



AAI

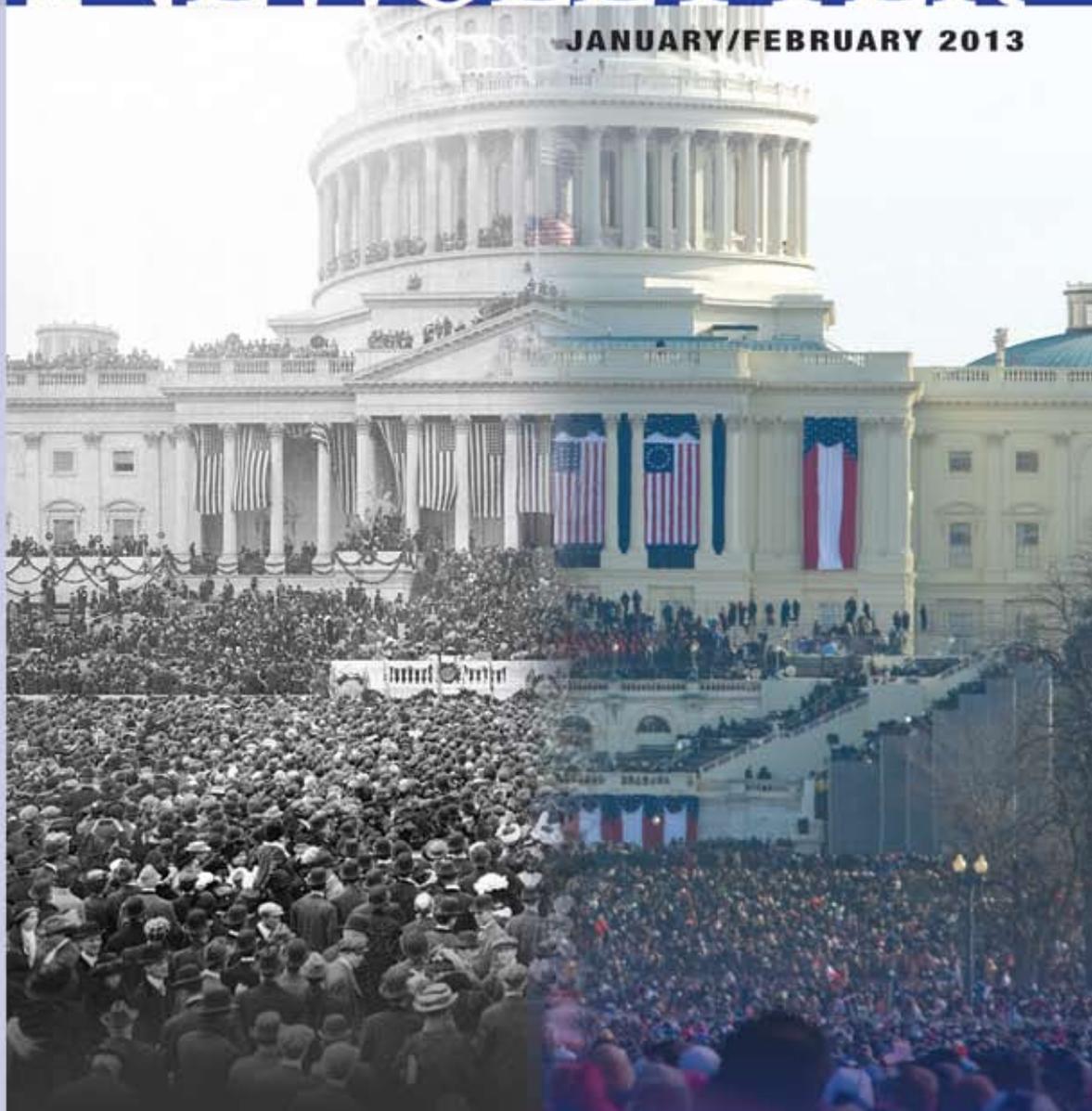
The American Association of Immunologists

NEWSLETTER

JANUARY/FEBRUARY 2013

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Then...1913

AAI is Founded; Washington Witnesses Inauguration of Woodrow Wilson as 28th U.S. President

Now...2013

AAI Marks Its 100th Anniversary; 44th U.S. President Barack Obama Awaits Reinauguration As Congress Temporarily Averts Fiscal Cliff (see page 4)



Celebrating *100 Years*

Photo: Chicago History Museum



AAI Celebrates Its 100th Anniversary in 2013

As we begin our centennial year, we look back and appreciate the incredible advances in the field since 1913. To honor the memory and many notable accomplishments of AAI members then and now, we are publishing commemorative pieces in print and on the AAI website. And IMMUNOLOGY 2013™ will be the setting for a great celebration of our history.

Commemorative Literature. AAI staff historians and scientists are rigorously researching and archiving materials to preserve the proud heritage of the association, and the *AAI Newsletter* has featured a number of articles this past year recounting our history. Posted in the history section of the AAI website, www.aai.org/About/History, they include:

- Immunologists during the First World War: One Soldier-Scientist's Experience
- The 1918–1919 Influenza Pandemic as covered in *The Journal of Immunology*
- The Founding of AAI
- The Science at the First AAI Annual Meeting
- Anna Wessels Williams, M.D.: Infectious Disease Pioneer and Public Health Advocate
- Elise Strang L'Esperance, M.D.: Pioneer in Cancer Prevention and Recipient of Lasker Award
- The Founding of *The Journal of Immunology*
- “Studies in Anaphylaxis”: The First Article in *The Journal of Immunology*

The www.aai.org/About/History section of the AAI website, developed and launched in 2011 in anticipation of the AAI Centennial, will continually evolve as a living archive, adding resources produced for, during, and after the Hawaii celebration. Current and future resources, including oral history interviews of AAI presidents, profiles of AAI Nobel and Lasker recipients, AAI history articles (published in the *AAI Newsletter*), and an eBook of “Pillars” articles from *The Journal of Immunology*, will continue to chronicle the history of AAI and the role immunology has played in advancing biology and medicine.



Medical College, University of Minnesota (c. 1908).

On June 19, 1913, a group of physician-scientists gathered on the University of Minnesota campus to form a society devoted to a nascent medical specialty: immunology. These founders and the society they established—The American Association of Immunologists (AAI)—led in defining and forging this new biomedical field. At IMMUNOLOGY 2013™ AAI will celebrate the many notable advances and innovators among AAI members during the past 100 years.

Image: Library of Congress, Prints & Photographs Division, Detroit Publishing Company Collection



IMMUNOLOGY 2013™ Celebrating 100 Years!

In addition to featuring the newest developments in the field, speakers in the scientific sessions at IMMUNOLOGY 2013™ will provide brief perspectives on the history of immunology. Many other activities will engage attendees actively in the AAI Centennial celebration. Be sure you are there to:

- Travel the **Centennial Timeline** spanning the exhibit hall floor, depicting important developments for AAI and immunology, science and technology, and U.S. and world history.
- Take the **Walk of Notables** to learn about the many Nobel, Lasker, and other distinguished awardees in the rich AAI legacy.
- Visit the **StoryBooth** with friends, colleagues, or mentors to record your stories and become part of AAI history.
- Seize the **VIP Photo Op** to have your picture taken with preeminent immunologists in the VIP Lounge.
- And enjoy the special festivities and entertainment scheduled for the AAI Centennial at the **Opening Night Welcome Reception** and the **Centennial Gala Luau**.

Visit www.aai.org/About/History to enjoy the history of AAI



The American Association of Immunologists

Career Award Recipients for 2013

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

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

AAI Lifetime Achievement Award



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

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

AAI Excellence in Mentoring Award



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

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

AAI-Steinman Award for Human Immunology Research



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

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

AAI-Life Technologies Meritorious Career Award



For outstanding research contributions to the field of immunology

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

AAI-BD Biosciences Investigator Award



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

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

AAI Distinguished Service Award

In recognition of distinguished scientific accomplishment and extraordinary service to AAI



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

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



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

Derry C. Roopenian, Ph.D.
The Jackson Laboratory



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FOCUS ON PUBLIC AFFAIRS

Congress Averts Fiscal Cliff (for now)

On the evening of January 1, the House of Representatives approved a Senate-passed measure that averts the “fiscal cliff,” nearly \$400 billion in automatic tax increases and more than \$100 billion in automatic funding cuts (in FY 2013 alone), which were set to take effect on January 1 and 2, 2013.

The measure postpones for two months the automatic funding cuts, also known as “sequestration,” which would have resulted in

a cut of at least 8.2 percent to the NIH budget. NIH Director Francis Collins has estimated that sequestration would reduce the number of NIH grants funded in FY 2013 by 2,300.



The new law, which President Obama signed on January 3, includes numerous tax provisions, including increases to the top income tax and capital gains rates for high-income earners, a permanent extension of tax cuts for the middle class, and the extension of a number of tax cuts for small businesses. The law also includes a one-year extension of emergency unemployment benefits.

Although the law addresses many pressing issues, it leaves several urgent and highly contentious matters unresolved:

- Raising the nation’s \$16.4 trillion debt ceiling
- Deciding what to do when the two-month delay in sequestration ends, on March 1, 2013
- Making permanent or modifying the terms of the current continuing resolution, which funds government agencies through March 27, 2013

These matters will need to be addressed promptly by the 113th Congress, whose members were sworn in on January 3. Of particular importance to the future of federal research funding is the resolution of the sequester, which could result in reduced discretionary spending. This in turn could potentially reduce the funding available to support NIH and other federal science agencies. In addition, NIH and other federal science agencies could also be adversely impacted by a provision in the law that lowers the FY 2013 cap on nonsecurity discretionary spending from \$361 billion to \$359 billion.

In November, AAI President Gail Bishop and Committee on Public Affairs Chair Elizabeth Kovacs sent an email alert to all AAI members asking them to urge their legislators to prevent sequestration. To read the full message from Bishop and Kovacs, please visit: www.aai.org/Alerts/Public_Affairs/sequester-01.html. AAI also signed a community letter drafted by the Ad Hoc Group for Medical Research that expresses grave concern about the impact sequestration would have on medical research supported by NIH. To view this letter, please visit: www.aamc.org/research/adhocgp/121112.pdf.

