler, Texas
- Jincun Zhao, PhD**  
Iowa City, Iowa
- Jingxian Zhao, PhD**  
Iowa City, Iowa
- Fang Zhou, PhD**  
Philadelphia, Pennsylvania



## TRAINEE MEMBERS Predoctoral

**Leah M. Alabanza**  
Ithaca, New York

**Davron Aliev**  
Anaheim, California

**Mufadhal M. Alkuhlani**  
Turlock, California

**Angela K. B. Alme**  
Ellicott City, Maryland

**Bryan A. Anthony**  
Columbus, Ohio

**Kelly M. Arcipowski**  
Iowa City, Iowa

**Temitayo O. Awoyomi**  
Newark, New Jersey

**Jung Eun Baik**  
Seoul, South Korea

**Jobert G. Barin**  
Baltimore, Maryland

**Diana P. Barrantes Gomez**  
Baltimore, Maryland

**Agata Bartczak**  
Toronto, Canada

**Salah Eddine Bentebibel, Jr**  
Dallas, Texas

**Mini Bharathan**  
Blacksburg, Virginia

**Fareena Aziz Bilwani**  
Maywood, Illinois

**Shirin Z. Birjandi**  
Maywood, Illinois

**Lisa K. Blum**  
Ithaca, New York

**Anthony J. Bonito**  
New York, New York

**Sandra Bonne-Annee**  
Philadelphia, Pennsylvania

**Astrid Bonnegrade**  
Columbus, Ohio

**Kevin Bonney**  
Chicago, Illinois

**Immacolata Brigida**  
Milan, Italy

**Laura J. Broederdorf**  
Little Rock, Arkansas

**Danny Bruce**  
University Park, Pennsylvania

**Amber L. Buel**  
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Norfolk, Virginia

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Indianapolis, Indiana

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**Christian M. Capitini**  
Bethesda, Maryland

**Tatiana Cardenas**  
Nashville, Tennessee

**Julio A. Carrion**  
Miller Place, New York

**Maria Carmina Castiello**  
Milan, Italy

**Dana L. Catalfamo**  
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London, United Kingdom

**Christina M. Ceccato**  
Baltimore, Maryland

**Cristen B. Chafin**  
Blacksburg, Virginia

**Rudragouda Channappanavar**  
Rochester, Michigan

**Emily J. Chen**  
Philadelphia, Pennsylvania

**Ping Chen**  
Baltimore, Maryland

**Yao Chen**  
Birmingham, Alabama

**Xiao Jing (Celia) Chen**  
Atlanta, Georgia

**Shin-Heng Chiou**  
Houston, Texas

**Weijen Chua**  
St. Louis, Missouri

**Sarah E. Church**  
Portland, Oregon

**Kelly C. Cochrane**  
Brunswick, Maine

**Erin L. Collins**  
Gainesville, Florida

**Lisa Marie Connor**  
Saranac Lake, New York

**Evann Corbo**  
Philadelphia, Pennsylvania

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New Orleans, Louisiana

**Melissa L. Cullimore**  
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Baltimore, Maryland

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Bethesda, Maryland

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Birmingham, Alabama

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**Priyanka Duttgupta**  
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San Francisco, California

