



AAI

The American
Association of
Immunologists

NEWSLETTER

DECEMBER 2014

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**'Tis the Season: Fall Submission
of AAI Abstracts, Travel Award
Applications NOW OPEN!**

Details on page 2 and back cover



IMMUNOLOGY 2015™



THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS
MAY 8–12, 2015 | AAI ANNUAL MEETING | NEW ORLEANS, LA

Call for 2015 Award Applications

Deadline: January 12, 2015

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

Lefrançois-BioLegend Memorial Award

Established to honor the memory of AAI member Dr. Leo Lefrançois, this award is intended to advance the career of a trainee who attends the AAI annual meeting and presents an outstanding abstract specifically in the area of mucosal immunology. 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 BioLegend and donations from friends and colleagues of Dr. Lefrançois.

AAI Trainee Poster Awards

These awards provide up to \$300 travel reimbursement to AAI trainee members (students and postdoctoral fellows) whose first-author abstracts submitted to the AAI annual meeting are selected for poster sessions only and found to be exceptional by the AAI Abstract Programming Chairs. Selection is based on the originality and significance of the research being presented.

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. 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 will be recognized and presented with a certificate at an awards presentation program at the AAI annual meeting. Support of up to \$1,500 will be provided for meeting registration and travel.

This award is supported through an endowment from Henry J. Showell and Pfizer, Inc.

AAI-Thermo Fisher Trainee Achievement Awards

These awards recognize up to six promising trainees in the field of immunology. Selection is based on career promise and presentation of an outstanding first-author abstract selected for oral presentation in a block symposium. Awardees will receive a \$1,000 cash prize and reimbursement for meeting expenses. *This award is generously supported through a grant from Thermo Fisher Scientific.*

AAI Early Career Faculty Travel Grants

These grants assist young investigators (assistant professor or equivalent) in attending the AAI annual meeting. Recipients will be reimbursed up to \$1,250 for registration and travel expenses.

Chambers-eBioscience Memorial Award

Established to honor the memory of AAI member Dr. Cynthia Chambers, this award is intended to advance the career of an early career 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, an Affymetrix Company.

Lustgarten-eBioscience Memorial Award

Established to honor the memory of AAI member Dr. Joseph Lustgarten, this award is intended to advance the career of a mid-career scientist who attends the AAI annual meeting and presents an outstanding abstract specifically in the area of immune regulation. The award recipient will receive up to \$1,250 travel reimbursement and a certificate during an awards presentation program at the AAI annual meeting. *This award is generously supported through a grant from eBioscience, an Affymetrix Company.*

AAI Underrepresented Scientist Travel Awards

These awards provide travel support to eligible AAI members to attend the AAI annual meeting. Two types of awards are available (trainee, junior faculty), providing support of up to \$1,850 for registration and meeting-related travel expenses. *This award is generously supported through the FASEB Minority Access to Research Careers (MARC) program and a grant from the National Institute of General Medical Sciences (NIGMS), NIH.*

AAI Trainee Abstract Awards

These awards provide up to \$500–750 travel reimbursement to AAI trainee members (students and postdoctoral fellows) whose first-author abstracts submitted to the AAI annual meeting are selected for presentation in block symposia.

AAI Undergraduate Faculty Travel Grants

These grants assist undergraduate faculty in attending the AAI annual meeting. Each grant will also support travel costs for an undergraduate student of the recipient's selection. A grant of up to \$1,250 is awarded to the undergraduate faculty member, and a grant of up to \$1,000 is awarded to the selected undergraduate student (registration for an undergraduate student is complimentary).

AAI Laboratory Travel Grants

Now open to both mid-career and senior investigators!

These grants assist mid-career and senior investigators in attending the AAI annual meeting. Applicants must hold an appointment of associate professor, full professor, or equivalent; have limited research funding; and be a first or last author on one or more abstracts submitted to the annual meeting. Each grant will provide two travel awards of up to \$1,250 each: one to the PI or laboratory director and another to a member of his or her lab, chosen by the PI or laboratory director. Recipients will be reimbursed for registration and travel expenses.

For complete AAI Travel Award and Grant application details, visit www.AAI.org/Awards.

The 2015 AAI Awards will be presented in conjunction with

IMMUNOLOGY 2015™

May 8–12, 2015 • New Orleans, Louisiana

**Questions? Contact AAI at 301-634-7178
or awards@aai.org**



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FOCUS ON PUBLIC AFFAIRS

Short-Term Funding Bill Enacted to Keep Government Open through December 11

NIH Issues Interim Policy for Funding Grants

Congress recently passed, and the president signed into law, a Continuing Resolution (CR) that funds most federal government departments, agencies, and programs through December 11, 2014, at approximately last year's funding levels. The CR was overwhelmingly approved by both the House (by a vote of 319–108) and the Senate (by a vote of 78–22) after Congress failed to finalize any of its 12 appropriations bills before the new fiscal year (FY) 2015 began on October 1, 2014. Enactment of the CR averted a government shutdown.

Although the CR does not include many spending or policy changes, there are some notable exceptions, including \$88 million in additional funding, requested by President Obama, to help address the Ebola epidemic in West Africa. To pay for its new spending, the CR includes an across-the-board cut of 0.0554 percent. If this cut remains in the final spending package for FY 2015, and the NIH budget otherwise remains flat, the NIH budget will be reduced by \$161.5 million.

Consistent with its prior policy, NIH has issued a notice indicating that it will pay “non-competing research grant awards at a level below that indicated on the most recent notice of award (generally up to 90 percent of the previously committed level)” (see <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-001.html>) through December 11.

The National Institute of Allergy and Infectious Diseases (NIAID) announced that its interim R01 payline for established investigators is the 10th percentile and that its interim R01 payline for new and early-stage investigators is the 14th percentile. These paylines will be reconsidered after a final FY 2015 NIH budget has been approved. At press time, no other relevant NIH institutes have announced interim R01 paylines for FY 2015.

Congress is in recess through the upcoming midterm elections and is scheduled to return on November 12, leaving approximately one month to complete the appropriations process. Congress will likely either pass an omnibus appropriations bill that could include all 12 spending bills and last through the remainder of FY 2015 or pass another CR to keep the government's doors open.

AAI Cosponsors Rally for Medical Research Capitol Hill Day

Event Draws More Than 300 Participants

On September 18, AAI joined a broad coalition of groups from the medical research community for the second annual Rally for Medical Research Capitol Hill Day (Rally Hill Day). Rally Hill Day included approximately 316 participants from 32 states,



Senator Cory Booker takes a “selfie” with his New Jersey constituents, including CPA member Lori Covey (pictured front, right)



CPA Member Beth Garvy with Senate Minority Leader Mitch McConnell

including three representatives from AAI. More than 300 organizations, including professional societies, patient advocacy organizations, and private industry, participated in the day-long event.

In addition to serving as a Rally Hill Day cosponsor, AAI supported the participation of two members of the AAI Committee on Public Affairs (CPA), Lori Covey, Ph.D., and Beth Garvy, Ph.D. Covey, who is a professor at Rutgers University, visited the offices of six members of the New Jersey congressional delegation. She also had an impromptu encounter with Senator Cory Booker (D-NJ), giving her the opportunity to both advocate for biomedical research and take a “selfie” with the senator (pictured on page 3). Garvy, professor and department chair at the University of Kentucky, visited with five members of the Kentucky congressional delegation, including Senate Minority Leader Mitch McConnell (R-KY) and House Appropriations Committee Chair Harold Rogers (R-KY, 5th). She was part of a group led by the third AAI participant, Director of Public Policy and Government Affairs Lauren Gross, J.D., that included actress and singer Laura Bell Bundy, a Kentucky native.

AAI Issues Statement, Writes to Congress Regarding Ebola

On September 12, AAI Committee on Public Affairs Chair Clifford V. Harding, M.D., Ph.D., issued a statement on the Ebola epidemic in West Africa, urging “Congress and the international community to act immediately to provide funding and other assistance needed to address the current Ebola epidemic and to invest in biomedical research that will help prevent, treat, and cure Ebola and other devastating infectious diseases.” In his statement, Harding also praises the “recent decision of the Obama Administration to utilize the U.S. military to provide logistical and operational assistance to stem the outbreak, and to seek from

Congress funding to provide additional personnel, supplies and equipment to the area.” The complete text of the statement appears below.

AAI sent the statement to Senators Tom Harkin (D-IA), Lamar Alexander (R-TN), and Jerry Moran (R-KS) in advance of a September 16 hearing that they co-chaired, entitled “Ebola in West Africa: a Global Challenge and Public Health Threat.” AAI also submitted this statement to Representatives Christopher Smith (R-NJ, 4th) and Karen Bass (D-CA, 37th), who co-chaired a similar hearing in the House, entitled “Global Efforts to Fight Ebola,” on September 17.

With recent reports from the World Health Organization indicating that, as of October 30, Ebola has killed nearly 5,000 people and sickened more than 13,700 others, Congress remains deeply concerned about both the epidemic and the U.S. response. On October 9, the House Armed Services Committee and Appropriations Subcommittee on Defense approved a reprogramming request that would allocate \$750 million for military support to fight Ebola. After approval by the same committees in the Senate, the funds were released for use.

Statement of Clifford Harding, M.D., Ph.D.

**Chair, Committee on Public Affairs, on behalf of
The American Association of Immunologists (AAI)**

September 12, 2014

The Ebola epidemic, which has already killed more than 2,400 people and sickened thousands more in five West African countries, threatens the lives, well-being, and economic and political stability of people throughout the region and around the world. This epidemic urgently requires a two-prong strategy.

In the long term, basic biomedical research, including research on the immune response, virology, disease pathology, and vaccine development, is necessary to develop efficacious and affordable therapies to prevent, treat, and potentially cure Ebola and other highly contagious, devastating infectious diseases. Because these diseases pose an immediate threat to international

Continued, next page

AAI Ebola Statement (continued)

public health, the U.S. government, and governments throughout the world, must increase substantially their investment in basic biomedical research, reduce burdensome regulations which delay advances, and facilitate domestic and international scientific collaboration. In particular, government sponsorship of biomedical research is necessary to minimize the threat of emerging pathogens and pathogens endemic to economically troubled regions, including Ebola, severe acute respiratory syndrome (SARS), Middle East respiratory syndrome (MERS), chikungunya virus, and neglected tropical diseases.

In the short term, the spread of Ebola can best be addressed by following the advice of knowledgeable and informed scientific and public health experts, including Dr. Anthony Fauci, Director of the National Institute of Allergy and Infectious Diseases (NIAID), and Dr. Thomas Frieden, Director of the Centers for Disease Control and Prevention (CDC). Recommended public measures for containing the spread of Ebola include the following: the isolation of infected individuals, the tracing of contacts of those who are infected, quarantine, and the use of proper precautions by the dedicated health care workers who are fighting this battle. Infected individuals need immediate, effective, and compassionate medical care. The entire world must support these efforts. Without these measures, the Ebola epidemic will not be contained, and will pose a true threat to all of humanity.

AAI applauds the recent decision of the Obama Administration to utilize the U.S. military to provide logistical and operational assistance to stem the outbreak, and to seek from Congress funding to provide additional personnel, supplies and equipment to the area. We urge Congress and the international community to act immediately to provide funding and other assistance needed to address the current Ebola epidemic and to invest in biomedical research that will help prevent, treat, and cure Ebola and other devastating infectious diseases.

President Obama Implements Measures to Combat Antibiotic Resistance

Among Measures, a \$20 Million Prize for Development of a Rapid Diagnostic Test

The White House recently announced that it has taken four major steps to combat the growing problem of antibiotic-resistant bacteria. According to the Centers for Disease Control and Prevention, each year, more than 2 million people in the United States become ill, and more than 23,000 people die from bacteria that are resistant to antibiotics.

On September 18, President Obama issued an Executive Order (EO), entitled "Combating Antibiotic-Resistant Bacteria." The EO establishes a federal "Task Force for Combating Antibiotic-Resistant Bacteria," which will be co-chaired by the Secretaries of Agriculture, Defense, and Health and Human Services and will include representatives from at least 14 departments, agencies, and programs across the government. The Task Force is charged with creating a five-year National Action Plan that "shall include goals, milestones, and metrics for measuring progress, as well as associated timelines for implementation."

The Task Force must also address the recommendations made in a September 2014 report issued by the President's Council of Advisors on Science and Technology (PCAST). The PCAST report includes eight recommendations, including expanding fundamental research to develop new antibiotics and limiting the use of antibiotics in animal agriculture.

The Obama administration also released a "National Strategy for Combating Antibiotic-Resistant Bacteria." This document outlines five primary goals that need to be addressed by 2020 (see <http://www.whitehouse.gov/the-press-office/2014/09/18/fact-sheet-obama-administration-takes-actions-combat-antibiotic-resistan>):

1. Slow the emergence and prevent the spread of resistant bacteria;
2. Strengthen national efforts to identify and report cases of antibiotic resistance;
3. Advance the development and use of rapid diagnostic tests for the identification and characterization of antibiotic-resistant bacteria;
4. Accelerate basic and applied research and development for new antibiotics as well as other therapeutics and vaccines; and

5. Improve international collaboration, capacities for antibiotic-resistance prevention, surveillance, control, and antibiotic research and development.

Finally, the White House launched a contest, with a \$20 million prize, “to facilitate the development of a rapid diagnostic test to be used by health care providers to identify highly resistant bacterial infections at the point of patient care” (see http://www.nih.gov/about/director/09182014_statement_brain-amr.htm).

U.S. Government Releases Final Policy on Institutional Oversight of Dual-Use Research

The U.S. Government recently released a new “Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern (DURC)” (Policy). DURC is defined as “life sciences research that, based on current understanding, can be reasonably anticipated to provide knowledge, information, products, or technologies that could be directly misapplied to pose a significant threat with broad potential consequences to public health and safety, agricultural crops and other plants, animals, the environment, materiel, or national security.” A draft version of the Policy was released in March 2013. The final Policy is effective immediately but will not be enforced until September 24, 2015.