AAI Launches Third Year of Its Public Policy Fellows Program

AAI is now accepting applications for the third year of its Public Policy Fellows Program. The program engages postdoctoral fellows and junior scientists in a year-long program that teaches how legislative and agency activities impact the conduct and funding of biomedical research and how AAI works on behalf of its members for the best possible outcome. AAI President Gail A. Bishop and AAI Committee on Public Affairs Chair Elizabeth J. Kovacs invited applications in a December 12, 2012, letter to AAI members (see www.aai.org/Public_Affairs/PPFP/Docs/PPFP_Invitation-letter.pdf).

Successful applicants have the opportunity to experience advocacy firsthand on a visit to Capitol Hill and learn more about key issues through public affairs programs at the AAI annual meeting. Except for these two travel experiences, Fellows do not need to leave their institutions or labs. The AAI Committee on Public Affairs keeps Fellows informed and engaged throughout the year.

In their letter to members, Bishop and Kovacs explain that, to date, “20 AAI members have participated in this important program, and we look forward to welcoming another excellent group of scientists next spring.”

For program details or to apply, please visit: www.aai.org/Public_Affairs/PPFP, or contact AAI Legislative Assistant Jake Schumacher at jschumacher@aai.org. **Complete application packages are due by January 24, 2013.**

NIH Appoints New CSR Director

On December 3, 2012, NIH announced that Richard Nakamura has been named director of the NIH Center for Scientific Review (CSR). Nakamura has served as acting director of CSR since September 2011. Previously, he worked for more than 30 years at the National Institute of Mental Health, where he served as scientific director, deputy director, and acting director.

Since assuming a leadership role at CSR, Nakamura has been very responsive to AAI requests. In January 2012, he participated in a conference call with several AAI leaders to address questions and concerns about the NIH peer-review system. Nakamura also spoke at the Committee on Public Affairs policy session at IMMUNOLOGY 2012™. The slides from that presentation can be found at www.aai.org/Public_Affairs/index.html.

NIH Retains A2 Policy

NIH Deputy Director for Extramural Research Sally Rockey recently announced that NIH has examined, but decided to retain, its revised grant resubmission policy, which eliminated the A2 application.

Despite vocal concern expressed by many individuals and organizations in the biomedical research community, NIH found, after review of its revised resubmission policy, that “the policy is achieving its goal of funding a higher proportion of original applications more rapidly.” In remarks posted on her blog “Rock Talk” (<http://nexus.od.nih.gov/all/rock-talk/>), Rockey explains that “(a)ny revision to the policy to allow additional resubmissions of all or a subset of A2 applications will displace equally meritorious A0 and A1 applications, and increase the time to award for many applications.”

For a number of years, AAI has urged NIH to modify the “no A2” policy to allow some applications to be resubmitted; more specifically, AAI has urged that “those applications within a pre-decided percentage beyond the fundable range set by NIH be allowed to submit an A2.” See the January 2011 letter that AAI sent to NIH Director Francis Collins and to then-CSR Director Antonio Scarpa by visiting www.AAI.org > Public Affairs > Letters and Comments.

NPR Science Correspondent Joe Palca to Headline Policy Session at IMMUNOLOGY 2013™

The AAI Committee on Public Affairs will host a special session entitled, “The Importance of Communicating Science in an Era of Doubters and Deniers,” at IMMUNOLOGY 2013™ in Honolulu. The session will be held on Saturday, May 4, 2013, from 1:00 PM to 2:30 PM.

The session will feature two special guest speakers: Joe Palca, science correspondent for NPR; and Olivera (Olja) Finn (AAI '83), distinguished professor and chair of the Department of Immunology at the University of Pittsburgh and former president of AAI. The session will be chaired by Elizabeth J. Kovacs, chair of the AAI Committee on Public Affairs (CPA).

Continued on next page

Palca *(continued)*

Palca has reported on a variety of science topics for NPR since 1992. He previously worked as the news editor for *Nature* and as a senior correspondent for *Science*. His presentation will focus on the challenges of communicating scientific information to large lay audiences, some with fundamental doubts about the value of research. Finn, who is also a former member of the AAI CPA, will speak about the importance of communicating with Congress, advocacy groups, and other scientists.

NIH to Begin Implementing Recommendations on the Biomedical Research Workforce, Workforce Diversity

NIH has recently announced plans to implement a number of new programs and policies based on reports issued by two Advisory Committee to the Director (ACD) Working Groups last June (www.nih.gov/news/health/dec2012/od-07.htm). Those reports address issues related to the future biomedical research workforce and workforce diversity. Key initiatives include increasing the initial stipend for postdoctoral researchers and establishing two new grant programs, one that seeks innovative approaches to training and another intended to lay the groundwork for increasing diversity.

Biomedical Research Workforce Implementation Plan

The centerpiece of the plan is a new grant program to encourage innovative training approaches that complement traditional research training. This program, which will be funded by the NIH Common Fund, will encourage institutions to leverage funds with existing institutional offices and programs, industry, or other entities. NIH also seeks to enhance training by requiring Individual Development Plans for all graduate students and postdoctoral researchers.

In a move to reduce the length of graduate student training, NIH is requiring institutions to establish “anticipated durations of graduate study for doctoral programs” and encouraging them to adopt expectations for the duration of NIH support for doctoral study (to be five years with exceptions for complex programs and some individual circumstances). NIH is expected to release a Request for Information to ask how institutions might guide it in tracking training duration for researchers.

For the postdoctoral researchers it supports, NIH will increase the initial stipend from \$39,000 to \$42,000 and solicit input from the community on postdoctoral benefits. NIH will consider whether benefits for postdoctoral researchers need to be enhanced and recommend a benefits package as a national standard.

NIH will also increase support for two programs designed to accelerate the development of independent research careers for exceptional scientists. The plan aims for a 30-percent success rate for the NIH Pathway to Independence Award, which provides one to two years of mentored support for promising postdoctoral trainees followed by three years of independent support. NIH also plans to increase the number of Early Independence Awards, which allow researchers to skip their postdoctoral training and move directly to independent positions, from 10 to 15.

The Working Group, which was originally tasked with developing a model for a sustainable and diverse U.S. biomedical research workforce, found that it lacked sufficient data to develop such a model. The implementation plan addresses this issue by developing a comprehensive tracking system for trainees, encouraging institutions to report aggregate career outcomes of trainees, and considering the use of a unique identifier for researchers.

Finally, the plan initiates several changes to peer review. Study sections for training grants will be asked to consider as successful a wide range of career outcomes. In addition, NIH will strive to encourage fair review of staff scientists who contribute to a research team.

Diversity in the Biomedical Research Workforce Implementation Plan

In implementing the recommendations of the ACD Working Group on Diversity in the Biomedical Research Workforce, NIH determined that it must meet two primary goals: 1) “to increase the diversity of the NIH-funded workforce because we have compelling evidence that this will help us accomplish our mission, and 2) to ensure that all applicants are treated fairly in the peer review system.”

NIH Principal Deputy Director Lawrence Tabak cautioned that no one set of initiatives will diversify the workforce overnight, so NIH will make diversity a continuing priority by establishing a permanent Working Group on Diversity. The Working Group is charged with “providing regular advice to the ACD and NIH director on effective strategies to increase the

representation of individuals from diverse backgrounds underrepresented nationally in biomedical research and to reduce disparities in research awards from applicants from backgrounds underrepresented nationally in biomedical research.” This group will be asked to consider diversity of all types, including gender diversity.

NIH will also launch a new grant program called the Building Infrastructure Leading to Diversity (BUILD) program. This program will provide:

- a mentored research experience for two summers (in college) and up to two years (post-graduation)
- tuition scholarships for up to two years as an undergraduate
- the possibility of a loan repayment in graduate school

The BUILD program will include about 150 new students per year, with a maximum of about 600 students participating in the program at any one time.

NIH will also create a National Research Mentoring Network (NRMN). The Network will connect students, postdoctoral researchers, and faculty with experienced mentors, and develop tools and standards to promote good mentorship.

Regarding peer review, NIH will create an ad hoc subcommittee of the Working Group to examine the role of unconscious bias in review and implement implicit bias and diversity awareness training. It will also implement a pilot program to determine the impact of “anonymizing” applications (either by removing the name of the applicant or by removing the applicant’s institution).

NIH will also recruit a chief diversity officer who will be responsible for coordinating NIH diversity initiatives and seek to increase the diversity of intramural investigators.

AAI Participates in NCATS Policy Workshop

The NIH National Center for Advancing Translational Sciences (NCATS) held a policy workshop on December 11, 2012, to gain a better understanding of how policy research and analysis can facilitate translational research. AAI Legislative Assistant Jake Schumacher participated in the NCATS workshop.

The NCATS mission “is to catalyze the generation of innovative methods and technologies that will enhance the development, testing and implementation of diagnostics and therapeutics across a wide range of human diseases and conditions” (www.ncats.nih.gov/about/about.html). A wide range of stakeholders, including representatives of the pharmaceutical and biotechnology industry, attended the workshop.

The morning session included remarks by Christopher Austin, the new NCATS director, and Kathy Hudson, NIH deputy director for science, outreach, and policy. The workshop focused on four key policy challenges associated with advancing the NCATS mission: informing regulatory science, navigating intellectual property challenges, streamlining clinical research, and forming efficient and strategic alliances. Each topic was explored in detail in a breakout session; leaders of those sessions presented their recommendations in an afternoon plenary meeting.

AAI Public Affairs ONLINE



Visit us to

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



Go to www.aai.org and click on **Public Affairs**.

Members in the News

Five AAI Members Elected to Institute of Medicine

AAI members **Bruce Blazar, Carl June, Dan Littman, Jennifer Puck, and Wayne Yokoyama**—all profiled below—are among the 70 U.S. and 10 foreign scientists elected in October 2012 as members of the Institute of Medicine (IOM).

Election to the IOM is considered one of the highest honors in the fields of health and medicine and recognizes individuals who have demonstrated outstanding professional achievement and commitment to service. New members are elected by current, active members through a selective process that recognizes individuals who have made major contributions to the advancement of the medical sciences, health care, and public health.

