



# AAI NEWSLETTER

The American  
Association of  
Immunologists

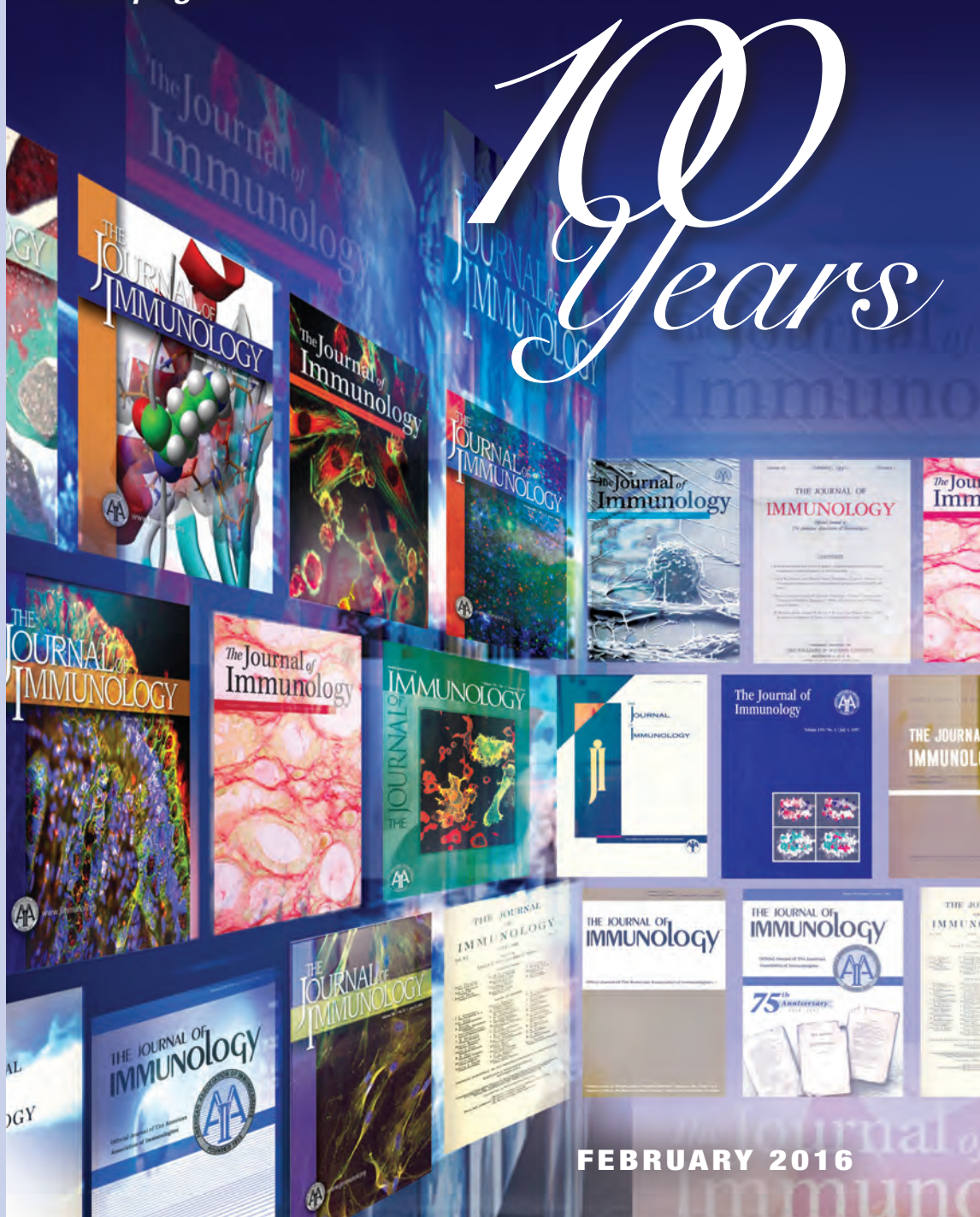
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## A Century of Excellence: 100 Years of *The Journal of Immunology*

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# 100 Years



FEBRUARY 2016



# The American Association of Immunologists

## Career Award Recipients for 2016

*The American Association of Immunologists proudly announces the 2016 recipients of AAI awards for outstanding research and career achievements.*

*The 2016 AAI award winners will be recognized at IMMUNOLOGY 2016™  
May 13–17, Seattle, Washington.*



### AAI Lifetime Achievement Award

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

**Olivera J. Finn, Ph.D.**

*University of Pittsburgh School of Medicine*



### AAI Distinguished Service Award

*For outstanding service to AAI and the immunology community as the AAI Secretary-Treasurer for two terms, 2009–2015*

**Mitchell Kronenberg, Ph.D.**

*La Jolla Institute for Allergy & Immunology*

### AAI-Steinman Award for Human Immunology Research



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

**Lieping Chen, M.D., Ph.D.**

*Yale University School of Medicine*

### AAI-BioLegend Herzenberg Award



*For outstanding research contributions to the field of immunology in the area of B cell biology*

**John F. Kearney, Ph.D.**

*University of Alabama, Birmingham*

### AAI-Thermo Fisher Meritorious Career Award



*For outstanding research contributions to the field of immunology*

**Kenneth M. Murphy, M.D., Ph.D.**

*HHMI, Washington University School of Medicine*



### AAI-BD Biosciences Investigator Award

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

**Ming Li, Ph.D.**

*Memorial Sloan Kettering Cancer Center and Cornell University*



### AAI Excellence in Mentoring Award

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

**Richard A. Flavell, Ph.D.**

*HHMI, Yale University School of Medicine*



## The American Association of Immunologists

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

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# FOCUS ON PUBLIC AFFAIRS

## President Obama Emphasizes Importance of Biomedical Research in State of the Union

President Obama delivered his eighth and final State of the Union (SOTU) address on January 12 (read the full address at: [www.whitehouse.gov](http://www.whitehouse.gov) > Briefing Room > Speeches & Remarks). The president highlighted advances in biomedical research as well as future opportunities, including the establishment of a new “moonshot” effort to work toward a cure for cancer.

During his address, Obama announced that Vice President Joe Biden would be in charge of this “new national effort to get it done.” Biden launched the cancer initiative on January 15 at the Penn Medicine Abramson Cancer Center in Philadelphia, a venue selected “to call attention to the institute’s pioneering efforts on immunotherapy” (see: <http://abcnews.go.com/Technology/wireStory/biden-sees-politics-cancer-world-obstacle-cure-36307857>).

The establishment of this new program follows remarks made by Biden last October when he officially announced that he would not seek the Democratic nomination for president. In those remarks (read his full statement at [www.whitehouse.gov](http://www.whitehouse.gov) > Briefing Room > Speeches & Remarks), Biden spoke of his desire to see, and bipartisan support for, “a moonshot in this country to cure cancer.”

The president made several other notable statements about biomedical research during the SOTU address. Calling medical research “critical,” he praised Biden for working with Congress “to give scientists at the National Institutes of Health the strongest resources that they’ve had in over a decade.” Looking forward, the president said that “we’re on track to end the scourge of HIV/AIDS ... and we have the chance to accomplish the same thing with malaria – something I’ll be pushing this Congress to fund this year.”

## AAI Letter Expresses Concern About Congressional Efforts to Re-allocate Funding at NIH

AAI sent a letter to Senator Bill Cassidy (R-LA) in early December expressing concern about his “recent efforts to legislate the re-allocation of funding within the NIH portfolio.” Cassidy has repeatedly said that he believes a disproportionate share of NIH funding is devoted to HIV/AIDS research and recently offered a legislative solution to address that concern.

The AAI letter (see: [www.aai.org](http://www.aai.org) > Public Affairs > Letters and Comments), sent by AAI Committee on Public Affairs (CPA) Chair Clifford Harding, states that AAI “recognizes that Congress has oversight authority over NIH, and agrees that NIH has an ongoing responsibility to reevaluate its research portfolio,” but also that “AAI believes that scientific discovery most quickly advances when NIH leadership, in consultation with the scientific community, is able to decide how to allocate funds.”

During an October hearing on NIH, Cassidy challenged NIH Director Francis Collins, M.D., Ph.D., regarding the percent of funding (about 10 percent of its budget) that NIH continued to allocate (after expiration of the Congressional mandate) to HIV/AIDS research, asking whether NIH would allocate 10 percent of any funding increase to this disease category. After describing a recent NIH decision to limit HIV/AIDS funding to only the highest priority research, Collins conceded that NIH would likely reduce the percentage allocated to HIV/AIDS research in the event of a significant funding boost.

# FOCUS ON PUBLIC AFFAIRS (CONTINUED)

In June, during full committee consideration of the Senate Labor, Health and Human Services, Education, and Related Agencies (Labor-HHS) appropriations bill, Cassidy offered an amendment to cut more than \$200 million in funding from the National Institute of Allergy and Infectious Diseases (NIAID) and to re-allocate the funding to several other NIH institutes that focus on neurodegenerative diseases. Cassidy believed that the amendment would force NIH to re-prioritize funding away from HIV/AIDS research. Although the amendment failed by a vote of 6-23, Senate Labor-HHS Appropriations Subcommittee Chair Roy Blunt (R-MO) agreed that this issue warranted additional consideration.

The recently enacted omnibus appropriations bill for fiscal year (FY) 2016 does not directly cut funding for HIV/AIDS research at NIH. It is, however, accompanied by report language that addresses the issue of NIH priority setting: "NIH should consider burden of disease when setting priorities and developing strategic plans across its ICs to address conditions (such as Alzheimer's disease, diabetes, heart disease, and cancer) with significant opportunity to improve the current or future health of the American population by targeting funding toward cures and better treatment."

## NIH Submits Strategic Plan to Congress

### Plan Includes AAI Suggestions

In December, NIH submitted a strategic plan to Congress that describes the framework that NIH will use to address challenges and opportunities over the next five years. The strategic plan incorporates suggestions from the public, NIH institute and center directors and staff, and the NIH Advisory Council to the Director. Its development was mandated by Congress in the FY 2015 appropriations law, which set a development and submission deadline of December 2015.

The plan framework includes an overview and four main objectives: advancing opportunities in biomedical research; setting priorities; enhancing stewardship; and excelling as a federal science agency by managing results. NIH identified three main opportunities in biomedical research: fundamental science, health promotion/disease prevention, and treatments/cures. Each section of the plan contains past examples of each objective and issues that NIH intends to focus on in the future.

Last August, AAI submitted suggestions (see: [www.aai.org](http://www.aai.org) > Public Affairs > Letters and Comments) to NIH in response to its request for public comment. AAI

encouraged NIH to emphasize the importance of basic research and to include examples of how fundamental biological discoveries "led to unexpected improvements in human or animal health." In addition, AAI urged NIH to include vaccines, immunotherapeutics, and the immune system as cross-cutting concepts that will be important to the advancement of the NIH mission. Most of the AAI suggestions were incorporated in the strategic plan; AAI was particularly pleased to see included an excellent example of basic research leading to the development of cancer immunotherapy: "...it must be emphasized that cancer immunotherapy owes its success to decades of NIH-funded fundamental science. In fact, a recent analysis of a cancer immunotherapy approach ... documented the contributions of 7,067 scientists over more than a century, with many working on basic research with no clear connection to cancer" (<http://www.nih.gov/sites/default/files/about-nih/strategic-plan-fy2016-2020-508.pdf>).

## NIH Implements New Reproducibility Guidelines

### Delays Implementation for Select Grant Mechanisms

In October 2015, NIH announced changes for grant applications that are designed to improve rigor and transparency in research. This announcement addressed four areas: "1) the scientific premise of the proposed research, 2) rigorous experimental design for robust and unbiased results, 3) consideration of relevant biological variables, and 4) authentication of key biological and/or chemical resources." The revised guidelines went into effect on January 25, 2016, for most grant mechanisms, including the investigator-initiated research project grant (R01).

Implementation of these guidelines has been delayed for institutional training grants (T), individual fellowships (F), and institutional career development awards (K12). The changes will instead go into effect "as early as FY 2017."

More information on rigor and reproducibility in research and on the new grant application guidelines can be found on the NIH Office of Extramural Research website (<http://grants.nih.gov/reproducibility/index.htm>).

## FASEB Releases Report on Enhancing Reproducibility

The Federation of American Societies for Experimental Biology (FASEB) recently released a report, entitled "Enhancing Research Reproducibility," which outlines factors that impede reproducibility

and suggests actions that can be taken to reduce the effect of these variables. The report focuses on general scientific issues, as well as two areas of specialization (mouse models and antibodies), and recommends using uniform definitions, reporting important experimental details, and improving training in rigor and experimental design.

The report is the product of four FASEB-hosted meetings that featured discussions among invited experts, NIH officials, FASEB board members, and FASEB member society representatives. AAI CPA member Jonathan Harton, Ph.D.; former AAI CPA Chair William Green, Ph.D.; and AAI Science Policy Analyst Monika Schneider, Ph.D., represented AAI at one or more of the meetings. The final document can be found at [www.faseb.org](http://www.faseb.org) > Science Policy & Advocacy > Science Policy & Research Issues > Research Reproducibility.

## NCI Implements New Grant Mechanism to Retain Early Cancer Researchers

The National Cancer Institute (NCI) released a Request for Applications in December for a Predoctoral to Postdoctoral Fellow Transition Award (F99/K00).