Under the Policy, research must be evaluated for DURC potential if the research involves any of the 15 agents or toxins (see Figure 1) identified as having the potential to do the most harm and “produces, aims to produce, or can be reasonably anticipated to produce one or more of the effects listed in section 6.2.2” (see Figure 2 and <http://www.phe.gov/s3/dualuse/Documents/durc-policy.pdf>).

The Policy applies to all institutions that receive federal funding for life sciences research and that conduct research using any of the 15 agents or toxins listed in Figure 1. Institutions covered by the Policy must establish an Institutional Review Entity (IRE) to review and assess research using these agents and toxins. Principal investigators using these agents and toxins must work with their IRE to assess the risks and benefits of the research and to develop a risk-mitigation plan.

The Policy complements a March 2012 policy, “United States Government Policy for Oversight of Life Sciences Dual Use Research of Concern,” which describes the federal government’s role in identifying DURC.

Figure 1: Section 6.2.1. Agents and Toxins

- a. Avian influenza virus (highly pathogenic)
- b. Bacillus anthracis
- c. Botulinum neurotoxin
- d. Burkholderia mallei
- e. Burkholderia pseudomallei
- f. Ebola virus
- g. Foot-and-mouth disease virus
- h. Francisella tularensis
- i. Marburg virus
- j. Reconstructed 1918 Influenza virus
- k. Rinderpest virus
- l. Toxin-producing strains of Clostridium botulinum
- m. Variola major virus
- n. Variola minor virus
- o. Yersinia pestis

Figure 2: Section 6.2.2., Categories of Experiments

- a. Enhances the harmful consequences of the agent or toxin
- b. Disrupts immunity or the effectiveness of an immunization against the agent or toxin without clinical and/or agricultural justification
- c. Confers to the agent or toxin resistance to clinically and/or agriculturally useful prophylactic or therapeutic interventions against that agent or toxin or facilitates their ability to evade detection methodologies
- d. Increases the stability, transmissibility, or the ability to disseminate the agent or toxin
- e. Alters the host range or tropism of the agent or toxin
- f. Enhances the susceptibility of a host population to the agent or toxin
- g. Generates or reconstitutes an eradicated or extinct agent or toxin listed in 6.2.1.

NIH Makes FY 2014 Award Announcements for Several of Its Newest Programs

AAI Urges Funding for Immunology Research in BRAIN Initiative

NIH recently made a series of award announcements for several of its newest programs, including the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative and the Accelerating Medicines Partnership (AMP). NIH also announced 85 “High Risk-High Reward” awards issued through the NIH Common Fund.

Brain Research through Advancing Innovative Neurotechnologies (BRAIN)

NIH recently announced that it has provided \$46 million to more than 100 investigators to support the goals of the president’s BRAIN Initiative. This initial investment supported six awards for research in nine high-priority areas that were identified by the NIH Advisory Committee to the director’s BRAIN Working Group in September 2013. According to NIH Director Francis Collins, the primary goal of the initiative is “(to) produce the first dynamic view of the human brain in action, revealing how its roughly 86 million neurons and its trillions of connections interact in real time” (see <http://directorsblog.nih.gov/2014/09/30/brain-launching-america-next-moonshot/>).

NIH, the Defense Advanced Research Projects Agency, the Food and Drug Administration (FDA), and the National Science Foundation committed a total of approximately \$110 million to the initiative in fiscal year 2014. NIH hopes to contribute \$100 million to the program in its second year.

In anticipation of additional NIH awards under the BRAIN Initiative, AAI Committee on Public Affairs Chair Clifford V. Harding, M.D., Ph.D., wrote to Dr. Collins and several other BRAIN leaders to “[urge] inclusion of research on the impact of the immune system on the brain and nervous system.” Noting that “[t]he immune system is intimately related to brain and nervous system function in health and disease,” Harding described its “critical role in brain inflammation in neurological diseases such as Alzheimer’s and Parkinson’s; autoimmune disorders such as multiple sclerosis; viral, bacterial and parasitic infections of the brain; and traumatic brain injury and brain damage.” According

to Harding, “[t]he possibility of bringing immunologists and neuroscientists together to address major questions at the interface of immunology and neuro-degenerative diseases offers a key opportunity to both enhance the pace of basic and translational discoveries and to save and transform lives.” The full letter can be accessed at http://aai.org/Public_Affairs/Letters-Comments.html.

Accelerating Medicines Partnership (AMP)

The first round of AMP grants was recently awarded to 11 research groups focused on making significant research advances in the areas of rheumatoid arthritis (RA) and lupus. AAI is pleased to note that more than one-half of the AMP RA/Lupus Network research sites are being led by AAI members.

Last February, NIH announced the formation of AMP, a new partnership with 10 biopharmaceutical companies, the FDA, and 12 nonprofit organizations, that aims “to transform the current model for developing new diagnostics and treatments by jointly identifying and validating promising biological targets of disease” (see <http://www.nih.gov/science/amp/index.htm>). The collaboration is expected to last five years, with a total cost of approximately \$230 million. NIH will provide a little more than one-half of that funding.

High Risk-High Reward Program

The NIH Common Fund supports a High Risk-High Reward program that includes the Early Independence, New Innovator, Pioneer, and Transformative Research Awards. NIH recently announced support for 85 grants under this program, including 17 Early Independence Awards, 50 New Innovator Awards, 10 Pioneer Awards, and Eight Transformative Research Awards.



Abstract Submissions, Travel Award & Grant Application Submissions NOW OPEN!

Submission Deadline:
January 12, 2015

Visit www.IMMUNOLOGY2015.org

AAI Council Welcomes Jerry Boss



Jerry Boss

Jeremy M. Boss, Ph.D., AAI '94, became the newest member of the AAI Council following the AAI election earlier this year. His seven-year term, commencing on July 1, puts him in line to serve as a Council officer beginning in 2018, including as AAI president in 2019–2020. Boss served as an ex officio member of Council by virtue of his role as editor-in-chief (EIC) of

The Journal of Immunology (The JI) from 2008 to 2013.

Boss serves as a professor and chair of the Department of Microbiology and Immunology at Emory University School of Medicine (“Emory”) and the Emory Vaccine Center. He is a member of Emory’s Winship Cancer Institute and director of the university’s Graduate Program in Genetics and Molecular Biology. His research has focused on the molecular and epigenetic mechanisms that regulate gene expression in the immune system. After initially studying gene regulation in *Saccharomyces cerevisiae*, Boss moved on to the analysis of MHC Class II molecules in antigen presentation and how expression of the genes encoding MHC Class II molecules can be regulated. In addition to studies of MHC II, the laboratory investigates the regulation of the cell-inhibitory factor programmed death 1 during chronic infection and its relationship to T cell exhaustion and disease. More recent studies have begun to explore the role of global epigenetic mechanisms and outcomes on T and B cell differentiation and immune responses. In each of these studies, Boss’s group uses cellular immunology technologies, whole genome approaches, bioinformatics, animal model systems, and state-of-the-art molecular biology approaches to dissect the mechanisms that control adaptive immunity. The aim is the development of higher-order and dynamic models of gene regulation and cell-fate determination through which specific factors and pathways may be targeted for immune-based therapies for the treatment of infectious disease, autoimmunity, and cancer.

For his service as EIC of *The JI*, Boss was awarded the AAI Distinguished Service Award earlier this year. During his tenure, Boss oversaw the implementation of multiple enhancements for authors and readers, including:

- Adoption of electronic manuscript submission forms that were previously faxed

- Added interface enabling completion of forms simultaneous with background conversion of uploaded manuscript files
- Continued decrease in submission-to-initial-decision times for full-length and *Cutting Edge* manuscripts
- On author request, deposition into PubMed Central of accepted manuscripts when funded by four major funders
- Introduction of *The JI* Author Choice fee-based option, enabling the author to make his or her article freely available immediately upon publication in *The JI*
- Enhanced rendering of figure locants to maximize visual accessibility
- In each *Brief Review*, a professionally illustrated summary figure
- Option to download article PDFs with supplemental material appended
- Restructured Table of Contents to enhance readers’ ability to find papers in their specific area
- Display of citation metrics alongside each online article
- Implementing RSS feeds as an additional means by which subscribers may keep up with newly-published articles or selected article topics of interest
- Launch of *The JI Mobile* site to maximize readability of the online journal for those accessing it by handheld mobile device

Before his appointment as editor-in-chief, Boss served as a deputy editor, associate editor, and reviewer for *The JI*. He has served on multiple occasions as a major symposium speaker and presenter in scientific writing and mentoring workshops at the AAI annual meeting. Among his additional career appointments (past and present) are service on multiple National Institutes of Health (NIH) review panels, including the National Center for Research Resources Instrumentation Review Panel Study Section; Cellular and Molecular Immunology A Study Section; National Institute of Allergy and Infectious Diseases (multiple); National Cancer Institute; National Institute of General Medical Sciences; National Institute of Diabetes and Digestive and Kidney Diseases; and National Institute of Neurological Disorders and Stroke. He has also served on review panels for the University of Utah Graduate Program in Immunology; American Cancer Society; National Science Foundation; Natural Sciences and Engineering Research Council of Canada; Vienna Science and Technology Fund, Austria; and Associazione Italiana per la Ricerca sul Cancro, Italy.

Boss’s career appointments and honors also include the following: member, Henry Kunkel Society; council member, Association of Medical School Microbiology

and Immunology Chairs; member and chair, Spring Southeastern Immunology Symposium Organizing Committee; advisor/consultant, Minority Biomedical Research Support-Research Initiative for Scientific Enhancement Program, University of Puerto Rico Medical School; Outstanding Faculty Service Award, Emory Graduate Program in Genetics and Molecular Biology; director, Emory Graduate Program in Genetics; director of graduate studies, Emory Graduate Program in Genetics and Molecular Biology; NIH Postdoctoral Fellowship Award; Damon Runyon Cancer Fund Postdoctoral Fellowship; and Distinguished Doctoral Dissertation Award, State University of New York (SUNY), Albany.

Boss has served as an editorial board member or reviewer for journals including *EMBO Journal*; *Immunity*; *Immunogenetics*; *FASEB Journal*; *Journal of Biological Chemistry*; *Molecular and Cellular Biology*; *Nucleic Acids Research*; *Proceedings of the National Academy of Sciences USA*; *Genomics*; *Journal of Leukocyte Biology*; *Science*; *Cell*; *American Journal of Human Genetics*; *Journal of Cellular Biochemistry*; *Oncogene*; *Blood*; *European Journal of Immunology*; *PLoS Genetics*; *Nature Methods*; *Journal of*

Clinical Investigation; *PLoS Pathogens*; and *Epigenetics*.

Boss received his B.S., M.S., and Ph.D. degrees in biology from SUNY, Albany, where his doctoral research focused on yeast genetics and molecular biology (mentor: Richard Zitomer). He later served as a postdoctoral fellow in molecular biology and immunology at Harvard University in the laboratory of Jack Strominger. He joined the Emory faculty as an assistant professor in 1986; he was appointed associate professor in 1992 and full professor in 1997. His Emory appointments have included service as leader of the Winship Cancer Center Developmental Program in Gene Expression and Signal Transduction.

In addition to leading active research and training programs, Boss is the author of a popular book on careers in biomedical research and is a sought-after speaker for his informational and entertaining lectures on career issues. Boss's articles on publishing tips, career decisions, and time management are frequently featured in *Science's Next Wave*. When not in the lab or lecturing, Boss is a competitive tennis player, musician, and skilled woodworker.

2014 AAI Council Candidate's Statement: Jeremy M. Boss

Today, the scientific tools, technologies, and on-line resources that could lead to great discoveries and novel therapies have never been better. Immunology is no longer a single discipline, but is integrated into nearly every area of medicine. Despite the amazing prospects, we are faced with horrendous funding pay lines, budget shortfalls, burdensome regulatory restrictions, and increased pressures from our institutions to demonstrate our value. These restrictions not only dampen our enthusiasm but may ultimately derail our ability to discover, innovate, create new knowledge, and train tomorrow's scientists.

How do we change this? We must do a better job of marketing our discoveries, our innovations, our science! We must also do a better job of educating political decision makers, patient organizations, and others who advocate for biomedical research. Importantly, we must increase awareness of the importance of research to the general public. It is for these reasons that I have accepted the nomination to run for Council. The AAI has the ability to speak on behalf of its members—you. If elected, I would help strengthen that voice by supporting outreach programs to educate members of Congress and advocate for a sustainable funding stream for research funds. I would work to increase our interactions and opportunities with disease-based interest/support groups as a means of enlarging our voice. We can do more.

I am passionate about career development and mentoring. Several years ago, I coauthored a guidebook and a dozen articles for *Science's Next Wave* on succeeding in academics. Although we have come a long way, with many career development programs now in place including those run by the AAI, we must do more. We need to increase education on non-academic careers and the opportunities and training associated with being successful in these paths. As a member of Council, I would create and support novel ideas, programs, and concepts to help develop the careers of our students, fellows, and junior faculty. It is simply essential that we do this and do it well.

Like most of you, I served the AAI for most of my career as a reviewer for *The Journal of Immunology (The JI)*. For over 10 years, I also had the unique privileges of serving as a deputy editor and then as editor-in-chief (EIC) of *The JI*. As EIC, I held the overriding principles that the journal needed to serve the community; provide fair reviews and editorial decisions; and publish cutting-edge papers that moved and sustained our field. This experience taught me a lot about leadership and service. If elected, I will bring this vision of serving our community to my position and will seek to improve the way immunology is practiced, funded, and viewed. We can do more!

MEET 2014–2015 AAI COMMITTEES AND CHAIRS

Awards Committee



Cheong-Hee Chang, Ph.D. (15), Chair
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University of Michigan Medical School

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Members in the News



Lisa Butterfield

Lisa Butterfield Elected SITC Officer

Lisa H. Butterfield, Ph.D., AAI '93, was elected earlier this year as vice president of the Society for Immunotherapy of Cancer (SITC). At the completion of her two-year term, she will ascend to the office of SITC president, becoming the first female president

in the society's 30-year history.