Bruce R. Blazar, M.D., AAI '84

Regents Professor and Andersen Chair in Transplantation Immunology, Department of Pediatrics, and Associate Vice President for Clinical and Translational Science, University of Minnesota



Bruce R. Blazar

Bruce Blazar studies the immunobiology of transplantation, focusing particularly on graft-versus-host disease (GVHD), graft versus leukemia (GVL), and immune reconstitution. His laboratory has explored these aspects of hematopoietic stem cell transplantation through studies extending from their basic biology to translational clinical research. Blazar's

lab investigates the mechanisms driving or inhibiting GVHD and applies this knowledge to the development of novel approaches to tolerance induction following transplantation. These approaches include the therapeutic use of regulatory T cells as well as the targeting of intracellular signaling and basic mechanisms of GVHD. Studies are also underway to protect against thymic epithelial cell injury and enhance T cell reconstitution following bone marrow transplantation. Research focused on GVL seeks to prevent tumor-mediated immune suppression and promote T cell-mediated anti-leukemia activity. Finally, Blazar is working to correct congenital disorders without transplantation via site-directed gene replacement in hematopoietic stem cells.

Blazar has served as a member of the AAI Advanced Course in Immunology faculty and as an associate editor for *The Journal of Immunology*. He holds or has held additional journal editorial appointments with *Blood, Transplantation, Bone Marrow Transplantation, Journal of Clinical Immunology, Biology of Blood and Marrow Transplantation, and Clinical Immunology and Immunopathology*. He has also served on a variety of review panels, including: NCI Board of Scientific Councilors; National Heart, Lung, and Blood Institute (NHLBI) Strategic Planning Committee on Cellular Therapy (co-chair); Immunology of Gene Therapy Committee, American Society of Gene Therapy; Cellular Transplant Committee, American Transplant Society; Translational Research Grant Committee, Leukemia and Lymphoma Society; Advisory Committee on Biological Response, U.S. Food and Drug Administration (FDA); Immune Tolerance Network Steering Committee; annual meeting co-chair and Transplant Subcommittee, American Society of Hematology; annual meeting chair, American Society for Blood and Marrow Transplantation (ASBMT); National Institute of Allergy and Infectious Diseases/ Division of Allergy, Immunology, and Transplantation Strategy Group; NIH Cancer Immunopathology and Immunotherapy Study Section (chair); NIH Experimental Therapeutics-2 Study Section; NIH Immunobiology Study Section; and NIH (P01, R01), National Cancer Institute (intramural), and FDA (intramural) Site Visit Teams (member, chair).

His career honors include: Ernest Beutler Prize and Lecture, American Society of Hematology; University of Minnesota (UMN) Regents' Professor (elected); elected fellow, American Association for the Advancement of Science; elected member, UMN Academic Health Center Academy of Excellence; elected member, Alpha Omega Alpha, Albany Medical College; elected to the Association of American Physicians; E. Donnell Thomas Lectureship, ASBMT; NIH Meritorious Extension of Research in Time Award (NHLBI); elected to the American Society of Clinical Investigation; 17th Annual Edward Mallinckrodt Foundation Scholar Award; Clinical Investigator Award, National Institute of Arthritis, Diabetes, Digestive and Kidney Diseases-NIH; Fellowship Award, Leukemia Society of America; National Research Service Award, NIH; Clinical Fellowship Award, American Cancer Society; and Research Award, Albany Medical College.

A biology graduate (with honors) of Rensselaer Polytechnic Institute, Blazar received his M.D. from Albany Medical College. He completed his medical internship and residency at UMN Hospital and subsequently trained as a pediatric hematology/oncology fellow and then as a postdoctoral research associate at UMN. He joined the university faculty in 1985 as an instructor and associate professor and founding co-director of the DNA Typing Laboratory at the university's Institute of Human Genetics and was appointed a full professor in 1995. He holds additional university appointments as Andersen Chair in Transplantation Immunology; chief, Pediatric Blood and Marrow Transplant Program; founding director, Center for Translational Medicine; founding director, Clinical and Translational Science Institute; associate vice president for clinical and translational science programs; and Regents Professor.

Carl H. June, M.D., AAI '87

Richard W. Vague Professor in Immunotherapy, Department of Pathology and Laboratory Medicine, Perelman School of Medicine, Investigator and Program Director of Translational Research, Abramson Family Cancer Research Institute, University of Pennsylvania



Carl H. June

Carl June's research focuses on basic principles of lymphocyte activation and on the development of new forms of T cell-based therapies to combat cancer and chronic infections. His lab has a long-standing interest in T cell costimulation and signal transduction and has also addressed the role of telomerase in T cell replicative senescence. June has applied insights gleaned from his basic

research to developing novel forms of immunotherapy for the treatment of cancer, including adoptive immunotherapy, customized vaccination, and new approaches to the treatment of recurrent ovarian cancer. June's translational work has included the evaluation of lentiviruses as vectors to modify T cells in HIV-infected individuals and cancer patients and the development of chimeric antigen receptors (CAR) to direct a patient's own T cells to attack a desired target. Recently, June's group

used adoptive immunotherapy with CAR-expressing patient T cells to successfully treat patients with advanced chronic lymphocytic leukemia.

June has served as a major symposium chair and speaker at multiple AAI annual meetings, as a member of the AAI Introductory Immunology Course faculty, and as an associate editor for *The Journal of Immunology*. His additional professional service appointments include: past president, Clinical Immunology Society; board member, Foundation for the Accreditation of Cellular Therapy; board member, International Society for Biologic Therapies; chair, Scientific Committee on Lymphocyte Biology, American Society of Hematology; and chair, Genetic Vaccines Committee, American Society of Gene Therapy.

June's career honors include: election to the American Association of Physicians; Bristol-Myers Squibb Freedom to Discover Award; Federal Laboratory Award for Excellence in Technology Transfer; William Osler Award, University of Pennsylvania School of Medicine; Lifetime Achievement Award, Leukemia and Lymphoma Society of America; Burroughs Wellcome Fund Award: Visiting Professor in the Basic Medical Sciences; Frank Brown Berry Prize in Federal Medicine; Dexter Conrad Award, Office of Naval Research (the U.S. Navy's highest award for scientific achievement); Legion of Merit, U.S. Navy; elected member, American Society for Clinical Investigation; and Michael E. DeBakey Scholar Award for Outstanding Medical Student, Baylor College of Medicine.

A biology graduate of the U.S. Naval Academy, June trained as a graduate research fellow in immunology and malaria with Dr. Paul-Henri Lambert at the World Health Organization, Geneva, Switzerland, and received his M.D. from Baylor College of Medicine. He completed his medical internship and residency at the National Naval Medical Center while serving as a teaching fellow in the Department of Medicine at the Uniformed Services University of the Health Sciences (USUHS). He then undertook postdoctoral training in transplantation biology (mentor: E. Donnell Thomas) as an oncology fellow at the Fred Hutchinson Cancer Research Center in Seattle. In 1986, he was appointed assistant professor at USUHS; he founded the Immune Cell Biology Program and was head of the Department of Immunology at the Naval Medical Research Institute from 1990 to 1995. He was appointed full professor at USUHS in 1995 and joined the University of Pennsylvania faculty in 1999.

Continued on next page

Members in the News *(continued)*

Dan R. Littman, M.D., Ph.D., AAI '87

Investigator, Howard Hughes Medical Institute; Helen L. and Martin S. Kimmel Professor of Molecular Immunology; Professor, Departments of Pathology, Microbiology and Molecular Pathogenesis, and Member, Skirball Institute of Biomolecular Medicine, New York University School of Medicine



Dan R. Littman

Early in his career, Dan Littman isolated the gene encoding CD4. He later determined the region of CD4 that interacts with HIV and identified the chemokine receptor CCR5 as a coreceptor for HIV entry. Littman's lab has continued to investigate HIV pathogenesis, analyzing the mechanisms by which HIV enters cells and depletes CD4+ T cells, determining

how dendritic cells can enhance HIV infection of T cells, and developing mouse models of HIV infection. His group also studies the transcriptional regulation of T cell differentiation, particularly during the commitment of double-positive thymocytes to the CD4+ or CD8+ T cell lineage and the differentiation of Th17 cells. In addition, the Littman lab has a major interest in the maintenance of immune homeostasis in peripheral tissues and the role of the commensal microbiota in regulating T cell differentiation, host defense, and susceptibility to autoimmune disease.

Littman is a member of the AAI Council, having been elected in 2010, and was the 2010 recipient of the AAI-Invitrogen Meritorious Career Award. He previously served as a member of the AAI Awards Committee, AAI Nominating Committee, and AAI Program Committee. He is a past AAI Distinguished Lecturer and has served as an AAI president's symposium speaker and as a major symposium chair and speaker at the AAI annual meeting.

Littman is an elected member/fellow of the National Academy of Sciences, the American Academy of Arts and Sciences, the Association of American Physicians, and the American Academy of Microbiology. Other professional honors include the Alexander Berg Prize in Microbiology and Immunology, the New York City Mayor's Prize for Excellence in Science and Technology, NIH Director's Lecture, NIH Meritorious Extension of Research in Time Award, and the Searle Scholar Award. He serves on a variety of journal editorial boards and as a member of the Jackson Laboratories Board of Scientific Overseers and is a past member of the NIH AIDS Vaccine

Research Committee, the National Cancer Institute Board of Scientific Councilors, and the NIH Immunobiology Study Section.

Littman received his A.B. in biochemical sciences from Princeton University and his M.D. and Ph.D. (molecular biology) from Washington University School of Medicine.

He completed his medical residency in pathology at the Columbia University College of Physicians and Surgeons and served as a Jane Coffin Childs postdoctoral fellow in the laboratory of Richard Axel at Columbia University. He joined the University of California, San Francisco, faculty as an assistant professor in 1985 and became an assistant Howard Hughes Medical Institute (HHMI) investigator there in 1987. He was appointed full professor in 1994 and became a full HHMI investigator one year later upon joining the faculty at New York University.

Jennifer M. Puck, M.D., AAI '12

Professor, Departments of Immunology and Pediatrics, University of California, San Francisco



Jennifer M. Puck

Jennifer Puck studies human primary immunodeficiencies with the combined aims of improving diagnosis and treatment of these rare conditions and understanding how their underlying gene mutations cause defects in lymphocyte development and function. She mapped and identified the *IL2RG* disease gene for X-linked severe combined immunodeficiency (XSCID) and conducted a clinical trial of

retroviral gene therapy for patients with XSCID who had failed bone marrow transplantation. She has developed a screening assay based on the detection of T cell receptor excision circles to test for severe lymphocyte defects in newborns, and this assay is now commonly used in several states. In addition, Dr. Puck has identified gene defects in other immunodeficiency diseases, including autoimmune lymphoproliferative syndrome and hyper-immunoglobulin E syndrome. Her lab also uses mouse models to investigate T cell development.