The purpose of this award is “to encourage and retain outstanding graduate students who have demonstrated potential and interest in pursuing careers as independent cancer researchers.” This grant mechanism was first approved during the NCI Board of Scientific Advisors meeting in March 2015.

The Predoctoral to Postdoctoral Fellow Transition Award would be implemented in two phases: the F99 phase would cover one to two years of dissertation research during graduate school, and the K00 transition phase would provide support for up to four years of mentored postdoctoral research.

This award would incentivize talented graduate students to continue cancer studies through their postdoctoral appointments by providing a salary stipend that is higher than the NIH National Research Service Award; the salary during the first year would be up to \$50,000 and could increase over four years to \$59,000. Individuals may receive up to six years of combined support.

NCI plans to fund up to 30 awards in FY 2016. The submission period for this award opened on January 19, 2016, and will close on February 19, 2016.

# 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](mailto: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](mailto:infoaai@aai.org). (subject line "GRIP")**



Program details at [aai.org/Education/GRIP](http://aai.org/Education/GRIP)



# Important Dates for Two AAI Awards Programs

*AAI Programs to Benefit Your Lab's Current or Future Research*

## AAI Careers in Immunology Fellowships

KEY DATES	APPLICATIONS OPEN	APPLICATIONS CLOSE
	<b>JANUARY 15</b>	<b>MARCH 15</b>

These fellowships provide AAI member PIs with one year of salary support for a graduate student or postdoctoral fellow in their labs. Member PIs in good standing with less than \$250,000 (excluding PI's salary) in annual direct costs are eligible to apply.

Consideration is based on the merit of the PI's proposed project, potential of the trainee, and quality of the training environment.

**Direct inquiries to [fellowships@aai.org](mailto:fellowships@aai.org).**

## AAI Travel for Techniques Award Program

AWARDS CYCLE	APPLICATIONS OPEN	APPLICATIONS CLOSE
<b>WINTER</b>	<b>DECEMBER 15</b>	<b>FEBRUARY 15</b>
<b>SPRING</b>	<b>APRIL 15</b>	<b>JUNE 15</b>
<b>FALL</b>	<b>AUGUST 15</b>	<b>OCTOBER 15</b>

The Travel for Techniques Award is given to member PIs, reimbursing up to \$1,500 in expenses for travel to learn a new technique. Member PIs in good standing with less than \$250,000 (excluding PI's salary) in annual direct costs are eligible to apply.

**Direct inquiries to [tft@aai.org](mailto:tft@aai.org).**

These two exciting awards programs were launched by The American Association of Immunologists in 2014, adding significantly to its already robust support for scientists through fellowships, career awards, and travel grants. For more information, visit [www.aai.org/awards](http://www.aai.org/awards).

# IMMUNOLOGY 2016™

Annual Meeting of The American Association of Immunologists



MAY 13–17, 2016  
WASHINGTON STATE CONVENTION CENTER  
SEATTLE, WASHINGTON

## Jobs Board

*A Free Recruiting Service for Registrants and Exhibitors*  
**Post Online and Meet On-site**

AAI is offering career services to both job seekers and employers through a Jobs Board free to meeting registrants and exhibitors at [www.immunology2016.org/jobs-board](http://www.immunology2016.org/jobs-board).

**Job Seekers!** Whatever your career stage, use this career service at IMMUNOLOGY 2016™ to enhance your professional development!

- **Job Postings.** Review the online AAI Jobs Board to identify postings you wish to pursue. (View new Advance Postings through May 4. Watch for On-site Postings, online or on paper in the Exhibit Hall!)
- **Direct Access to Recruiters.** Job postings will include recruiters' e-mail addresses so that you can contact them directly.

**Employers!** Advertise your position on a virtual Jobs Board located on the IMMUNOLOGY 2016™ website. By including a contact email, you will receive inquiries directly.

- **Advance Postings.** Postings will be accepted as of February 15 and will remain online until the end of the meeting. To post job listings in advance of the meeting, contact [meetings@aai.org](mailto:meetings@aai.org). Advance Postings must be submitted to AAI by May 4, 2016.
- **On-site Postings.** After May 4, 2016, employers wishing to advertise a job on the IMMUNOLOGY 2016™ Jobs Board may still do so by visiting the AAI Office in the Washington State Convention Center between 9:00 AM and 5:00 PM. Ads submitted on-site will be posted on the bulletin board in the Exhibit Hall.

**Save Thousands of Dollars in Recruiting Expenses.** Take advantage of this complimentary hiring opportunity at IMMUNOLOGY 2016™. To register for the meeting, visit [www.immunology2016.org/register](http://www.immunology2016.org/register).

[www.IMMUNOLOGY2016.org](http://www.IMMUNOLOGY2016.org)



# Members in the News

## Hunter Is Appointed President's Distinguished Professor at Penn



Christopher A. Hunter

**Christopher A. Hunter, Ph.D., AAI '96**, has been named the inaugural Mindy Halikman Heyer President's Distinguished Professor at the University of Pennsylvania (Penn). The \$3 million endowment will advance Hunter's research on how the immune system protects animals and humans from infectious disease.

Dr. Hunter holds appointments as professor and Department

of Pathobiology chair at Penn's School of Veterinary Medicine (Penn Vet). His lab has long worked in the field of parasitology, particularly focusing on both protective and pathologic immune responses to infection with the protozoan parasite *Toxoplasma gondii*. Early work with *Trypanosoma* parasites, the cause of African sleeping sickness, began a longstanding interest in the neuropathogenesis of infectious disease, including the characterization of cytokines produced in the central nervous system during infection, the mechanisms by which lymphocytes access this site, and the role of activated astrocytes in infection. This initial work with cytokines led to studies identifying contributions of a variety of cytokine and costimulatory pathways to the regulation of NK and T cell responses during parasitic infection. Hunter's laboratory has extended this work to focus on how transcription factors downstream of cytokines, including JAK-STAT and NF- $\kappa$ B, are used to modulate immune function during infection and how pathogens interfere with these signaling pathways. A great deal of work in the lab has focused on the IL-12 family of cytokines, particularly IL-27 and its role in limiting *T. gondii* infection-induced inflammatory processes, and current studies also address the roles of the IL-6 cytokine family in the balance between protective and pathologic anti-parasite immunity. With their collaborators, the Hunter laboratory has used transgenic technology for higher resolution analyses of parasite interactions with T cells and dendritic cells and has applied multiphoton microscopy to image the innate and adaptive immune response to *T. gondii* in different tissues. Hunter's work, having shown relevance to other types of infectious diseases as well as autoimmunity, asthma, and cancer, continues its far-reaching impact on the field and on strategies aimed at modulating the immune response.

Hunter has served on the AAI Committee on Public Affairs and AAI Program Committee and is a past associate editor and section editor for *The Journal of Immunology*. He has

served as a major symposium chair and speaker at the AAI annual meeting, director of the AAI Introductory Course in Immunology (multiple years), and instructor on a number of occasions at the AAI Introductory and Advanced Immunology Courses.

Hunter cited the role of his AAI membership and service in fostering the career momentum reflected in his new Penn appointment. "AAI has taught me so much and is a major part of what I have managed to achieve in two decades at Penn. Early participation in organizing an AAI session that first broke news of the variation in the IL-12 family drew standing-room-only attendance and brought key recognition and interest in what the field was doing. The privilege of subsequent AAI service has steadily enhanced my profile and traction as a scientist, from working with the Program Committee and as a meeting speaker and session organizer to serving as a reviewer and then section editor for *The JI* and as a teacher at the AAI summer courses. Uniquely rewarding in their own right, these experiences have been pivotal for me in ways that help define career success for scientists."

Hunter has served on numerous review and advisory panels on behalf of NIH (multiple study sections, AIDS Fellowships program, NIH Comparison Pilot Reviews; external reviewer, National Institute of Neurological Disorders and Stroke intramural programs; and National Cancer Institute inflammation and cancer programs), as well as the National Science Foundation, Wellcome Trust, U.S. Department of Veterans Affairs, Howard Hughes Medical Institute, Gates Foundation, and University of Virginia Infectious Diseases and Biodefense training program. Hunter's continuing and past editorial appointments include service on behalf of *Infection and Immunity*, *Current Immunology Reviews*, *Journal of Experimental Medicine*, *Journal of Clinical Investigation*, and *Microbes and Infection*.

Hunter's additional career appointments and honors include: elected fellow, American Academy of Microbiology; elected fellow, Royal Society of Edinburgh; elected member, Midwinter Conference of Immunologists Council; senior investigator, American Asthma Foundation; Burroughs Wellcome Young Investigator Award; Irvington Research Scholar; Pfizer Award for Research Excellence, Cormie Prize in Neurology; and member, Scientific Advisory Board, Surface Oncology (cancer immunotherapy firm). He has helped organize meetings, including: Biannual *Toxoplasma* Meeting, Midwinter Conference of Immunologists, Keystone Biology of Cytokines Meeting, Burroughs Wellcome Fund Parasitology T32 Meeting (multiple), International Cytokine Society Meeting (multiple), Woods Hole Immunoparasitology Meeting (multiple), and Woods Hole Biology of Parasitism Course (multiple, including as course director).

A zoology graduate of the University of Glasgow, Hunter received his Ph.D. in parasite biochemistry from the same



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institution, thereafter serving as a postdoctoral fellow in parasite neuroimmunology at the university's School of Veterinary Medicine. He undertook additional postdoctoral training in parasite immunology at Stanford University/Palo Alto Medical Foundation Research Institute, where he subsequently served as a research associate. In 1996, Hunter joined the Penn faculty as an assistant professor of parasitology; he was promoted to associate professor in 2001 and full professor in 2005. He has served as Department of Pathobiology chair since 2007 and as director of Penn Vet's Center for Host-Microbial Interactions since 2012.

## Roslyn Kemp is Miriam Dell Awardee



*Roslyn A. Kemp*

**Roslyn A. Kemp, Ph.D., AAI '13**, has been named the 2015 recipient of the Association for Women in the Sciences (AWIS) Miriam Dell Award for her work inspiring female immunologists across Australasia through mentoring.

The biennial Dell award honors those who demonstrate outstanding mentoring to foster the entry and retention of women in science, mathematics, or technology.

Kemp's award specifically recognizes her work with students and her role in instigating the Women's Initiative of the Australasian Society for Immunology. One of the initiative's major components, coordinated and managed by Dr. Kemp, provides mentorship opportunities for female immunologists at all career stages. Since its introduction in late 2013, more than 85 mentors have been enlisted and more than 25 mentoring relationships established.

Kemp is a senior lecturer in the Department of Microbiology and Immunology at New Zealand's University of Otago, Dunedin. Her research focuses on gut-specific immunity, with a particular emphasis on understanding the complexity of T cell and myeloid cell responses under homeostatic conditions, as well as in the chronic intestinal disease milieu of inflammatory bowel diseases and colorectal cancer. Her lab has characterized unique T cell cytokine signatures in Crohn's and ankylosing spondylitis patients without active disease and identified how different T cell subsets impact the tumor microenvironment in colorectal cancer patients. Her lab continues to strive toward improving the diagnosis, prognosis, and treatment for these diseases by determining the predictive value of T cells infiltrating the gut mucosa

and tumors versus those found in lymph nodes in colorectal cancer patients. Kemp also investigates the generation of gut-specific immunity through the use of vaccines administered locally, with the end objective of generating and maintaining effective T cell memory populations that could be used to combat colorectal cancer.

Through her mentoring as an undergraduate teacher, Kemp is credited with helping inspire a dramatic increase in recent years in the number of female students in immunology programs at the graduate and postgraduate level across Australasia. Her efforts have placed a special emphasis on supporting young female Maori students into postgraduate study.

Kemp was a 2015 AAI Junior Faculty Travel Grant recipient. Her additional career appointments and honors include: National Tertiary Teaching Excellence Award; University of Otago Award for Teaching Excellence; New Zealand Councilor and New Zealand representative, Infection and Immunity Special Interest Group, Australasian Society of Immunology (ASI); University of Otago Supervisor of the Year; associate investigator, Maurice Wilkins Centre; chair, New Zealand ASI Immunology Conference Organizing Committee; Founding and Steering Committee member, Gut Health Network; member, ASI Annual Meeting Local Organizing Committee; member, New Zealand Society for Oncology (NZSO); member, Formulation and Delivery of Bioactives Meeting Steering Committee; University of Otago Flow Cytometry Facility Committee; Otago School of Medical Sciences Maori Student Support; Global Health Travel Award, Keystone Symposia; and Eli Lilly Award for best presentation, NZSO annual meeting. Kemp has served as an invited session chair, speaker, or keynote speaker at meetings and symposia throughout New Zealand as well as in Australia and Italy.

An honors graduate (microbiology) of the University of Otago, Kemp received her Ph.D. in immunology from the University of Otago, Wellington, and Malaghan Institute of Medical Research. She completed postdoctoral fellowships at the Trudeau Institute and Nuffield Department of Medicine, Oxford University (UK), and subsequently, served as a Medical Research Council (UK) Career Development Fellow at the National Institute of Medical Research, London. In 2008, she joined the University of Otago's Cancer Genetics Laboratory as a research fellow; she was appointed lecturer in the university's Department of Microbiology and Immunology in 2009 and has served as senior lecturer since 2013.