Butterfield is a professor of medicine, surgery, and immunology at the University of Pittsburgh ("Pitt") and director of the University of Pittsburgh Cancer Institute (UPCI) Immunologic Monitoring and Cellular Products Laboratory. Her research focuses on the cross-talk between tumor antigens and the immune system in melanoma and hepatocellular cancer (HCC) patients. In HCC, the lab has studied T cells specific for alpha fetoprotein (AFP), a self-antigen expressed in HCC, and has tested epitopes of AFP for their ability to activate HCC-specific T cells in patients, either through peptide immunization or as part of dendritic cell (DC)-based tumor vaccines. Through work on melanoma vaccines, Butterfield's group identified a correlation between broadening the immune response through determinant spreading and positive clinical outcome. Clinical testing using a virus encoding three melanoma antigens transduced into DCs aims to determine whether broader immunity is critical to clinical outcome, and whether systemic IFN-alpha can further promote determinant spreading and improved clinical response. More recently, Butterfield has begun investigating methods for bringing together the activation of innate effector cells, particularly NK cells, and tumor antigen-specific adaptive immunity including both killer and helper T cells to rationally design improved cancer vaccines.

Butterfield is an AAI abstract programming chair and has served on multiple occasions as a block symposium co-chair and Committee on the Status of Women Careers Roundtable discussion leader at the AAI annual meeting. She is also a past associate editor for *The Journal of Immunology*. In addition to her service on the SITC board and multiple SITC committees and taskforces, Butterfield has served on review panels for the Cancer Immunotherapy Consortium, National

Institute of Allergy and Infectious Diseases, National Institutes of Health (NIH); NIH Cancer Immunopathology and Immunotherapy Study Section; NIH Cancer Immunotherapy Trials Network; National Cancer Institute Immune Response Modifier Pathway Prioritization Working Group; International Society for Cellular Therapy; American Association for Cancer Research (AACR) Cancer Immunology Working Group; Dendritic Cell and Vaccine Science; and Eastern Cooperative Oncology Group/American College of Radiologic Imaging Network. She is a member of the American Association for the Advancement of Science, AACR, and Women in Cancer Research.

Butterfield's Pitt faculty honors include: Hillman Fellow for Innovative Cancer Research Award (multiple years), Faculty Honoree ("for dedication and talent in teaching, research, and public service"), International Society for Biological Therapy of Cancer Team Science Recognition Award, UPCI Junior Scholar Award in Basic Cancer Research, and Henry L. Hillman Foundation Award. Her additional career honors include: American Heart Association Scientist Development Award, Jonsson Cancer Center [University of California, Los Angeles (UCLA)], Postdoctoral Fellowship, California Graduate Fellowship, and C. Sheldon Roberts Scholarship. She has served as an organizer, co-chair, or presenter in connection with numerous scientific meetings and symposia throughout the United States and overseas, including in Cuba, Denmark, Germany, Italy, Japan, Qatar, and South Korea.

A biology graduate of Rensselaer Polytechnic Institute, Butterfield received her Ph.D. (biology/molecular biology) from the University of California, Los Angeles (UCLA) with Winston Salser as advisor. She completed postdoctoral fellowships in tumor immunology (advisors: Hungyi Shau; Sidney Golub) and cancer gene therapy (advisor: James Enomou) in UCLA's Department of Surgery, Division of Surgery Oncology. There, she held subsequent appointments as assistant research oncologist and adjunct assistant professor. In 2004, Butterfield joined Pitt and UPCI as a visiting assistant professor of medicine and surgery; she was appointed assistant professor the following year. In 2010, she was named an associate professor of medicine, surgery, and immunology and has been a full professor since 2013. During her tenure at Pitt, she has held additional appointments as member, Immunology Graduate Program; associate director, UPCI Immunologic Monitoring Laboratory; and director of operations, UPCI Immunologic Monitoring and Cellular Products Laboratory.



Lynn Corcoran

Lynn Corcoran, David Tarlinton, and Colleagues Are Eureka Prize Recipients

Lynn M. Corcoran, Ph.D., AAI '97, and David Tarlinton, Ph.D., AAI '11, together with their colleagues in Philip Hodgkin's research lab at Australia's Walter and Eliza

Hall Institute of Medical Research (WEHI), are recipients of the 2014 University of New South Wales Eureka Prize for Scientific Research.

The award recognizes the researchers' work unraveling the production of antibody-secreting cells (ASCs)—from their origination as B cells in the bone marrow to their development into generators of antibodies against infection and protectors against immune deficiency. The work reveals how ASCs “choose” which antibody to make and how they survive for long periods, processes whose elusive properties have been a barrier to designing efficient vaccines and immune-deficiency treatments.

Lynn Corcoran is a principal research fellow and laboratory head in WEHI's Molecular Immunology Division and a principal fellow and associate professor (honorary) of the Faculty of Medicine, Dentistry, and Health Sciences at the University of Melbourne. Her research centers on B lymphocyte differentiation and function with a particular focus on transcriptional regulation of these processes. Her group uses gene-targeting approaches to analyze the functions of specific genes *in vivo* and investigates the differentiation of antibody-secreting plasma cells, as well as how this differentiation goes awry to result in malignancy. The group is applying the insights into B cell biology gained through these studies to the design and assessment of new therapeutic approaches to B cell malignancies and autoimmunity. In addition, Corcoran is expanding the scope of her research to include the analysis of immune responses in marsupials, particularly the disease-threatened Tasmanian devil.

Corcoran has served on review panels for Australian organizations including the National Health and Medical Research Council (NHMRC), Australian Research Council, Cancer Council Australia, The Heart Foundation, National Association of Research Fellows, Victorian Government



David Tarlinton

Endowment for Science Knowledge and Innovation (Women in Science Working Group), BresaGen Limited, Premier's Award for Medical Research (selection committee), Lorne Genome and Cancer Conference, and University High School Gene Technology Access Centre. Outside Australia, she has served on review panels for the (U.S.) National Science Foundation, Human

Frontiers Science Program, Health Research Council of New Zealand, and Swiss Cancer League.

Corcoran's career honors include: The 100 Women of Influence Awards, The Australian Financial Review and Westpac Group; inductee, Victorian Honour Roll for Women; Life Sciences Research Foundation Fellowship; C. J. Martin Postdoctoral Fellowship, NHMRC; Burnet Prize, WEHI; National Research Fellowship, Commonwealth Department of Science and Technology; and University of Melbourne honors including Postgraduate Scholarship, Baldwin Spencer Prize for Zoology, and Dwight Prize for Genetics.

Corcoran received her undergraduate degree (with honors) and Ph.D. (medical biology) from the University of Melbourne. During her graduate studies, she served as a biochemistry department tutor at the University of Melbourne, a biochemistry research assistant at the University of Minnesota, and molecular biology scholar at WEHI. After completing her Ph.D., she joined WEHI's MacArthur Laboratory of Molecular Parasitology as a research officer, later serving as senior research officer, before joining the Whitehead Institute for Biomedical Research, Massachusetts Institute of Technology, as a postdoctoral fellow. She returned to Australia as a C. J. Martin Fellow in molecular biology at WEHI and, in 1992, was appointed a Cancer Research Institute Investigator and NHMRC senior research fellow in the Molecular Biology Unit at WEHI. She became an NHMRC senior research fellow in the Immunology Unit in 2008 and has served as NHMRC principal research fellow in the Molecular Immunology Division since 2010.

David Tarlinton is an NHMRC principal research fellow and professor in the Division of Immunology at WEHI. His research on B cell development, activation, and differentiation includes specific exploration of the role of long-lived ASCs and recirculating memory cells in

Members in the News *(continued)*

immunological memory. Having identified key proteins regulating lymphocyte differentiation and survival in response to antigen, the group studies their activity in vivo to illuminate their roles in immune-system regulation and maintenance of immunological memory. Tarlinton's lab is particularly interested in characterizing the initiation of plasma cell differentiation and the roles of the transcriptional repressor Blimp1 in the differentiation and function of plasma cells. The group also analyzes the factors that regulate B cell differentiation and survival within the germinal center and has identified IL-21 as a central mediator of germinal center B cell differentiation. Another focus of the lab's research is the mechanism of action of the Lyn tyrosine kinase in turning off B cell responses and its role in regulating the cell biology of the B cell response to antigen. In addition, Tarlinton and his colleagues examine how alterations in the manner in which B lymphocytes sense and respond to antigen are associated with the development of antibody-mediated autoimmune diseases. Analysis of B lymphocytes with such altered sensing provides insights into potential causes of disease and thus, potential therapeutic targets.

A past president of the Australasian Society for Immunology (ASI), Tarlinton serves as an associate editor for *The Journal of Immunology*. His additional journal editorial appointments (past and continuing) include service for *Immunology and Cell Biology*, *Frontiers in B Cell Biology*, *Faculty of 1000*, *Immunology Letters*, and *International Immunology*. He has served on review and advisory panels for NHMRC, Leukemia Foundation (Australia), Cancer Council of Victoria, Australian Research Council, Health Research Council of New Zealand, Victorian Comprehensive Cancer Center, Bio21 Cluster Scientific Advisory Council, Immunology Group of Victoria (president), Ludwig Institute of Cancer Research, and Australian Academy of Science National Committee for Immunology. Tarlinton has also served as an organizing committee member in connection with multiple annual meetings of ASI and of the Australian B Cell Dialogue.

Tarlinton's career honors include: Distinguished Innovator Award, Lupus Research Institute (USA); Kishimoto Lecture, Osaka University; Jacques Miller Senior Travel Award, ASI; CASS (Contributing to Australian Scholarship and Science) Travel Fellowship (declined); Honorary Fellow, Department of Microbiology and Immunology, University of Melbourne; NHMRC Post-doctoral Fellowship; Alexander von Humboldt Fellowship; and Stanford University Department of Genetics Post Graduate Student Scholarship.

An honors graduate of the University of Sydney, Tarlinton served as a scientific officer at N.S.W. Tissue Typing

Laboratories in Sydney before receiving his Ph.D. from Stanford University (mentor: Len Herzenberg). He completed postdoctoral fellowships at the Institute for Genetics, University of Cologne, Germany (mentor: Klaus Rajewsky) and at WEHI (Gustav Nossal). After later serving as a tutor in functional biochemistry at Ormond College in Melbourne and then as a research fellow at WEHI, Tarlinton was appointed NHMRC senior research fellow (2002) and then principal research fellow (2009) at WEHI. He joined the University of Melbourne's Faculty of Medicine, Dentistry and Health Sciences as an associate professor in 2010 and was named a full professor earlier this year.

In their 25th year and known as "the Oscars of Australian science," the Australian Museum Eureka Prizes are the country's most comprehensive national science awards, honoring excellence in 15 areas of endeavor, including research and innovation, leadership, science communication and journalism, and school science.



Gary Koretzky

Gary Koretzky Appointed to NIAMS Council

Gary A. Koretzky, M.D., Ph.D., AAI '92, was appointed earlier this year to the advisory council of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH). The council

comprises scientific and lay experts in the institute's mission areas who advise the institute on broad policy issues and make recommendations on research proposals.

Koretzky is dean of the Weill Cornell Graduate School of Medical Sciences and senior associate dean for research at Weill Cornell Medical College. Research in the Koretzky laboratory has explored the regulation of signal transduction events that lead to hematopoietic cell development and function, primarily focusing on T cells. His group has identified and characterized a number of key signaling molecules, including the adaptor proteins, Src homology 2 domain-containing leukocyte protein of 76 kDa (SLP-76) and adhesion and degranulation-promoting adapter protein (ADAP), which mediate

interactions between signaling components downstream of immunoreceptors and integrins. The Koretzky lab makes extensive use of genetically altered mice to extract new insights into how enzymes and adaptor proteins serve as regulators of multiple lineages in the hematopoietic system. The group's analysis of how adaptor molecules regulate and integrate second-messenger cascades is leading to a better understanding of how cells are activated to fight infections, as well as how signaling may go awry and cause disease.

Koretzky was an AAI President's Symposium speaker in 2009 and the recipient of the AAI-PharMingen Investigator Award in 2000. He has been a major symposium speaker and chair on multiple occasions at the AAI annual meeting, where he has also served as an abstract programming chair. He is a past member of the AAI Awards Committee, AAI Clinical Immunology Committee, and AAI Program Committee and has served as an associate and section editor for *The Journal of Immunology*. He has also served on multiple occasions as a faculty member for the AAI Introductory and Advanced Courses in Immunology.

A member of the Institute of Medicine (IOM) and a past president of the American Society for Clinical Investigation, Koretzky is a fellow of the American Academy of Arts and Sciences and of the American Association for the Advancement of Science and a fellow and councillor of the American Association of Physicians. He has served on multiple NIH study sections and institute review panels, including at the National Cancer Institute, National Institute for Allergy and Infectious Diseases, NIAMS, National Institute of Child Health and Human Development, National Institute of General Medical Sciences, and National Institute on Aging. He has also served as a reviewer for the VA Merit Review Board, Arthritis Foundation, Beirne Carter Center for Immunology Research, Holland Laboratory of the American Red Cross, Taubman Prize for Excellence in Translational Medical Science, IOM, Immune Tolerance Network, American College of Rheumatology (ACR) Research and Education Fund, Charles E. Culpeper Biomedical Pilot Initiative Grant, Charles E. Culpeper Scholars in Medical Science, Pfizer Postdoctoral Fellowship Program, The Arthritis Society (Canada), Medical Research Council of Canada, Canadian Arthritis Society, Medical Research Council (UK), Burroughs Wellcome Fund (UK), Alberta Science Heritage Foundation, Israel Science Foundation, and Italian Cancer Society.

His additional career honors and appointments include: Lee C. Howley Sr. Prize for Arthritis Research; Arthur K. Asbury Outstanding Faculty Mentor Award, University of

Pennsylvania ("Penn") School of Medicine; NIH Method to Extend Research in Time (MERIT) Award; Stanley N. Cohen Biomedical Research Award, Penn School of Medicine; Senior Fellow of the American Asthma Foundation; Henry Kunkel ACR Young Investigator Award; Established Investigator Award, American Heart Association; Carver Clinician Scientist Award, University of Iowa ("Iowa"); ACR Senior Rheumatology Scholar Award; and Henry Christian Award, American Federation for Clinical Research.