Puck is senior editor of *Primary Immunodeficiencies: A Molecular and Genetic Approach* (textbook) and was the founding chair of the NIH Clinical and Translational Science Award (CTSA) National Pediatric Oversight Committee. She serves on the steering committees of the Primary Immunodeficiency Treatment Consortium and U.S. Immunodeficiency Network; Selection Committee, NIH Pediatric Scientist Development Program; and Medical

Advisory Committee, Immune Deficiency Foundation. Her past professional service appointments include: Council Delegate, American Association for the Advancement of Science; Medical Sciences Chair, National Child Health Oversight Committee, NIH CTSA Program; Maternal and Child Health Genetic Services Workgroup on Uniform Criteria for Newborn Screening, U.S. Department of Health and Human Services Health Resources and Services Administration; Advisory Committee for Clinical Scientist Awards in Translational Research (including as co-chair), Burroughs-Wellcome Fund; founder and chair, National Human Genome Research Institute (NHGRI) Institutional Review Board, NIH; NIH Human Subjects Research Advisory Committee; and NIH Clinical Research Training Program Advisory Committee.

Puck's career honors include: keynote speaker, Association of Public Health Laboratories Newborn Screening and Genetic Testing Symposium; Richard S. Farr Memorial Lectureship/Presidential Plenary Address, American Academy of Allergy, Asthma, and Immunology; Robert Guthrie Memorial Lectureship, Society of Inherited Metabolic Disorders Annual Meeting; election to American Pediatric Society; NHGRI Director's Awards (three) for Scientific Achievement, Outstanding Service, and Studies Defining Autoimmune Lymphoproliferative Syndrome; election to Association of American Physicians; election to American Society for Clinical Investigation; and Physician Scientist Award, NIH.

A biochemistry graduate (with honors) of Harvard University, Puck received her M.D. at Harvard Medical School. She trained as a pediatric resident and infectious diseases fellow at St. Louis Children's Hospital and Washington University and completed pediatrics infectious diseases and immunology fellowships at Baylor College of Medicine, where she later served as an instructor in pediatrics and microbiology/immunology. She joined the University of Pennsylvania School of Medicine faculty as an associate professor in 1991. From 1993 to 2006, she headed the Immunologic Disease Section at NHGRI, NIH, while serving as senior staff physician at NIH's H. G. Magnusen Clinical Center. During the same period, she held NHGRI appointments as associate chief of the Laboratory for Gene Transfer, chief of the Genetics and Molecular Biology Branch, and director of the Molecular Diagnostic Laboratory in Immunologic Genetics. In 2006, Puck was appointed full professor at the University of California, San Francisco (UCSF), where she also serves as Pediatric Clinical Research Center medical director, UCSF Clinical and Translational Research Institute; director, Benioff Children's Hospital Pediatric Immunology Service; and as a UCSF Institute of Human Genetics investigator.

Wayne M. Yokoyama, M.D., AAI '84

Investigator, Howard Hughes Medical Institute; Professor of Medicine, Pathology, and Immunology and Sam J. Levin and Audrey Loew Levin Chair for Research on Arthritis, Division of Rheumatology, Washington University School of Medicine



Wayne M. Yokoyama

Wayne Yokoyama is renowned for bringing the study of natural killer (NK) cells into the mainstream of immunology through the discovery of NK cell inhibitory receptors. This discovery revealed a mechanism by which NK cells could distinguish between target cells to be killed [which lack major histocompatibility complex class I (MHC I) expression] and cells to be spared (which express MHC I). Yokoyama has proceeded to identify and characterize many NK cell receptors and their ligands and investigate how NK cells act to protect the host against infections and malignancies. Yokoyama's research has also identified the process of NK cell "licensing," through which these cells become functionally competent. In addition, the Yokoyama lab studies NK cell responses to tumors, rheumatoid arthritis, vasculitis, and infections with murine cytomegalovirus and cowpox virus. These studies have the ultimate goal of using the understanding of NK cell activity to develop effective NK cell-directed therapeutic interventions.

Yokoyama is a member of the AAI Council, having been elected in 2012. His extensive past service to AAI has included terms as chair of the AAI Awards Committee and as a member of the AAI Nominating Committee, the AAI Program Committee, and the AAI Clinical Immunology Committee. He has served multiple times as an AAI Advanced Course in Immunology faculty member and as an associate editor and ad hoc reviewer for *The Journal of Immunology (The JI)*. In 2006, *The JI* selected Yokoyama's 1992 research paper—Karlhofer, F. M., Ribaud, R. K., and Yokoyama, W. M. (1992) MHC class I alloantigen specificity of Ly-49+ IL-2-activated natural killer cells. *Nature* 358, 66–70—for inclusion in its "Pillars in Immunology" series. Yokoyama holds or has held additional editorial appointments with more than 20 leading scientific journals in immunology and medicine.

His career honors include: elected member, National Academy of Sciences; Lee C. Howley Sr. Prize for Research in Arthritis, National Arthritis Foundation;

Continued on next page

Members in the News *(continued)*

Wayne M. Yokoyama *(continued)*

elected member, American Academy of Arts and Sciences; elected fellow, American Association for the Advancement of Science; elected fellow, American Academy of Microbiology; past president, Society for Natural Immunity; Meritorious Extension of Research in Time Award, National Institute of Allergy and Infectious Diseases (NIAID), NIH; Novartis Prize for Basic Research in Immunology (awarded triennially at the International Congress of Immunology); elected member, Association of American Physicians; elected member, American Society for Clinical Investigation; Henry Christian Memorial Award for Excellence in Research, American Federation for Clinical Research (outstanding immunology/rheumatology research abstract); Carl and Gerty Cori Faculty Achievement Award, Washington University; Washington University School of Medicine (WUSM) student-selected Distinguished Service Teaching Awards (three); elected faculty, Alpha Omega Alpha medical student honor society; Distinguished Alumni Award for Achievement, University of Iowa College of Medicine; Scholar of the Rosalind Russell Medical Research Center for Arthritis; Senior Staff Fellowship, NIAID, NIH; Medical Staff Fellowship, NIAID, NIH; Individual NIH National Research Service Award; Veteran's Administration Associate Investigator Award; Arthritis Foundation Postdoctoral Fellowship; and Hawaii State Medical School Scholarship.

Yokoyama's professional appointments (current and prior) include service on multiple grant review panels, including with the NIH Center for Scientific Review, NIH Director's Pioneer Awards, and various NIH institutes (NIAID, including Advisory Council; National Cancer Institute; National Institute of Arthritis and Musculoskeletal and Skin Diseases), as well as with the National Science Foundation, U.S. Department of Veterans Affairs, Howard Hughes Medical Institute (HHMI) Investigator Competition, Arthritis Foundation, The Wellcome Trust, National Cancer Institute of Canada, Israel Science Foundation, Medical Research Council (UK),

Science and Technology Center (Ukraine), Swiss National Science Foundation, Biotechnology and Biological Sciences Research Council (UK), Ireland-Northern Ireland Co-operation Health Research Board, Ministère de la Recherche (France), Deutsche Forschungsgemeinschaft (Germany), Croatia-Israel Joint Research Program, Agency for Science, Technology, and Research's Biomedical Research Council (Singapore), and Czech Science Foundation.

A biology graduate of the University of Rochester (New York), where he served as a student researcher in the laboratory of Parker Staples, Yokoyama received his M.D. from the University of Hawaii, where he served as a student researcher in the laboratory of Eugene Lance at the Cancer Center of Hawaii. Yokoyama completed postdoctoral training appointments as an intern (internal medicine), resident (internal medicine), and clinical fellow (rheumatology), all at the University of Iowa Hospitals (UIH) in Iowa City. He undertook additional postdoctoral training as a research fellow in the laboratory of Robert Ashman at UIH and subsequently in the Ethan Shevach lab at the Laboratory of Immunology, NIAID, NIH.

In 1989, Yokoyama was appointed an assistant professor in residence at the University of California San Francisco School of Medicine. In 1992, he joined the Department of Medicine faculty of the Mount Sinai Medical Center as an associate professor, holding concurrent appointments as associate professor at the Brookdale Center for Molecular Biology, Mount Sinai School of Medicine (MSSM) and as a doctoral faculty member in the biomedical sciences Ph.D. program at the Graduate School and University Center of The City University of New York. He later held additional MSSM appointments as associate HHMI investigator and associate professor in the MSSM Department of Microbiology before joining the WUSM faculty as rheumatology division chief in the Department of Medicine in 1995. Yokoyama has been an HHMI investigator since 1997.

The Institute of Medicine (IOM) is unique in its structure as both an honorific membership organization and an advisory organization. Established in 1970 by the National Academy of Sciences, IOM has become recognized as a national resource for independent, scientifically informed analysis and recommendations on health issues. With their election, members make a commitment to volunteer their service on IOM committees, boards, and other activities. Projects during the past year include studies of environmental factors in breast cancer, health information technology and patient safety, nutrition rating systems and graphics on food packaging, the scientific necessity of chimpanzees in research, establishing crisis standards of care during catastrophic disasters, improving care for epilepsy, and treatment of post-traumatic stress disorder.

Ronald Goldfarb Assumes Leadership of Trudeau Institute



Ronald H. Goldfarb

Ronald H. Goldfarb, Ph.D., AAI '88, has joined the Trudeau Institute as the biomedical research institution's sixth president, director, and chief executive officer (CEO).

A Trudeau press release announcing his appointment cited Goldfarb's public- and private-sector experience in bringing new technology to market and attracting substantial funding for research

and development. In addition to working closely with Trudeau faculty to extend Trudeau's reputation as a center of excellence for basic and translational immunological studies, Goldfarb will focus on revenue diversification strategies to ensure Trudeau's successful transition into a new era.

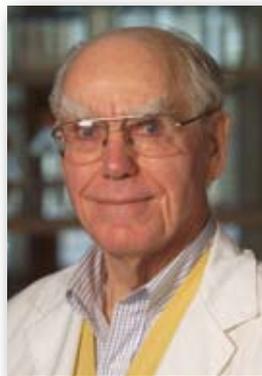
Known for his work on natural killer cells in cancer, particularly lung cancer, and studies aimed at controlling metastasis, Goldfarb has worked for over three decades in cancer research and development in academic and industrial settings. Prior to joining Trudeau, he was president, CEO, and chief scientific officer of Sopherion Therapeutics, a privately held biopharmaceutical company he co-founded in 2002.