# Members in the News (continued)

## Gwendalyn Randolph is NIH Pioneer Awardee



Gwendalyn J. Randolph

**Gwendalyn J. Randolph, Ph.D., AAI '01**, has been named a 2015 NIH Director's Pioneer Award recipient for research that will apply her expertise in immune cell and lipoprotein trafficking to examine vascular changes in the pathogenesis of human Crohn's disease.

Dr. Randolph is a professor of pathology and immunology and chief of the Division of Immunobiology at Washington University School of Medicine.

Her research integrates the study of monocytes, monocyte-derived cells, and dendritic cells (DCs) with vascular and lymphatic vessel biology. Her laboratory has pioneered approaches to study the migration of monocytes and DCs across vascular and lymphatic barriers and to lymph nodes in various tissues. Studies of the fate of monocyte-derived cells after they leave the blood and enter tissues led to investigation of how DCs emigrate through lymphatics to enter lymph nodes. The lab also focuses on monocyte and DC migration in acute and chronic inflammation and the role of macrophage egress versus cell death in the resolution of inflammation. With the use of atherosclerosis as a model of chronic inflammation, Randolph's lab studies the accumulation of monocytes and DCs in atherosclerotic plaques and how this is regulated by cholesterol. More recently, her group has developed an interest in the functional properties of lymphatic vessels and the adipose tissue that surrounds them, exploring crosstalk between immune cells and lymphatics and ways in which these interactions might affect lymphatic function, immune and inflammatory responses, and adipose tissue. They are working to relate these interactions to metabolic and inflammatory diseases, including Crohn's disease, and future work will investigate vascular changes in the pathogenesis of Crohn's disease.

Randolph is a past associate editor and section editor for *The Journal of Immunology*. She has served as a major symposium chair and speaker and careers roundtable discussion leader at the AAI annual meeting as well as an instructor on multiple occasions at the AAI advanced and introductory immunology courses.

Randolph holds editorial appointments with *Arteriosclerosis, Thrombosis, and Vascular Biology*, *Journal of Clinical Investigation*, and *Journal of Experimental Medicine*; has held past such appointments with the *Annual Review of Immunology*, *Immunological Reviews*, *Lymphatic Research*

and *Biology*, and *Lymphatics and Metabolism*; and serves as an ad hoc reviewer for *Blood*, *Circulation*, *Circulation Research*, *Journal of Lipid Research*, *Immunity*, *Nature*, *Nature Immunology*, *Nature Medicine*, *Nature Reviews Immunology*, *PLOS One*, *PNAS*, and *Science*.

Randolph's review panel experience includes service on behalf of NIH (Board of Scientific Counselors, Laboratory of Clinical Investigation; Immunobiology Fellowship Study Section; ad hoc reviewer, multiple study sections), Leducq Foundation, Rainin Foundation Innovator Awards Program, Crohn's Colitis Foundation of America, VaxDesign, Inc., and New York City Science and Engineering Fair/Intel Science Talent Search. She has co-organized and/or chaired scientific sessions on behalf of the American Heart Association, Gordon Conferences, and Keystone Symposia and has presented numerous invited lectures at meetings and institutions throughout the United States and overseas (including Australia, Belgium, Canada, England, France, Germany, Greece, Italy, Japan, Mexico, Norway, Portugal, Scotland, Spain, Sweden, Switzerland, and The Netherlands).

Her additional career honors include: Rainin Foundation Innovator Award and Breakthrough Award; R&D 100 Award (co-recipient), *R&D Magazine*; American Heart Association Established Investigator Award; Dr. Harold and Golden Lampert Research Award and Faculty Council Award for Academic Excellence, Mount Sinai School of Medicine; Cancer Research Institute Investigator Award; Dendritic Cell Maven Award, 5th International Symposium on Dendritic Cells; Individual National Research Service Award, National Heart, Lung, and Blood Institute, NIH; Graduate Council Commendation of Outstanding Graduate Students and Aaron Janoff Award in Experimental Pathology, State University of New York (SUNY) at Stony Brook; and College of Arts and Sciences Alumni First Prize for Scholarship, Otto Kurschner Award for Excellence in Science, and Intellectual Heritage Prize for Excellence in Critical Writing, Temple University.

A biology graduate (with highest honors) from Temple University, Randolph received her Ph.D. in cellular and molecular pathology from SUNY at Stony Brook (advisor: Martha Furie). Under the co-mentorship of Ralph Steinman and William Muller, she completed postdoctoral fellowships at Rockefeller University and Cornell University Medical College. She subsequently served as an instructor at Weill Medical College of Cornell University and adjunct faculty member at Rockefeller. In 2000, she was appointed an assistant professor at Mount Sinai School of Medicine, where she was later promoted to associate professor (2006), member of the Immunology Institute (2007), and full professor (2010). In 2011, she moved to the Department of Pathology at Washington University School of Medicine, where she has served as chief of the department's Division of Immunobiology since 2015.

## Emil Unanue Is Sanofi-Pasteur Awardee



Emil R. Unanue

**Emil R. Unanue, M.D., AAI '66**, is the recipient of a 2015 Sanofi-Institut Pasteur Award for Biomedical Research in recognition of his contributions to the field of immunology.

Dr. Unanue is Paul and Ellen Lacy Professor of Pathology and Immunology at Washington University School of Medicine. He has pioneered fundamental advances in the field of antigen processing and presentation, elucidating the biochemical

basis of T cell recognition of antigen. His work was the first to controvert dogma that macrophages served only to destroy dead cells and pathogens, showing that these cells can actually present antigen to T cells. Unanue also made strides in the field to show that proteins need to be processed intracellularly before being recognized by T cells. In 1985, members of his lab published one of the most highly cited, pivotal immunology articles of all time, which demonstrated that major histocompatibility complex (MHC) molecules are able to bind peptides and that these MHC-peptide complexes activate T cells. Unanue's current work continues to build on these ground-breaking antigen processing and presentation studies in the context of mouse models of autoimmune diabetes and *Listeria monocytogenes* infection and combines biochemical analyses of peptide:MHC II binding, in vivo imaging of antigen presentation, and mass spectrometry investigation of the antigen-presenting cell MHC-peptidome to inform his research.

Unanue was the 2014 recipient of the AAI Lifetime Achievement Award. He has served as an associate and section editor for *The Journal of Immunology (The JI)* and as member and chair of *The JI* editorial board. He is a past member of the AAI Awards Committee, AAI Publications Committee (including as chair), AAI Nominating Committee (chair), and AAI Education Committee. At the AAI meeting, Unanue has been an AAI Distinguished Lecturer (2002), major symposium chair and speaker, and presenter of the AAI Minority Affairs Committee Guest Lecture.

Unanue is a member of the National Academy of Sciences and the National Academy of Medicine and a fellow of the American Academy of Arts and Sciences. His additional career honors include: Albert Lasker Basic Medical Research Award; William B. Coley Award; Robert Koch Gold Medal; Gairdner Foundation International Award (co-recipient);

Master Lecturer, 14th International Congress of Immunology; Irvington Institute Scientific Leadership in Immunology Award; Rous-Whipple Award, American Society for Investigative Pathology; Marie T. Bonazinga Annual Research Award, Reticuloendothelial Society; Guggenheim Fellowship; Parke Davis Award, American Society for Experimental Pathology; Research Career Development Award, NIH; and T. Duckett Jones Award and foundation fellowship, Helen Hay Whitney Foundation.

A past president and councilor of the American Association of Pathologists, Unanue has held review and advisory panel appointments on behalf of NIH (pathology study section; National Advisory Allergy and Infectious Diseases Council; Allergy and Immunology Research Committee), as well as the National Academy of Sciences (section chair); Lupus Research Institute; Howard Hughes Medical Institute; Pew National Advisory Council; Reticuloendothelial Society; Dana-Farber Cancer Institute; Harvard Medical School; Harold C. Simmons Arthritis Research Center; Terri Gotthelf Lupus Research Institute; National Jewish Center for Immunology and Respiratory Medicine; Imagine Foundation (Paris); Abbott Laboratories; Igenica, Inc.; and RJR Nabisco Scholars Program. His current and past journal editorial appointments include service on behalf of *Molecular Medicine*, *Advances in Immunology*, *International Immunology*, *Immunity*, *Immunological Reviews*, *Encyclopedia of Immunology* (2nd ed.), *Science*, *Modern Pathology*, *The FASEB Journal*, *Microbiological Reviews*, *Annual Review of Immunology*, *Lymphokines*, *Vox Sanguinis*, *Laboratory Investigation*, *Journal of the Reticuloendothelial Society*, *International Archives of Allergy and Applied Immunology*, and *Clinical Immunology and Immunopathology*.

Unanue received his medical degree from the University of Havana School of Medicine in 1960. He subsequently completed his medical internship (pathology) at Presbyterian University Hospital, Pittsburgh; a research fellowship (experimental pathology) at the Scripps Clinic and Research Foundation; and a research fellowship (immunology) at the National Institute for Medical Research, London. After returning to Scripps as an associate in experimental pathology, Unanue joined the Harvard Medical School faculty in 1970 as an assistant professor in the Department of Pathology. There, he subsequently held appointments as associate professor and then as Mallinckrodt Professor of Immunopathology, while serving as a consultant in pathology at Brigham and Women's Hospital. In 1985, Unanue relocated to Washington University School of Medicine, where he held appointments as Mallinckrodt Professor and chairman of the Department of Pathology and Immunology and as pathologist-in-chief of Barnes-Jewish Hospital until 2006.

## John H. Weis, Ph.D., AAI '87

1955-2015

*AAI extends condolences to the family, friends, and colleagues of AAI member John H. Weis, Ph.D., AAI '87, a past associate editor for The Journal of Immunology, who died on December 11. Surviving family members include his wife and AAI member colleague Janis J. Weis, Ph.D., AAI '87. The following remembrance is adapted from an obituary published by the Weis family in the Salt Lake Tribune on December 15. AAI gratefully acknowledges the family's permission to adapt and extend the obituary in presenting the tribute here.*



John H. Weis

John Haynes Weis, husband, father, son, brother, mentor, educator, and outdoor advocate, passed away at home on December 11th from glioblastoma.

John was born in Bartlesville, Oklahoma, in 1955, the third child of Robert E. and Adrienne H. Weis. He graduated from Oregon State University and received his Ph.D. in microbiology from the University of Minnesota. Following postdoctoral training at Harvard Medical School, John embarked on a nearly three-decade academic career at the University of Utah. John was married to Janis J. Weis, and they have twin daughters Julie and Allison. John was extremely proud of the academic and personal accomplishments of his daughters—Julie's as a medical student, scientist, and Outward Bound instructor with a master's degree in public health; and Allison's as a Ph.D. candidate in microbiology, scientist, teacher, and volunteer in Latin America.

John held the George S. Weber Presidential Endowed Chair in Immunology at the University of Utah, where he served for 27 years as a member of the Department of Pathology faculty. His research focused on fundamental regulation of immune responses, including mast cell development, complement receptor expression by distinct cell types, and transcriptional regulation of B and T lymphocyte maturation. A major emphasis throughout his career was the characterization of transcriptional factors regulating progression of B cell maturation, including the recently identified Zfp318. He was also interested in identifying distinct factors that regulated T lymphocyte maturation, with most recent work focusing on members of the Snai family. His studies of complement receptors included cell biology and signaling mechanisms in

response to pathogens and his study on the IFITM proteins led to understanding of their involvement in membrane trafficking. (He also lent great advice and expertise in immunology to the Lyme disease studies of Janis Weis.)

John was actively engaged in graduate education at Utah, serving as director of the university's Molecular Biology Program and teaching immunology to graduate students for many years. He was known for the enthusiasm he brought to mentoring 20 Ph.D. students in immunology along with numerous other undergraduate, medical, and masters students and postdoctoral fellows. His

enthusiasm for immunology was also shared with students at the university's School of Medicine, where he served as unit director for host and defense and primary lecturer in immunology. The particular pride he took in mentoring, and in his students' development into independent scientists, reflected the influence of the graduate and postdoctoral mentors with whom John had trained—Anthony Faras at the University of Minnesota, Lynn Enquist at Molecular Genetics, Inc. (Minnesota), and Jon Seidman at Harvard Medical School.

An enthusiastic advocate for outdoor experiences in Utah, John invested great energy in initiatives promoting access and safety in the state. This included serving as a Regional Advisory Council member for the Utah Division of Wildlife Resources, founding member of the Utah Bicycle Coalition, and member of the state's Fish Health Board. He was an avid fly fisherman, committed to ensuring public access to Utah's fishing streams and to expanding opportunities for participating in the sport. John authored numerous opinion pieces and letters in the Salt Lake Tribune promoting environmental causes. He felt privileged to work with Reel Recovery, serving the organization as a volunteer guide for men living with cancer.

John became involved in bicycle safety in Utah after the death of a graduate student, serving as organizer of the Josie Johnson Memorial Bike Ride and expending huge efforts to encourage the state legislature to pass the 3-foot law guiding drivers in safe passing of bicycles (2009). The successful enactment of this law was a source of great pride to John and enhanced the safety and enjoyment of bicycling throughout the state.