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Houston, Texas

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West Lafayette, Indiana

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Seattle, Washington

**Suzanne M. Hirst**  
Blacksburg, Virginia

**Samantha Hoskins**  
Lexington, Kentucky

**Johanna A. Hoyos**  
Totowa, New Jersey

**Joyce Kimberly Hu**  
San Francisco, California

**Xiaolin Hu**  
Augusta, Georgia

**Min-Nung Huang**  
Chapel Hill, North Carolina

**Weishan Huang**  
Ithaca, New York

**Shenq-Shyang Huang**  
Tainan, Taiwan

**Krystalyn E. Hudson**  
Decatur, Georgia

**Lucas M. Huntimer**  
Ames, Iowa

**Shaunna M. Huston**  
Calgary, Canada

**Sara J. Ireland**  
Dallas, Texas

**Madhumita Jagannathan**  
Boston, Massachusetts

**Alessandra M. R. Jales**  
Arlington, Virginia

**Tanner M. Johanns**  
Minneapolis, Minnesota

**Candice A. Johnson**  
Nashville, Tennessee

**Kristen L. Johnson**  
Winston-Salem, North Carolina

**Nicholas R. Jones**  
Birmingham, Alabama

**Shannon Z. Jones**  
Chapel Hill, North Carolina

**Samireh Jorfi**  
London, United Kingdom

**Tamer Kahraman**  
Ankara, Turkey

**Siddha N. Kasar**  
Newark, New Jersey

**Caroline A. Keegan**  
Los Angeles, California

**Shilpa Keerthivasan**  
Maywood, Illinois

**Deena Khan**  
Blacksburg, Virginia

**Samia Q. Khan**  
Miami, Florida

**Kyungjin Kim**  
Boston, Massachusetts

**Sun Kyung Kim**  
Seoul, South Korea

**Tae Kon Kim**  
Miami, Florida

**Radhika G. Kini**  
Boston, Massachusetts

**Kaori Knights**  
Manhattan, Kansas

**Tony A. Koehn**  
Madison, Wisconsin

**Jill Konowich**  
Newark, New Jersey

**Michael J. Korrer**  
Milwaukee, Wisconsin

**Kirsten A. Kulcsar**  
Baltimore, Maryland

**Cathryn J. Kurkjian**  
Lexington, Kentucky

**Rebecca L. Lamason**  
Baltimore, Maryland

**Nathaniel Lambert**  
Grand Forks, North Dakota

**Kenneth K. Lau**  
Gainesville, Florida

**David J. Leggat**  
Toledo, Ohio

**Fengyang Lei**  
Hershey, Pennsylvania

**Steven Leonardo**  
Milwaukee, Wisconsin

**Stefanie M. Lew**  
Baltimore, Maryland

**Hao Li**  
Birmingham, Alabama

**Joanne Yong-Huey Lim**  
Rochester, New York

**Pei-Yi Lin**  
San Antonio, Texas

**Wen-Hsuan Lin**  
Baltimore, Maryland

**Juan Liu**  
Little Rock, Arkansas

**Yi Liu**  
Cleveland, Ohio

**Ying-Chun Lo**  
Towson, Maryland

**Michela Locci**  
Milan, Italy

**Christopher P. Loo**  
Portland, Oregon

**Laureanne Pilar E. Lorenzo**  
Baltimore, Maryland

**Sahar Lotfi-Emran**  
Richmond, Virginia

**Kara M. Lough**  
Aurora, Colorado

**Wangko Lundstrom**  
Washington, DC

**Daphne Lyonga**  
London, United Kingdom

**Diogo de Mattos Magnani**  
Madison, Wisconsin

**Deeqa A. Mahamed**  
Ithaca, New York

**Sivabalan Manivannan**  
Baltimore, Maryland

**Obadiah Manley**  
Baltimore, Maryland

**Gregor Manukian**  
New Orleans, Louisiana

**Kate A. Markey**  
Brisbane, Australia



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Chicago, Illinois
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Iowa City, Iowa
- Kimberly A. McDowell**  
Madison, Wisconsin
- Ann J. McPherson**  
Toronto, Canada
- Manali Dhirendra Mehta**  
Los Angeles, California
- Talibah U. Metcalf**  
Baltimore, Maryland
- Mirjam F. Metzner**  
San Francisco, California
- Amber D. Miller**  
Pearland, Texas
- Jennifer C. Miller**  
New York, New York
- Angela M. Mitchell**  
Bozeman, Montana
- Rachel L. Morgan**  
Ann Arbor, Michigan
- Dan Mori**  
Syracuse, New York
- Safiekhatoon Moshkani**  
Rochester, New York
- Sachia Mulik**  
Knoxville, Tennessee
- Manjunatha Ankathatti Munegowda**  
Saskatoon, Canada
- Amanda J. Murphy**  
Bozeman, Montana
- Sabrina L. Murray**  
Raleigh, North Carolina
- Roopa Hebbandi Nanjundappa**  
Saskatoon, Canada
- Priya Narayanan**  
Houston, Texas
- William T. Nash**  
Charlottesville, Virginia
- Prabitha Natarajan**  
Farmington, Connecticut
- Hristina Nedelkovska**  
Rochester, New York
- Ryan W. Nelson**  
Minneapolis, Minnesota
- Yolanda C. Nesbeth**  
Lebanon, New Hampshire
- Tiffany N. Newman**  
Philadelphia, Pennsylvania
- Christopher J. Nirschl**  
Baltimore, Maryland
- Aleksey A. Novikov**  
Bethesda, Maryland
- Patricia L. Novy**  
Durham, North Carolina
- Rebecca Obeng**  
Charlottesville, Virginia
- Jot Hui Ooi**  
University Park, Pennsylvania
- Akimbolape O. Oyegunwa**  
Raleigh, North Carolina
- Hao Pan**  
Duarte, California
- Kiwon Park**  
Baltimore, Maryland
- Benjamin V. Park**  
Baltimore, Maryland
- Sarah M. Parker**  
Lexington, Kentucky
- Rose M. Parkinson**  
Baltimore, Maryland
- Yfke Pasman**  
Guelph, Canada
- Nirav D. Patel**  
Newark, New Jersey
- Kristen E. Pauken**  
Minneapolis, Minnesota
- Lasse Eggers Pedersen**  
Copenhagen, Denmark
- Tanuja Harshani Peiris**  
Merced, California
- Samuel Troy Pellom, Jr.**  
Winston-Salem, North Carolina
- Pablo A. Penalosa-MacMaster**  
Decatur, Georgia
- Karlo Perica**  
Baltimore, Maryland
- Yashdeep Phanse**  
Ames, Iowa
- Piotr L. Pierog**  
Newark, New Jersey
- Kristen N. Pollizzi**  
Baltimore, Maryland
- Michael James Porter**  
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Baltimore, Maryland
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Omaha, Nebraska
- William J. Quinn, III**  
Philadelphia, Pennsylvania
- Ali Radjavi**  
Charlottesville, Virginia
- Indu Rekha Ramachandran**  
Houston, Texas
- Jeremy P. Ramsey**  
Nashville, Tennessee
- Andrew G. Ramstead**  
Bozeman, Montana
- Parvathi Ranganathan**  
Tucson, Arizona
- Shuyun Rao**  
Philadelphia, Pennsylvania
- Susan Realegeno**  
Los Angeles, California
- Dawn K. Reichenbach**  
Pittsburgh, Pennsylvania
- Angela M. Richardson**  
Philadelphia, Pennsylvania
- Peter Ross**  
Raleigh, North Carolina
- William H. Rounds**  
Dallas, Texas
- Benjamin J. Rudenga**  
Farmington, Connecticut
- Manoranjan Sahoo**  
Jackson, Mississippi
- Naresha Saligrama**  
Burlington, Vermont
- Marisel Sanchez**  
Los Angeles, California
- Samar Sayedyahosseini**  
London, Canada
- Lori L. Scardino**  
Waunakee, Wisconsin
- Uciane Kimble Scarlett**  
Lebanon, New Hampshire
- Taylor H. Schreiber**  
North Bay Village, Florida
- Teresa K. Schuessler**  
Chicago, Illinois
- James T. Schuman**  
Milwaukee, Wisconsin
- John A. P. Sekar**  
Pittsburgh, Pennsylvania
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Temple Terrace, Florida
- Shalini Sharma**  
Knoxville, Tennessee
- Namit Sharma**  
Kingston, Canada
- Kristen E. Shatynski**  
Baltimore, Maryland
- Kevin Shenderov**  
Bethesda, Maryland
- Chao Shi**  
New York, New York
- Samuel K. Shimp, III**  
Blacksburg, Virginia
- Jessica Shiu**  
Baltimore, Maryland
- Aimee L. Signarovitz**  
San Antonio, Texas
- Fenna C. M. Sille**  
Boston, Massachusetts
- Daimon P. Simmons**  
Cleveland, Ohio
- Laura C. Simone**  
Omaha, Nebraska
- Bryan J. Simons**  
Missoula, Montana
- Denise Skrombolas**  
Rochester, New York
- Samantha R. Slight**  
Pittsburgh, Pennsylvania
- Annalise R. Smith**  
Miami, Florida
- Elizabeth Sorensen**  
Rochester, New York
- Alana Sterkel**  
Madison, Wisconsin
- Meenakshi Subramanian**  
Boston, Massachusetts
- Erin K. Sully**  
Albuquerque, New Mexico
- Sumali Sumali**  
Fargo, North Dakota
- Aarthi Sundararajan**  
Knoxville, Tennessee
- Ewa Szymanska**  
Birmingham, Alabama
- Matthew Tangeman**  
New York, New York
- Ibrahim Firat Tas**  
Ankara, Turkey
- Katherine G. Taylor**  
Galveston, Texas
- Tiffany N. Telarico**  
Syracuse, New York
- Rebecca R. Terilli**  
Ellicott City, Maryland
- Erik Thiele-Orberg**  
Baltimore, Maryland
- Kimberly A. Thomas**  
Birmingham, Alabama
- Heather L. Thompson-Ryder**  
Merced, California
- Gizem Tincer**  
Ankara, Turkey
- Matthew S. Tsai**  
Miami, Florida
- Brandon S. Twardy**  
Warren, Michigan
- Andrew F. Tyler**  
Dallas, Texas
- Channakeshava Sokke Umeshappa**  
Saskatoon, Canada
- Kaitlyn M. Vernier**  
Farmington, Connecticut
- Rodolfo D. Vicetti Miguel**  
Pittsburgh, Pennsylvania
- Prachi S. Vilekar**  
Oklahoma City, Oklahoma
- Jeffrey M. Walch**  
Pittsburgh, Pennsylvania
- Margaret E. Walker**  
Chicago, Illinois
- Lyn M. Wancket**  
Columbus, Ohio
- Xiaoja Wang**  
Greenville, North Carolina
- Lisa N. Wasilewski**  
Baltimore, Maryland
- Stephanie M. Waters**  
Lincoln University, Pennsylvania
- Abby Jones Weldon**  
Loma Linda, California
- Erin E. West**  
Atlanta, Georgia
- Karla R. Wiehagen**  
Philadelphia, Pennsylvania
- Joel R. Wilmore**  
Syracuse, New York
- Evandro R. Winkelmann**  
Galveston, Texas
- Benjamin J. Wolf**  
Syracuse, New York
- Jacqueline A. Wright**  
Miami, Florida
- Jing Wu**  
Buffalo, New York
- Yufei Xiang**  
New Haven, Connecticut
- Gang Xin**  
London, United Kingdom
- Fuat Cem Yagei**  
Ankara, Turkey
- Jihyun Yang**  
Seoul, South Korea
- John S. Yi**  
Birmingham, Alabama
- Abebayehu N Yilma**  
Montgomery, Alabama
- Yiyuan Yin**  
Rockville, Maryland
- Yao Yuan**  
Newark, New Jersey
- Arielle Glatman Zaretsky**  
Philadelphia, Pennsylvania
- Amir E. Zeituni**  
Stony Brook, New York
- Bodi Zhang**  
Boston, Massachusetts
- Zilu Zhu**  
Birmingham, Alabama
- Mary A. Zimmerman**  
Augusta, Georgia



# Members in the News

## Peter Cresswell, Jack Elias, Stephen Galli Elected to Institute of Medicine

Three AAI members are among 65 scientists recently elected to the Institute of Medicine (IOM). One of the highest honors in the fields of health and medicine, IOM election recognizes individuals who have demonstrated outstanding professional achievement and commitment to service and made major contributions to the advancement of the medical sciences and public health.

### Peter Cresswell, Ph.D., AAI '76

*Howard Hughes Medical Institute Investigator;  
Eugene Higgins Professor of Immunobiology;  
Department of Immunobiology, Yale University  
School of Medicine*

Research in the Cresswell lab explores major histocompatibility complex (MHC) molecules, their assembly, peptide association, and subsequent T cell stimulation, and the role of T cell recognition of MHC in many cell-mediated autoimmune diseases. Antigen processing and the mechanisms of action of antiviral proteins stimulated by interferons constitute the two principal interests of the lab. A second area of interest in MHC class I molecules lies in the phenomenon of cross-presentation, which is essential for priming the response of naïve CD8<sup>+</sup> T cells to viral antigens *in vivo*. In addition, work on MHC class II molecules currently focuses on the role of GILT in MHC class II-restricted antigen processing. Additional lab interests center on CD1d molecules, which are structurally similar to MHC class I molecules but bind lipids rather than peptides, and on the functions of interferon-inducible proteins, including viperin, a protein identified and named by the Cresswell lab.