Koretzky is the editor in chief of *Immunological Reviews* and a consulting editor for the *Journal of Clinical Investigation (JCI)*. He has served as an ad hoc reviewer for over 30 journals and held editorial board appointments with *Nature Reviews Immunology*, *Signal Transduction*, *Arthritis Research*, *JCI*, *Tissue Antigens*, *International Journal of Molecular Medicine*, and *Journal of Experimental Medicine*.

A graduate of Cornell University, Koretzky received his M.D. and Ph.D. from Penn. He completed a residency in internal medicine and a fellowship in rheumatology at the University of California, San Francisco, where he also undertook additional postdoctoral research in microbiology and immunology. In 1991, he was appointed an assistant professor at the Iowa College of Medicine, where he went on to hold associate and then full professor appointments. His additional Iowa appointments included service as a member and then director of the Interdisciplinary Graduate Program in Immunology, director of the Medical Scientist Training Program, a program leader at the Iowa Cancer Center, and an executive committee member at the Iowa Center on Aging.

Koretzky returned to the Penn School of Medicine in 1999 as a professor of pathology and laboratory medicine and director of the Signal Transduction Program at the Abramson Family Cancer Research Institute, where he also served as executive committee chair. During his tenure at Penn, he held additional appointments as chief of the Division of Rheumatology in the Department of Medicine, associate director of the combined M.D.-Ph.D. program, executive committee member for the graduate programs in immunology and in cellular and molecular biology, and co-leader of the immunology program at Penn's Abramson Cancer Center.

At the time of his departure from Penn last year, Koretzky was the Francis C. Wood Professor of Medicine at the Penn School of Medicine, where he also served as vice chair for research and chief scientific officer in the Department of Medicine.

John L. Fahey, M.D., AAI '64

1924–2014

Prominent immunologist and longtime AAI member John L. Fahey, M.D., died on August 19, 2014, in Boulder, Colorado, at the age of 89. An emeritus professor at the University of California, Los Angeles (UCLA), and member of the UCLA AIDS Institute, Fahey was renowned for fundamental contributions to research in immunology, aging, cancer, and medicine, as well as for his devotion to mentoring other scientists.



John Fahey

Fahey served as a member of the AAI Awards Committee (including as chair), Clinical Immunology Committee, Education Committee, Nominating Committee, and Committee on Public Affairs. He also served on past AAI panels including the Ad Hoc Committee on Public Information and the Advisory Committee for the Manual of Clinical Immunology. The latter post was in conjunction with the joint AAI and American Society for Microbiology effort that culminated in the 1976 publication of the first comprehensive survey of techniques of value in clinical immunology.

AAI extends condolences to Dr. Fahey's family and many friends, colleagues, and scientific protégés. The following UCLA tribute is reprinted with the kind permission of author Enrique Rivero.

In Memoriam: Dr. John Fahey, Pioneer in Immunology and HIV Research

Enrique Rivero/UCLA Health Sciences

Dr. John L. Fahey, an emeritus professor in the departments of microbiology, immunology, and molecular genetics and of medicine and a key member of the UCLA AIDS Institute, passed away unexpectedly on August 19 while working on various projects in Boulder, Colorado. He was 89.

Fahey completed his undergraduate work at The Ohio State University in 1944, received his M.D. from Harvard Medical School in 1951, and was trained in internal medicine at Columbia Presbyterian Medical Center in New York. While working at the National Institutes of Health in the late 1950s and 1960s, Fahey discovered the human antibody Immunoglobulin D (IgD) and delineated and

characterized the important classes and subclasses of human and murine immunoglobulins.

He joined the faculty of the UCLA School of Medicine (now the David Geffen School of Medicine at UCLA) in 1971 as professor and chair of the Department of Microbiology and Immunology, with a joint appointment in the Department of Medicine. He served as chair for 10 years, fostering a community of clinical and laboratory scientists focusing on the role of the immune system in disease.

“John set the standard for making contributions that are far-reaching and impactful, through his research and

leadership at UCLA, and his leadership at the national and international levels,” said Jeff F. Miller, professor and chair of the UCLA Department of Microbiology, Immunology and Molecular Genetics. “He was a scholar, a gentleman, a dedicated mentor and wonderful colleague who will not be forgotten.”

Fahey's laboratory at UCLA was responsible for much of the initial work that characterized immune system changes seen in HIV-infected persons. His bibliography of more than 400 papers includes nearly 100 on HIV/AIDS topics alone, the first appearing in 1983, shortly after the first identification of the clinical syndrome at UCLA, and included publications in *The Lancet* and *New England Journal of Medicine*.

In addition to his many significant scientific and organizational contributions to HIV/AIDS research at UCLA, nationally and internationally, Fahey played formative roles in the establishment of the Multicenter AIDS Cohort Study, the UCLA AIDS Institute, UCLA's Jonsson Comprehensive Cancer Center, and the Cousins Center for Psychoneuroimmunology. He mentored more than 70 national and international postdoctoral scientists with M.D. or Ph.D. qualifications for careers in biomedical research.

Fahey helped found and was the first president of the international Clinical Immunology Society in 1986. Among countless important roles, Fahey was a designated Advisor for Immunology to the World Health Organization (WHO) from 1964 to 1994; a consultant to WHO and faculty participant in WHO Centers for Immunology Research and Education in Eastern Europe, Africa, and Southeast Asia from 1964 to 1974; a member of the Advisory Council of the

National Institute of Allergy and Infectious Diseases (NIAID) from 1979 to 1985; a member of the United States-Japan Cooperative Program on AIDS from 1991 to 1995; and head of the Clinical Immunology Section of the International Union of Immunological Societies from 1992 through 1998. Throughout his career and into the first decade of the 21st century, Fahey engaged in international education and training in immunology, including building research capacity for HIV/AIDS in developing countries, especially in India.

His career also included major and fundamental contributions to research in immunology, aging, cancer,

and medicine. More information is available at <http://www.johnfahey.md.com/>.

Fahey is survived by three children: Marguerite, James, and Catharine Fahey. His wife, Jane Bishop Fahey, passed away in 2005.

A memorial service was scheduled to be held at Corpus Christi Church, 880 Toyopa Drive, Pacific Palisades, California, on Saturday, October 25, at 3:00 p.m.

See also:

1. *The Washington Post* obituary: <http://www.legacy.com/obituaries/WashingtonPost/obituary.aspx?n=JOHN-L-FAHEY&pid=172381841>

GRIP

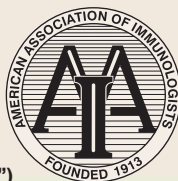
Grant Review for Immunologists Program

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

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

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

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



Program details at aai.org/Education/GRIP

Ray D. Owen, Ph.D., AAI '66

1915–2014

Pioneering immunologist and longtime AAI member Ray D. Owen, Ph.D., an emeritus California Institute of Technology (Caltech) professor of biology and recipient of the AAI Excellence in Mentoring Award in 1999, died on September 21 at the age of 98. Owen's 1945 discovery of immunological tolerance in twin cattle was a building block for the experimental induction of tolerance through immune suppression and for early tissue grafting, which initiated the era of organ transplantation.

AAI extends condolences to Dr. Owen's family and many friends and colleagues, including those who benefited from his generous and dedicated mentoring. The following remembrance from David Owen, son of Ray and the late June Owen, incorporates the recollections of AAI members Jeff Frelinger and Suzanne Ostrand-Rosenberg and past member Tommy Douglas, all former students of Dr. Owen. AAI gratefully acknowledges the submission.

Further below is the Caltech tribute to Ray Owen, reprinted with the kind permission of author Kathy Svitil and Caltech.

Hello Friends of Ray and June Owen --

As you may already have heard, my father, Ray D. Owen, longtime professor of biology at Caltech, passed away on September 21st. He was 98 years old. He died at the Californian Convalescent Hospital in Pasadena, where he had been a patient for the past three years. June Weissenberg Owen, his great wife and my wonderful mother, died in the same hospital in August of 2013. They had prearranged to be cremated and in the coming days their ashes will be spread together over the Pacific Ocean off the coast of Southern California.

The biology division at Caltech has graciously agreed to hold a memorial event for my parents; time and details to be determined. Inquiries may be directed to Cynthia Carlson, Assistant to the Chair in Biology at Caltech, who is keeping a list of those interested in attending.

Many of you have previously expressed how indebted you feel to Ray and June for all kinds of things that they did for you. From participating in many late afternoon conversations with my parents, where we'd talk about the day's events, I know this for sure: their lives were immeasurably enriched by their interactions with you, and



Ray Owen

they treasured their relationships with all of you. It was a two-way street.

I asked three former students of my father to write a little about what it was like in his lab. You probably know them: Jeff Frelinger, Suzanne Ostrand-Rosenberg, and Tommy Douglas. Below is what they came up with—I think it's great:

Ray was famous for mandatory 10 a.m. and 3 p.m. coffee times in his office in the basement of Kerckhoff. While this was seen from the outside as Unicorns and Rainbows, invariably, each morning and afternoon, without much formality, experiments were planned, the newest Nature articles were summarized, and the skills of lucid and concise presentation of ideas were honed. While Ray was always supportive, he was also critical. We were all expected to defend our ideas, approaches, and experiments. Alternatives were carefully considered, and the quality of the science was the highest. This process was quite remarkable because Ray managed to nudge us in the right direction without ever actually telling us what to do or how to do it. He not only brought out the best in us, but he also gave us the confidence to express ourselves, and he did it almost without our realizing what was happening. It was not only exciting to explore ideas with Ray. It was also fun. Without exception, Ray shared all his many visitors with the lab, whether they were leaders in the field or newly minted postdocs. As we sat around the table drinking coffee, we were expected to provide a 3-minute summary of our work, starting with the big question and getting to the details of the experiments—vital early training for the elevator pitch now so important.

We were delighted, but not surprised, when Ray received The American Association of Immunologists (AAI) award for outstanding mentoring in 1999. His demanding but nurturing and supportive mentoring style was obvious to those of us who trained with him. But because Ray's style was unassuming and subtle, it was not necessarily apparent to outsiders. Ray believed that his job as a mentor was to help everyone who came through his lab get to where they wanted to be. Not surprisingly, Ray's reputation was also known to many Caltech Biology Division graduate students not in his lab, and these students would also come for coffee and to talk. Many of the people Ray worked with became distinguished professors; others became practicing physicians, teachers, or industrial scientists. Ray was equally proud of all of them. He relished seeing them

progress through their careers, and enjoyed hearing about their personal lives. We, in turn, felt privileged to have had the opportunity to have been associated with such a creative and unique individual. Ray engendered the affection of all of us not only because he was a wonderful, thoughtful, and intelligent person, although he was all of that, but also because he created an environment that opened up for us a world of exploration and gave us the attitudes and tools to have rewarding and productive careers. We will miss Ray, but in many ways he's still with us, since we think of him regularly as we try to emulate his mentoring style and pass it on to the next generation.

Sadly, but with best wishes to all,

- David Owen

Remembering Ray D. Owen (1915–2014)

Immunology pioneer Ray D. Owen, emeritus professor of biology at Caltech, passed away on Sunday, September 21, at the Californian-Pasadena Convalescent Hospital in Pasadena, California. He was 98.

Owen's major scientific contribution was his discovery, in 1945, of immunological tolerance in twin cattle. Using blood typing, he recognized that one of a set of fraternal twin cattle had no immune response to the foreign antigens (substances that provoke an immune response) introduced from their twins. The finding paved the way for the experimental induction of tolerance through immune suppression and for early tissue grafting—which initiated the era of organ transplantation—by Frank Macfarlane Burnet and Peter Brian Medawar, who received the Nobel Prize for the work in 1960. “In fact, Owen was the first to postulate that immunosuppressive treatments such as x-irradiation might allow incompatible transplants, and participated in the experiments in which bone-marrow transplants to irradiated recipients were first successfully demonstrated,” says Elliot Meyerowitz, Caltech's George W. Beadle Professor of Biology.

Owen's later work included studies on human antibodies, blood-group antigens, the evolution of immune systems, and the genetic analysis of the major histocompatibility complex—a large family of genes that plays an important role in the immune system and autoimmunity—of the mouse. “He was, perhaps, the most outstanding immunologist of his generation,” wrote Leroy Hood (BS '60, Ph.D. '68), cofounder of the Institute for Systems Biology in Seattle, inventor of the automated DNA sequencer, and a former student—and later colleague—of Owen's at Caltech.

“Ray promoted and loved genetics, as much or even more so than immunology,” says Mitch Kronenberg (Ph.D. '83), president and chief scientific officer at the La Jolla Institute for Allergy and Immunology, Hood's former grad student and postdoc, and a self-described “trainee” of Owen's. “In a sense, he was a pioneer in perceiving the importance of genetic variability as a determinant of biologic complexity, long before the advent of next-generation DNA sequencing and the concept of personalized medicine.

“He was amazing in that he never lost his interest in the progress of research,” Kronenberg adds. “On occasion he would drop me a congratulatory note after reading a paper from my lab—what a thrill for me—even when he was well into his eighties. In an interview at age 95, he disputed the notion that everything important would soon be known, but instead strongly expressed his excitement about the frontiers of science.”

Owen was born October 30, 1915, on a dairy farm in Genesee, Wisconsin. In 1937, he received a B.S. from Carroll College in Waukesha, Wisconsin—where he met June, his wife of 74 years, from whom he was inseparable; in 1941, he received a Ph.D. in genetics from the University of Wisconsin. After working for two years as a postdoctoral researcher at the University of Wisconsin and as an assistant professor at the same institution, Owen took a position as an associate professor at Caltech in 1947; he was promoted to full professor in 1953 and became professor emeritus in 1983.