John's passions included fly-fishing and photography, and he was never happier than when combining these talents while casting for bonefish in the Caribbean. He doted on his wife and children and encouraged all to strive for excellence and enjoyment in all pursuits. Many of the family's best times were spent exploring the Utah desert, Wyoming wilderness, and Pacific Northwest. He was a master of good will and humorous statements, and will be missed by family, fishing buddies, students, colleagues, and dear friends.

John is survived by his wife and soul mate of 37 years, Janis Weis, with whom he shared graduate, postdoctoral, and faculty experiences, and by his daughters Julie and Allison Weis, mother Adrienne Weis, brothers Robert

(Janice) Weis and Lawrence Weis, and sister Anita (James) Mapes. He was preceded in death by his father Robert Weis. The family is grateful for the wonderful care provided by the oncology teams of Huntsman Cancer Hospital.

A celebration of life was held on January 23rd at Red Butte Garden in Salt Lake City. In lieu of flowers, the family suggests donation to Reel Recovery, Na'atik Language and Cultural Institute, or the Utah Chapter of the Lupus Foundation.

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*See also:* Memories and Condolences - <http://www.legacy.com/guestbooks/saltlaketribune/john-haynes-weis-condolences/176888692?cid=full#sthash.zezcabf7.dpuf>

## John H. Weis Memorial Graduate Student Award

John Weis was a remarkable colleague who was passionate about many things, including the education and training of Ph.D. and M.D. students. In recognition of his dedication to teaching and mentoring, a graduate student award is being established in his honor. The award recipient will be announced annually at the fall University of Utah Biosciences Symposium, highlighting John's many contributions to teaching and leadership in the Molecular Biology Program and medical school curriculum.

The award will be given on a competitive basis, with selection by a committee of faculty members in the Molecular Biology Program. It will recognize outstanding graduate achievement at the University of Utah, allowing recipients to list the honor on their CV as the John H. Weis Memorial Graduate Student Award. The award will provide either stipend support for an outstanding Ph.D. or M.D./Ph.D. student or one or more travel awards in support of student participation

at a scientific meeting. The nature of the award will depend upon the amount of funds raised. The goal is to establish a substantial permanent endowment, although the funds will be used for the same purpose if they are only sufficient for a limited term.

For details on the award and on making a contribution via the university's Development Office, visit <http://medicine.utah.edu/pathology/microbiology-immunology/john-weis-award/index.php>.

To prospective donors, thank you for honoring John's memory through a contribution to graduate education at the University of Utah.

*David Stillman Ph.D., Professor and Division Head  
Department of Pathology Division of Microbiology  
& Immunology  
University of Utah Health Sciences Center*

# *The Journal of Immunology*

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1916

100 years of *The JI*

2016

# A Century of Excellence

Comprehensive • Authoritative • Foundational

AAI proudly celebrates the 2016 centennial of *The Journal of Immunology (The JI)*, the largest and oldest journal in the field. In the following pages, we present the remarkable story of its founding and earliest years of publication.

Today, *The JI* offers unparalleled reporting on major advances in immunology research in all areas of experimental immunology, including

- Innate and adaptive immunity
- Inflammation
- Host defense
- Clinical immunology,
- Autoimmunity, and more.

Special sections include Cutting Edge articles, Brief Reviews and Pillars of Immunology.

*The JI* publishes novel findings that are fully peer-reviewed, rapidly published, and broadly cited, making it the working scientist's "first stop" for keeping up with major advances in all areas of experimental immunology. The three-tier review process practiced by *The JI* ensures a fair, in-depth evaluation of each paper. Yet the time from submission to first decision is, on average, less than 29 days and publication online follows acceptance in just four weeks.

*The JI* is cited more than any other immunology journal, and, at 8.6 years, the citation half-life of *The JI* is one of the longest of any journal in the field, indicating that the content is of enduring relevance and importance to the field.

AAI thanks the more than 3,000 practicing immunologists who review manuscripts for *The JI* each year in a conscientious and objective manner. All reviewers and editors of *The JI* are committed to publishing research that is rigorously performed and moves the field forward. The continued high quality of *The JI* depends upon the dedicated service of all of these individuals.

During this milestone year, AAI is featuring on the journal website several fun and informative articles on the history of *The JI* – visit <http://www.jimmunol.org/site/misc/Centennial/Centennial-TOC.xhtml>. With additional articles to be added throughout the year, items currently available include:

- Founding *The Journal of Immunology* (See p.16).
- Publications of Nobel Laureates in *The JI*
- 100 Most Cited Articles in *The JI* (See p.21)
- Editors-in-Chief, Past and Present
- *The JI* Articles Featured in Pillars of Immunology

Visit <http://www.jimmunol.org/site/misc/Centennial/Centennial-TOC.xhtml> in the months ahead to view additional articles as they become available.

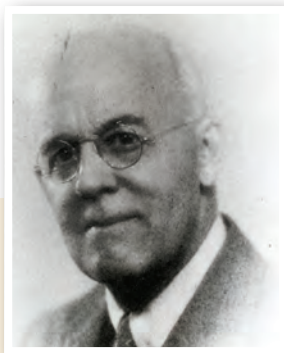


## Founding *The Journal of Immunology*

by John Emrich

The year 2016 marks the centennial year for *The Journal of Immunology* (*The JI*), the preeminent peer-reviewed journal in the field of immunology and the official publication of The American Association of Immunologists (AAI) since 1916. Though long “the jewel in the crown” for AAI, *The JI* did not receive its genesis from within the AAI membership or Council. The request for creation of the journal, in fact, arose from within another society. Thanks to the foresight and organizational skills of A. Parker Hitchens, a founding member and the first chair of the AAI Council, the journal received its association with AAI.<sup>1</sup>

When AAI, in 1915, was presented the opportunity to help found a journal, leaders of the burgeoning professional society were still focused on developing the membership and drafting bylaws. No mention of founding a journal dedicated to immunology appears in the minutes from either their organizational meeting in 1913 at the American Medical Association meeting in Minneapolis, Minnesota, or the first annual meeting in Atlantic City, New Jersey, in 1914. As was the case for many other small societies, the publishing activities of AAI were limited to publishing reports of its meetings in the journal of a larger society. (AAI published its first five annual meeting proceedings in the *New England Journal of Medicine* and *Journal of the American Medical Association*.<sup>2</sup>) The focus of the AAI Council changed quickly, however, in the spring of 1915 with a request from Arthur F. Coca, president of the New York Society for Serology and Hematology (SSH).



**Arthur F. Coca**  
*The American Association of Immunologists, Center for Biological Sciences Archive, UMBC*

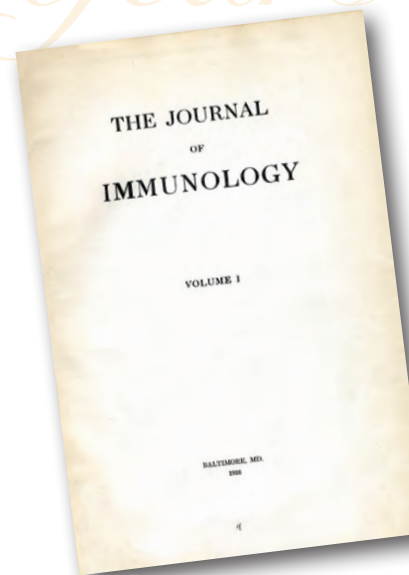
**Arthur F. Coca, M.D. (1875–1959)**, elected to AAI in 1916, was the founder of *The Journal of Immunology* and served as its Editor-in-Chief from 1916 to 1948. In 1949, Coca was named honorary president of AAI, a title that has remained uniquely his through the years. Coca was a faculty member at Cornell University Medical College from 1910 to 1931,

Coca, instructor in pathology and bacteriology at Cornell University Medical College, was spearheading a movement to establish a “Journal of Immunity” modeled on the German journal *Zeitschrift für Immunitätsforschung und experimentelle Therapie*.<sup>3</sup>

Recognizing a potential synergy with the goals of the AAI, Coca reached out to the members of the AAI Council to determine if the society would consider cooperating in founding the journal. It was not wholly surprising that the two societies should cooperate, as they shared many members, and Coca was himself nominated for membership in AAI in 1915.

In his communications with Coca, Hitchens became convinced that a journal “devoted to the branch of medical science represented

attaining the position of full professor in 1924. In 1931, Coca accepted positions as professor of medicine at the New York Postgraduate Medical School at Columbia University (1931–1935) and as the medical director at Lederle Laboratories. He remained at Lederle Laboratories until his retirement in 1949.



*The Journal of Immunology*,  
Volume 1, No. 1  
*The American Association of Immunologists Archive*

1. Before the adoption of the Bylaws and Constitution in 1917, authored by A. Parker Hitchens, the American Association of Immunologists was governed by the president and the Council. The early Council included the position of chair, responsible for making sure the Council carried out its proposals and those of the president. The early Council did not have a line of succession to the presidency, as it would after 1917.
2. “Minutes of First Annual Meeting of the American Association of Immunologists,” June 22, 1914, AAI Archive, Bethesda, MD [hereafter, AAI Archive-Bethesda]. Both the *New England Journal of Medicine* and *Journal of the American Medical Association* regularly published meeting reports and proceedings of smaller scientific and medical associations.
3. A. Parker Hitchens, “Report upon *The Journal of Immunology*,” Annual Council Meeting, June 10, 1916, AAI Archive-Bethesda. *Zeitschrift für Immunitätsforschung und experimentelle Therapie* was first published December 1908.



by this Association was about to be established” with or without any involvement of AAI. It was also clear to Hitchens that Coca’s work on establishing the new journal had progressed far enough that the inaugural issue would be published before the AAI Council could act on any potential arrangement. Furthermore, if such a journal was published without the cooperation of AAI, it would render “superfluous the future publication of an official organ of this Association, and, in this event, our Society would have been seriously handicapped in its future development.”<sup>4</sup>

Hitchens formally presented the idea of the “Journal of Immunity” to Council when it convened in early May at the annual meeting. Most councillors were receptive to the new journal and “thought it a good thing and that the society should cooperate with Dr. Coca in the matter.”<sup>5</sup> Although Council could not be expected to take decisive action immediately on a matter of such consequence, the Council members empowered Hitchens “to represent the society in the negotiation with Dr. Coca”<sup>6</sup> and act for the Council in any negotiations.<sup>7</sup> In Hitchens, the Council could not have made a more apt selection. He was the

*“[I am] of the opinion that there are enough journals now.”*

—James W. Jobling, AAI president, August 5, 1915

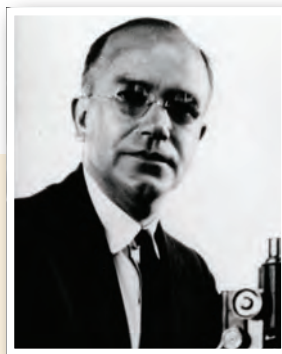
secretary of the Society of American Bacteriology (SAB, now the American Society for Microbiology) and would soon be the first managing editor of the newly founded *Journal of Bacteriology*

(*JB*) as well as the first and only editor of *Abstracts of Bacteriology*.<sup>8</sup> Furthermore, he negotiated the *JB* contract on behalf of SAB with the publisher Williams & Wilkins Company of Baltimore.<sup>9</sup> Despite these crucial early decisions by Hitchens and the AAI Council, it was not a certainty that *The JI* would be the official publication of the association.

The full AAI leadership was not completely convinced of the need for a new journal specializing in immunology. In August, new AAI President James W. Jobling, M.D., professor of pathology at Vanderbilt University, wrote to his past colleague Simon Flexner, director of the prestigious Rockefeller Institute of Medical Research (RIMR), expressing his reservations about the prospects of a new journal.<sup>10</sup> Flexner was an understandable choice, as the renowned William H. Welch had recently transferred ownership and publication of the

1920 for an appointment at the Hygienic Laboratories of the Public Health Service, now the National Institutes of Health, before returning to the Medical Corps, where he remained until his retirement from the Army in 1941 as a lieutenant colonel. He spent the last four years of his professional career in public service, working for municipal and state boards of health.