“It’s a great honor to be elected to the Institute of Medicine (IOM),” noted Cresswell, “and a testament to the hard work and creativity of the postdoctoral fellows and graduate students who have worked with me over the years. It is notable that I was elected even though I am not medically qualified. This reflects the fact that immunology is of critical importance to clinical medicine, and if I can do anything within the IOM, it will be to bring focus on the importance of understanding basic mechanisms in an era that emphasizes translational approaches.”

Cresswell received his B.Sc. in chemistry and M.Sc. in microbiology from the University of Newcastle Upon Tyne, United Kingdom, and his Ph.D. in biochemistry and immunology from the University of London. He undertook postdoctoral training in biochemistry and molecular biology at Harvard University. He subsequently held appointments as assistant, associate, and full professor in the Department of Microbiology and Immunology at Duke



Peter Cresswell



Jack Elias



Stephen Galli

University, where he also served as Immunology Division chief. He has held his HHMI and Yale appointments since 1991.

A past AAI Distinguished Lecturer and Major Symposium speaker at the AAI annual meeting, Cresswell has served on the AAI Awards Committee, AAI Nominating Committee, and AAI Program Committee. He is also a past associate and section editor for *The Journal of Immunology*.

Cresswell’s additional professional honors and appointments include: Fellow, The Royal Society; The Royal Society Buchanan Medal; Member, American Academy of Arts and Sciences; Member, National Academy of Sciences; ASHI Rose Payne Distinguished Scientist Award; Member, Committee on Recommendations for U.S. Army Basic Scientific Research National Research Council; Scientific Advisory Council, Cancer Research Institute; Scientific Advisory Board, The Jane Coffin Childs Memorial Fund; Scientific Advisory Board, Immunology Program, National University of Singapore; Scientific Advisory Board, Center for HIV/AIDS Vaccine Immunology (CHAVI); Member, College of CSR (Center for Scientific Review) Reviewers, NIH; and editorial board service with *Human Immunology*, *Protein Science*, *Immunity*, *Annual Review of Immunology*, *Traffic*, *PNAS*, *Nature Reviews Immunology*, *Tissue Antigens*, *Immunological Reviews*, *Annual Review of Cell and Developmental Biology*, and *Immunology*.

*Continued next page*

# Members in the News (continued)

*IOM Electees, continued from page 15*

## **Jack A. Elias, M.D., AAI '86**

*Waldemar Von Zedtwitz Professor of Medicine; Professor of Immunobiology; Chair, Department of Internal Medicine; Yale School of Medicine*

Elias's career research has focused on cellular and molecular events involved in the pathogenesis of injury and repair in the lung, including the roles that cytokines play in these responses and how their production and effector functions are regulated. His studies have defined the cellular sources of many inflammatory and anti-inflammatory cytokines in the lung. These studies highlighted the cytokine networks that regulate their production, the transcriptional and post-transcriptional mechanisms and receptors and signaling pathways that mediate these events, and their regulation during important pulmonary states such as aeroallergen challenge, virus infection, innate immune activation, and lung injury and repair.

Recently, the Elias laboratory has pioneered the use of transgenic mice to address the paradigm of "genes without known functions," developing approaches that allow investigators to overexpress proteins in a lung-specific fashion. The lab has championed the use of triple transgenic mice allowing investigators to control the timing of the expression of an otherwise lethal transgene. Mice resulting from this work have proved to be extremely useful models of key pulmonary disorders including asthma, chronic obstructive pulmonary disease, pulmonary fibrosis, and acute lung injury and have been distributed widely to investigators in academia and industry. The group's observations have spurred wider efforts to define the roles of various moieties as biomarkers and therapeutic targets.

"I am excited to be elected to the Institute of Medicine (IOM) and honored to be working with the outstanding members of the organization," said Elias. "The honor reflects the wonderful fellows and faculty I have had a chance to work with in the Section of Pulmonary and Critical Care Medicine and the Departments of Medicine and Immunobiology at Yale. I am looking forward to contributing to the important issues that the IOM addresses."

Elias received his B.A. (summa cum laude) and M.D. degrees from the University of Pennsylvania. He completed a medical internship and junior residency at Tufts-New England Medical Center and a senior residency and fellowships (allergy and immunology; pulmonary and critical care medicine) at the Hospital of the University of Pennsylvania. He subsequently served as an assistant and then an associate professor at the University of Pennsylvania School of Medicine.

He joined the Yale University School of Medicine in 1990 as full professor and head of the Section of Pulmonary and Critical Care Medicine. He is a member of the Yale Comprehensive Cancer Center, Chief of Pulmonary and Critical Care Medicine at Yale University School of Medicine, and Physician-in-Chief at Yale-New Haven Hospital.

Elias is a past Major Symposium speaker at the AAI annual meeting and has served as an ad hoc reviewer for *The Journal of Immunology*. His additional career honors and appointments include: Edward Livingston Trudeau Scholar Award; Leonard Dalsemer Scholar Award; Established Investigator Award, American Lung Association; Recognition Award for Scientific Accomplishment, American Thoracic Society (ATS); member, ATS Program Committee and Asthma Advisory Committee; Secretary, Vice President, and President, ATS Allergy, Immunology, and Inflammation Scientific Assembly; and President, ATS Scientific Advisory Council. He is a member of the American Society for Clinical Investigation (ASCI) and the Association of American Physicians (AAP), where he is a past councillor and current president. He currently serves on the Council of the National Heart, Lung, and Blood Institute at NIH.

## **Stephen J. Galli, M.D., AAI '80**

*Professor and Chair, Department of Pathology; Professor of Microbiology and Immunology; Mary Hewitt Loveless, M.D., Professor; Stanford University School of Medicine*

Research in the Galli laboratory focuses on the development and function of mast cells and basophils, the major effector cells of asthma and other IgE-associated allergic disorders and immune responses to parasites, and on the development of new animal models for studying the roles of these cells in health and disease. The group explores the role of mast cells as effector and/or immunoregulatory cells in a variety of settings, including certain autoimmune or inflammatory disorders, innate immune responses to pathogens, and resistance to exogenous and endogenous agents which can express significant toxicity. Also of interest is the prospect that mast cells may contribute importantly in certain settings to angiogenesis (the regulation of epithelial development and function) and fibrosis, and to other examples of tissue remodeling.

In addition to pursuing development and employment of genetic approaches in mice to understand these cells, the lab investigates the roles of mast cells in human health and disease by conducting

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studies of human mast cells or by analyzing specimens derived from patients with asthma or other disorders in which mast cells have been implicated.

Of his IOM election, Galli said: "I am very pleased to have been elected to the Institute of Medicine, an institution populated by many admired friends and colleagues, including many members of the AAI. There clearly is much work for the institute to do in fulfilling its role to advise our government on problems and critical issues that affect the health of the public, and I hope to contribute to that effort."

Galli received his B.A. in biology from Harvard College and M.D. from Harvard Medical School (HMS). He completed a residency in anatomic pathology at Massachusetts General Hospital, where he undertook additional postdoctoral training with Harold Dvorak. Galli later joined the HMS faculty as assistant professor of pathology, and became professor of pathology in 1993. While at HMS, he also served as director of the Division of Experimental Pathology at Beth Israel Deaconess Medical Center and as a member of the HMS Committee on Immunology.

Galli has held his current Stanford appointments, which include chief of the pathology service at Stanford Hospital and Clinics, since 1999. He is also a member of the executive committees for the Stanford Institute for Immunity, Transplantation and Infection and the Stanford Cancer Center and is co-director of the Stanford Center for Genomics and Personalized Medicine.

A past AAI Program Committee member and AAI abstract programming chair, Galli has served as a Major Symposium chair and speaker at the AAI annual meeting. His additional professional appointments and honors include: NIAID/NIH MERIT Award; Scientific Achievement Award, International Association of Allergy & Clinical Immunology; president, American Society for Investigative Pathology; member, Pluto Club (Association of University Pathologists); member and president (2010–2014), Collegium Internationale Allergologicum; member, American Society for Clinical Investigation; member, Association of American Physicians; and foreign member, Accademia Nazionale dei Lincei in Rome, regarded as the oldest secular scientific society in the western world. Galli has served on the editorial boards of *The Journal of Experimental Medicine*, *The Annual Review of Pathology; Mechanisms of Disease*, *Allergology International*, *Laboratory Investigation*, and *International Immunology*.