At Caltech, Owen also was noted for his dedicated teaching—he received an award for teaching excellence from the Associated Students of the California Institute of Technology (ASCIT); for his extraordinary commitment to mentoring young scientists; and for his administrative roles. He served as chairman of the Division of Biology from 1961 to 1968 and as vice president for student affairs and dean of students from 1975 to 1980.

He chaired the ad hoc Committee on the Freshman Year that recommended the pass/fail grading system for freshmen (designed to make the transition to Caltech less “traumatic,” Owen once noted), adopted in 1964, and the introduction of electives into the previously rigid freshman curriculum. Under Owen's leadership, the committee also spearheaded the effort to admit female undergraduate students to Caltech; in 1970, the first female undergraduates enrolled at the institute.

Many of his former students and colleagues recall that Owen did not just help open the doors to female

students, he actively assisted and nurtured them, both professionally and personally. As one of those first undergrads later described it, “However well women were mainstreamed into the biological sciences, women undergrads were definitely minorities at Caltech. We were beset by a constant stream of fellow undergrads, grad students, TAs, postdocs, and professors who appeared, called, wrote, popped into our dorm rooms, sent notes, flowers, and gifts, solicited dates, proposed marriage, pledged undying love and devotion, and everything in between! Then, we were trotted out to render the female perspective to faculty, alumni, parents’ groups, news media, potential students or donors, trustees, and other luminaries. We often suffered from too much attention. Ray’s calming presence was an antidote for those stresses. His maturity and his giving, caring attitude gave all of his students a restful haven in which to develop their science craft.”

Over more than six decades at Caltech, Owen was a beloved mentor not just to those first female students and subsequent generations of male and female undergrads but also to graduate students, postdocs, and young faculty.

“I believe that much of the wonderful scientific atmosphere I have the privilege of enjoying at Caltech is due in large part to the efforts of Ray Owen,” says Pamela Bjorkman, Caltech’s Max Delbrück Professor of Biology.

“Dr. Owen’s belief in the genderlessness and color-blindness of intelligence and creativity has encouraged men and women to excel in their chosen fields,” wrote Leonore Herzenberg, professor of genetics at the Stanford School of Medicine, in a letter recommending Owen for a lifetime mentoring award. “The success of this mentoring can be measured in terms of the contributions made by his students and many others who came in contact with him. In addition, it can be measured by the way in which those people for whom Dr. Owen served as a mentor have tended, like him, to tithe a portion of their time to help others achieve academic excellence.”

Noted Roger Perlmutter, executive vice president and president of Merck Research Laboratories and a senior research fellow at Caltech in the early 1980s: “Ray was then, and had been for many years, the very heart and soul of the Caltech biology division. His office in the basement of Kerckhoff, decorated with trophies courageously secured and lovingly forwarded by admiring former trainees, and masses of postcards from students and friends, served as an informal counseling suite. Ray’s door

was always open, tea and coffee were always available, and there was a steady stream of students who stopped by to discuss results, to seek advice, or simply to chat . . . Ray had time for everyone.”

“Ray was a true gentleman,” says Kronenberg. “Although he could be critical about a scientific approach or finding, his comments would be tinged with gentle humor or light sarcasm. He did not gossip, it was never a personal matter for him, and he never expressed disdain or a lack of respect for anyone. He seemed untouched by envy or enmity; these were emotions he just did not express.”

Owen, who coauthored *General Genetics*—the most widely used genetics textbook of its time—received the Thomas Hunt Morgan Medal from the Genetics Society of America, given for lifetime achievement in the field of genetics, in 1993. He was awarded the Mendel Medal of the Czechoslovak Academy of Sciences in 1966, earned honorary degrees from Carroll College and the University of the Pacific, and was a member of the National Academy of Sciences (NAS), the American Academy of Arts and Sciences, and the American Philosophical Society, among others.

In addition, Owen was president of the Genetics Society of America in 1962, a member of the Genetics Study Section of the National Institutes of Health (NIH) from 1958 to 1961 and its chairman from 1961 to 1963, a member of the Immunobiology Study Section of the NIH from 1966 to 1967 and its chairman from 1967 to 1970, chairman of the Genetics Section of the NAS from 1969 to 1972, and a scientist-member of the three-person President’s Cancer Panel from 1972 to 1975, where he served as an advisor to Presidents Nixon and Ford.

In his personal life, Owen professed a love of his family; his home, located a short walk from the Caltech campus, where he often conducted evening classes for students with his wife June serving cookies; his garden (camellias and chrysanthemums were his specialty); his travels and his friends in the international community of scientists; his research; his teaching; and his students.

“I think, as I look back at it,” said Owen, in a 1983 interview for the Caltech Oral History Project, “I’ve had a very fortunate and satisfying life. But when you get a letter from a student or get some word back about somebody who’s gone out into the world, and it appears that you have done something to influence a young person’s life or made

a difference in his life for the good—I think that's the most ego-rewarding aspect of one's life. And I've had a good many opportunities along those lines.”

Owen was predeceased by his wife, June, in 2013, who also passed away at the Californian-Pasadena Convalescent Hospital, and by a son, Griffith Hugh, who died in a car accident in 1970. He is survived by his son David.

A memorial service honoring both Ray and June is being planned by the Division of Biology and Biological Engineering. The details will be announced.

–Written by Kathy Svitil

See also:

1. *In Memoriam* published by Owen's Caltech Division of Biology and Biological Engineering colleagues: <http://www.bbe.caltech.edu/content/ray-d-owen>
2. *University of Wisconsin In Memoriam: Ray D. Owen Discovered Immune Tolerance, Paved the Way for Organ Transplantation*: <http://news.wisc.edu/23157>
3. *1983 Ray Owen interview for the Caltech Oral History Project*: http://oralhistories.library.caltech.edu/123/1/Owen_OHO.pdf

AAI Invites Additions to List of Women Speakers

The AAI Committee on the Status of Women (CSOW) has revamped the format of the *List of Potential Speakers and Chairs*. (See the November/December 2013 *AAI Newsletter*, page 39.) The committee also announced a new process for individuals to have their names added to the list. The changes are intended to broaden the range of areas of expertise of AAI members and to make the list more accessible and accurate as a resource for enhancing opportunities for women as speakers or chairs at professional meetings.

Listings were originally limited to women serving as heads of immunological research labs, but the CSOW Speaker List is now open to women AAI members fulfilling leadership roles in non-research careers as well.



In addition to representing a broader range of leadership roles occupied by women, the list will be more accessible and more easily maintained. Individuals listed will be able to maintain their own entries as each now links to the individual's Web page.

Viewers can determine how well the profile matches their need for a woman immunologist in a particular leadership role.

Women currently listed must supply their URLs to remain on the list. To be added to the list, contact Mary Bradshaw, AAI staff liaison for the CSOW (mbradshaw@aai.org).



First Careers in Immunology Fellowships Announced by AAI

AAI congratulates 37 members and their designated trainees, selected as the first awardees of its Careers in Immunology Fellowship Program. The program was initiated this past spring by AAI Councillors in recognition of the funding issues that many investigators are currently experiencing.

The fellowships provide qualifying independent research scientists (both U.S. citizens and members abroad) with one year of salary support for a predoctoral student or a postdoctoral fellow in their labs. At the time of application, principal investigators (PIs) must have no more than \$250,000 in total annual direct costs from grants and/or institutional research support, excluding the PI's salary. The program began accepting applications this past April, and the submission period ended July 15. Award funding commenced at the beginning of October.

AAI President Linda Sherman expressed her belief in the importance of the program, saying, "I am proud that AAI is able, through the Careers in Immunology Fellowship Program, to offer researchers a significant funding mechanism to help sustain their research programs during this difficult funding climate. The program has already benefited some of our members and has the potential to positively impact many others in the future."

Response has been enthusiastic on the part of Careers in Immunology Fellowship recipients. Stefania Gallucci (AAI '02) expressed her appreciation, saying, "We are very grateful to AAI for organizing these fellowships in such harsh [financial] times." Surojit Sarkar (AAI '11) lauded AAI, saying, "... its commitment to the careers of new PIs and trainees is truly exceptional."

Wenxian Fu (AAI '14) commented on the career development opportunities that the program afforded him and his trainee, stating, "It is a great pleasure to accept this prestigious fellowship award. It will tremendously support both my research program and the career development of my trainee, Dr. Xiaomei Yuan."

Julie Djeu (AAI '81) conveyed the importance of the fellowship to the continuation of her trainee's research, saying, "I am honored and delighted to receive the AAI Careers in Immunology Fellowship award ... It will allow Sarah Donatelli to spend another year in my laboratory to develop sufficient data to submit a grant application to NIH, [a milestone] which is critical for her career advancement and my research efforts."

Listed below are the 37 members and their designated trainees, selected as the first awardees of the AAI Careers in Immunology Fellowship Program.



Omid Akbari, PhD (AAI '07), Associate Professor
Hadi Maazi, DVM, PhD (AAI '14), Postdoctoral Fellow
University of Southern California
Project: The role of the dendritic cell repertoire in the regulation of lung inflammation
Photo: Hadi Maazi (l) with Omid Akbari (r)



Bryce Binstadt, MD, PhD (AAI '11), Assistant Professor
Nathan Schuldt, PhD (AAI '13), Postdoctoral Fellow
University of Minnesota
Project: Dual TCR T cells
Photo: Nathan Schuldt (l) with Bryce Binstadt (r)



Amal Amer, MD, PhD (AAI '09), Associate Professor
Mia Tazi (AAI '14), Graduate Student
Ohio State University
Project: Targeting microRNAs to modulate autophagy and inflammation
Photo: Amal Amer (l) with Mia Tazi (r)



Partha Biswas, PhD (AAI '13), Assistant Professor
Kritika Ramani (AAI '14), Graduate Student
University of Pittsburgh
Project: Mechanisms of IL-17-mediated kidney damage
Photo: Kritika Ramani (l) with Partha Biswas (r)



Daniel Campbell, PhD (AAI '08), Associate Member
Mark Singh, PhD (AAI '14), Postdoctoral Fellow
Benaroya Research Institute
Project: Control of T cell proliferation, differentiation, and effector function by the adaptor protein BCAP
Photo: Daniel Campbell (l) with Mark Singh (r)



Christian Capitini, MD (AAI '12), Assistant Professor
Myriam Bouchlaka, PhD (AAI '14), Postdoctoral Fellow
University of Wisconsin
Project: In vivo trafficking of cellular therapies for graft-versus-host disease and radiation protection
Photo: Myriam Bouchlaka (l) with Christian Capitini (r)



Gudrun Debes, DVM (AAI '09), Assistant Professor
Daniela Gómez Atria, PhD (AAI '14), Postdoctoral Fellow
University of Pennsylvania
Project: T cell egress from the skin via the afferent lymph modulates the course of local tissue inflammation
Photo: Daniela Gómez Atria (l) with Gudrun Debes (r)



Julie Djeu, PhD (AAI '07), Professor
Sarah Donatelli, PhD (AAI '14), Postdoctoral Fellow
H. Lee Moffitt Cancer Center
Project: Targeting microRNA-183 as a new modality for immunotherapy of cancer
Photo: Sarah Donatelli (l) with Julie Djeu (r)



David Farrar, PhD (AAI '02), Associate Professor
Didem Agac (AAI '14), Graduate Student
University of Texas Southwestern Medical Center
Project: Control of innate immunity through adrenergic receptor signaling
Photo: Didem Agac (l) with David Farrar (r)



Jeffrey Frelinger, PhD (AAI '76), Professor
Daniel Powell, PhD (AAI '14), Postdoctoral Fellow
University of Arizona
Project: Modulation of host responses by gram-negative pathogens
Photo: Daniel Powell (l) with Jeffrey Frelinger (r)



Jorg Fritz, PhD (AAI '12), Assistant Professor
Claudia Duerr, PhD (AAI '14), Postdoctoral Fellow
McGill University
Project: Regulation and function of innate lymphoid cells in the lung
Photo: Claudia Duerr (l) with Jorg Fritz (r)



Wenxian Fu, PhD (AAI '12), Assistant Professor
Xiaomei Yuan, PhD (AAI '14), Postdoctoral Fellow
University of California, San Diego
Project: The role of CRIg, a novel immunoregulatory molecule, in T cell autoimmunity of type 1 diabetes
Photo: Xiaomei Yuan (l) with Wenxian Fu (r)



Stefania Gallucci, MD (AAI '02), Associate Professor
Marita Chakhtoura (AAI '13), Graduate Student
Temple University
Project: Novel protocols to induce tolerance to solid organ transplants
Photo: Stefania Gallucci (l) with Marita Chakhtoura (r)



Gary Gilkeson, MD (AAI '94), Professor
Jennifer Scott (AAI '14), Graduate Student
Medical University of South Carolina
Project: Estrogen receptor alpha effects on plasmacytoid dendritic cell development, activation, and effector functions
Photo: Gary Gilkeson (l) with Jennifer Scott (r)



William Green, PhD (AAI '80), Professor
Megan O'Connor (AAI '12), Graduate Student
Dartmouth College
Project: Regulation of retrovirus-induced myeloid-derived suppressor cell subpopulations by natural regulatory T cells
Photo: Megan O'Connor (l) with William Green (r)



Thomas Griffith, PhD (AAI '95), Associate Professor
Britnie James, PhD (AAI '10), Postdoctoral Fellow
University of Minnesota
Project: Leptin-mediated suppression of immunotherapy for advanced renal cell carcinoma
Photo: Thomas Griffith (l) with Britnie James (r)



Marc Horwitz, PhD (AAI '11), Associate Professor
Ana Marquez Hernandez (AAI '14), Graduate Student
University of British Columbia
Project: Establishment of the relationship between Epstein-Barr virus latency and the onset of multiple sclerosis
Photo: Marc Horwitz (l) with Ana Marquez Hernandez (r)



Daniel Kaplan, MD, PhD (AAI '09), Associate Professor
Chen Yao (AAI '14), Graduate Student
University of Minnesota
Project: Langerhans cells and CD103⁺ dendritic cells in humoral responses
Photo: Daniel Kaplan (l) with Chen Yao (r)