**Arthur Parker Hitchens, M.D., (1877–1949)** was a founding member of AAI and served in a number leadership positions in the earliest years of the association—first as council chair (1914–1917) and later as a councillor (1918–1921). Hitchens was a staff scientist at H. K. Mulford Company from 1901 until 1918, when he joined the U.S. Army Medical Corp for service in the First World War. Hitchens left the Army for a short time in



**A. Parker Hitchens**  
*The American Association of Immunologists, Center for Biological Sciences Archive, UMBC*

4. Hitchens, “Report upon *The Journal of Immunology*,” 1916, AAI Archive-Bethesda.  
5. “Minutes of Second Annual Meeting of the American Association of Immunologists,” May, 10 1915, AAI Archive-Bethesda.  
6. Ibid.  
7. Hitchens, “Report upon *The Journal of Immunology*,” 1916, AAI Archive-Bethesda.  
8. Arthur Parker Hitchens, M.D. (1877–1949), was the secretary-treasurer for the Society of American Bacteriology (SAB) in the 1910s and 1920s. He also served as vice president (1923) and president (1924) of SAB. The SAB was renamed the American Society for Microbiology in December 1960. The *Journal of Bacteriology* was first published in January 1916 and continues today. *Abstracts of Bacteriology* was published from February 1916 until December 1925.  
9. Claude P. Brown, “Arthur Parker Hitchens, 1877–1949,” *Journal of Bacteriology* 60, no. 1 (1950): 2.  
10. The Rockefeller Institute of Medical Research (RIMR), which opened in 1901, was renamed The Rockefeller University in 1965. Simon Flexner was the first director of RIMR and held the position until 1935.

prestigious *Journal of Experimental Medicine* to RIMR, with Flexner serving as editor, a role he was to fulfill from 1905 to 1946.<sup>11</sup> Though the proposed immunology journal would be “international in character,” Jobling had his doubts that “it would receive sufficient support to justify its existence.” Furthermore, he was “of the opinion that there are enough journals now.” Despite the compelling reasons stated by proponents, Jobling was demonstrably opposed to “any idea leading to the financial responsibility” on the part of the nascent association for fear that initial costs might place serious strain on the finances of the young society.<sup>12</sup>

Jobling, however, chose not to make the long train trip from Nashville, Tennessee, to attend a joint meeting of the councils of AAI and SSH at the new Yale Club in New York City on October 7, 1915. The meeting was scheduled for leaders of the societies to explore production requirements and consider a working relationship for the proposed new journal, now dubbed the “Journal of Immunology.” The AAI Council was represented by Council Chair Hitchens, Vice President George P. Sanborn, Councillor John A. Kolmer, and Secretary Martin J. Synnott. In addition to President Jobling, three councillors and the treasurer elected to miss the meeting.<sup>13</sup> To ascertain the costs associated with the proposed journal, Coca invited representatives from the publishing services company, Williams & Wilkins. The meeting resulted in a positive prospect for the publication of the journal: Coca was

unanimously elected managing editor;<sup>14</sup> a committee to select the board of editors was created; and the advisory board began taking shape.<sup>15</sup>

Despite these positive developments, a large, unresolved issue still loomed over the AAI delegation: how was the society to finance its portion of the publishing costs?

Resources were scarce. AAI Treasurer Willard J. Stone, in a December 28, 1915, letter to Martin Synnott, estimated the association’s portion of the publishing expenses for the first year at \$240, an amount exceeding available funds in the treasury by \$75.<sup>16</sup> With just 58 members, AAI would have to assess each member \$4.00 in addition to their \$5.00 annual dues assessment to cover costs. In addition to imposing such a high fee on member subscribers, the two societies would be required by Williams & Wilkins to cover the deficit guarantee in case sufficient subscription revenues were not reached. The two-and-one-half year-old AAI was in no position at the time either to offset the high subscription fee for members or cover the deficit guarantee required by Williams & Wilkins.

AAI was also constrained from raising dues to expand its financial reserves. The just-drafted bylaws stated, “The dues of the Association shall be fixed annually by the Council and they shall not exceed five dollars.”<sup>17</sup> Although Council soon realized that this cap could not be maintained indefinitely, the \$5.00 maximum



**James W. Jobling, c. 1915**  
*The American Association of Immunologists, Center for Biological Sciences Archive, UMBC*

**James W. Jobling, M.D. (1876–1961)**, elected to AAI in 1914, served the association as its second president (1915–1916) and as a member of *The Journal of Immunology* board of editors from 1916 to 1935. Before his election to AAI, Jobling had worked as a pathologist at Michael Reese Hospital in Chicago from 1909 until moving in 1913

to join the faculty of Columbia University College of Physicians and Surgeons (P&S) as an assistant professor. In 1914, Jobling left P&S to accept a post as full professor of pathology at Vanderbilt University School of Medicine. In 1918, he returned to P&S as professor of pathology, a position he held until his retirement in 1945.

11. Welch founded and edited the *Journal of Experimental Medicine* from 1896 to 1902. He transferred the journal to RIMR in 1902, and publishing was suspended until 1905, as the backlog of all submitted manuscripts needed to be moved from Baltimore and organized and reviewed at RIMR. The position of editor was similar to editor-in-chief today.  
12. James W. Jobling to Simon Flexner, August 5, 1915, Simon Flexner Papers, “Jobling, James W., 1912–1945, Folder 1,” American Philosophical Society, Philadelphia, PA.  
13. Absent from the meeting were Treasurer Willard J. Stone and Councillors Oscar Berghausen, Campbell Laidlaw, and Henry L. Ulrich. Minutes of joint meeting of AAI and SSH Councils, 7 October 1915, AAI Archive-Bethesda.  
14. The position of managing editor was the equivalent to editor-in-chief today.  
15. Minutes of joint meeting of AAI and SSH Councils, October 7, 1915, AAI Archive-Bethesda.  
16. The current balance of the treasury was estimated by Stone to be around \$165. Willard J. Stone to Martin J. Synnott, 28 December 1915, AAI Archive-Bethesda.  
17. The AAI Constitution and Bylaws were ratified in 1917 without an explicit maximum of dues. The proposed Constitution and Bylaws were unanimously adopted at the first annual meeting of the American Association of Immunologists, June, 22 1914; Hitchens, “Report upon *The Journal of Immunology*,” 1916, AAI Archive-Bethesda.

for dues stood as an unofficial ceiling into the 1920s. By providing the official journal of the society to members within their dues, as was typical of learned societies, only \$1.00 of income per member would remain for maintenance of AAI activities. Council members knew that was an insufficient amount “for the maintenance of the Society’s affairs,”<sup>18</sup> notably the annual meeting, which cost the association nearly \$200 in 1915.<sup>19</sup>

Hitchens, however, was able to address both financial challenges without putting the association in financial straits. He proposed making journal subscriptions optional for AAI members and providing members a 20 percent discount on their subscriptions, charging members \$4.00 annually, compared to the \$5.00 assessed non-members in the United States to subscribe.<sup>20</sup> To address the deficit guarantee, he sent out personal letters to “several of the more interested members, offering them the privilege of guaranteeing individually a fraction” of the fund. He quickly received enough positive responses to “assure the publishers of adequate financial support to proceed with the Journal.”<sup>21</sup>

There is no record of the AAI Council holding an official vote approving publication of

**Richard Weil, M.D. (1876–1917)**, elected to AAI in 1914, served the association as its third president (1916–1917), councillor (1917), and member of *The Journal of Immunology* (*The JI*) Board of Editors (1916–1917). A faculty member at Cornell University Medical College from 1911 until his premature death in 1917, Weil wrote the first article published in *The JI*, the 14<sup>th</sup> part in his 17-part “Studies in Anaphylaxis”



**Richard Weil, c. 1915**  
*The American Association of Immunologists, Center for Biological Sciences Archive, UMBC*

series. Weil proceeded to publish parts 16 and 17 of this series in *The JI*. Commissioned into the U.S. Army Medical Corp when the United States entered the First World War in 1917, Weil was appointed chief of medical staff at Camp Wheeler near Macon, Georgia. While attending hospitalized troops there, Weil contracted pneumonia and died on November 19, 1917.

#### SUBSCRIPTION TERMS

The Journal of Immunology will be a bimonthly. Each volume will consist of six numbers and will contain from 500 to 525 pages. The subscription price is \$4.00 to members of the American Association of Immunologists and the New York Society of Serology and Hematology; \$5.00 to non-members in North America; \$5.50 elsewhere. Postage free.

Subscriptions and all business matters should be sent to the Williams & Wilkins Company, 2419–21 Greenmount Avenue, Baltimore, U. S. A.

#### Subscription Terms for *The Journal of Immunology*, 1916

*The American Association of Immunologists Archive*

*The JI*, but President Jobling, during the annual meeting May 11–12, 1916, sent a letter to all AAI members urging them to subscribe to the new journal “devoted to the problems of Immunology.” In the letter, Jobling described the policy of the journal as “to welcome all studies bearing on

the general problems of Immunology as well as to publish the proceedings of our association.”<sup>22</sup>

The inaugural issue of *The JI* was published in February 1916 as a cooperative effort between AAI and the New York Society of Serology and Hematology. The bimonthly journal would serve as the official organ for both organizations. It would also provide demarcation of immunology as a separate field in the medical community and create a locus for immunological research from “the best equipped laboratories in this country and England.”<sup>23</sup>

The first issue of the new journal contained articles on mechanisms of anaphylaxis and immunity and viral and bacterial infections, as well as the scientific proceedings of the December 3, 1915, meeting of SSH. The first article was “Studies in Anaphylaxis: On the Relation between Precipitin and Sensitizin,” by Richard Weil, chair of the Department of Experimental Medicine at Cornell Medical College. In the article, Weil, a founding member

18. A. Parker Hitchens to Martin J. Synnott, February 9, 1916, AAI Archive-Bethesda.

19. Willard J. Stone to Martin J. Synnott, December 28, 1915, AAI Archive-Bethesda.

20. The subscription price for non-members outside of the United States was \$5.50.

21. Hitchens, “Report upon *The Journal of Immunology*,” 1916, AAI Archive-Bethesda.

22. James W. Jobling and Martin J. Synnott to AAI membership, May 11 and 12, 1915, AAI Archive-Bethesda.

23. Announcement of *The Journal of Immunology*, 1916, AAI Archive-Bethesda.

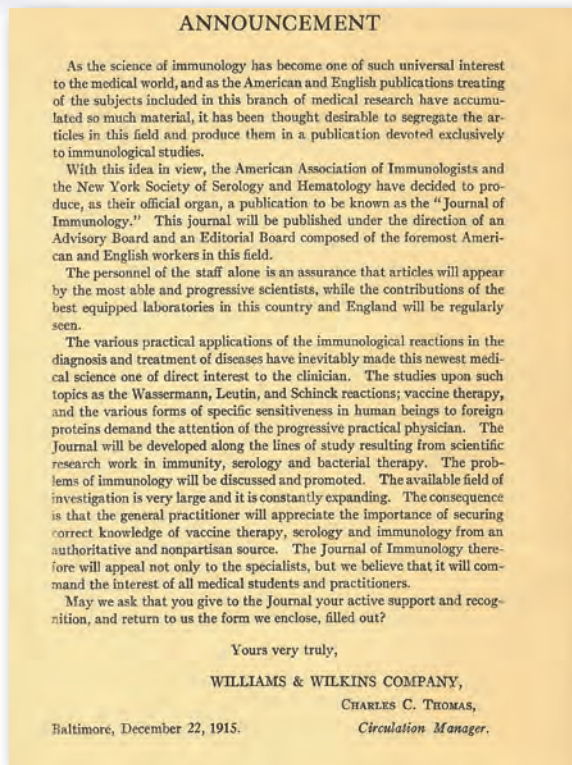


of AAI, a member of SSH, and a member of the board of editors of *The JI*, took a firm stance on the cellular cause of anaphylaxis at a time when the mechanism was hotly debated.

Thirteen months later, Charles Thomas, circulation manager of Williams & Wilkins, sent the AAI Council a promising status update on the new journal. The subscription list of *The JI* had grown to 439 with subscriptions “received from practically every foreign country,” except those of the Central Powers countries of the First World War.<sup>24</sup>

The average number of new subscribers each month had increased to 20 since November 1916, and Thomas predicted that subscriptions should reach 550–600 by the end of the year. His final assessment of the new journal was that it “has a fine future and that it will establish itself on a substantial basis, taking care of its own expenses.”<sup>25</sup>

On March 31, 1920, the AAI Council and SSH Executive Committee met at the home of AAI and SSH President Hans Zinsser in New York City.<sup>26</sup> As SSH “had omitted its monthly meetings for over a year and since the functions of the society had been in a measure superseded by the American Association of Immunologists,” the society wished to merge with AAI. An agreement was reached between the two organizations, and the proposal was put before the SSH membership that summer. On July 27, 1920, a quorum of SSH members voted in the



Announcement of *The Journal of Immunology*, 1916  
*The American Association of Immunologists Archive*

*“I believe that my interest in this direction is engendered by my desire to see the Association of Immunologists on a good, sound and influential basis.”*

-A. Parker Hitchens, February 9, 1916

affirmative that all members in good standing were to be notified that they would become members of AAI unless they had “definite objections.” By the end of the year, SSH had ceased operations, and all but a handful of their members had joined AAI. With the cessation of SSH, AAI became the sole publisher of *The JI*.<sup>27</sup>

Over the years, *The Journal of Immunology* has published many influential articles that have moved the field of immunology forward. In the process, it has fulfilled, if not surpassed, Hitchens’s expressed wishes for the role to be played by the journal: “I believe that my interest in this direction is engendered by my desire to see the Association of Immunologists on a good, sound and influential basis. As I see it, the position I am anxious to have the Association take can scarcely be gained unless the Association has an official organ.”<sup>28</sup>

**Author:** John S. Emrich, Ph.D., AAI Historian

**Contributor:** Kaylene J. Kenyon, Ph.D.,  
*The Journal of Immunology*  
AAI Publication Director

**Editor:** Mary I. Bradshaw, M.A., M.Ed., AAI Senior Director  
of Communications and Development

28. The Central Powers included Germany, Austria, Hungary, Bulgaria, and Ottoman Empire. By March 1917, the war had already been raging across Europe, Russia, and Anatolia for two years and nine months.