## Michael Bevan is Recipient of Novartis Basic Immunology Prize

Michael J. Bevan, Ph.D., F.R.S., AAI '78, has been awarded the 2010 Novartis Prize for Basic Immunology. Awarded triennially, Novartis Immunology Prizes recognize individuals for outstanding contributions to basic and clinical immunology.



Bevan was honored for his research on T cell selection and regulation and memory formation of CD8<sup>+</sup> cytotoxic T lymphocytes (CTL) in response to pathogens.

His observations have led to a better understanding of how effective memory responses of T cells are generated and are the basis for a number of current strategies underlying immunotherapy and cancer vaccine development.

Bevan is a Howard Hughes Medical Institute investigator and professor of immunology at the University of Washington. His work on T lymphocyte development, homeostasis, and function explores the signals required during an infection to drive the differentiation of CTL into long-lived memory cells that provide protection against a subsequent encounter with the pathogen. The Bevan lab studies the means by which CTL mature and recognize peptide fragments of proteins of viral or bacterial origin bound by class I MHC molecules. The research seeks to develop a detailed description of how cytotoxic T cells mature, how the response to foreign antigens is regulated, the processes by which antigens are presented in vivo, and how long-lived protective memory to pathogens is achieved. The Bevan lab also studies those peripheral T cells which recognize self antigen with a low affinity but which can cause autoimmunity, such as diabetes, when activated by a pathogen bearing a cross-reactive antigen.

Dr. Bevan received his B.Sc. in zoology and M.Sc. in biochemistry from University College, London, and his Ph.D. in immunology via the Council for National Academic Awards for work at the National Institute for Medical Research, Mill Hill, London (supervisor: B. Askonas). Prior to joining the University of Washington in 1990, he held appointments at Scripps Research Institute, Massachusetts Institute of Technology, and The Salk Institute.

A past AAI Distinguished Lecturer and President's Symposium speaker, Bevan was the recipient of the AAI-Invitrogen Meritorious Career Award (2009) and AAI

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# Members in the News (continued)

*Bevan, continued from page 17*

Excellence in Mentoring Award (2000). He has served on the AAI Awards Committee, as an AAI Advanced Immunology Course instructor, and as a deputy editor for *The Journal of Immunology*.

Bevan's other career honors and appointments include: Fellow, Royal Society of London; Member, U.S. National Academy of Sciences; Fellow, American Association for the Advancement of Science; William B. Coley Award for Distinguished Research in Basic and Tumor Immunology, Cancer Research Institute; Distinguished Career Award, American Society of Transplant Surgeons; Panel Member, Functional Genomics Initiative, The Wellcome Trust; and Member, NIH/NIAID Allergy, Immunology and Transplantation Research Committee. He has served on a variety of scientific journal editorial boards, including *Current Opinion in Immunology*, *Science*, *Immunity*, *Journal of Experimental Medicine*, and *International Immunology*.

*Recipients of 2010 Novartis Immunology Prizes, presented at the 16th International Congress of Immunology in Kobe, Japan, each received awards of 100,000 Swiss francs (CHF).*

## Carl Ware Joins Sanford-Burnham Research Institute as Center Director

Carl F. Ware, Ph.D., AAI '82, has been appointed director of the Infectious and Inflammatory Disease Center (IIDC) at Sanford-Burnham Medical Research Institute (Sanford-Burnham). As IIDC director, Ware provides scientific vision and leadership for the center while overseeing Sanford-Burnham's work on HIV, influenza, anthrax, rheumatoid arthritis, Crohn's disease, autoimmune disorders, and many other diseases and infections.

Ware's research has focused on the fundamental pathways that control cytokines, including tumor necrosis factor (TNF), and the specifics of TNF superfamily structure and function, signal transduction, and clinical utility. Ware's cytokine research has led to two drugs now in clinical trials. Ware also explores the molecular mechanisms of immune evasion by persistent viruses.



In announcing the appointment, Sanford-Burnham officials cited the significant impact Ware's insights into immune signaling and inflammation and his track record of translating basic research findings into new treatments are anticipated to have on the institute's work in autoimmune, inflammatory, infectious, and other diseases.

Ware looks forward to helping build Sanford-Burnham's ability to combat viral diseases while forging partnerships with pharmaceutical and biotech companies to find new treatments for rheumatoid arthritis, lupus, lymphoma, and other immune-based conditions. "I am excited to be at Sanford-Burnham," said Ware. "I have always been impressed by the [institute's] collaborative environment. In addition to being an excellent place to conduct research, [Sanford-Burnham offers] incredible resources to move research forward toward new therapies. There are many here whose work is poised for translation to the clinic. I want to promote translating lab discoveries into treatments as much as possible."

Ware earned his Ph.D. in molecular biology and biochemistry at the University of California, Irvine (UC Irvine) and conducted his postdoctoral research at UC Irvine, the University of Texas, and the Dana Farber Cancer Institute.

Prior to joining Sanford-Burnham, Ware headed the Division of Molecular Immunology at the La Jolla Institute for Allergy and Immunology, where he had been a researcher since 1996. Before that, he was a professor of immunology at the University of California, Riverside.

Currently a member of the AAI Nominating Committee, Ware has served on the AAI Program Committee, as a member of the AAI Advanced Course faculty, and as a Major Symposium chair and speaker at the AAI annual meeting. He has also served as an associate editor for *The Journal of Immunology*.

Ware's additional professional honors and appointments include: NIAID/NIH MERIT Award; Whittemore Peterson Institute Scientific Advisory Board; NIH Challenge Grant Scientific Review Board; International Cytokine Society President; American Asthma Foundation Scientific Review Board; NIH Regional Centers of Excellence in Biodefense Review Panel; Arthritis National Research Foundation Scientific Advisory Committee Member and Chair; multiple NIH study sections; and editorial board service for scientific journals including *Growth Factor and Cytokine Reviews*, *Journal of Biological Chemistry*, *Journal of Interferon and Cytokine Research*, *Cellular Immunology*, and *Genes and Immunity*.

## José Conejo-Garcia Joins Wistar Institute

José R. Conejo-Garcia, M.D., Ph.D., AAI '09, has been appointed an associate professor in the immunology program at The Wistar Institute. His appointment reflects his standing in the emerging tumor microenvironment field of cancer biology, an area of particular interest to scientists at the Wistar Institute and its Cancer Center.



Conejo-Garcia's research explores how dendritic cells are co-opted by ovarian tumors to aid in their survival against the immune system. These "vascular leukocytes," first defined by Conejo-Garcia and his colleagues in 2005, are unique in that they stimulate growth of blood vessels while also serving a role in regulating the immune system. They help feed a tumor while prompting the immune system to tolerate the tumor's presence. The Conejo-Garcia laboratory has discovered that eliminating these immune cells from the tumor microenvironment kills ovarian tumor cells and may slow aggressive forms of the cancer. In addition, these dendritic cells may also form the basis of a drug delivery system, a means of sneaking cancer-killing particles into ovarian tumors. This "Trojan Horse" approach developed by Conejo-Garcia may lead to better complementary or stand-alone therapies to treat ovarian cancer, which claims the lives of about 15,000 American women annually.

A native of Spain, Conejo-Garcia received his M.D. from the University of Zaragoza and his Ph.D. in molecular oncology from the University of Alcalá. He completed a residency in clinical chemistry at the University Hospital of Guadalajara and undertook additional postdoctoral

training related to pancreatic cancer at the University of Bern in Switzerland. Conejo-Garcia then worked as a postdoctoral researcher and project leader at IPF Pharmaceuticals in Hannover, Germany, before joining the University of Pennsylvania as a postdoctoral researcher and later as research associate. In 2005, he joined the Dartmouth Medical School faculty as assistant professor of microbiology and immunology and of medicine.

Conejo-Garcia has served since 2009 on the AAI Minority Affairs Committee and as an ad hoc reviewer for *The Journal of Immunology*. He is an associate editor for the *American Journal of Translational Research* and has served as a journal reviewer for *Clinical Cancer*, *Cancer Research*, *Cancer Immunology and Immunotherapy*, *Cancer Investigation*, *Expert Opinion in Biological, Gynecologic Oncology*, *International Immunopharmacology*, *Journal of Clinical Investigation*, *Oncogene*, and *Science*. His additional career honors and appointments include: Mentor, NCI National Research Service Award; Liz Tilberis Award for Excellence in Ovarian Cancer Research, Ovarian Cancer Research Fund; Ovarian SPORE Developmental Pilot Project Award, Fox Chase Cancer Center; and Basic Science Poster Award, Society for Gynecologic Oncologists.