Goldfarb received his B.A. in biological sciences from Herbert H. Lehman College of the City University of New York (formerly Hunter College in the Bronx) and Ph.D. in microbiology and immunology from SUNY Downstate Medical Center in Brooklyn. He undertook postdoctoral studies in tumor immunochemistry at SUNY Downstate (mentor: J. P. Quigley) and in tumor immunology at the National Cancer Institute (NCI), NIH (mentor: R. B. Herberman), where he also served as a staff fellow in tumor immunology and cancer metastasis. Goldfarb then joined Pfizer as manager of cancer research and drug discovery in the Department of Immunology and Infectious Disease. In 1986, Goldfarb was appointed associate professor of pathology at the University of Pittsburgh School of Medicine, where he later was appointed full professor and deputy director of the University of Pittsburgh Cancer Institute. In 1997, he was appointed professor and chair of the Department of Molecular Biology and Immunology at the University of North Texas Health Science Center, where he also directed the center's Institute for Cancer Research.

Goldfarb has held editorial appointments with the *Journal of Neuro-Oncology*, *Natural Immunity*, *Analytical Cellular Pathology/Cellular Oncology*, *Natural Immunity and Cell Growth Regulation*, *Anti-Cancer Research*, and *Revista Argentina de Oncologia*. He has edited or co-edited five books or special-edition journal volumes on cancer, tumor immunology, and cancer therapy; holds U.S. and international patents in anti-cancer drug discovery; and was awarded for Outstanding Service to the Cause of Cancer Control from the American Cancer Society in 2002.

Goldfarb has held numerous peer-review panel appointments, including as chair of multiple federal and state oncology study sections for the NCI, the American Cancer Society, the Department of Veterans Affairs (VA), the Department of Defense, and the University of California. He has also served as a member of the VA Merit Review Council and on the scientific advisory boards of five biotechnology companies (including three as chair).

Richard Aster is Henry Stratton Medal Recipient



Richard A. Aster

Richard A. Aster, M.D., AAI '72, is the 2012 recipient of the Henry M. Stratton Medal for Clinical/Translational Research from the American Society of Hematology (ASH). The honor, which recognizes senior investigators whose contributions to hematology are widely noted and have taken place over a period of years, reflects Aster's breakthroughs in the study of immune disorders that affect blood cells.

Aster serves as senior investigator at BloodCenter of Wisconsin's Blood Research Institute and as a professor in the departments of medicine and pathology at the Medical College of Wisconsin. The institute is a private, not-for-profit organization specializing in blood services, organ and tissue recovery, marrow donation, diagnostic testing, medical services, and leading-edge research. BloodCenter of Wisconsin is the exclusive provider of blood to hospitals in 29 Wisconsin counties.

Aster is known as a leader in hematology and transfusion medicine, a field in which he has been engaged—in basic and clinical research—for 50 years. His research seeks to advance the understanding of immune-mediated destruction of blood cells and to

Continued on next page

Members in the News *(continued)*

Richard A. Aster *(continued)*

improve diagnosis and treatment of diseases resulting from such aberrant immune responses. The lab's areas of investigation include: drug-induced immune thrombocytopenia, hemolytic anemia, and neutropenia; heparin-induced thrombocytopenia and thrombosis; neonatal alloimmune thrombocytopenia; and transfusion-related acute lung injury. Aster is recognized for having distinguished neonatal alloimmune thrombocytopenic purpura, post-transfusion purpura, and quinine-induced hemolytic-uremic syndrome as distinct clinical entities and has characterized many platelet-specific antigens. In all of this work, the ultimate goal is to develop improved methods to diagnose, treat, and prevent hematologic diseases associated with autoimmunity, alloimmunity, and drug sensitivity.

An active member of ASH since 1964, Aster has contributed scientific content to every ASH annual meeting since joining the society. His more than 350 scientific papers have been published in the world's leading scientific and clinical journals and include over 40 manuscripts published in the ASH journal *Blood*. His

career honors include the NIH Merit award, National Heart, Lung, and Blood Institute (NHLBI); Distinguished Service Award, Milwaukee Academy of Medicine; Bernard Fantus Medal for Lifetime Achievement, American Association of Blood Banks (AABB); Thomas F. Zuck Lifetime Achievement Award, America's Blood Centers; Karl Landsteiner Award, AABB; and Emily Cooley Award, AABB.

Aster received his B.S. (physics and mathematics) and M.D. degrees from the University of Michigan. He completed his medical residency at Massachusetts General Hospital before serving as a clinical associate at NHLBI, NIH, and later as a research fellow at Boston City Hospital, Harvard Medical School. He held additional Harvard Medical School appointments as an instructor in medicine, tutor in medical sciences, and associate in medicine before being appointed assistant professor in medicine in 1968. In 1970, he was appointed professor of medicine at the Medical College of Wisconsin and president of BloodCenter of Wisconsin. He held the latter post until his appointment as BloodCenter senior investigator in 1996. From 1985 to 1990, he also served as director of the Medical College of Wisconsin Cancer Center.

Nineteen AAI Members Elected as AAAS Fellows

In October 2012, 19 AAI members were elected as fellows of the American Association for the Advancement of Science (AAAS), an honor recognizing AAAS members who advance science or its applications through their distinguished accomplishments and contributions to science and technology.

Bestowed by AAAS member peers, the honor is reserved for those whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished. Examples of areas in which fellows have made significant contributions are research, teaching, technology, services to professional societies, and administration in academe, industry, and government, as well as in communicating and interpreting science to the public.

Fellows are elected annually by the AAAS Council from a list of nominations recommended by the AAAS section steering committees representing the various fields of scientific endeavor. The list may also include nominees offered by any three AAAS fellows, as long as two of the three sponsors are not affiliated with the nominee's institution; it may also include nominees offered by the AAAS chief executive officer.

The names of the newly elected fellows are published annually in the journal *Science*. The 701 fellows elected in 2012 will be recognized in February at the 2013 AAAS Annual Meeting in Boston.

The AAI members elected as AAAS fellows in 2012 include:

AAAS Section on Biological Sciences

Jianzhu Chen, AAI '98
Massachusetts Institute of
Technology

Elizabeth A. Grimm, AAI '80
MD Anderson Cancer Center

Michael Steven Krangel, AAI '90
Duke University School of Medicine

Mitzi Nagarkatti, AAI '86
University of South Carolina

Barry Paul Sleckman, AAI '00
Washington University in St. Louis

Xiao-Hong Sun, AAI '99
Oklahoma Medical Research
Foundation

Bridget S. Wilson, AAI '06
University of New Mexico

Keji Zhao, AAI '10
National Heart, Lung, and Blood
Institute, NIH

AAAS Section on Medical Sciences

Hal Edward Broxmeyer, AAI '79
Indiana University School of
Medicine

Genhong Cheng, AAI '04
University of California, Los Angeles

Ronald N. Germain, AAI '78
National Institute of Allergy and
Infectious Diseases, NIH

M. Eric Gershwin, AAI '76
University of California Davis Health
System

**Clifford Vincent Harding III,
AAI '91**
Case Western Reserve University

John Joseph O'Shea Jr., AAI '84
National Institute of Arthritis and
Musculoskeletal and Skin Diseases,
NIH

Lawrence E. Samelson, AAI '84
National Cancer Institute, NIH

Mark S. Schlissel, AAI '00
Brown University

Lishan Su, AAI '10
University of North Carolina
at Chapel Hill

Kenneth S. K. Tung, AAI '72
University of Virginia

J. Lindsay Whitton, AAI '08
Scripps Research Institute

Shreevrat Goenka, Ph.D., AAI '11

1970–2012

Shreevrat Goenka, Ph.D., an AAI member since 2011, died unexpectedly at home on November 28, 2012, of undetermined causes. At the time of his death, he was an assistant professor of pediatrics and of microbiology and immunology at the Indiana University (IU) School of Medicine.

He is survived by his parents, brother, and sister-in-law, who considered Shreevrat their best friend and a pillar of support in their lives. A fund in Shreevrat's name has been established through the IU Foundation, and donations can be made by calling 1-800-558-8311 or online at <http://iufoundation.iu.edu>. Please specify that the gift is in memory of Shreevrat Goenka.

AAI member Mark H. Kaplan, AAI '98, Shreevrat's mentor, collaborator, and friend at IU, authored the following tribute. AAI gratefully acknowledges the submission.

Born in India, Shreevrat received his undergraduate degree from Bombay University, where he began his undergraduate research on fungal enzymes and malaria. In 1992, he matriculated into the Department of Biochemistry Ph.D. program at the University of Kansas in Lawrence. His research focused on the molecular biology of baculoviruses in the laboratory of Robert Weaver.

Following completion of his Ph.D., Shreevrat joined Mark Boothby's laboratory at Vanderbilt University as a postdoctoral fellow in 1997. His work concentrated on signaling pathways and the transcription factors that mediate cytokine responses, with a particular interest in STAT6. During his collaboration with Boothby, Shreevrat made several important discoveries, including the identification of a STAT6 transcriptional co-factor, which became the focus of his research as an independent investigator. This factor, initially called Collaborator of Stat6 (Coast6), was later found to be a member of a poly-ADP-ribosyl polymerase family and is now termed PARP-14.

In 2007, Shreevrat joined my Asthma and Allergic Diseases program in the Department of Pediatrics at IU. He quickly became an important part of the program, actively participating in lab meetings, student committees, journal clubs, and collaborations, always bringing his unique insights and enthusiasm to each forum. He built his laboratory with researchers focused on understanding the mechanisms of PARP-14 gene activation and the



Shreevrat Goenka

importance of PARP-14 in cells that contribute to the development of allergic inflammation. His research attracted R01 funding within two years of his becoming faculty. His work demonstrated that STAT6 activated the ADP-ribosyl transferase function of PARP-14 and the subsequent ribosylation of histone deacetylases, displacing them from STAT6 target genes. This detailed mechanism, which Shreevrat termed a transcriptional switch from basal to induced gene expression, was published in 2011. His more recent work, detailed in a report currently in press, defined a requirement for PARP-14 in the

development of allergic inflammation, at least partially through the contribution of PARP-14 to Th2 and Th9 cell differentiation. This study also demonstrated that PARP inhibitors diminish developing and developed allergic inflammation in animal models, highlighting new avenues for potential therapy. He was co-author on six additional papers stemming from his investigations at IU. Although his career was far too short, he made a significant impact on our understanding of STAT6-dependent gene regulation.