29. Charles Thomas to Martin J. Synnott, March 30, 1917, AAI Archive-Bethesda.

30. Hans Zinsser, M.D. (1878–1940), was elected to AAI in 1917, served as its sixth president (1919–1920), and was a member of the board of editors of *The Journal of Immunology* (1916–1940).

31. David J. Kalinsky, secretary of SSH, to the Members of the Society for Serology and Hematology, draft, 1920, AAI Archive-Bethesda.

32. A. Parker Hitchens to Martin J. Synnott, February 9, 1916, AAI Archive-Bethesda.

# Celebrating a Century: Top Ten Most Cited Articles in *The Journal of Immunology*

Serving the immunology community for the last 100 years, *The Journal of Immunology* continues to report novel findings in all areas of experimental immunology. Many articles have proven to be foundational in the field and are cited again and again. Collectively, the top ten most-cited articles have garnered over 30,000 citations!

Number of Citations*	Article
5397	Two types of murine helper T cell clone. I. Definition according to profiles of lymphokine activities and secreted proteins T R Mosmann, H Cherwinski, M W Bond, M A Giedlin, and R L Coffman <i>J Immunol</i> 1986 136:2348-2357
4201	T Cell Growth Factor: Parameters of Production and a Quantitative Microassay for Activity Steven Gillis, Mary M. Ferm, Winny Ou, and Kendall A. Smith <i>J Immunol</i> 1978 120:2027-2032
3808	Immunologic self-tolerance maintained by activated T cells expressing IL-2 receptor alpha-chains (CD25). Breakdown of a single mechanism of self-tolerance causes various autoimmune diseases S Sakaguchi, N Sakaguchi, M Asano, M Itoh, and M Toda <i>J Immunol</i> 1995 155:1151-1164
3207	Rapid Isolation of Antigens from Cells with a Staphylococcal Protein A-Antibody Adsorbent: Parameters of the Interaction of Antibody-Antigen Complexes with Protein A Steven W. Kessler <i>J Immunol</i> 1975 115:1617-1624
3161	Cell cycle analysis of a cell proliferation-associated human nuclear antigen defined by the monoclonal antibody Ki-67 J Gerdes, H Lemke, H Baisch, H H Wacker, U Schwab, and H Stein <i>J Immunol</i> 1984 133:1710-1715
2773	Enzyme-Linked Immunosorbent Assay, Elisa: III. Quantitation of Specific Antibodies by Enzyme-Labeled Anti-Immunoglobulin in Antigen-Coated Tubes Eva Engvall and Peter Perlmann <i>J Immunol</i> 1972 109:129-135
2487	Induction by IL 1 and interferon-gamma: tissue distribution, biochemistry, and function of a natural adherence molecule (ICAM-1) M L Dustin, R Rothlein, A K Bhan, C A Dinarello, and T A Springer <i>J Immunol</i> 1986 137:245-254
2485	Release of reactive nitrogen intermediates and reactive oxygen intermediates from mouse peritoneal macrophages. Comparison of activating cytokines and evidence for independent production A H Ding, C F Nathan, and D J Stuehr <i>J Immunol</i> 1988 141:2407-2412
2340	Application of a Microtechnique to Viral Serological Investigations John Louis Sever <i>J Immunol</i> 1962 88:320-329
2227	Cutting Edge: Toll-Like Receptor 4 (TLR4)-Deficient Mice Are Hyporesponsive to Lipopolysaccharide: Evidence for TLR4 as the Lps Gene Product Katsuaki Hoshino, Osamu Takeuchi, Taro Kawai, Hideki Sanjo, Tomohiko Ogawa, Yoshifumi Takeda, Kiyoshi Takeda, and Shizuo Akira <i>J Immunol</i> 1999 162:3749-3752

\* Data from *Web of Knowledge* as of September 17, 2015.

# Inaugural Class of AAI Careers in Immunology Fellowship Program Reports Success

A financial boost given to a laboratory facing an interruption in funding can yield benefits beyond a research group's immediate productivity. The AAI Careers in Immunology Fellowship Program (CIFP), which provides one year of trainee salary support to AAI member PIs with demonstrable financial need, offers proof of this concept, as is evinced in reports by the 37 members of the inaugural class of AAI CIFP fellows.

The awardees included investigators from institutions across the United States and Canada, whose research ranged from the study of evoking insulin production from induced pluripotent stem cells to modulating autophagy via microRNAs. PIs of every career stage, from assistant to full professors, participated in the program, which provided salary support for trainees of diverse scientific backgrounds, including M.D., Ph.D.; D.V.M., Ph.D.; and Ph.D. students and postdoctoral fellows. Funding for the 2014 class concluded this past September, and both PI and trainee recipients reported that the fellowship program provided a much-needed financial windfall at critical junctures in their research programs or careers.

Many of the fellows used the program as a springboard for applications for other funding mechanisms. Nathan Schuldt (AAI '13), postdoctoral fellow at the University of Minnesota, gathered data during his fellowship year to strengthen an application for an NIH grant, saying, "The AAI Careers in Immunology Fellowship provided me with crucial support



*Nathan Schuldt*

that allowed me to continue my research and bridge the gap between being supported by my PI's NIH grants and obtaining my own funding. During my fellowship year, I was able to generate valuable data that became the core of an F32 application."

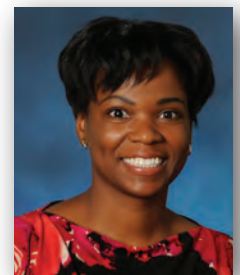
Mark Lang (AAI '00), associate professor at the University of Oklahoma Health Sciences Center, also found the AAI Careers in Immunology Fellowship that supported his trainee Pragya Rampuria (AAI '13) to be a boon for productivity in the lab. "This fellowship has helped maintain the productivity of our group and provided valuable data for two new manuscripts, two national level funding proposals, and one state level funding proposal."



*Mark Lang*

Other PIs and trainees also capitalized on the opportunity that the fellowship afforded them to focus on generating data to strengthen funding proposals. Overall, 60 percent of PIs funded by the fellowship program in 2014 submitted grant applications during the fellowship year, and 40 percent were successful in obtaining funding. Twenty-one percent of those who received funds were awarded an NIH R01, R21, or R56 grant.

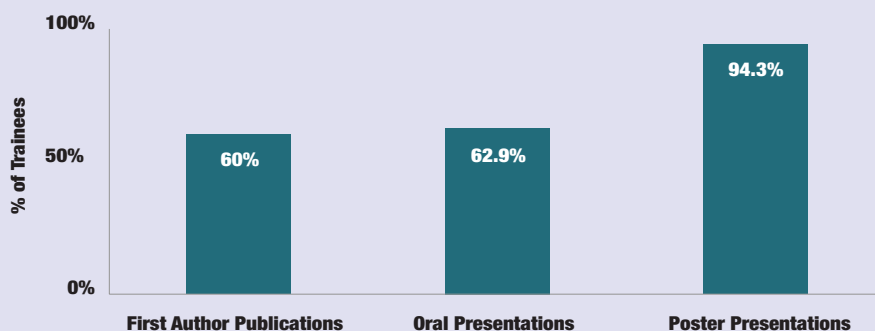
Several investigators attributed their success in securing additional research funds, at least in part, to their receipt of an AAI Careers in Immunology Fellowship. Tonya Webb (AAI '10), assistant professor at the University of Maryland School of Medicine,



*Tonya Webb*

agreed, saying, "This fellowship provided greatly needed bridge support for my trainee to continue working in the lab so I could have the opportunity to apply for and obtain additional support. During the fellowship year, I was able to apply for and receive two foundation awards and two NIH R21 awards."

**2014 Fellowship Trainee Achievements**



Fellowship recipients achieved success in other ways as well (Figure 1). Seventy-eight percent of PI and 60 percent of trainee participants published primary research articles during or immediately following the conclusion of the fellowship year, writing on topics from requirements for ICOS signaling in type 2 cytokine-producing innate lymphoid cells to the importance of IL-17 receptor alpha in the pathogenesis of autoimmune glomerulonephritis.

Nearly all trainees involved in the 2014 program presented at least one poster at a scientific conference, and 63 percent of these individuals gave both an invited oral presentation as well as a poster presentation (Figure 2). Mia Tazi (AAI '14), a graduate student at Ohio State University, recounted how the award has helped her career development, stating, "This award provided me with the freedom to address prevailing questions in the cystic fibrosis research field. I was invited to present the research conducted during my fellowship year at a number of conferences, where I was able to cultivate my presentation skills, establish collaborations, and answer thought-provoking questions from my colleagues."

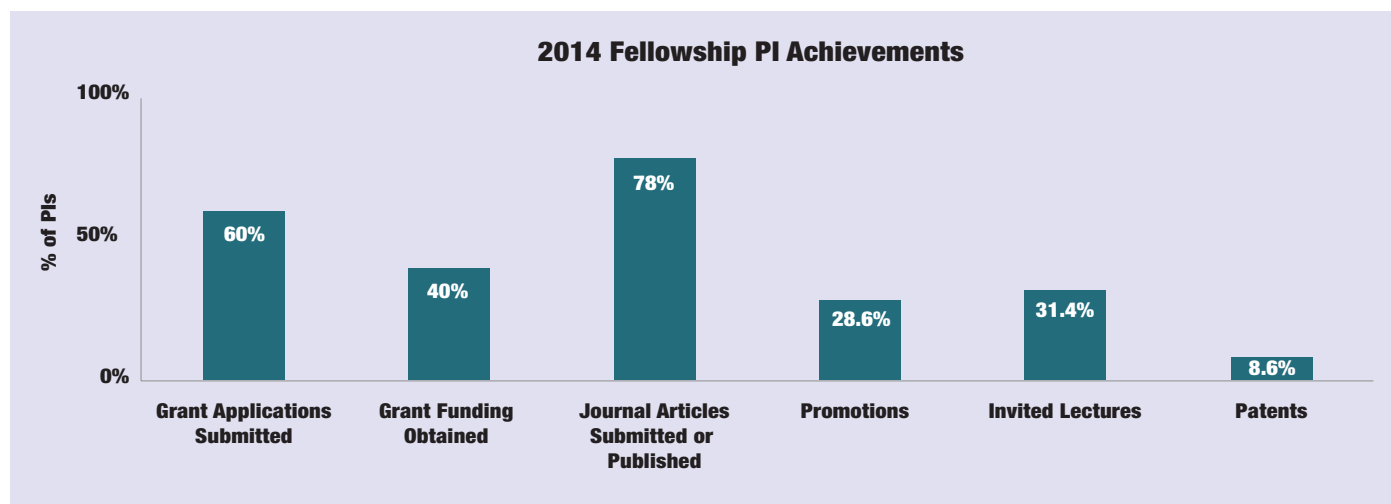


Mia Tazi

Additionally, approximately 30 percent of faculty fellowship awardees received promotions within their institutions, and a similar proportion gave invited lectures during the fellowship year. Nine percent of fellowship recipients filed patents, including intellectual property for T cell receptor alpha locus control region regulatory cassettes, CD23-mediated therapy against allergic inflammation, and IgE Fc-coupled compounds for use in therapeutics.

The CIFP was launched by AAI in 2014 in response to the decrease in federal funding for laboratories. This program more than doubled funding for all career development awards and training supported by AAI by providing an additional \$1.2 million. The fellowship program and other AAI career development awards support over 1,000 scientists each year.

Applications for the 2016 AAI Careers in Immunology Program will be accepted until March 15, 2016. For full eligibility details and to apply, please visit <https://aai.org/Awards/CIIF.html>.



# AAI Outreach Program Update

In its sustained commitment to promoting the career development of promising young scientists, AAI provided support for awards and sessions at the recent Autumn Immunology Conference and awards for the American Association of Veterinary Immunologists at the Conference of Research Workers in Animal Diseases

## Autumn Immunology Conference (AIC)

Nearly 600 scientists attended the 44th annual AIC, held November 20–23, 2015, in Chicago. Conference Chair Michael Farrar (AAI '00) resided over the meeting, which included symposia convened by AAI members Mark Kaplan (AAI '98), Patrick Wilson (AAI '03), and Farrar. Presenters spoke on topics ranging from T helper cells to broadly neutralizing antibodies.

AAI sponsored a new career-development roundtable event to open the meeting. In this “Meet the Speakers” session, trainees met with academic investigators and other immunology professionals to discuss a variety of topics, including how to write effective grant applications, structure a successful postdoctoral fellowship application, apply and interview for faculty positions, and survive the first few years of the tenure track. Participants also explored



*AAI Young Investigator Awardees with AAI Science Liaison Elizabeth Walsh (bottom row, far right) and AAI Membership Chair Tom Mitchell (second row from bottom, second from right)*

networking strategies and careers outside academia. Two AAI staff scientists, Elizabeth Walsh, science liaison, and Mary Litzinger, manager of educational and career-development programs, hosted tables.