The Wistar Institute is an international leader in biomedical research with special expertise in cancer research and vaccine development. Founded in 1892 as the first independent nonprofit biomedical research institute in the country, Wistar has long held the prestigious Cancer Center designation from the National Cancer Institute. The institute works actively to ensure that research advances move from the laboratory to the clinic as quickly as possible. **For more information, visit [www.wistar.org](http://www.wistar.org).**

### SUBMIT YOUR ABSTRACT!

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*The following tribute to retired NIH immunologist Ira Green, M.D., appears courtesy of author William E. Paul, M.D., AAI '67. AAI gratefully acknowledges the submission.*

## Ira Green, M.D., AAI '67

1926–2010

**Ira Green**, a world-leading immunologist and former senior investigator in NIAID's Laboratory of Immunology, died on Oct. 22, 2010, after a long bout with Alzheimer's Disease. He was 84.

Ira was responsible for many major advances in immunology. His most notable accomplishments were in the understanding of how immune response (Ir) genes mediated their function, work that contributed importantly to the Nobel Prize that his research mentor, Baruj Benacerraf, received. He was among the first to use newly developed methods to determine the cellular origins of leukemias and lymphomas and was a leader in the analysis of the biologic properties of Langerhans cells, particularly in the determination of their antigen-presentation capacities.

Ira was born in New York City on June 11, 1926, served in the United States Navy during the Second World War, received a B.A. from New York University in 1949 and an M.D. from the State University of New York Downstate Medical Center in 1954. After house staff training at Montefiore Hospital and the New York Veterans Administration Hospital, he briefly practiced internal medicine and then was a member of the hematology research group at Montefiore Hospital from 1960 to 1964.

In 1964, he boldly changed his career path, and joined the Benacerraf laboratory at the NYU School of Medicine as a Special Fellow of the USPHS. It was there that we met; I arrived in Baruj's lab within 2 weeks of Ira, marking the beginning of a scientific collaboration lasting 22 years and of a friendship ended only by his death.

Under Benacerraf's supervision, Ira was responsible for the NYU lab's research program on Ir genes. Among his notable contributions from that era was the demonstration that in transfer models, monogenic control of responsiveness to simple antigens was a property of the recipient, a finding that paved the way to the understanding that Ir gene products mediated their function on antigen presenting cells, a subject to which he and his post-doctoral fellow Ethan Shevach would make notable contributions after Ira came to NIH in 1968. In the NYU era, Ira also showed that individual antibody-



producing cells secreted antibodies of only a single specificity, a notable confirmation of the clonal selection theory.

After returning briefly to Montefiore, Ira joined Benacerraf and myself in 1968 in moving to the Laboratory of Immunology. He became a senior investigator in LI, a position he held until 1986. At NIH, he made major contributions to determining the locus of action of Ir gene products, to the recognition that these were class II MHC molecules and to the demonstration that they played a key role in the activation of antigen-specific T cells. Much of this

work was carried out with Ethan Shevach.

Ira then turned his attention to his original research theme, hematology, and used the developing tools of immunology to identify the cellular origin of various leukemias and lymphomas, working with an exceptional group of colleagues including Elaine Jaffe, Rick Edelson, Michael Frank, and Ethan Shevach. One of Ira's most endearing and important traits was his ability to spot the ways in which individuals with different skills and knowledge could be brought together into a highly productive collaborative group. He was always the spark plug of such interactions and made it possible for a wide range of important discoveries to be made. Another notable area was his work on understanding the immunologic function of epidermal Langerhans cells, where he collaborated closely with Steve Katz, George Stingl, Ethan Shevach, and others.

Ira trained a remarkable series of research fellows who became highly successful independent scientists, including Laurie Glimcher and Ethan Shevach.

Ira's work was recognized by election to the American Society for Clinical Investigation, by the receipt of a USPHS Superior Service Award and of the Philip Hench Award from the Association of Military Surgeons of the United States. He was listed by Current Contents as among the 300 most highly cited scientists for the period 1965–1978.

*Continued on page 25*



# The Scientist Publishes Results of Life Sciences 2010 Salary Survey

Life scientists in the U.S. reported a dip in salaries during the past 12 months, according to *The Scientist's* 2010 Survey of Compensation of Life Scientists. The decrease reported in the magazine's November 2010 issue was the first recorded in the 10-year history of the survey. The drop was felt in nearly all primary specialties, some by as much as \$20,000 (ecology) and \$28,000 (virology).

Overall, salaries are taking a hit as “universities cut bonuses, enforce furloughs, drag out hiring freezes, and even ask faculty members to take one for the team by accepting salary cuts,” writes Megan Scudellari in *The Scientist* (Volume 24, Issue 11).

The \$103,500 median salary reported by AAI members for 2010 reflected a drop of \$16,500, or 13.3 percent, during the 12 months following the 2009 survey.

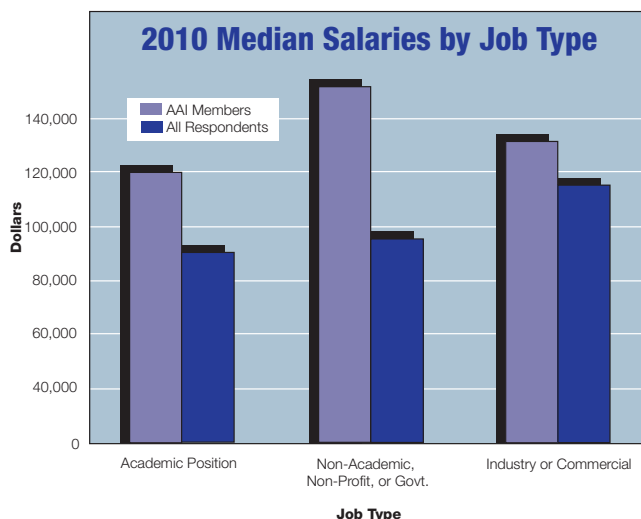
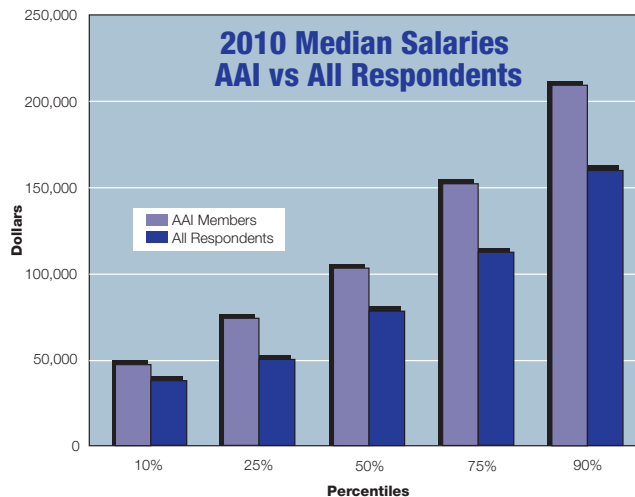
Still, AAI members fared better than others during the reporting period, citing a median salary 32.6 percent higher than the \$78,000 aggregate median of all respondents. Average salaries reported by AAI members were 24 percent higher than the aggregate mean for all respondents — \$123,000 versus \$99,261.

Bioinformatics was among the few specialties to show an increase, attributable, some say, to increasing requirements in NIH RFAs for informatics components in large projects. Biophysics, biotechnology, and neuroscience specialties also rose, albeit modestly and none yet to the average earning levels of immunologists.

Furloughs for researchers with ongoing laboratory experiments generally translate into pay cuts rather than vacations, according to scientists interviewed for the report. The impact of the cuts is deepened by the rising cost of living, a rise which extends to the cost of running a lab. As a consequence, researchers say they spend more and more of their time writing grant proposals.

Reported earnings varied according to the ethnic origin of respondents, with highest median incomes reported by white/Caucasian respondents (non-Hispanic) and lower median incomes reported by respondents self-identified as Black/African American, Native Hawaiian or Other Pacific Islander, Multiracial, Asian, and Native American or Alaska Native, respectively. The gender gap persists. The median salary reported by female AAI respondents across all job types was 17 percent lower than the median for their male counterparts. For survey participants across all specialties, women reported median salaries 26 percent lower than those reported by men.

Regional differences remain pronounced, with the coasts typically offering higher salaries than other regions. To view how compensation varied according to factors cited here plus such variables as length of service, level



of management responsibility, and type of institution, visit “Life Sciences Salary Survey 2010”—*The Scientist*—Magazine of the Life Sciences at [www.the-scientist.com/article/display/57788/](http://www.the-scientist.com/article/display/57788/).