Charlie Kim, PhD (AAI '11), Assistant Professor
Mary Fontana, PhD (AAI '14), Postdoctoral Fellow
University of California, San Francisco
Project: A novel myeloid cell type mediating tolerance to malaria
Photo: Charlie Kim (l) with Mary Fontana (r)



Mark Lang, PhD (AAI '00), Associate Professor
Pragya Rampuria (AAI '13), Graduate Student
University of Oklahoma Health Sciences Center
Project: Enhancement of *Clostridium difficile* toxin B-specific humoral immunity by NKT cells
Photo: Pragya Rampuria (l) with Mark Lang (r)



Gregoire Lauvau, PhD (AAI '12), Associate Professor
Laurent Chorro, PhD (AAI '14), Postdoctoral Fellow
Albert Einstein College of Medicine
Project: Impact of a novel mutation in the high affinity IL-2 receptor on T cell functions
Photo: Gregoire Lauvau (l) with Laurent Chorro (r)



Carolina Lopez, PhD (AAI '05), Assistant Professor
Jie Xu, PhD (AAI '14), Postdoctoral Fellow
University of Pennsylvania
Project: Molecular mechanisms behind the potent immunostimulatory activity of defective viral genomes
Photo: Carolina Lopez (l) with Jie Xu (r)



Nancie MacIver, MD, PhD (AAI '14), Assistant Professor
Valerie Gerriets, PhD (AAI '12), Postdoctoral Fellow
Duke University Medical Center
Project: Regulation of T cell differentiation and metabolism in malnutrition
Photo: Nancie MacIver (l) with Valerie Gerriets (r)



Robert Maile, PhD (AAI '03), Assistant Professor
Julia Dunn (AAI '14), Graduate Student
University of North Carolina, Chapel Hill
Project: Metabolic and immune consequences of acute lung injury
Photo: Robert Maile (l) with Julia Dunn (r)



Masoud Manjili, DVM, PhD (AAI '01), Associate Professor
Kyle Payne (AAI '14), Graduate Student
Virginia Commonwealth University
Project: Cancer immunotherapy: reprogramming tumor-immune cell crosstalk
Photo: Kyle Payne (l) with Masoud Manjili (r)



Aaron Neumann, PhD (AAI '14), Assistant Professor
Matthew Graus (AAI '13), Graduate Student
University of New Mexico Health Sciences Center
Project: Sequential pattern recognition receptor engagement and cell well reorganization for immune evasion by *Candida* yeasts
Photo: Aaron Neumann (l) with Matthew Graus (r)



Benjamin Ortiz, PhD (AAI '00), Associate Professor
Jordana Lovett (AAI '14), Graduate Student
Hunter College of C.U.N.Y.
Project: TCR-alpha gene locus control region-derived gene regulatory cassettes for stem cell engineering
Photo: Benjamin Ortiz (l) with Jordana Lovett (r)



Balazs Rada, PhD (AAI '13), Assistant Professor
Dae-goon Yoo (AAI '14), Graduate Student
University of Georgia
Project: The role of bacterial antioxidants in *Pseudomonas aeruginosa*-induced NET formation and detection of neutrophil extracellular trap markers in cystic fibrosis clinical samples
Photo: Dae-goon Yoo (l) with Balazs Rada (r)



Surojit Sarkar, PhD (AAI '10), Assistant Professor
Yevgeniy Yuzefpolskiy (AAI '14), Graduate Student
The Pennsylvania State University
Project: Mechanisms of T cell memory regulation by vitamin D
Photo: Yevgeniy Yuzefpolskiy (l) with Surojit Sarkar (r)



Karsten Sauer, PhD (AAI '01), Associate Professor
Stephanie Rigaud, PhD (AAI '14), Postdoctoral Fellow
Scripps Research Institute
Project: Positioning the thymocyte selection window to balance T cell tolerance and function
Photo: Stephanie Rigaud (l) with Karsten Sauer (r)



Marulasiddappa Suresh, DVM, PhD (AAI '98), Professor
David Gasper, DVM (AAI '14), Graduate Student
University of Wisconsin
Project: Non-replicating vaccine-induced protective CD8+ T cell memory in the respiratory tract
Photo: David Gasper (l) with Marulasiddappa Suresh (r)



Steven Templeton, PhD (AAI '13), Assistant Professor
Nansalmaa Amarsaikhan, PhD (AAI '14), Postdoctoral Fellow
Indiana University, Terre Haute
Project: Innate recognition and eosinophil activation in anti-fungal immunity
Photo: Steven Templeton (l) with Nansalmaa Amarsaikhan (r)



Steven Varga, PhD (AAI '95), Associate Professor
Allison Christiaansen (AAI '12), Graduate Student
University of Iowa
Project: Impact of MHC heterogeneity on CD8+ T cell exhaustion during chronic viral infection
Photo: Steven Varga (l) with Allison Christiaansen (r)



Tonya Webb, PhD (AAI '09), Assistant Professor
Irina Tiper (AAI '14), Graduate Student
University of Maryland
Project: Epigenetic regulation of CD1d-mediated antigen presentation in B cell lymphoma
Photo: Tonya Webb (l) with Irina Tiper (r)



Tomasz Zal, PhD (AAI '01), Associate Professor
Figen Beceren-Braun, PhD (AAI '14), Postdoctoral Fellow
University of Texas, MD Anderson Cancer Center
Project: Understanding regulatory T cell recruitment bias in pulmonary metastasis
Photo: Figen Beceren-Braun (l) with Tomasz Zal (r)



Nicholas Zavazava, MD, PhD (AAI '02), Professor
Gohar Manzar (AAI '13), Graduate Student
University of Iowa
Project: 3D differentiation of human induced pluripotent stem cells into insulin-producing cells using a bioactive extracellular matrix scaffold
Photo: Nicholas Zavazava (l) with Gohar Manzar (r)



Xiaoping Zhu, DVM, PhD (AAI '04), Professor
Senthilkumar Palaniyandi, PhD (AAI '11), Postdoctoral Fellow
University of Maryland
Project: Epithelial CD23 in airway allergic inflammation and immunotherapy
Photo: Senthilkumar Palaniyandi (l) with Xiaoping Zhu (r)

AAI Grants First Awards for Travel for Techniques Program

In August, AAI announced five members selected as the first recipients of its Travel for Techniques Program launched this spring. The program reimburses up to \$1,500 in travel expenses for a member principal investigator or designated lab member to travel to another laboratory to learn a technique or method that might benefit his or her current or future research goals. Proposals are considered on a rolling basis, with application deadlines in February, June, and October. The first five recipients met the June deadline for applications. October applications are currently under review.

Travel for Techniques Award Recipients Announced August 2014



Irving C. Allen, Ph.D. (AAI '12), Assistant Professor

Virginia Polytechnic Institute and State University

Allen traveled to Leaf Huang's laboratory at the University of North Carolina, Chapel Hill, to learn how to synthesize novel nanoparticle delivery systems with the objective of developing immune-targeted therapeutics that could ameliorate inflammatory bowel disease pathogenesis.



Shanjana Awasthi, Ph.D. (AAI '04), Associate Professor

University of Oklahoma Health Sciences Center

To become adept in measuring mouse arterial oxygen saturation and other vital parameters noninvasively, Awasthi will travel to the laboratory of Jay Kolls (AAI '03) at the Children's Hospital of Pittsburgh. Awasthi intends to apply this technique to her research studying lung function in LPS-induced lung injury and *Pseudomonas aeruginosa* lung infection mouse models.



Pooja Jain, Ph.D. (AAI '09), Associate Professor

Drexel University

By traveling to the laboratory of Jeremy Boss (AAI '94) at Emory University in Atlanta, Jain hopes to develop skills in conducting epigenetic analyses on the differentiation of dendritic cell lineages from bone marrow progenitor cells to identify key determinants of dendritic cell identity and commitment.



Lin Lin, M.D., Ph.D. (AAI '08), Assistant Professor

Los Angeles Biomedical Research Institute

Lin's purpose for visiting Thomas Saunders at the University of Michigan in Ann Arbor was to learn how to perform pronuclear microinjection of mouse embryos to generate transgenic mice. She plans to use this technique to engineer targeted humanized transgenic mice that produce human antibodies in vaccination models.



Hubert M. Tse, Ph.D. (AAI '11), Assistant Professor

University of Alabama at Birmingham

Tse traveled to Ron Mason's laboratory at the National Institute of Environmental Health Sciences in Research Triangle Park, North Carolina, to gain experience with immunological-spin trapping, a highly sensitive method for detecting free radicals in biological systems. He intends to use this technology to detect the in vivo generation of free radicals in type 1 diabetes and shed light on the synergy of oxidative stress with autoimmune responses in type 1 diabetes.

Detailed information regarding eligibility requirements and application instructions for the AAI Travel for Techniques Program can be found on the AAI website at www.aai.org/Careers/TfT.html.

The winter application cycle for the Travel for Techniques Program opens December 15, 2014, and closes February 15, 2015.

AAI Expands Travel Award Opportunities for IMMUNOLOGY 2015™

AAI will enhance its robust travel awards program for the 2015 AAI annual meeting with opportunities for investigators of all career stages. Adding to its support for early-career AAI members, AAI is extending eligibility for the AAI Laboratory Travel Grant to both mid-career and senior investigators (associate professor, full professor, or equivalents). The grant is awarded to the PI as one recipient, who may select a second recipient from his or her laboratory.

"AAI annually supports more than 600 travel awards and grants for the AAI annual meeting. We recognize that scientists of all career stages experience limitations in research funding and hope that the expanded eligibility criteria for the Laboratory Travel Grant will allow more

of our members to attend IMMUNOLOGY 2015™," said Mary Litzinger, AAI manager of educational and career development programs.

Senior scientists are recognized annually with AAI Career Awards. By expanding the eligibility for Laboratory Travel Grants, AAI enables a larger number of senior scientists to benefit from financial support for participating in the annual meeting. AAI travel awards have previously been reserved for trainees, early-career faculty, mid-career faculty, undergraduate faculty, and under-represented minority scientists. For complete information on the AAI Travel Awards, visit www.aai.org/Awards/Travel/index.html.

2014 AAI Introductory Course in Immunology

The 2014 AAI Introductory Course in Immunology drew 186 registrants from around the United States and 14 foreign countries at its new venue, the Long Beach Convention Center in Long Beach, California, July 12–17.

In addition to moving to a new venue, the 2014 course was under a new director, Juan Carlos Zuñiga-Pflücker, University of Toronto and Sunnybrook Research Institute. Zuñiga-Pflücker's first turn at the helm of the Introductory Course adds to his already extensive service for AAI, including terms on the Publications, Nominating, and Awards Committees, editorial positions for *The Journal of Immunology*, and speaking engagements at the AAI annual meeting.

Designed for students new to the discipline of immunology or those seeking more information to complement general biology or science training, the intensive, two-part AAI Introductory Course is taught by world-renowned immunologists, providing a comprehensive overview of the basics of immunology.

The lineup of scientists participating as 2014 course faculty, along with the topics they covered, appears at www.aai.org/Education/Courses/Intro/Schedule.html. In evaluations submitted anonymously, course participants overwhelmingly praised the lecturers for a job well done. One attendee said, "The course was well structured. I liked the order and layering approach, building on what was learned in the previous talks." Another commented, "This was a great review of immunology. All of the instructors and sessions were excellent."

Overseas attendees at this year's course included representatives of Brazil, Canada, Denmark, Ethiopia, Japan, Kenya, Latvia, Netherlands, New Zealand, Norway, South Korea, Spain, Switzerland, and United Kingdom. Among them were three International Union of Immunological Societies (IUIS) Scholars, recipients of support from AAI and the IUIS to attend the AAI course:

- Tamiru Berhanu Denka, D.V.M., University of Gondar, Ethiopia
- Elizabeth Akinyi Ochola, M.Sc., Kenya Medical Research Institute, Kenya
- Amandda Rakell Peixoto dos Santos, Universidade Federal de São Paulo, Brazil

Three attendees were there as Minority Access to Research Careers (MARC) Scholars, recipients of awards from the Federation of American Societies for Experimental Biology MARC Program in support of under-represented minority scientists:

- Gianna L. Hernandez, University of Wisconsin-Madison



Course Director Juan Carlos Zuñiga-Pflücker (2nd from right) and AAI Manager of Educational Programs Mary Litzinger (2nd from left) with IUIS Scholars (l-r) Tamiru Berhanu Denka, Amandda Rakell Peixoto dos Santos, Elizabeth Akinyi Ochola



Zuñiga-Pflücker (2nd from left) with MARC Scholars (l-r) Ayana Martin, Gianna L. Hernandez, Sharon A. Singh



Zuñiga-Pflücker (back center) with AAI High School Teachers Program participants (back row, l-r) Kindra M. Zuberbuehler, John Siefert, Lori Fretta, Amy Loewen; (front row, l-r) Edwina C. Kinchington, Beth Krauss

- Ayana Martin, Wake Forest Baptist Health
- Sharon A. Singh, M.D., Feinstein Institute for Medical Research

Participants in the AAI Undergraduate Faculty Program and AAI High School Teachers Program are offered the opportunity to attend this intensive introductory course and take part in a research experience with the goal of enhancing their ability to convey the excitement of immunology to their students. Two attendees were at the course as participants in the AAI Undergraduate Faculty Program:

- Tracie M. Gibson, Ph.D., University of Texas of the Permian Basin
- Anibal J. Valentin, Ph.D., University of Puerto Rico in Aguadilla

This year's Intro Course attendees also included six AAI High School Teachers Program participants:

- Lori Fretta, Otter Valley Union High School, Brandon, Vermont
- Edwina C. Kinchington, Ph.D., Pittsburgh Public Schools, Pittsburgh, Pennsylvania
- Beth Krauss, Manlius Pebble Hill School, DeWitt, New York
- Amy Loewen, Hinkley High School, Aurora, Colorado
- John Siefert, Conrad Weiser Area School District, Robesonia, Pennsylvania
- Kindra M. Zuberbuehler, Wake County Public School System, Apex, North Carolina

Until its move to Long Beach, the Introductory Course had been held for 12 years on the East Coast. Every year since its 2002 launch at Tufts University in Medford, Massachusetts, the course was held at the University of Pennsylvania Campus in Philadelphia, with course

participants hailing predominantly from the Eastern U.S. A primary impetus for the move west was to increase participation by attendees and faculty from the West Coast.