Litzinger also attended the Wallace Luncheon for recipients of John Wallace Fellowships, awards to promote the

participation of minority students in the sciences. The luncheon was chaired by Rafael Fernandez-Botran (AAI '88) and was attended by other AIC Councilors, including Rebecca Shilling (AAI '11) and Charlotte Vines (AAI '05), as well as NIAID Section Chief Joseph Breen. All of the mentors provided career-development advice to the awardees on a range of topics, such as how to cope with



*AAI Undergraduate Investigator Awardees with AAI staff member Elizabeth Walsh (bottom row, far right), AAI Membership Committee Chair Tom Mitchell (bottom row, second from right), and AIC Undergraduate Program Coordinator Heather Bruns (bottom row, third from right)*

insufficient mentorship and how to balance career and family successfully. Litzinger provided the fellows with information about AAI career-development programs and events, including travel awards to IMMUNOLOGY 2016™, to be held May 13–17 in Seattle, the AAI Careers in Immunology Fellowship Program, and the AAI Public Policy Fellows Program.

AAI continued its sponsorship of the Careers in Immunology Undergraduate Workshop, directed by Heather A. Bruns (AAI '05), AIC undergraduate program coordinator. This annual workshop provides opportunities for undergraduate students involved in or interested in research to learn about scientific career opportunities in immunology. The panel this year featured representatives from large and small universities, industry, and an M.D., Ph.D. program. The panelists were John Hackett from Abbott Laboratories, Jonathan Katz (AAI '96) from the Cincinnati Children's Hospital and the University of



*Careers in Immunology Undergraduate Workshop panelists relaxing before the session*



Cincinnati, Xunrong Luo (AAI '12) from the Feinberg School of Medicine at Northwestern University, Aldo Vacaflores Salinas (AAI '14), a graduate student at the University of Iowa, and Charlotte Vines (AAI '05) from the University of Texas–El Paso. The panelists provided information about their career paths and the ways their backgrounds in immunology helped them achieve their professional goals. After the workshop, graduate program representatives met with students to provide them with additional information about the field of immunology and answer questions about their own institutions and programs.

AAI, for the fifth year, provided 18 awards in support of the career development of graduate students and postdoctoral fellows. Thomas Mitchell (AAI '01), chair of the AAI Membership Committee, presented the awards. Recipients of the AAI Young Investigator Award were Hao Wu (Indiana University School of Medicine); Erik Anderson (Mayo Clinic); Lucas Loffredo (Northwestern University); Dana Bryazka, Cara Hrusch, Jennifer Jacobsen, Yuk Man Kevin Lei, and Sean McConnell (University of Chicago); Carolyn Rydyznski (University of Cincinnati); Farah Itani, Kyp Oxley, and Rahul Vijay (University of Iowa); Peter Chockley and Melissa Scola (University of Michigan); David Owen (University of Minnesota); Sydney Blevins (University of Notre Dame); Ryan Zander (University of Oklahoma Health Sciences Center); and Akshat Sharma (University of Wisconsin).



*AAI Science Liaison Elizabeth Walsh and AAI Manager of Educational and Career Development Programs Mary Litzinger*

New for 2015, AAI sponsored five AAI Undergraduate Investigator Awards that were given to undergraduate students presenting outstanding posters at AIC. The awardees were Garrett Hamblin and John Hancock (Brigham Young University), Shweta Hosakoppal (Northwestern University), Dre Steinwehr (North Dakota State University), and Yesen Zhou (University of Michigan).

AAI staff hosted a booth in the Exhibit and Poster Hall. There, Walsh and Litzinger provided AIC attendees with information about AAI programs that could benefit their career development and research.

## American Association of Veterinary Immunologists (AAVI)

The AAVI, again in 2015, hosted a scientific session and student abstract competition at the Conference of Research Workers in Animal Diseases meeting, held December 4–6 in Chicago. Crystal Loving (AAI '13) presided over the proceedings, including the AAVI mini-symposium on the interactions between the mucosal immune system and the microbiota. The session featured a lecture by AAI member Randy

Sacco (AAI '89), entitled, “Inflammatory mediator expression in lung epithelial cells and T cells: roles in immunopathogenesis associated with respiratory syncytial virus infection in calves.”

For the fourth consecutive year, AAI provided support for the AAVI Student Presentation Competition, sponsoring three oral and three poster presentation awards. The competition, which drew participants from four countries, featured presentations on a vast range of subjects from brucellosis in dogs to methodology for the inactivation of the porcine reproductive and respiratory syndrome virus to help develop a vaccine. AAI oral presentation awardees were Jean-Philippe Auger (University of Montreal, first place), Vengai Mavangira (Michigan State University, second place), and Meredith Frie (Michigan State University, third place). Poster presentation winners were Calvin Pohl (Michigan State University, first place), Yulia Burakova (Kansas State University, second place), and Aldo Morales-Aguilar (Universidad Nacional Autónoma de México, third place).



*Awardees of the AAVI Student Presentation Competition with AAVI President Crystal loving (2nd from right) and AAVI Student Awards Chair Renukaradhya Gourapura (far right)*

## AAI Engages Trainees at 2015 ABRCMS Meeting

In its outreach to early-career scientists and trainees, AAI participated in the 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS) meeting in Seattle, November 11-14. At the AAI booth in the exhibit hall and, AAI member and staff representatives together engaged attendees in discussions about their research and the many career enhancing programs and opportunities available to established and aspiring immunologists through AAI.

Some 2,300 participants, predominantly undergraduate and graduate students as well as postdoctoral trainees, gathered at the ABRCMS meeting, where attendees presented abstracts in 13 scientific areas including immunology, cell biology, microbiology, developmental biology, and cancer biology.

AAI outreach at ABRCMS was led by Cherié L. Butts, AAI '03, chair of the AAI Minority Affairs Committee (MAC) and associate director of program leadership at Biogen. Accompanying her at the AAI booth were Michael Cuddy, AAI staff liaison to the MAC, and Jennifer Woods, AAI membership manager. Together, they met and inquired of ABRCMS' attendees about their scientific pursuits and ambitions while sharing information about AAI, including the benefits of membership, opportunities for attending and presenting at the AAI annual meeting, highlights of the 2016 AAI meeting program ([www.IMMUNOLOGY2016.org](http://www.IMMUNOLOGY2016.org)), and other AAI programs and activities.

"ABRCMS is an excellent meeting for early-career scientists," said Betts, "as it provides a friendly setting in



AAI MAC Chair Cherié Butts (left) and AAI Membership Committee member Bolaji Thomas (second from left) engage immunology poster presenter in the ABRCMS exhibit hall

which to receive feedback on experimental results. It also offers professional development sessions to prepare attendees for successful interactions at more intensive, larger scientific conferences. And it presents an important opportunity to cultivate a broader understanding of the vital role professional societies play in the careers of new and established investigators."

AAI representatives gave particular emphasis

to association offerings most relevant to early-career scientists and trainees, including trainee travel awards to the AAI meeting and courses, free AAI annual meeting registration for undergraduate students, and eligibility, for undergraduates whose teacher is an AAI member, for Undergraduate Faculty Travel Grants.

Attendees also learned about AAI Minority Affairs Committee activities, geared to fostering the career development of underrepresented minorities in science. Particular emphasis was given to the dual MAC sessions—Careers Roundtable & Speed Networking Session and AAI Vanguard Lecture, presented by a minority member investigator—held annually at the AAI meeting. Also spotlighted was the AAI List of Minority Members network, to promote networking and mentoring opportunities and participation in other professional service activities.

Additional AAI members present along "exhibit row" helped introduce attendees to AAI and the benefits of membership. They included AAI Membership Committee member Bolaji Thomas, AAI '06 (attending on behalf of



At oral immunology presentation: presenter Alejandro Sanoja, judge and immunology presentations chair Avery August, judges Laura Kasman and Devavani Chatterjea, presenter Natalie Hamilton



Along exhibit row: AAI MAC Member Robert Binder (image at left), ABRCMS attendees

the FASEB Maximizing Access to Research Careers Peer and Faculty Mentors Network) and AAI Minority Affairs Committee member Robert J. Binder, AAI '02 (attending on behalf of the University of Pittsburgh).

A number of AAI members served as judges of immunology abstracts presented at the meeting:

- Avery August, AAI '99, Cornell University (chair of immunology judges)
- William Carr, AAI '07, Medgar Evers College, City University of New York
- Devavani Chatterjea, AAI '03, Macalester College
- Harlan Jones, AAI '16, University of North Texas Health Science Center
- Michael Krangel, AAI '90, Duke University
- Robin G. Lorenz, AAI '96, University of Alabama at Birmingham
- Jennifer M. Lund, AAI '11, Fred Hutchinson Cancer Research Center, University of Washington

Beyond the exhibit hall, AAI representatives engaged attendees in other session and event settings, including the plenary mealtime gatherings held throughout the meeting. These featured presentations by the following speakers:

- Hannah Valentine, Chief Officer for Scientific Workforce Diversity, NIH
- Linda B. Buck, Howard Hughes Medical Institute Investigator, Fred Hutchinson Cancer Research Center



*Greeting AAI booth visitors, AAI representatives (L-R) Cherié Butts, Jennifer Woods, and (overlay, with Butts) Michael Cuddy*

- Jon R. Lorsch, Director, National Institute of General Medical Sciences, NIH
- David Quammen, National Magazine Award winning author of books on the Ebola and AIDS epidemics and other works on zoonotic diseases
- Patricia E. Molina, Richard Ashman Professor and head of the Department of Physiology, Louisiana State University Health Sciences Center
- Nontombi Naomi Tutu, human rights and social justice advocate and daughter of Archbishop Desmond Tutu (keynote address)

The 2016 ABRCMS meeting will be held November 9 – 12 in Tampa, Florida.

## AAI Career Advisory Board

Starting your first lab? Facing new and puzzling issues? If so, you probably wish to turn to a more senior scientist for guidance—but perhaps not one at your own institution. The AAI Career Advisory Board (CAB) is tailored specifically for you.

The CAB is a referral service to match early faculty who submit requests for guidance on specific career issues with more senior PIs having experience and insight in those areas, excluding members of your own faculty. You may also specify individuals not to be contacted on your behalf.

**Eligibility:** Although the CAB is sponsored by the Committee on the Status of Women, it is open to all early-faculty AAI members, both men and women.

**Advisors:** A pool of senior scientists—men and women—are volunteering to be “on call.” Topics include recruiting, handling personnel issues, timing for first grant submissions, building networks, teaching, balancing family and work, serving on NIH study sections, and more.



Visit [www.aai.org/CAB.html](http://www.aai.org/CAB.html) to submit a request.



AAI gratefully acknowledges the members below for their generous contributions.

# AAI Member Donations

October 30, 2014 to December 31, 2015\*  
Number of Contributors: 453

Member donations support the many awards and travel grants, as well as the educational, career, and advocacy programs, sponsored by AAI on behalf of its membership.

\* This year's list reflects the AAI transition from recording/reporting annual donations on a "membership year" basis (November 1 through October 31) to doing so on a "calendar year" basis (January 1 through December 31). The transitional list presented this year includes many donors who contributed twice during the extended period covered by the list (i.e., they contributed late in 2014 and again in 2015). These donors appear in *italics* and are listed according to the amount of their combined contributions.

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## AAI 2016 Introductory Course in Immunology

July 9–14, 2016 • Long Beach Convention Center  
Long Beach, California

This comprehensive two-part course provides an in-depth overview of the basics of immunology.

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July 31–August 5, 2016 • Seaport World Trade Center  
Boston, Massachusetts

This intensive course is directed toward advanced trainees and scientists who wish to expand or update their understanding of the field.

For more information visit [www.aai.org/Education/Courses](http://www.aai.org/Education/Courses)  
Please direct inquiries to [meetings@aai.org](mailto:meetings@aai.org) or 301-634-7178.



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# 2016 Introductory Course in Immunology

July 9–14, 2016 • Long Beach Convention Center, Long Beach, California

Director: Juan Carlos Zuñiga-Pflücker, Ph.D.  
University of Toronto and Sunnybrook Research Institute

## Don't miss the most comprehensive introduction to immunology available!

This intensive two-part course, taught by world-renowned immunologists, provides a comprehensive overview of the basics of immunology. This course is for students new to the discipline or those seeking more information to complement general biology or science training. **Part I (July 9–11)** is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. **Part II (July 12–14)** is a clinically oriented lecture series focusing on specialty areas.

Parts I and II may be taken independently at the discretion of the student.

## Faculty

**Juan Carlos Zuñiga-Pflücker**, *University of Toronto and Sunnybrook Research Institute*  
*Introduction to the Immune System*

**Lewis L. Lanier**, *University of California, San Francisco*  
*Innate Immunity: Introduction to the Cells*

**Deborah A. Fraser**, *California State University Long Beach*  
*Complement*

**Wendy L. Havran**, *The Scripps Research Institute*  
*Introduction to Adaptive Immunity*

**Nilabh Shastri**, *University of California, Berkeley*  
*Antigen Processing and Presentation*

**Juan Carlos Zuñiga-Pflücker**, *University of Toronto and Sunnybrook Research Institute*  
*MHC Restriction and Thymic Selection*

**David Nemazee**, *The Scripps Research Institute*  
*B Cell Development and Maturation*

**Shannon J. Turley**, *Genentech, Inc.*  
*Dendritic Cells: The Bridge Between Innate and Adaptive Immunity*

**Michael Croft**, *La Jolla Institute for Allergy and Immunology*  
*Effector T Cell Differentiation and Response*

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**Arthur Weiss**, *University of California, San Francisco*  
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*Mucosal Immunology*

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*Type 2 Immunity*

**Linda A. Sherman**, *The Scripps Research Institute*  
*Tumor Immunology*

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*Immunity to Bacterial Pathogens*

**Steven M. Varga**, *University of Iowa*  
*Immunity to Viruses*

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*Immunologic Memory*

**Nicole Frahm**, *Fred Hutchinson Cancer Research Center*  
*Vaccination*

**Jennifer M. Puck**, *University of California, San Francisco*  
*Genetic Approaches to Immune-Mediated Diseases*

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

## Also included will be lectures on:

*Innate Immunity: Introduction to Pattern Recognition and Intracellular Signaling*

*Cytokines*

*T and B Cell Tolerance*

For complete course details and registration, visit: [www.aai.org/Education/Courses](http://www.aai.org/Education/Courses)

For assistance, contact (301) 634-7178 or [meetings@aai.org](mailto:meetings@aai.org). Overseas applicants are advised to apply early for visas; for details, visit [www.aai.org/Education/Courses/Visa.html](http://www.aai.org/Education/Courses/Visa.html).