The survey was conducted from March 15 to June 28, 2010. AAI was among participating societies promoting the survey to members. Participation was promoted also to readers of *The Scientist* and to visitors to the magazine's website. Published results reflect usable responses received from 6,776 individuals in the United States, of whom 473 identified themselves as AAI members and 583 identified immunology as their primary specialization.

# AAI Travel Grants Support 41 Member Attendees at the 14th International Congress of Immunology

Forty-one AAI members received AAI travel support to attend the 14th International Congress of Immunology (ICI), August 22–27, 2010, in Kobe, Japan.

The AAI travel grants provided recipients with up to \$1,500 each in reimbursement for travel to the Congress. AAI trainee and junior faculty members in good standing who submitted abstracts to the ICI were eligible to apply.

Applications were received from 84 eligible AAI members. Those selected for AAI travel grants to attend ICI 2010 are listed below.



## AAI Member Recipients of AAI Travel Grants for 14th International Congress of Immunology

### **Ulus Atasoy, MD**

Assistant Professor, University of Missouri, Columbia

### **Shanjana Awasthi, PhD**

Assistant Professor, University of Oklahoma Health Science Center

### **Deepta Bhattacharya, PhD**

Assistant Professor, Washington University

### **Onur Boyman, MD**

Clinical Resident and Lecturer, University Hospital of Lausanne

### **William F. Carson IV, PhD**

Postdoctoral Trainee, University of Michigan

### **Meredith J. Crane**

Predoctoral Trainee, Brown University

### **Hans Doms, PhD**

Assistant Adjunct Professor, University of California, San Francisco

### **Michael L. Freeman, PhD**

Postdoctoral Trainee, Trudeau Institute

### **David R. Gibb**

Predoctoral Trainee, Virginia Commonwealth University

### **Peng Guo, PhD**

Postdoctoral Trainee, Emory University

### **Rizwanul Haque, PhD**

Postdoctoral Trainee, Pennsylvania State University

### **De'Broski Herbert, PhD**

Assistant Professor, Cincinnati Children's Hospital Medical Center

### **Venkatesh Jeganathan, PhD**

Research Scientist, Feinstein Institute for Medical Research

### **Jacob E. Kohlmeier, PhD**

Research Assistant Member, Trudeau Institute

### **Uday Kumaraguru, PhD**

Assistant Professor, East Tennessee State University

### **Bin Li, PhD**

Principal Investigator, Institut Pasteur of Shanghai Chinese Academy of Sciences

### **Stephen O. Mathew, PhD**

Research Assistant Professor, University of North Texas Health Science Center

### **Sandra V. Mayer, DVM**

Postdoctoral Trainee, University of Texas Medical Branch at Galveston

### **Caroline McPhee, DVM**

Postdoctoral Trainee, The Jackson Laboratory

### **Halima Moncrieffe, PhD**

Postdoctoral Trainee, Institute of Child Health University College London

### **Margaret A. Morris, PhD**

Assistant Professor, Eastern Virginia Medical School

### **Amarjit S. Naura, PhD**

Postdoctoral Trainee, Louisiana State University Health Sciences Center

### **Roza I. Nurieva, PhD**

Assistant Professor, University of Texas M. D. Anderson Cancer Center

### **Santiago Partida-Sánchez, PhD**

Assistant Professor, Nationwide Children's Hospital

### **Kristen M. Smith**

Predoctoral Trainee, Ohio State University

### **Heidi M. Snider**

Predoctoral Trainee, Ohio State University

### **Pejman Soroosh, PhD**

Postdoctoral Trainee, La Jolla Institute for Allergy and Immunology

### **Scott M. Tanner, PhD**

Predoctoral Trainee, University of Alabama at Birmingham

### **Paul G. Thomas, PhD**

Assistant Member, St. Jude Children's Research Hospital

### **Aaron J. Tyznik, PhD**

Postdoctoral Trainee, La Jolla Institute for Allergy and Immunology

### **C. Justin Van De Wiele, PhD**

Assistant Professor, University of Oklahoma Health Science Center

### **Fengyi Wan, PhD**

Postdoctoral Trainee, NIAID, NIH

### **Yui-Hsi Wang, PhD**

Assistant Professor, Cincinnati Children's Hospital Medical Center

### **Wenfang Wu, PhD**

Postdoctoral Trainee, University of Massachusetts Medical School

### **Hui Xu, MD, PhD**

Assistant Professor, Thomas Jefferson University

### **Mei-Ling Yang, PhD**

Postdoctoral Trainee, Yale University

### **Jui-Hung (Jimmy) Yen, PhD**

Postdoctoral Trainee, Temple University

### **Dengping Yin, MD, PhD**

Assistant Professor, Vanderbilt University

### **Qigui (Andy) Yu, PhD**

Assistant Professor, Indiana University—Purdue University Indianapolis

### **Song Guo Zheng, MD**

Assistant Professor, University of Southern California

### **Juhua Zhou, PhD**

Research Assistant Professor, University of South Carolina School of Medicine

# GRANT AND AWARD DEADLINES

## HHMI-NIH Research Scholars Program Deadline is January 10

The HHMI-NIH Research Scholars Program, also known as the Cloister Program, gives outstanding students at U.S. medical schools the opportunity to receive research training at the National Institutes of Health (NIH) in Bethesda, Maryland.

Students in good standing at medical, dental, and veterinary schools in the United States are eligible to apply to the program. Research scholars spend nine months to a year on the NIH campus, conducting basic, translational or applied biomedical research under the direct mentorship of senior NIH research scientists. For students interested in biomedical research, the NIH is unmatched as an environment for experiencing the excitement of scientific discovery and innovation among current and future scientific leaders of world-class standing. The year following the second or third year of medical, dental, or veterinary school is an ideal time to determine the career implications of biomedical research, before residency or postgraduate training plans are formulated.

The Howard Hughes Medical Institute (HHMI) provides the administration and funding for the program, including the salaries and benefits for the research scholars. The NIH provides advisors, mentors, laboratory space, and equipment and supplies for laboratory work.

Each of 42 medical, dental, or veterinary students selected annually as research scholars chooses a preceptor from over 1,200 tenured or tenure-track intramural scientists working on more than 2,500 research projects. The NIH environment provides state-of-the-art resources and the chance to do research that is often impossible to do elsewhere. As part of their Cloister Program experience, research scholars

- Select a project and mentor after arrival on campus
- Become part of a special community at the Cloister, the scholars' residence on campus, living among other medical, dental, and veterinary students who share similar interests in research
- Meet and talk with eminent investigators at weekly science lectures for research scholars
- Learn new techniques, technology, and approaches from world-renowned mentors

- Attend HHMI scientific meetings where the Institute's investigators present their work at HHMI's Janelia Farm Research Campus in Ashburn, Virginia, or Headquarters in Chevy Chase, Maryland
- Attend national scientific meetings, NIH conferences, and workshops

It is recommended that basic science coursework be completed prior to participation in the program, to afford participants a fundamental understanding of biomedical research principles.

To apply, one must be a student in good standing at a medical, dental, or veterinary school in the United States or Puerto Rico and must receive permission from the school to participate in the program. Prior research experience may be advantageous but is not required. Participants must also be authorized to work in the United States during the entire period of employment as a research scholar. Those enrolled in a combined medical, dental, or veterinary/Ph.D. program (e.g., M.D./Ph.D.), or Ph.D. or Sc.D. program, as well as those who already have an M.D., D.D.S., D.V.M., or Ph.D. or Sc.D. in a laboratory-based science, are not eligible to apply.

The application deadline is January 10. Those selected as research scholars must be able to work at the NIH for approximately one year, beginning between July 6 and August 31. Applicants to this program may apply in the same year to the HHMI Research Training Fellowships for Medical Students as well as to other NIH programs.

Applications must be submitted online via the program's Web-based application system. Detailed program brochures may be obtained from the student affairs office at your medical or dental school or requested by contacting the Cloister Program directly:

**HHMI-NIH Research Scholars Program**  
1 Cloister Court, Building 60, Room 253  
Bethesda, MD 20814-1460  
1-800-424-9924  
research\_scholars@hhmi.org

**For complete details, visit:**  
[www.hhmi.org/research/cloister/guidelines.html](http://www.hhmi.org/research/cloister/guidelines.html).