Shreevrat was an integral part of the university community and his discipline. He organized journal clubs, reviewed proposals for internal grant competitions, was on the admissions committee for the IU School of Medicine graduate program, and had just joined the Institutional Animal Care and Use Committee. He was a frequent reviewer for journals, including *The Journal of Immunology*. He directed the H. B. Wells Center Summer Internship Program for the last three years and steered it to great success. Under his direction, the program attracted many talented undergraduate students from across the country to Indianapolis and provided an interactive forum for these students to begin their research careers.

Foremost among Shreevrat's many passions was enjoying the myriad friendships he had cultivated over his career. There seemed to be few weekends when he was not gathering with local friends and neighbors, entertaining visitors in his home, or traveling to see friends across the United States and across the world. Shreevrat had a transcendent warmth that made everyone who met him feel instantly at ease, like becoming reacquainted with a long-lost friend. At the same time, he possessed

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AAI Expands Support of Early-Career Scientists

AAI, each year, conducts a robust awards program for early-career scientists at its annual meeting. In a 2011-launched initiative, AAI also supports opportunities for trainees and postdoctoral researchers to present their science at a number of regional immunology meetings. AAI support, beyond that given for the annual meeting in 2012, included sponsorship of lectures, workshops, and 100 awards for outstanding posters and oral presentations. The number of meetings supported by AAI in 2012 grew to 11, up from four in 2011. "These conferences provide valuable professional development opportunities for students and trainees, many of whom are speaking to colleagues outside of their departments and institutions for the first time," said Mary Litzinger, AAI '11, manager of educational and career development programs for AAI. "We participate in them also to support AAI-member chairs and coordinators of the meetings offering these vital opportunities."

Previous issues of this newsletter have reported on meetings that AAI supported earlier in 2012. We note below six of the meetings the association has supported since September.

38th Annual La Jolla Immunology Conference (LJIC)

The Salk Institute for Biological Research was again the site of the LJIC, held October 9–11. Stephen Schoenberger, AAI '05, and Alessandra Franco, AAI '98, served as co-chairs of the meeting, attended by more than 300 scientists from research organizations, including the University of California (San Diego, Riverside, Los Angeles), Stanford University, La Jolla Institute of Allergy and Immunology (LIAI), the Scripps Institute (TSRI), and Sanford-Burnham Medical Research Institute. Although attendance was drawn primarily from the region, scientists were also present from research centers as far away as the University of Utrecht Medical Center. Carl June, AAI '87, of the University of Pennsylvania, delivered the keynote address, "Better Living through Chemistry: Engineered T Cells for Cancer and HIV."



Stephen Schoenberger



Alessandra Franco

AAI sponsored 10 awards for the meeting. Three AAI awards were given for excellent oral presentations. Recipients for these were Amanda Buchau (TSRI), Yi Ting Koh (TSRI), and Ekaterina Koltsova (LIAI). AAI awardees also included seven poster presentation awardees: Norihito Kawasaki (TSRI), Gene Lin (LIAI), Matthew Macauley (TSRI), Zbigniew Mikulski (LIAI), Heba Nowyhed (LIAI), Luise Sternberg (TSRI), and Prithu Sundd (LIAI). The awards were presented by AAI Councillor Linda Sherman, AAI '81, at a Gala Awards Dinner held at the Birch Aquarium. Kerri Mowen, AAI '06, of the AAI Membership Committee, took time at the podium to speak to attendees about the value of participation in AAI.



Oral presentation awardees at the 38th Annual LJIC, with presenter Linda Sherman (at right)



Poster presentation awardees with Linda Sherman

15th Annual Upstate New York Immunology Conference (NYIC)

Held October 21–24 in Bolton Landing, N.Y., at the Sagamore Resort and Conference Center on Lake George, the 2012 NYIC meeting was organized by James Drake, AAI '01, and Katherine MacNamara, AAI '11, along with Dennis Metzger, AAI '82, and nine additional institutional representatives, all ably assisted by Dawn Bellville of the Albany Medical College. Registrants enjoyed a great view of the lake and surrounding woods in near-peak fall color, and weekend activities available to the 100 attendees included live music and dancing as well as a cruise aboard *The Morgan*, a replica of a 19th century touring boat.

Keynote speakers were AAI President Gail Bishop, AAI '84 (“Multiple Personalities for TRAF Molecules in Immune Regulation”), and Ralph Budd, AAI '90 (“Caspase Regulation of Immune Response: the FLIP Side”). Sharon Evans, AAI '12, from the Roswell Park Cancer Institute, commended the conference organizers, saying, “I thoroughly enjoyed [NYIC], as always, and my students were thrilled to have a chance to present their work in oral and poster sessions. What a coup to have Gail Bishop there. She was wonderfully engaged in every forum—including the dancing!”

In support of the 2012 NYIC, AAI sponsored the 21 Young Investigator Awards given at the conference. Winners of the AAI awards were: Allen Y. Chung, SUNY Buffalo; Weishan Huang, Cornell University; Julie S. Lefebvre, Trudeau Institute; Donald Steiner, Albany Medical College; Abigail L. Sedlacek, University of Rochester; Anthony J. Hickey, Trudeau Institute; Maryann Mikucki, Roswell Park Cancer Institute; Daniel T. Fisher,

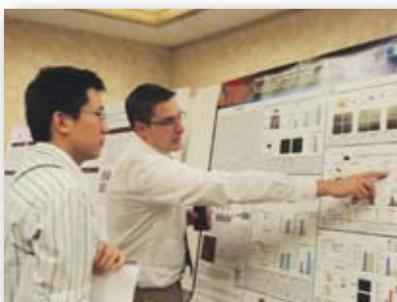
Roswell Park Cancer Institute; Sesquile Ramon, University of Rochester; Elise Macho Fernandez, Trudeau Institute; Arun K. Kannan, Cornell University; Renee Laird, AAI '07, SUNY Upstate Medical University; Nicholas Leigh, Roswell Park Cancer Institute; Catherine G. Burke, University of Rochester; Meghan E. Bushway, University of Rochester; Jennifer Yates, SUNY Albany School of Public Health; Jason Muhitch, Roswell Park Cancer Institute; Egidio Torrado, AAI '09, Trudeau Institute; Amanda McCabe, Albany Medical College; William W. Reiley, Trudeau Institute; and Megan Murray, Roswell Park Cancer Institute.



NYIC Awardee Nicholas Leigh



Attendees cruise Lake George aboard The Morgan



Awardee Jason Muhitch



Attendees dance to live music



With Gail Bishop (front row, center), the 21 recipients of AAI Young Investigator Awards at the 2012 NYIC

41st Annual Autumn Immunology Conference (AIC)

Drawing more than 500 scientists, the 41st AIC was held November 16–19 in Chicago. As in 2011, AAI sponsored 20 awards in support of talented trainees. Presenting the awards were conference chair Michael Farrar, AAI '00, assisted by Thomas Mitchell, AAI '01, of the AAI Membership Committee and the AIC Council. Recipients of the AAI Young Investigator Award were Kristen Barr, Katherine Berquam-Vrieze, Katharine Block, Claire Buchta, Nicole Chapman, Jooho Chung, Katie Davis, Sara Elizabeth Jones, David Lewis, Rebecca Mathew, AAI '12, Luis Muniz-Feliciano, Thanh-Long Nguyen, Andrew Robinson, Sarah Siddiqui, Cara Skon, Huimin Tao, Rachael Terry, Melissa Tjota, Jonathan Trujillo, and Daniel Weinberg.

AAI also continued its joint sponsorship of the Careers in Immunology Workshop for Undergraduates, directed by Sandra Burnett, AAI '03, since 2007 (see *AAI Newsletter*, January/February 2012), and added sponsorship of the Vaccines and Tumor Immunotherapy Workshop, chaired by Ryan Teague, AAI '10. The workshop blocks at the AIC give all presenters the opportunity to speak, and the late-afternoon poster sessions provide further opportunity for the trainees to present their research in a more informal and interactive setting. "It was inspiring to see the quality of research presented by undergraduate and graduate students, the future of immunology," said AAI Manager of Educational and Career Development Programs Mary Litzinger, AAI '11, who participated in the event on behalf of AAI.



Conference Chair
Mike Farrar



Tom Mitchell

Credit: William Burnett Photography

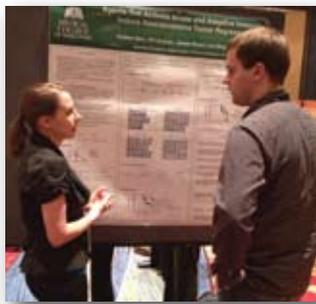


Keynote Speaker
Tim Mosmann

The AIC keynote address was given by Tim Mosmann, AAI '81, director of the Human Immunology Center, University of Rochester. In 1986, Mosmann published the first demonstration of Th1 and Th2 cells as subsets of CD4+ T cells producing distinct cytokine profiles, a classic paper cited by over 4,500 articles and highlighted in the *Pillars of Immunology* section of *The Journal of Immunology* (*The JI*; 175: pp. 5–14). To date, Mosmann has authored over 40 articles in *The JI*, a collection that includes a second *Pillars* article (189: pp. 2072–2076) on the cloning of interleukin-10, and he is among the 250 most-cited immunologists, according to Thomson Reuters. In his address, Mosmann reflected on some of his early discoveries and described more recent work using cytokine expression patterns to resolve T cell populations and assess immune responses.



Poster Session



Credit: William Burnett Photography

Awardee Kristen Barr



AAI Young Investigator Award recipients

Credit: William Burnett Photography

At this meeting, the AIC celebrated the 20th anniversary of its John Wallace Diversity Program, offering travel support for minority students and postdoctoral trainees attending the AIC. The Wallace Scholars 20th Anniversary Symposium was convened by Joe McGillis, AAI '89, and Rafael Fernandez-Botran, AAI '88, and featured past program alumni Bianca Mothe, AAI '04; Wilbert Derbigny, AAI '10; and Luciana Molinero. The five Wallace scholars attended a luncheon where they had an opportunity to meet one-on-one with AIC councillors, past Wallace scholars, and National Institute of Allergy and Infectious Diseases representatives to hear about their scientific career experiences and to receive advice on a range of career issues.