The 2015 AAI Introductory Course will be held July 14–19, again in Long Beach. Details will be published on the AAI website in February 2015 (www.aai.org/Education/Courses).



Zuñiga-Pflücker (center) with AAI Undergraduate Faculty Program participants (l-r) Anibal J. Valentin, Tracie M. Gibson



Attendees enjoying the networking reception



Lewis Lanier lecturing on innate immunity



Zuñiga-Pflücker giving the opening lecture

2014 AAI Advanced Course in Immunology

The 2014 AAI Advanced Course in Immunology drew a record 257 registrants from around the United States and 15 foreign countries in its third year at the Seaport World Trade Center in Boston, July 27–August 1, under the direction of Leslie J. Berg, University of Massachusetts Medical School.

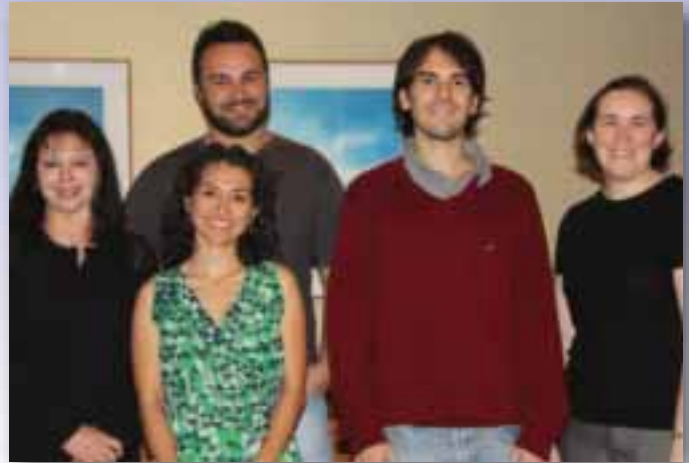
The AAI Advanced Course is an intensive course directed toward advanced trainees and scientists who wish to expand or update their understanding of the field. Leading experts present recent advances in the biology of the immune system and address its role in health and disease.

Students appreciated the outstanding roster of world-renowned immunologists comprising the 2014 faculty and the comprehensive coverage of the field (see www.AAI.org/Education/Courses/Advanced/Schedule.html). In an evaluation submitted anonymously at the end of the course, one attendee said, “The course was fantastic, and the instructors were excellent. I truly loved the course and would recommend to anyone wanting a fast track course in up-to-date immunology.”

International attendees traveled from Argentina, Austria, Brazil, Canada, China, Denmark, Germany, Mexico, Poland, South Korea, Sweden, Switzerland, Tanzania, United Kingdom, and Uruguay.

Among the 41 attendees from abroad were three International Union of Immunological Societies (IUIS) Scholars, recipients of support from AAI and the IUIS to attend the AAI course:

- Elena Cristina González Castillo, Ph.D., TECSalud, Tecnológico de Monterrey, Mexico
- Gustavo Mourglia-Ettlin, M.Sc., Universidad de la República, Uruguay
- Raúl Germán Spallanzani, Institute of Biology and Experimental Medicine, Argentina



AAI Executive Director Michele Hogan (left) and AAI Manager of Educational Programs Mary Litzinger (right) with IUIS Scholars (l-r) Elena Cristina González Castillo, Gustavo Mourglia-Ettlin, Raúl Germán Spallanzani



Hogan (left) and Litzinger (right) with MARC Scholars (l-r) Cristina Herrera, Stephania Libreros, Cecelia C. Yates



Litzinger (left) and Hogan (right) with AAI Undergraduate Faculty Program participant Kanya C. Long



Litzinger and MARC Scholar Javier Cabrera-Perez



Course Director Leslie Berg with attendees at the networking reception

Attending also were four Minority Access to Research Careers (MARC) Scholars, recipients of awards from the Federation of American Societies for Experimental Biology MARC Program in support of under-represented minority scientists:

- Javier Cabrera-Perez, University of Minnesota
- Cristina Herrera, Wadsworth Center and University at Albany
- Stephania Libreros, Florida Atlantic University
- Cecelia C. Yates, D.O., Ph.D., University of Pittsburgh

One participant in the AAI Undergraduate Faculty Program for the enrichment of undergraduate studies and research attended this year's Advanced Course:

- Kanya C. Long, Ph.D., Andrews University, Berrien Springs, Michigan

The 2015 AAI Advanced Course will be held August 2–7, again at the Boston Seaport World Trade Center. Details will be published on the AAI website in February 2015 (www.aai.org/Education/Courses).



Marc Jenkins presenting the opening lecture



Attendees enjoying the networking reception

AAI Looks Back

The Founding of AAI Summer Courses in Immunology

By John S. Emrich, Ph.D.

By the early 1960s, the pace of advances in the field of immunology presented great challenges for researchers to keep abreast of the breakthroughs in the field. Few universities or medical schools offered courses in immunology, and even at those institutions offering courses, other faculty generally found them inaccessible, given their own teaching schedules. Moving to address the challenge, the 1964–65 AAI Council resolved “to provide a brief intensive advanced course in Immunology for University Staff to encourage high standards of research and teaching in Immunology.” Two years in the planning, the first course succeeded in setting the standard for short-course immunology education, a standard that remains intact to this day.

The first AAI Summer Course in Immunology commenced on Monday, July 25, 1966, at Lake Forest College, a small liberal arts college 30 miles north of Chicago on the banks of Lake Michigan. Over the next 13 days, 57 attendees listened to lectures by 18 eminent immunologists covering 12 “basic immunology” topics.

The co-directors, Dan H. Campbell (AAI '38, president 1972–73) and Sheldon Dray (AAI '59, secretary-treasurer 1964–70), organized the course into the still-familiar format: selected topics taught by specialists in each field. The faculty for the first course included Frank J. Dixon (AAI '50, president 1971–72), Justine S. Garvey (AAI '56), Elvin A. Kabat (AAI '43, president 1965–66), David W. Talmage (AAI '54, president 1978–79), and Byron H. Waksman (AAI '50, president 1970–71). Most days featured a morning and afternoon session, each dedicated to a particular topic, although organizers scheduled a few

days with only one session to enable students to continue discussions with senior investigators “in an informal workshop type environment.” The following topics were covered at the first course:

Antibodies: nature, structure, synthesis; Antigen-antibody reactions; Antigens; Cellular aspects of immunologic responsiveness and unresponsiveness; Complement; Hypersensitivity; Immunogenetics; Immunological methods; Immunology of infections; Immunopathology and autoimmune phenomena; Transplantation Immunology; and Tumor immunology

Although founded primarily for university instructors and investigators with M.D.s and Ph.D.s who did not have access to immunological training, the AAI Summer Courses in Immunology have evolved over the subsequent 48 years to address the needs of the broader immunology enterprise. Attendees today hail from the United States and abroad and from industry as well as academia. Students new to the discipline or those seeking more information to complement general biology or science training attend the AAI Introductory Course in Immunology. The Advanced Course is directed toward advanced trainees and scientists who wish to expand or update their understanding of the field. Both courses offer intensive six-day instruction by world-renowned immunologists. In 2015, the Introductory Immunology Course will be located in Long Beach, California, and the Advanced Immunology Course will take place in Boston, Massachusetts.

To view the faculty and locations of recent AAI summer courses, visit www.aai.org/Education/Courses/Past_Courses/index.html.

AAI Outreach Program

The AAI Outreach Program continues to provide career enrichment opportunities for early career scientists at immunology meetings across the nation. The program, now in its fourth year, contributes to eligible member-coordinated meetings by offering awards for trainees and young principal investigators. This past summer, AAI sponsored oral and poster presentation awards at four AAI member-organized meetings: the Southeastern Immunology Symposium, the 8th International Workshop on Antigen Processing and Presentation, the Merinoff World Congress: B-1 Cell Development and Function meeting, and the International Graduate Student Immunology Conference.

Southeastern Immunology Symposium (SIS)

The SIS, held June 7–8 at Emory University in Atlanta, drew more than 320 registrants and featured 122 poster presenters. Organized, in part, by AAI Councillor Jeremy Boss (AAI '94), the program featured several AAI members among the invited speakers, including three who delivered keynote addresses: Philippa Marrack (AAI '74), Rafi Ahmed (AAI '84), and David Artis (AAI '06).

AAI sponsored three oral abstract awards and four poster awards at SIS. The three abstract awardees selected for oral presentations were Daniel Rios (Emory University), Colleen Winstead (University of Alabama), and Henrique Lemos (Georgia Regents University). The four poster presentation awardees were Ryan Martinez (Emory University), Christopher Tipton (Emory University), Nicolas Villarino (University of Tennessee), and Lindsay Nyhoff (Vanderbilt University).



With conference organizer Jerry Boss (far right), AAI Young Investigator Awardees from the SIS (l-r) Nicolas Villarino, Lindsay Nyhoff, Christopher Tipton, Ryan Martinez, Daniel Rios, Colleen Winstead, Henrique Lemos

8th International Workshop on Antigen Processing and Presentation (IWAPP)

Approximately 150 scientists traveled to the Academy of Natural Sciences of Drexel University in Philadelphia to attend IWAPP, held June 10–13. The meeting was organized by AAI members Laurence Eisenlohr (AAI '95), Lisa Denzin (AAI '95), and Paul Roche (AAI '92), among others. The opening-night program featured a keynote address by Nilabh Shastri (AAI '95), who spoke on “The origins and anatomy of the peptide repertoire displayed by MHC Class I molecules.”

AAI contributed five awards for international investigators attending the IWAPP who were chosen by a committee that judged the scientific merit of abstracts submitted to the meeting. The award recipients were Irini Evnouchidou (INSERM 103), Clemens Hermann (Cambridge University), Robbert Spaapen (Netherlands Cancer Institute), Matthias Zehner (University of Bonn), and Richard Birkinshaw (Monash University).



AAI Young Investigator Awardees with IWAPP conference organizers and a friendly *Tyrannosaurus rex*: (l-r) Laurence Eisenlohr, Paul Roche, Richard Birkinshaw, Clemens Hermann, Irini Evnouchidou, Matthias Zehner, Robbert Spaapen, Tim Elliot, Lisa Denzin

Merinoff World Congress (MWC): B-1 Cell Development and Function

The MWC was held June 16–19 at the Tarrytown Estate Hotel and Conference Center in Tarrytown, New York. Nichol Holodick (AAI '13) co-organized the congress, which drew 152 participants from countries around the globe, including Europe, South America, and the United Kingdom. To kick off the event, the meeting's scientific advisory committee chairs, including Thomas Rothstein (AAI '85) and Leonore Herzenberg (AAI '74), provided historical background on B-1 cells. Klaus Rajewsky (AAI '83) delivered the keynote address, which was dedicated to the memory of Leonard A. Herzenberg (AAI '68). The meeting also featured events that showcased young investigators, including oral abstract presentations and organized discussion sessions.

Five AAI Young Investigator Award recipients were chosen by the scientific advisory board from among those who submitted abstracts. The awardees were Momoko Yoshimoto (Indiana University School of Medicine), Gabriel Pedersen (Karolinska Institute), Xaver Sewald (Yale University), Hannah Savage (University of California, Davis), and Venkata Yeramilli (University of Alabama at Birmingham).



MWC AAI Young Investigator awardees proudly displaying their certificates: (l-r) Gabriel Pedersen, Momoko Yoshimoto, Hannah Savage, Venkata Yeramilli, Xaver Sewald



MWC attendees enjoying a little sunshine during a program break

International Graduate Student Immunology Conference (IGSIC)

The IGSIC, a conference exclusive to graduate students, was held September 11–13 at the University of Texas (UT) Southwestern Medical Center in Dallas. The conference, organized by UT Southwestern immunology graduate students, including Didem Agac (AAI '14) and Leonardo Estrada (AAI '14) drew 42 registrants. The program featured graduate student presentations that covered the breadth of immunology, from autoimmunity to cellular and molecular mechanisms of immunity. A keynote address was given by Felix Yarovinsky (AAI '08).

AAI sponsored five awards to individuals chosen by the IGSIC organizing committee. The AAI Young Investigator awardees were Chelsea Stamm (UT Southwestern), Daxing Gao (UT Southwestern), Preston Burnley (University of North Texas Health Science Center), Aliyah Weinstein (University of Pittsburgh), and Ashley Hoover (UT Southwestern).



With conference organizer Didem Agac (far right), IGSIC AAI Young Investigator awardees (l-r) Ashley Hoover, Aliyah Weinstein, Preston Burnley, Daxing Gao, Chelsea Stamm



IGSIC attendees pausing for a photo on the stairs at UT Southwestern



You have the power.

Your membership in the American Association of Immunologists helps advance the field—and your career.

Being a part of AAI enables you to take an active role in helping to shape the future of immunology and attain your professional goals. You'll stand with members representing immunological research concerns on Capitol Hill. Plus, you gain access to:

- The best and brightest minds today.
- The world's largest annual all-immunology meeting.
- *The Journal of Immunology*, the pre-eminent peer-reviewed journal in the field.
- Many occasions and opportunities to present your research.
- Awards/fellowships/grants to support talented scientists in every career stage.

To renew your AAI membership and its contributions to your professional life, call 301.634.7195 or visit www.aai.org today.



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AAI plays an indispensable role in the professional life of its members, supporting members' access to cutting-edge science through the AAI annual meeting (the world's leading annual all-immunology event); the popular AAI summer immunology courses (introductory and advanced); and, of course, publication of the premier journal in the field, *The Journal of Immunology*. Our robust—and growing—career and awards programs (<http://aai.org/Awards/index.html>) now devote almost \$2 million annually to supporting and honoring our members.