### **Hellman Science and Technology Fellowship Applications Due January 14**

The Hellman Fellowship in Science and Technology Policy is intended for early-career professionals with training in science or engineering who are interested in transitioning to a career in public policy and administration. While in residence, the Hellman Fellows work with senior scientists and policy experts on critical national and international policy issues related to science, engineering, and technology (SET).

Hellman Fellows work on one or more of the projects under the American Academy of Arts and Sciences' initiative for Science, Engineering, and Technology. The mission of the Initiative is to examine, in broad terms, how the world of science and technology is evolving, how to help the public understand these changes, and how society can better adapt. The initiative brings together scientists and public policy experts in a neutral setting, outside of the constraints of the political process.

By providing a setting and resources for an early-career professional to develop expertise on SET policy issues, the Hellman program seeks to increase the cadre of young science policy professionals who are engaged in substantive discussion of science and research questions with a broad understanding of their social implications.

Applicants must have a Ph.D. in an area of science or engineering and have some experience or a demonstrated interest in an area related to science and technology policy. The Ph.D. must be conferred prior to September 2011. Master's degrees may be considered in the fields of engineering and computer science. Strong writing and organizational skills are desired. Candidates must be U.S. citizens or permanent residents.

Appointments are for a one-year term (with a possibility of renewal), to commence in September at the American Academy in Cambridge, Massachusetts. Stipends are competitive and commensurate with experience.

To apply, submit a cover letter indicating interest in and experience related to one or more of the project topics listed on the following page, along with curriculum vitae and 3 letters of reference, by January 14, 2011. Applications may be submitted by email to [hellmanfellow@amacad.org](mailto:hellmanfellow@amacad.org) or by mail to:

**Hellman Fellowship Program**  
American Academy of Arts and Sciences  
136 Irving Street, Cambridge, MA 02138

**For complete details, visit:**  
[www.amacad.org/hellman.aspx](http://www.amacad.org/hellman.aspx)

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### **Jefferson Science Fellowship Applications Due January 14**

To better articulate accurate science for statecraft, the U.S. Department of State's Jefferson Science Fellows (JSF) program engages the American academic science, engineering, and technology (SET) community in the formulation and implementation of U.S. foreign policy. The program seeks to provide accurate, timely understanding of rapidly advancing SET issues to policymakers, thereby fostering informed governance that effectively meets the needs of modern societies while fostering effective relationships between them.

The JSF program is administered by the National Academies and supported through a partnership between the U.S. SET academic community, professional scientific societies, and the State Department. Tenured academic scientists and

engineers from U.S. institutions of higher learning are eligible for selection to be Jefferson Science Fellows. Each fellow will spend one year at the State Department or the U.S. Agency for International Development (USAID) for an on-site assignment in Washington, D.C., that may also involve extended stays at U.S. foreign embassies and/or missions.

Designed in consultation with regional and/or functional bureaus within the State Department and USAID, JSF assignments involve providing up-to-date expertise in the SET arenas that routinely impact policy decisions within the two agencies. In addition, each fellow is expected to become conversant with the functional operation of the agency of assignment. The JSF program thereby complements and enhances

*Continued next page*

**Jefferson Science Fellowship***continued from page 24*

the existing efforts by State Department and USAID continuing employees and other temporary fellows supported by non-governmental organizations who address SET issues.

Following the fellowship year, JSF participants will return to their academic careers while remaining available to the State Department/USAID for short-term projects over the following five years.

**JSF applicants are subject to the following eligibility requirements:**

- Must be a U.S. citizen
- Must be a scientist, technologist, or engineer holding a tenured faculty position at a U.S. college or university
- If awarded, candidate must successfully complete and maintain security clearances at the State Department/USAID
- Applicant's academic institution must sign a Memorandum of Understanding with the State Department for the applicant to be considered as a finalist.

During the one-year assignment commencing in August 2011, the salary and benefits of each fellow will be paid by the academic institution at which the fellow's tenured appointment is held.

Fellows are paid up to \$50,000 by the U.S. Department of State to cover local living expenses for a full year.

It is expected that each fellow will travel as part of the assignment with the State Department/USAID. The amount of \$10,000 will be made available to the fellow for travel associated with his/her assignment. Travel support may also be provided by the fellow's office or bureau.

The application package is to be completed online. Complete details on the required components are available at [http://sites.nationalacademies.org/PGA/Jefferson/PGA\\_046612](http://sites.nationalacademies.org/PGA/Jefferson/PGA_046612).

For additional information, visit <http://sites.nationalacademies.org/pga/jefferson/> or direct an inquiry to [jsf@nas.edu](mailto:jsf@nas.edu) or 202-334-2643.

**Ira Green**, continued from page 20

Ira left LI in 1986 to join the NCI Biologic Response Modifier Program in Frederick, Maryland, and in 1990 moved to the Agency for Health Care Policy Research. He retired from government service in 1994.

Ira will be remembered by those who knew him for an enormously wide-ranging set of interests, for a deep intellectual curiosity, for the ability to fire enthusiasm in others and to bring individuals together into highly effective collaborative groups. He was one of the handful of individuals responsible for the growth of the intramural NIH immunology community from its very modest beginnings into its current status as one of the world's leading centers of research.

Ira's ashes will be interred in Arlington National Cemetery. He is survived by his wife, Terry Green, two children, Robert Green of Bethesda, Maryland, and Emily Schneider of Knoxville, Tennessee, and two grandchildren, Reed and Lily Schneider.

Expressions of condolence may be sent to Mrs. Terry Green ([itgree@gmail.com](mailto:itgree@gmail.com)). Those who wish to make contributions in his memory may consider the Alzheimer's Association.

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# Meetings Calendar

Mark Your Calendar for These Important Dates!

## 2011

### January 17–18, 2011

#### 4th International Singapore Symposium for Immunology

Breakthrough Theatre,  
MATRIX Building Level 4  
Biopolis, Singapore  
[www.ssi.org.sg](http://www.ssi.org.sg)

### January 22–25, 2011

#### The 50th Midwinter Conference of Immunologists at Asilomar

Asilomar Conference Grounds  
Pacific Grove (near Monterey), California  
[www.midwconimmunol.org](http://www.midwconimmunol.org)

### February 17–19, 2011

#### EAACI Food Allergy and Anaphylaxis Meeting, FAAM 2011

Molino Stucky Hilton, Venice, Italy  
[www.eaaci-faam2011.com](http://www.eaaci-faam2011.com)

### February 17–21, 2011

#### 2011 BMT (Blood and Marrow Transplant) Tandem Meeting

Honolulu, Hawaii  
[www.cibmtr.org/Meetings/Tandem/index.html](http://www.cibmtr.org/Meetings/Tandem/index.html)

### March 1–6, 2011

#### Cutting Edge Immunology and its Clinical Application

Hotel Golden Tulip de Beyer  
Hulshort, The Netherlands  
[www.esf.org/activities/esf-conferences/details/2011/confdetail362.html?conf=362&year=2011](http://www.esf.org/activities/esf-conferences/details/2011/confdetail362.html?conf=362&year=2011)

### March 28–April 1, 2011

#### International School of Immunology 2011

Hotel Vila Galé Albarora  
Tavira (Algarve), Portugal  
[www.spimmunologia.org](http://www.spimmunologia.org)

### March 31–April 3, 2011

#### EAACI/GA2LEN Allergy School: Allergy and Immunotherapy, From Tolerance to Early Intervention

Saariselkä Tunturi Hotel, Saariselkä, Finland  
[www.eaaci.net/activities/allergy-schools/1544-2011-allergy-school-in-saariselka-finland](http://www.eaaci.net/activities/allergy-schools/1544-2011-allergy-school-in-saariselka-finland)

### April 8–11, 2011

#### Canadian Society for Immunology 24th Annual Spring Meeting

Fairmont Lake Louise Hotel  
Lake Louise, Alberta, Canada  
[www.csi-sci.ca/scientificmeeting.aspx](http://www.csi-sci.ca/scientificmeeting.aspx)

### April 9–13, 2011

#### Experimental Biology (EB) 2011 (AAA, APS, ASBMB, ASIP, ASN, ASPET)

Washington, DC  
Contact: [eb@faseb.org](mailto:eb@faseb.org)

### April 30–May 3, 2011

#### 2011 American Transplant Congress (AST)

Philadelphia, Pennsylvania  
[www.atcmeeting.org](http://www.atcmeeting.org)