Wallace Special Symposium speakers and chairs (left to right): Luciana Molinero, Bianca Mothe, Wilbert Derbigny, Joe McGillis, Rafael Fernandez-Botran

Credit: William Burnett Photography

AAI JOHN WALLACE DIVERSITY PROGRAM

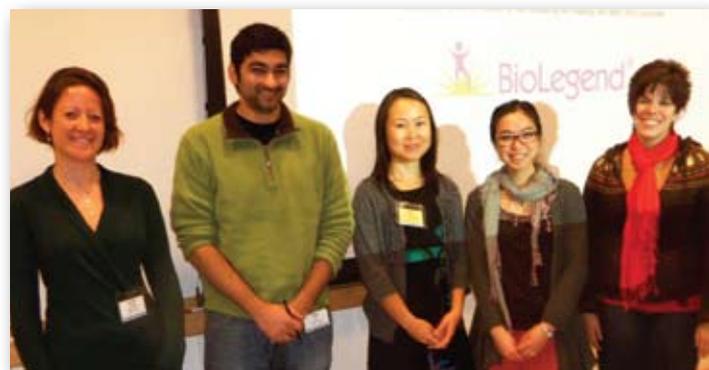
The AIC John Wallace Diversity Program honors the late John H. Wallace, one of the founders of the AIC. Throughout his career, Wallace was committed to improving the education and participation of minority students in the sciences, as well as promoting the interest of high school, middle school, and elementary students in scientific pursuits. AAI has been supportive of the goals of the late Dr. Wallace through the activities of the AAI Minority Affairs Committee (MAC), including sponsorship of the annual MAC Guest Lecture, MAC Careers and Networking Roundtable, and, with NIH and FASEB, the Minority Scientist Travel Awards at the AAI annual meeting. The association also administers the AAI High School Teachers Summer Research Program to enhance science education in secondary schools.

The 38th Annual New England Immunology Conference (NEIC)



Janeway Award winners Guy Surpris and Eduardo Villablanca

Held again in Woods Hole, Mass., at the Marine Biological Laboratory, the NEIC met November 17–18, drawing more than 70 researchers. For the second year, AAI sponsored the awards given at this conference, chaired by three AAI members, Mark Exley, AAI '02; J. Rodrigo Mora, AAI '07; and Thorsten Mempel, AAI '07. Five postdoctoral fellow and student winners were Tamara Tilburgs, Harvard University; Nikhil Joshi, AAI '12, Massachusetts Institute of Technology; Kaori Sango, Roger Williams Medical Center; Sze-Wah (Eva) Tse, Johns Hopkins University; and Stina Urban, University of Massachusetts Medical School. AAI also sponsored two Janeway Awards, named in honor of the late Charles A. Janeway, AAI '74, AAI president from 1997 to 1998. The Janeway Awards were won by Guy Surpris, Tufts University; and Eduardo Villablanca, Massachusetts General Hospital/Harvard Medical School. The broad-ranging program included 12 invited speakers (10 of whom were AAI members) speaking in three sessions chaired by the organizers. A poster session and a mixer followed the conference dinner on Saturday night.



AAI award recipients Tamara Tilburgs, Nikhil Joshi, Kaori Sango, Eva Tse, Stina Urban

Other Events Supported by AAI

AAI staff participated in two other events this fall, providing their expertise on career panel discussions.

In early November, Kaylene Kenyon, AAI '99, publication director for *The JI*, and Mary Litzinger, AAI '11, manager of educational and career development programs for AAI, participated in a career session at the **25th Annual Immunology Retreat** for postdoctoral fellows, graduate students, and faculty from the University of Pennsylvania, the Wistar Institute, the Childrens' Hospital



Table leader Kaylene Kenyon (left) with career session attendees

of Philadelphia, and the National Institutes of Health. The meeting was held at the Grand Hotel in Cape May, N.J. Following the career session, panelists remained for informal discussions with attendees about possible career paths and the skill sets for each. Drew Pardoll, AAI '88, was the keynote speaker. Meeting Chairs Taku Kambayashi, AAI '03, and Edward Behrens, AAI '07, presented two AAI-sponsored awards: Sheila Rao received the award for the best oral presentation, and Natalie Steinel was recognized for the best poster.

Also in early November, Jennifer Meyers, AAI '07, science coordinator for *The JI*, served on the Science Careers Panel, sponsored by AAI, at the **ThymUS** meeting in Sunny Isles Beach, Fla. Chair of the meeting's Career Development Committee David Wiest, AAI '02, along with session chair Barbara Kee, AAI '04, introduced panelists from academia, government, and industry as well as Meyers, who spoke about careers for scientists in scientific publishing. The keynote lecture, "Inflammasome, Microbiota, and Disease," was delivered by Richard Flavell, AAI '90.

Shreevrat Goenka

Continued from page 15

a charming naiveté that made him even more endearing, and trainees and colleagues adored his gentle and supportive demeanor. Even in facing the struggles common to all scientists, Shreevrat's smile could be seen across the room, down the hall, and in each gesture of collegiality and friendship he made throughout his career. His friends considered him family. Among the many condolences shared in the wake of his death, the sentiment, "Shreevrat was like a brother to me," was heard as commonly from those who had seen him the week before as from others who had not seen him for years.

Shreevrat's compassion and kindheartedness represented the best of humanity, and we will be forever enriched by his friendship and his contributions to science. In the truest sense of the expression, we have lost a gentleman and a scholar.

INTRODUCING

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* Journal Citation Reports®; 2010



AAI AWARDS

*Recognizing Scientists of Distinction
in Every Career Stage*



THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

In 2013 AAI anticipates honoring more than **800** member scientists for their research achievements and professional promise by providing awards and grants totaling over **\$800,000**.

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

AAI provides travel support for talented scientists-in-training to participate in its annual meeting. For IMMUNOLOGY 2013™, AAI will offer a new AAI Trainee Poster Award program in addition to the AAI Trainee Abstract Awards granted each year. Both awards provide travel reimbursements to trainee member first-authors of exceptional abstracts.

In its commitment to cultivate career opportunities for promising young scientists, AAI also provides travel support for trainees to attend the AAI summer immunology courses and sponsors over 100 awards at other immunology conferences.



Let AAI Help You Advance Your Career!

To join AAI, visit www.aai.org/Membership.

To view AAI individual awards, visit www.aai.org/Awards.

**Join Us for IMMUNOLOGY 2013™, the AAI Centennial Celebration
May 3–7, in Honolulu, Hawaii**

GRANT AND AWARD DEADLINES

Lasker Medical Research Awards— February 1

The Lasker Foundation is accepting nominations for the 2013 Albert Lasker Basic Medical Research Award and Lasker-DeBakey Clinical Medical Research Award through February 1, 2013. Among the most respected science prizes in the world, the Lasker awards have, since 1945, recognized the contributions of scientists, physicians, and public servants who have made major advances in the understanding, diagnosis, treatment, cure, and prevention of human disease.

The Albert Lasker Basic Medical Research Award honors scientists whose fundamental investigations have opened new areas of biomedical science by providing techniques, information, or concepts contributing to the elimination of major causes of disability and death. The Lasker-DeBakey Clinical Medical Research Award honors investigators whose contributions have led, in a pioneering way, to major improvement in the clinical management or treatment of patients.

Prize/Award

Each award consists of an honorarium, a citation, and an inscribed statuette of the Winged Victory of Samothrace, symbolizing victory over death and disease.

Eligibility

Prospective awardees may reside in any country of the world.

Nomination

To submit a nomination electronically, visit www.laskerawardnomination.org/splash.cfm. To submit by mail, download and complete the nomination packet at www.laskerfoundation.org/pdf/2013researchnom_medical.pdf, and mail it to: The Lasker Awards, Attn: David Keegan, 110 East 42nd Street, Suite 1300, New York, NY 10017.

Details

www.laskerfoundation.org/

Contact

David Keegan: dkeegan@laskerfoundation.org; phone: (212) 286-0222

American Asthma Foundation (AAF) Research Awards—February 6

Applications for 2013 AAF Research Award funding are being accepted through February 6, 2013. The AAF research program is the largest private funder of asthma research, having awarded nearly \$100 million to scientists since 2000. Awardees are offered the challenge, freedom, and funding to pursue new ideas, without preliminary data. Most are studying asthma for the first time, bringing expertise and perspectives from fields including genetics, cell signaling, metabolism, crystallography, biochemistry, pharmacology, and neurobiology, among others. The program supports work in all investigative fields that may reveal new pathways in the pathogenesis of asthma. Studies may involve laboratory or clinical investigation, including genetic and epidemiological studies. Studies of humans are encouraged.

Prize/Award

Generally, awards may range up to \$450,000 each. For 2013, AAF Scholar Awards will provide \$150,000 per year for two years, with the possibility, based on progress and potential, of an additional \$150,000 for a third year.

Eligibility

Investigators from nonprofit research organizations in the United States may apply. As of 2013, all AAF awards will be to investigators in the first 10 years of their faculty appointment (i.e., to those whose initial independent faculty appointment at the level of assistant professor or equivalent was not before February 1, 2003). Outstanding investigators from all fields undertaking innovative research with potential impact on asthma are eligible. There is no citizenship requirement. Applicants should have an independent research program, with national-level, independent funding.

Application

Application instructions are available at www.americanasthmafoundation.org/application. Applications must be uploaded via the submission site (www.americanasthmafoundation.org/upload-files) no later than 5:00 P.M. PST on February 6. Applications are not accepted by email, fax, or in hard copy by mail.

Details

www.americanasthmafoundation.org/

Contact

Program Manager Valerie Dougherty: vdougherty@americanasthma.org; Research Director William E. Seaman, M.D.: bseaman@americanasthma.org; phone: (415) 514-0730

Young Investigator Grant for Probiotics Research (YIGPRO)—February 12

The Global Probiotics Council invites applications for the sixth annual YIGPRO program. The program supports new research on probiotics and gastrointestinal microbiota in the United States. Established in 2004 by Danone Research and Yakult Honsha Co. to promote and advance the field of probiotics in the world, the council has increased the number of grants for 2013 from two to three.