With abstract submissions and registrations now open for IMMUNOLOGY 2015™, be sure your AAI membership is current so you can take full advantage of the benefits available to members in good standing. Remember, your membership must be current through December 31, 2015, to submit your abstract as a member and to qualify for travel awards to the meeting. Also, note that the abstract travel award amounts vary with the number of consecutive years of membership (see related item, page 39).

You may renew online (or print the renewal form) by logging into the AAI Member Services website (https://aai.org/cvweb_aai/MainLogin.shtml) using your user ID (which is also your membership number) and password.

Once logged in, select Renew Membership for 2015 listed under Member Services.

Renew to benefit personally. Renew also to lend your support to the many AAI initiatives of vital importance to the future of basic immunology research. We have big issues to tackle:

- Preventing additional sequestration cuts to NIH funding and advocating for a strong, well-funded NIH;
- Protecting the R01 as the foundation of basic research support;
- Ensuring NIH scientific and policy priorities reflect our own; and
- educating our political leaders about the positive health and economic benefit of biomedical research to their communities and the nation.

These programs and others would not be possible without your membership dues and generous charitable contributions, as well as the time and energy of hundreds of dedicated AAI member-volunteers. Please do your part by renewing your membership now.

On behalf of the AAI Council and staff, we thank you for your continued support of AAI.

Future AAI Annual Meetings

Mark Your Calendar for the Premier Annual Immunology Event!

2015



IMMUNOLOGY 2015™
May 8–12
New Orleans, Louisiana

2016



IMMUNOLOGY 2016™
May 13–17
Seattle, Washington

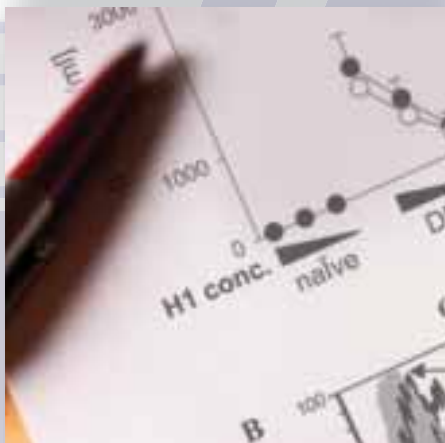
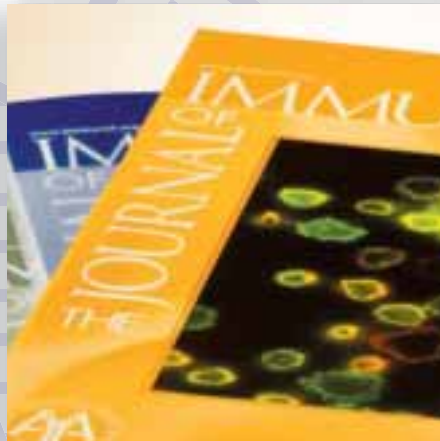
2017



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

Available online:
aai.org/About/Publications

Scientific Publishing



Dos and Don'ts **for Authors and Reviewers**

*Collected articles based upon presentations given
by the AAI Publications Committee
at annual meetings of
The American Association of Immunologists (AAI)*



GRANT AND AWARD DEADLINES

December 15

American Federation for Aging Research Grant for Junior Faculty; Julie Martin Mid-Career Award in Aging Research

- **Prize/Award:** *Junior Faculty Grant*—up to 10 grants of up to \$100,000 in one- to two-year funding for basic mechanisms of aging research designed to serve as the basis for longer-term study; *Julie Martin Mid-Career Award*—up to two awards of \$550,000 in four-year funding; both programs support exploration of a broad range of biomedical and clinical topics in aging-related research
- **Eligibility:** *Junior Faculty Grant*—investigators with independent research space who are committed to careers in aging research and not more than 10 years beyond the start of postdoctoral training as of 7/1/2015; *Julie Martin Mid-Career Award*—outstanding mid-career scientists proposing new directions in biological gerontology research with the potential for high payoff in advancing the understanding of basic aging
- **Details:** <http://www.afar.org/research/funding/afar-research-grants/>;
<http://www.afar.org/research/funding/midcareer/>
- **Contact:** Kim Fine: (518) 262-8043

December 15

Society for Development Biology (SDB) Awards (3)

- **Prize/Award:** In each of three award categories—*Edwin G. Conklin Medal*; *Developmental Biology/SDB Lifetime Achievement Award*; *Viktor Hamburger Outstanding Educator Prize*: An award of \$2,000 plus travel, housing, and registration to present the corresponding award lecture at the SDB annual meeting
- **Eligibility:** *Conklin Medal*—exceptional developmental biologists who are actively contributing to the field; *Lifetime Achievement Award*—outstanding senior developmental biologists who have contributed significantly to the field in research and/or education; *Viktor Hamburger Prize*—scientists nominated by SDB members for outstanding contributions to education in developmental biology or related disciplines through teaching, training, administration, curriculum development, or

dissemination of information to the profession, prospective developmental biologists, students in other fields, or the general public

- **Details:** <http://www.sdbonline.org/awards>
- **Contact:** sdb@sdbonline.org

January 12

2015 AAI Travel Awards and Grants (see also Call for 2015 AAI Award Applications, p. 2)

- **Prize/Award:** Awards in 11 categories recognizing the promise and bolstering the professional development of investigators of all career stages through support for travel to the AAI annual meeting
- **Eligibility:** AAI members in good standing who meet other qualifying criteria as indicated in individual award descriptions
- **Details:** www.aai.org/awards/travel
- **Contact:** AAI: (301) 634-7178; awards@aai.org

2015 Trainee Abstract Awards Tiered to Benefit Longer-Term Members

Since 2008, AAI has offered Trainee Abstract Awards to trainee members whose abstracts are selected for oral presentation at the AAI annual meeting. This award consists of a \$500 reimbursement of expenses incurred in attending the meeting and recognition in AAI published announcements.

For IMMUNOLOGY 2015™, the AAI Trainee Abstract Award will provide a higher reimbursement amount for members with multiple consecutive years of membership. New trainee members for 2015 will be eligible for up to \$500 in travel reimbursement; trainee members in good standing for 2014 and 2015 will receive up to \$625 in travel reimbursement; and trainee members in good standing for 2013, 2014, and 2015 will receive up to \$750 in travel reimbursement.

Visit www.aai.org/Awards/Travel for more information about this award and other travel awards offered in conjunction with IMMUNOLOGY 2015™.

Meetings and Events Calendar

Mark Your Calendar for These Important Dates!

2014

November 30–December 4, 2014

9th Federation of African Immunological Societies Conference

Nairobi, Kenya
faisconference2014.com

2015

January 24–27, 2015

54th Midwinter Conference of Immunologists at Asilomar

Asilomar Conference Grounds,
Pacific Grove (near Monterey), CA
midwconfimmunol.org

February 11–15, 2015

2015 BMT Tandem Meeting

San Diego, CA
cibmtr.org/Meetings/Tandem/index.html

March 28–April 1, 2015

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

Boston, MA
Contact: eb@faseb.org

May 8–12, 2015

IMMUNOLOGY 2015™ AAI Annual Meeting

Ernest N. Morial Convention Center
New Orleans, LA
immunology2015.org

June 14–19, 2015

First International Convention: IMMUNOPHARMACOLOGY - VACCIPHARMA 2015

Melia Marina Varadero
Varadero Beach, Cuba
scf.sld.cu

June 14–19, 2015

First International Convention: IMMUNOPHARMACOLOGY - VACCIPHARMA 2015

Melia Marina Varadero
Varadero Beach, Cuba
scf.sld.cu

July 3–5, 2015

LACA 2015, The 5th Latin American Congress on Autoimmunity

Salvador, Bahia, Brazil
laca.kenes.com

July 11–15, 2015

The American Society for Virology 34th Annual Scientific Meeting

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

July 14–19, 2015

AAI Introductory Course in Immunology

Long Beach Convention Center
Long Beach, CA
aai.org/Education/Courses/Intro/index.htm

August 2–7, 2015

AAI Advanced Course in Immunology

Seaport World Trade Center
Boston, MA
aai.org/Education/Courses/Advanced/index.html

September 6–9, 2015

ECI 205: 4th European Congress of Immunology

Vienna, Austria
eci-vienna2015.org

October 6–9, 2015

Influenza Vaccines for the World IVW 2015

Albufeira, Portugal
meetingsmanagement.cmail2.com/t/d-l-vpity-vckugr-t

October 9–13, 2015

ASBMR 37th Annual Meeting

Seattle, WA
asbmr.org

October 11–14, 2015

Cytokines2015

Bamberg, Germany
www.cytokines2015.com

November 5–8, 2015

14th International Workshop on Langerhans Cells

Kyoto, Japan
lc2015.jp

2016

February 18–22, 2016

2016 BMT Tandem Meeting

Honolulu, HI
cibmtr.org/Meetings/Tandem/index.html

May 13–17, 2016

IMMUNOLOGY 2016™ AAI Annual Meeting

Washington State Convention Center
Seattle, WA
aai.org/Meetings/Future_Meeting.html

August 21–26, 2016

ICI 2016: International Congress of Immunology 2016

Melbourne, Australia
ici2016.org

2017

May 12–16, 2017

IMMUNOLOGY 2017™ AAI Annual Meeting

Walter E. Washington Convention Center
Washington, D.C.
aai.org/Meetings/Future_Meeting.html

Track updated meeting listings anytime via the online Meetings and Events Calendar – visit <http://www.aai.org/Careers/Calendar/index.html>.

Chronicling the AAI Legacy

1913–2014



THE SCIENTISTS BEHIND THE SCIENCE

AAI Oral History Project Available Online

To provide contemporary investigators and the public a rare view into the lives and times of influential immunologists, AAI arranged for the award-winning Oral Historian Brien Williams, Ph.D., to interview past AAI presidents, beginning in the spring of 2012. Interviewees were asked about their family backgrounds, early interest in science, reasons for studying immunology, career and research highlights, challenges faced, balancing professional and private life, hobbies outside of the laboratory, major changes in immunology over the course of their careers, and the future of immunology and science in the United States. The sessions, typically one and one-half to two hours in length, were professionally recorded and edited in high-definition video.

“Scientific contributions live on as researchers continue to build upon the work of the past, yet present-day investigators often know little about the scientists responsible for them,” said AAI Historian John Emrich, Ph.D., who first conceived of the Oral History Project in 2011. “The ‘Pillars of Immunology’ series in *The Journal of Immunology* makes the connections between past and present science more explicit than they otherwise would be, but investigators rarely have the opportunity to hear about their predecessors’ motivations, their hardships suffered and overcome, their lives outside of the laboratory, or even their candid thoughts on the state of the field.”

To date, 25 past presidents have been interviewed. Their presidential terms span five decades, from that of Herman Eisen (AAI '51, president 1968–69, now deceased) to Leslie Berg (AAI '94, president 2011–12). Included in this group were two past presidents in their 90s, Eisen and David Talmage (AAI '54, president 1978–79, now deceased); six in their 80s; and four in their 70s.

The memories and reflections contained in these interviews constitute an important facet of the history of immunology that would likely be lost to future generations if not preserved in the AAI Oral History Project. As AAI continues to conduct interviews with additional presidents and other influential immunologists, members and the general public are invited to view the oral histories already recorded. Video clips and the full-length interviews, which have been optimized for playback on TVs, computers, and mobile devices, are available at www.aai.org/ohp.



Oral History Interviews Currently Available:

- Herman N. Eisen (1968–69)
- K. Frank Austen (1977–78)
- David W. Talmage (1978–79)
- Jonathan W. Uhr (1983–84)
- William E. Paul (1986–87)
- Max D. Cooper (1988–89)
- Henry Metzger (1991–92)
- Frank W. Fitch (1992–93)
- Ellen S. Vitetta (1993–94)
- Irving L. Weissman (1994–95)
- Richard W. Dutton (1995–96)
- Katherine L. Knight (1996–97)
- Roger M. Perlmutter (1999–2000)
- Philippa Marrack (2000–01)
- James P. Allison (2001–02)
- Paul W. Kincade (2002–03)
- Laurie H. Glimcher (2003–04)
- Susan L. Swain (2004–05)
- Paul M. Allen (2005–06)
- Lewis L. Lanier (2006–07)
- Olivera J. Finn (2007–08)
- Arthur Weiss (2008–09)
- Betty A. Diamond (2009–10)
- Jeffrey A. Frelinger (2010–11)
- Leslie J. Berg (2011–12)

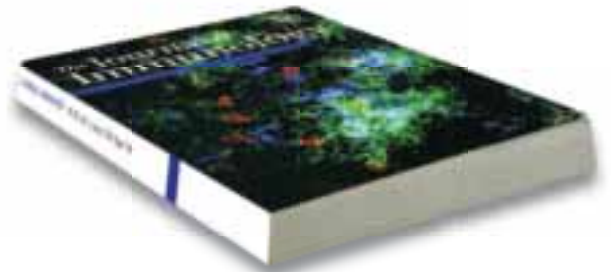
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For complete details on AAI membership privileges and benefits, eligibility requirements, and application forms, please visit www.aai.org/membership, contact the AAI membership office at 301-634-7195, or email members@aai.org.

For complete details on manuscript submission to *The JI*, please visit www.jimmunol.org, contact *The JI* office at 301-634-7197, or email infoji@aai.org.





IMMUNOLOGY 2015™

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ABSTRACTS

Regular Abstract Submissions Now OPEN!
Regular Abstract Submissions Close January 12, 2015
www.IMMUNOLOGY2015.org/abstract

HOUSING

Housing Reservations Now OPEN!
Discounted Hotel Rate Closes April 9, 2015
www.IMMUNOLOGY2015.org/housing

AWARDS

Travel Award, Grant Application Submissions Now OPEN!
Travel Award, Grant Application Deadline is January 12, 2015
www.IMMUNOLOGY2015.org/awards

REGISTRATION

Registration Opens December 10, 2014
Early Registration Discount Ends March 23, 2015
www.IMMUNOLOGY2015.org/registration