### May 13–17, 2011

#### AAI 98th Annual Meeting, IMMUNOLOGY 2011™

San Francisco, California  
[www.IMMUNOLOGY2011.org](http://www.IMMUNOLOGY2011.org)

### May 15–20, 2011

#### Neisseria Vaccines 2011: 3rd International Workshop on Neisseria Vaccines

Varadero Beach, Cuba  
Organized by Latin American Association of Immunology (ALAI) and Cuban Society for Immunology (CSI)  
[www.sci.sld.cu/neisseria/neisseria.htm](http://www.sci.sld.cu/neisseria/neisseria.htm)

### May 21–25, 2011

#### CYT 2011 (International Society for Advancement of Cytometry)

Baltimore, Maryland  
[www.cytoconference.org/pages/aboutISAC2011.aspx](http://www.cytoconference.org/pages/aboutISAC2011.aspx)

### May 25–27, 2011

#### 9th Annual Meeting of the Association for Cancer Immunotherapy (CIMT): Targeting Cancer: Road Maps for Success

Mainz, Germany  
[www.cimt.eu/meeting\\_annual\\_meeting.htm](http://www.cimt.eu/meeting_annual_meeting.htm)

### June 2–4, 2011

#### The Organization for the Study of Sex Differences 5th Annual Meeting

Skirvin Hilton  
Oklahoma City, Oklahoma  
[www.ossdweb.org](http://www.ossdweb.org)

### July 5–8, 2011

#### British Society for Immunology, BSI Summer School 2011

St. Donat's Castle  
Llantwit Major (Wales), United Kingdom  
<http://bsi.immunology.org/summer-school-2011>

### July 5–9, 2011

#### ICMI 2011: 15th International Congress of Mucosal Immunology, the biennial conference of the Society for Mucosal Immunology (SMI)

Université Paris Descartes  
Paris, France  
[www.socmucimm.org](http://www.socmucimm.org)

### July 9–14, 2011

#### AAI 2011 Introductory Course in Immunology

The University of Pennsylvania  
Philadelphia, Pennsylvania  
[www.aai.org/Courses.htm](http://www.aai.org/Courses.htm)

### July 16–20, 2011

#### The American Society for Virology 30th Annual Scientific Meeting

University of Minnesota  
Minneapolis, Minnesota  
[www.asv.org](http://www.asv.org)

### July 23–27, 2011

#### Symposium of The Protein Society

Boston, Massachusetts  
[www.proteinsociety.org](http://www.proteinsociety.org)

### July 31–August 5, 2011

#### AAI 2011 Advanced Course in Immunology

University of Minnesota  
Minneapolis, Minnesota  
[www.aai.org/Courses.htm](http://www.aai.org/Courses.htm)

### September 16–20, 2011

#### ASBMR 33rd Annual Meeting

San Diego, California  
[www.asbmr.org](http://www.asbmr.org)

### October 11–15, 2011

#### 12th International Congress of Human Genetics

Montreal, Quebec, Canada  
[www.ichg2011.org](http://www.ichg2011.org)



# Meetings Calendar

## 2012

### February 1–5, 2012

2012 BMT (Blood and Marrow Transplant) Tandem Meeting  
San Diego, California  
[www.cibmtr.org/Meetings/Tandem/index.html](http://www.cibmtr.org/Meetings/Tandem/index.html)

### April 21–25, 2012

Experimental Biology (EB) 2012 (APS, ASBMB, ASPET, ASIP, ASN, AAA)  
San Diego, California  
Contact: [eb@faseb.org](mailto:eb@faseb.org)

### May 4–8, 2012

AAI 99th Annual Meeting,  
IMMUNOLOGY 2012™  
Boston, Massachusetts  
[www.aai.org](http://www.aai.org)

### May 6–10, 2012

Association for Research in Vision and Ophthalmology (ARVO)  
Ft. Lauderdale, Florida  
Contact: [ncopen@faseb.org](mailto:ncopen@faseb.org)

### June 1–6, 2012

CYTO 2012 (International Society for Advancement of Cytometry)  
Leipzig, Germany  
Contact: [rjaseb@faseb.org](mailto:rjaseb@faseb.org)

### June 2–5, 2012

2012 American Transplant Congress (ATC)  
Boston, Massachusetts  
[www.atcmeeting.org](http://www.atcmeeting.org)

### June 15–18, 2012

Canadian Society for Immunology 25th Annual Spring Meeting  
Sheraton Hotel Newfoundland  
St. John's, NL  
[www.csi-sci.ca](http://www.csi-sci.ca)

### July 21–25, 2012

The American Society for Virology 31st Annual Scientific Meeting  
University of Wisconsin  
Madison, Wisconsin  
[www.asv.org](http://www.asv.org)

### August 5–9, 2012

Symposium of The Protein Society  
San Diego, California  
[www.proteinsociety.org](http://www.proteinsociety.org)

### October 12–16, 2012

ASBMR 34th Annual Meeting  
Minneapolis, Minnesota  
[www.asbmr.org](http://www.asbmr.org)

### November 6–10, 2012

American Society of Human Genetics  
San Francisco, California  
Contact: [paulinem@ashg.org](mailto:paulinem@ashg.org)

## 2013

### February 13–17, 2013

2013 BMT (Blood and Marrow Transplant) Tandem Meeting  
Salt Lake City, Utah  
[www.cibmtr.org/Meetings/Tandem/index.html](http://www.cibmtr.org/Meetings/Tandem/index.html)

### April 5–8, 2013

Canadian Society for Immunology 26th Annual Spring Meeting  
TELUS Whistler Conference Centre  
Whistler, British Columbia, Canada  
[www.csi-sci.ca](http://www.csi-sci.ca)

### April 20–24, 2013

Experimental Biology (EB) 2013 (APS, ASBMB, ASPET, ASIP, ASN, AAA)  
Boston, Massachusetts  
Contact: [eb@faseb.org](mailto:eb@faseb.org)

### May 3–7, 2013

AAI 100th Annual Meeting,  
IMMUNOLOGY 2013™  
Honolulu, Hawaii  
[www.aai.org](http://www.aai.org)

### May 18–21, 2013

2013 American Transplant Congress (ATC)  
Seattle, Washington  
[www.atcmeeting.org](http://www.atcmeeting.org)

### May 19–23, 2013

CYTO 2013 (International Society for Advancement of Cytometry)  
San Diego, California  
Contact: [rjaseb@faseb.org](mailto:rjaseb@faseb.org)

### August 22–27, 2013

15th International Congress of Immunology  
Rome, Italy  
[www.ici2013.org](http://www.ici2013.org)

### October 4–8, 2013

ASBMR 35th Annual Meeting  
Baltimore, Maryland  
[www.asbmr.org](http://www.asbmr.org)

## 2014

### February 19–23, 2014

2014 BMT (Blood and Marrow Transplant) Tandem Meeting  
Orlando, Florida  
[www.cibmtr.org/Meetings/Tandem/index.html](http://www.cibmtr.org/Meetings/Tandem/index.html)

### April 26–30, 2014

Experimental Biology (EB) 2014 (APS, ASPET, ASIP, ASN, AAA)  
San Diego, California  
Contact: [eb@faseb.org](mailto:eb@faseb.org)

### May 17–21, 2014

CYTO 2014 (International Society for Advancement of Cytometry)  
Ft. Lauderdale, Florida  
Contact: [rjaseb@faseb.org](mailto:rjaseb@faseb.org)

### September 12–16, 2014

ASBMR 36th Annual Meeting  
Houston, Texas  
[www.asbmr.org](http://www.asbmr.org)

## 2015

### February 11–15, 2015

2015 BMT (Blood and Marrow Transplant) Tandem Meeting  
San Diego, California  
[www.cibmtr.org/Meetings/Tandem/index.html](http://www.cibmtr.org/Meetings/Tandem/index.html)

### March 28–April 1, 2015

Experimental Biology (EB) 2015 (APS, ASPET, ASIP, ASN, AAA)  
Boston, Massachusetts  
Contact: [eb@faseb.org](mailto:eb@faseb.org)

### October 9–13, 2015

ASBMR 37th Annual Meeting  
Seattle, Washington  
[www.asbmr.org](http://www.asbmr.org)

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# IMMUNOLOGY 2011<sup>TM</sup>

98<sup>TH</sup> Annual Meeting

The American Association of Immunologists

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May 13–17, 2011

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[www.IMMUNOLOGY2011.org](http://www.IMMUNOLOGY2011.org)