Prize/Award

Three annual grants of \$50,000 each are awarded.

Eligibility

Young investigators who are senior fellows with a committed faculty appointment or early faculty members within a maximum of five consecutive years of first faculty appointment (appointments must be in the United States) are eligible. Applicants must be interested in and committed to basic research on understanding the health benefits of probiotics and microbiota and the relationship among probiotics, gastrointestinal microbiota, and the body. Candidates must be part of an established research program with the capacity to do research on microbiota and its role in health and disease.

Application

Applications must be submitted by February 12, 2013; items may be sent by email to gpc@probioticsresearch.com or directed by mail to YIGPRO, c/o PMK Associates, Inc., 403 North Henry Street, Alexandria, VA 22314. Complete information on applying is available at www.probioticsresearch.com.

Details

www.probioticsresearch.com/grantprogram.asp

Contact

gpc@probioticsresearch.com

FASEB Excellence in Science Award—March 1

FASEB invites nominations for its 2014 Excellence in Science Award, honoring the significant accomplishments of women in biological science. The award recognizes women scientists whose career achievements contribute significantly to advancing understanding of a particular discipline through excellence in research. Nominees are typically women who are senior in their field and nationally known for their outstanding contributions in research, leadership, and mentorship. Past nominees include an international field of women scientists who have compiled research achievements of lasting impact and contributed substantially to the training of the next generation of scientists.

Prize/Award

The award confers an unrestricted research grant of \$10,000.

Eligibility

Women who are members of one or more FASEB societies are eligible for nomination; nominators, likewise, must be members of a FASEB society. Self-nominations are not accepted.

Nomination

Nominations must be submitted by March 1, 2013, via the FASEB Excellence in Science Award nomination website at www.faseb.org/What-We-Do/Awards/Excellence-in-Science-Award.aspx. Complete nomination procedures are outlined at www.faseb.org/What-We-Do/Awards/Excellence-in-Science-Award/Nomination-Procedures.aspx.

Details

www.faseb.org/What-We-Do/Awards/Excellence-in-Science-Award.aspx

Contact

Linda Stricker: lstricker@faseb.org;
phone: (301) 634-7092

Meetings and Events Calendar

Mark Your Calendar for These Important Dates!

2013

January 20–25, 2013

The 2nd Network of Immunology Frontiers (NIF) Winter School on Advanced Immunology

Singapore Country Club
Singapore
<http://ifrec-sign-winterschool.org>

January 22, 2013

T Cells at the Interface of Immune-CNS Cross-Talk

New York Academy of Sciences
New York, New York
www.nyas.org/Events

January 26–29, 2013

52nd Midwinter Conference of Immunologists

Asilomar Conference Grounds
Pacific Grove (near Monterey), California
www.midwconimmunol.org

February 6, 2013

2013 Tumor Immunology Lab Symposium

Radboud University Nijmegen Medical Centre
Nijmegen, The Netherlands
www.ncmls.eu/new-frontiers/til-symposium-2013

February 13–17, 2013

2013 Blood and Marrow Transplantation (BMT) Tandem Meeting

Salt Palace Convention Center
Salt Lake City, Utah
www.cibmtr.org/Meetings/Tandem/index.html

March 11–12, 2013

10th International Conference on New Trends in Immunosuppression and Immunotherapy (IMMUNO 2013)

Hotel Fira Palace
Barcelona, Spain
www.kenes.com/immuno

April 5–8, 2013

Canadian Society for Immunology 26th Annual Spring Meeting

TELUS Whistler Conference Centre
Whistler, British Columbia, Canada
www.csi-sci.ca

April 17–20, 2013

International Society for Extracellular Vesicles (ISEV) 2013

Park Plaza Hotel
Boston, Massachusetts
www.isevmeeting.org

April 20–24, 2013

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

Boston Convention & Exposition Center
Boston, Massachusetts
Contact: eb@faseb.org

April 28–May 1, 2013

T Cell Function and Modulation Conference

Makena Beach and Golf Resort
Maui, Hawaii
www.agonox.com/mauiconference2013.html

May 3–7, 2013

IMMUNOLOGY 2013™ AAI Annual Meeting and Centennial Celebration

Hawaii Convention Center
Honolulu, Hawaii
www.IMMUNOLOGY2013.org

July 3–5, 2013

AIDS-Related Mycoses Meeting

Institute of Infectious Disease and Molecular Medicine
University of Cape Town
Cape Town, South Africa
www.aids-and-mycoses-2013.co.za

July 7–10, 2013

14th International TNF Conference

Loews Le Concorde
Quebec City, Quebec, Canada
www.tnf2013.com

July 13–18, 2013

AAI Introductory Course in Immunology

University of Pennsylvania
Philadelphia, Pennsylvania
<http://aai.org/Education/Courses/Intro/index.html>

July 20–24, 2013

The American Society for Virology 32nd Annual Scientific Meeting

Pennsylvania State University
State College, Pennsylvania
www.asv.org

July 21–26, 2013

T Follicular Helper Cells: Basic Discoveries and Clinical Applications

The Chinese University of Hong Kong
Hong Kong, China
www.grc.org/programs.aspx?year=2013&program=tfollic

July 28–August 2, 2013

AAI Advanced Course in Immunology

Seaport World Trade Center
Boston, Massachusetts
<http://aai.org/Education/Courses/Advanced/index.html>

August 22–27, 2013

15th International Congress of Immunology

MiCo—Milano Congressi
Milan, Italy
www.ici2013.org

September 29–October 3, 2013

Cytokines 2013, 11th Joint Meeting of International Cytokine Society (ICS) and International Society for Interferon and Cytokine Research (ISICR)

Hyatt Regency San Francisco
San Francisco, California
www.cytokines2013.com

October 3–6, 2013

SACNAS 2013

Henry B. Gonzalez Convention Center
San Antonio, Texas
<http://sacnas.org/events/national-conf>

October 4–8, 2013

American Society for Bone and Mineral Research (ASBMR) 35th Annual Meeting

Baltimore Convention Center
Baltimore, Maryland
www.asbmr.org

October 10–13, 2013

13th International Workshop on Langerhans Cells

Royal Tropical Institute
Amsterdam, The Netherlands
www.lc2013.nl

November 13–16, 2013

ABRCMS 2013

Nashville, Tennessee
www.abrcms.org/page_conference2013.html

2014

February 26–March 2, 2014

2014 BMT Tandem Meeting

Gaylord Texan Hotel & Convention Center
Grapevine, Texas
www.cibmtr.org/Meetings/Tandem/index.html

April 26–30, 2014

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

San Diego Convention Center
San Diego, California
Contact: eb@faseb.org

May 2–6, 2014

**IMMUNOLOGY 2014™
AAI Annual Meeting**

The David L. Lawrence Convention Center
Pittsburgh, Pennsylvania
http://aai.org/Meetings/Future_Meeting.html

May 17–21, 2014

CYTO 2014 (International Society for Advancement of Cytometry)

Ft. Lauderdale, Florida
Contact: rjaseb@faseb.org

June 21–25, 2014

**The American Society for Virology
33rd Annual Scientific Meeting**

Colorado State University
Fort Collins, Colorado
www.asv.org

September 12–16, 2014

ASBMR 36th Annual Meeting

Houston, Texas
www.asbmr.org

2015

February 11–15, 2015

2015 BMT Tandem Meeting

San Diego, California
www.cibmtr.org/Meetings/Tandem/index.html

March 28–April 1, 2015

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

Boston, Massachusetts
Contact: eb@faseb.org

May 8–12, 2015

**IMMUNOLOGY 2015™
AAI Annual Meeting**

Ernest N. Morial Convention Center
New Orleans, Louisiana
http://aai.org/Meetings/Future_Meeting.html

July 11–15, 2015

**The American Society for Virology
34th Annual Scientific Meeting**

The University of Western Ontario
London, Ontario, Canada
www.asv.org

October 9–13, 2015

ASBMR 37th Annual Meeting

Seattle, Washington
www.asbmr.org

2016

February 18–22, 2016

2016 BMT Tandem Meeting

Honolulu, Hawaii
www.cibmtr.org/Meetings/Tandem/index.html

Future AAI Annual Meetings

Mark Your Calendar for the Premier Annual Immunology Event!

2013



Hawaii Tourism Authority (HTA)/Tor Johnson

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

2014



IMMUNOLOGY 2014™
May 2–6
Pittsburgh, Pennsylvania

2015



IMMUNOLOGY 2015™
May 8–12
New Orleans, Louisiana



AAI Courses in Immunology

2013 Introductory Course in Immunology July 13–18, 2013

University of Pennsylvania, Philadelphia, Pennsylvania

Director: Michael P. Cancro, Ph.D.

University of Pennsylvania School of Medicine

Co-Director: Christopher A. Hunter, Ph.D.

University of Pennsylvania School of Veterinary Medicine

This intensive two-part course, taught by world-renowned immunologists, provides a comprehensive overview of the basics of immunology. This course is for students new to the discipline or those seeking more information to complement general biology or science training. Part I (July 13–15) is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. Part II (July 16–18) is a clinically oriented lecture series. Parts I and II may be taken independently at the discretion of the student.

2013 Advanced Course in Immunology July 28–August 2, 2013

Seaport World Trade Center, Boston, Massachusetts

Director: Leslie J. Berg, Ph.D.

University of Massachusetts Medical School

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

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

Please direct inquiries to meetings@aai.org or 301-634-7178.

Financial support for underrepresented minority scientists is available through the FASEB MARC Program.

Visit: <http://marc.faseb.org>.

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Celebrating *100 Years*



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AAI Annual Meeting
May 3–7, 2013 | Honolulu, Hawaii
www.IMMUNOLOGY2013.org



IMMUNOLOGY 2013™

Annual Meeting of The American Association of Immunologists

May 3 - 7, 2013 | Hawaii Convention Center | Honolulu, Hawaii

You might be surprised to learn...

Hotels—Rates are the lowest in three years.

Attendees can enjoy room rates as low as \$135 per night—\$95 per night less than in 2012!

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

Registration—No increases from 2012

AAI prides itself on keeping registration prices low! Members can attend for as little as \$280!

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

Funding—There's help!

AAI supports travel to the annual meeting for over 20% of attendees through grants and travel awards.

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

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



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100 Years