# GRANT AND AWARD DEADLINES

## February 24

### ASTMH Benjamin Kean Travel Fellowship in Tropical Medicine

- **Prize/Award:** Multiple awards of \$1,000 living expenses stipend plus air travel to and from fellowship site in support of medical students interested in tropical medicine and global health
- **Eligibility:** Full-time students in accredited schools of medicine in the United States or Canada proposing to undertake tropical medicine research electives or clinical training of at least one month's duration, to commence on or after June 1, 2016, at sites located in areas afflicted by diseases or illnesses common in the tropics
- **Details:** <http://www.astmh.org/ASTMH/media/Documents/2016-Kean-Guidelines.pdf>
- **Contact:** Chandy John, M.D., Chair, Fellowship Committee: (317) 274-8940; johnsore@iu.edu

## March 1

### AAI Member Travel Grants to ICI 2016

- **Prize/Award:** As many as 400 travel grants of up to \$2,500 each to support AAI member travel—airfare, registration, and other travel-related costs—associated with attending ICI 2016, August 21-26, Melbourne, Australia
- **Eligibility:** AAI trainee, associate, or regular members in good standing for 2016 who were AAI members in good standing in 2015 and are an author on an abstract submitted to ICI 2016; preference will be given to applicants with no more than \$250,000 in total research funding from all sources (excluding PI salary)
- **Details:** [www.aai.org/awards](http://www.aai.org/awards)
- **Contact:** AAI: (301) 634-7178; awards@aai.org

## March 1

### Albany Medical Center Prize in Medicine and Biomedical Research

- **Prize/Award:** Annual prize of \$500,000 to recognize and support extraordinary and sustained contributions to improved health care and innovative biomedical research that demonstrably facilitates improvements in patient care

- **Eligibility:** Physicians and scientists who (1) merit recognition, individually or collectively, for substantial achievement of national or international importance in medicine or biomedical research, and (2) are positioned to utilize award funding in pursuit of further, significant advancements in the awarded field of endeavor
- **Details:** [http://www.amc.edu/academic/AlbanyPrize/upload/AlbanyPrize2016\\_nominations\\_101315.pdf](http://www.amc.edu/academic/AlbanyPrize/upload/AlbanyPrize2016_nominations_101315.pdf)
- **Contact:** (518) 262-8043; AMCprize@mail.amc.edu

## March 1

### AAAS Martin and Rose Wachtel Cancer Research Award

- **Prize/Award:** Cash award of \$25,000; publication of awardee essay in *Science Translational Medicine*; invitation to present public lecture on their research
- **Eligibility:** Early-career investigators in receipt of their doctoral degree within the past 10 years who merit recognition for outstanding work in cancer research
- **Details:** <http://www.aaas.org/page/aaas-martin-and-rose-wachtel-cancer-research-award>
- **Contact:** [wachtelprize@aaas.org](mailto:wachtelprize@aaas.org)

## March 4

### Lymphoma Research Foundation Mantle Cell Lymphoma (MCL) Correlative Studies Support Initiative

- **Prize/Award:** Awards of \$50,000 in funding of up to 18 months in support of correlative studies in MCL, including studies to complement existing or recently completed MCL research projects; proposed research may test a new hypothesis based on initial findings, contribute to advanced understanding of MCL diagnosis/treatment/outcomes, or have direct clinical relevance/involvement or include primary MCL patient samples or data
- **Eligibility:** : Principal investigators of any citizenship who have an academic faculty appointment and will be based at non-profit organizations or institutions in the United States or Canada for the duration of the grant period
- **Details:** [lymphoma.org/grants](http://lymphoma.org/grants)
- **Contact:** [researchgrants@lymphoma.org](mailto:researchgrants@lymphoma.org)



## March 8

### Keio Medical Science Prize 2016

- **Prize/Award:** To prizes of 10 million yen each, accompanied by a certificate of merit and award medal, in recognition of outstanding and creative achievements in medical and life sciences research—whether in basic or clinical medicine or life sciences research closely related to medicine—with particular emphasis on achievements contributing to scientific developments in medicine
- **Eligibility:** Individual investigators of any nationality who are active in, and expected to make future contributions to, their field of research
- **Details:** <http://www.ms-fund.keio.ac.jp/prize/>
- **Contact:** +81-3-5363-3609; [k-nomination@adst.keio.ac.jp](mailto:k-nomination@adst.keio.ac.jp)

## March 9

### Burroughs Wellcome Fund Innovation in Regulatory Science Award

- **Prize/Award:** To stimulate research in regulatory science, awards of up to \$500,000 over five years to academic investigators developing new methodologies or innovative approaches in regulatory science that offer the promise of ultimately informing the decisions of the FDA and other regulatory bodies
- **Eligibility:** U.S. and Canadian citizens or permanent residents with a faculty or adjunct faculty appointment at a North American degree-granting institution
- **Details:** <http://www.bwfund.org/grant-programs/regulatory-science/innovation-regulatory-science>
- **Contact:** (919) 991-5100; [rustykelly@bwfund.org](mailto:rustykelly@bwfund.org) or [ttaylor@bwfund.org](mailto:ttaylor@bwfund.org)

## March 15

### AAI Careers in Immunology Fellowships

- **Prize/Award:** Multiple awards in support of the laboratories of AAI member principal investigators (PIs), each providing one year's salary for a graduate student or postdoctoral fellow working in the PI's lab
- **Eligibility:** AAI member PIs with less than \$250,000 (excluding PI's salary) in annual direct costs who seeks salary support for an AAI member trainee working in the PI's lab
- **Details:** [www.aai.org/Awards/CIIEhtml](http://www.aai.org/Awards/CIIEhtml)
- **Contact:** [fellowships@aai.org](mailto:fellowships@aai.org)

### Rolling deadline (nominations accepted year round)

### 2017 Golden Goose Awards

- **Prize/Award:** Recognition of individuals or groups whose federally funded research has led to demonstrable, significant human or economic benefits, foreseen or otherwise; includes research that may have appeared unusual or obscure, sounded “funny,” or whose value may have been questioned originally—but which led, even serendipitously, to scientific or technological breakthroughs of transformational societal impact
- **Eligibility:** Individual investigators or teams nominated by one or more colleagues for achievements demonstrating the benefits of federally funded scientific research and highlighting that scientific outcomes build upon each other and that resulting technological advances cannot necessarily or easily be predicted at a project's outset
- **Details:** <http://www.goldengooseaward.org/nominations/>
- **Contact:** [info@goldengooseaward.org](mailto:info@goldengooseaward.org)





The American Association of Immunologists

# Future AAI Annual Meetings

Mark Your Calendar for the Premier Annual Immunology Event!

# 2016



IMMUNOLOGY 2016™

May 13–17  
Seattle, Washington

# 2017

IMMUNOLOGY 2017™

May 12–16  
Washington, D.C.



# 2018



IMMUNOLOGY 2018™

May 4–8  
Austin, Texas

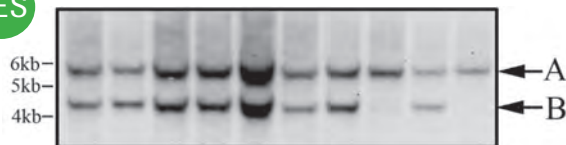
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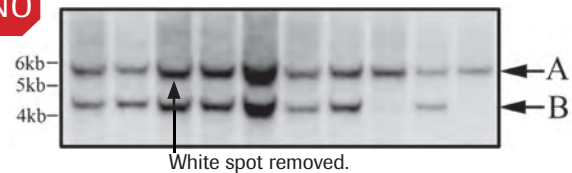
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YES

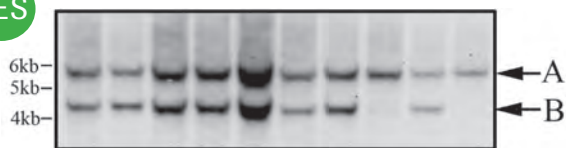


NO



## 2. Do not use excessive contrast that removes background.

YES

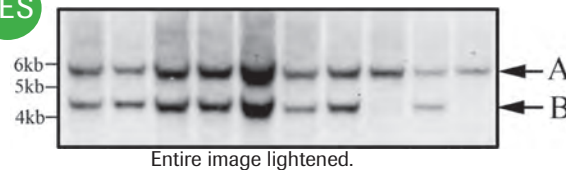


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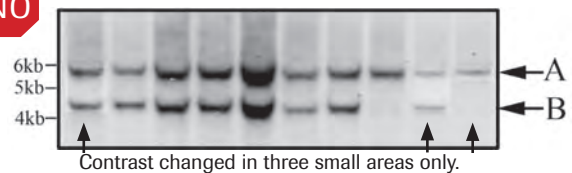


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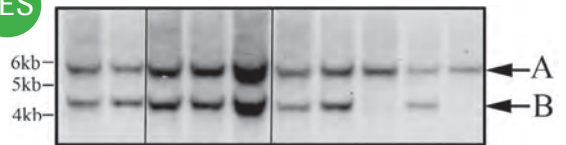
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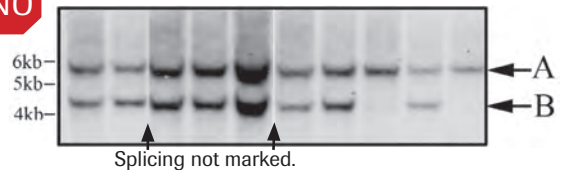
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Images from different experiments should not be spliced to form a new single image.

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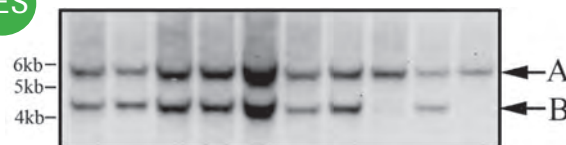


NO



## 5. Crop gels and blots conservatively, retaining important bands.

YES



NO



- All images submitted to *The Journal of Immunology* must accurately represent the original data.
- Original data (digital files, autoradiographs, films, etc.) for all experiments should be fully annotated, secured, and retrievable for up to 10 years.
- The original image file (raw data file) should be kept in an unprocessed and non-compressed file format.
- Figures that are compiled into multi-figure panels should be kept individually.

# Meetings and Events Calendar

Mark Your Calendar for These Important Dates!

## 2016

### March 6–9, 2016

**5th Conference of the South African Immunology Society**  
Glenburn Country Hotel and Spa  
Muldersdrift, South Africa  
[www.saimmunology.org.za/](http://www.saimmunology.org.za/)

### April 2–6, 2016

**Experimental Biology (EB) 2016 (APS, ASPET, ASIP, ASN, AAA, ASBMB)**  
San Diego Convention Center  
San Diego, CA  
[www.experimentalbiology.org/](http://www.experimentalbiology.org/)

### April 2–6, 2016

**29th Annual Canadian Society of Immunology Spring Meeting**  
The Westin Hotel  
Ottawa, Ontario  
[www.csi-sci.ca/scientific\\_meeting\\_2016.html](http://www.csi-sci.ca/scientific_meeting_2016.html)

### April 6–10, 2016

**10th International Congress on Autoimmunity**  
Leipzig, Germany  
<http://redirect.kenes.com/o01Ht00kj005wQ0nAKUhOJ0>

### April 13–14, 2016

**Disease Drivers of Aging: 2016 Advances in Geroscience Summit**  
New York Academy of Sciences  
New York, NY  
[www.nyas.org/events/default.aspx](http://www.nyas.org/events/default.aspx)

### April 15–17, 2016

**American Physician Scientists Association 12th Annual Meeting**  
The Fairmont Chicago Millennium Park  
Chicago, IL  
<http://meeting.physicianscientists.org/>

### April 18–20, 2016

**2016 Annual Conference on Vaccine Research**  
Baltimore, MD  
<http://www.nfid.org/acvr>

### May 13–17, 2016

**IMMUNOLOGY 2016™  
AAI Annual Meeting**  
Seattle, WA  
[www.immunology2016.org/](http://www.immunology2016.org/)

### June 2–3, 2016

**Postdoctoral Preparation Institute: Career Transitions, sponsored by the FASEB MARC Program through a grant from NIGMS, NIH**  
Bethesda North Marriott Hotel & Conference Center  
Bethesda, MD  
<http://twdprograms.org/>

### June 2–5, 2016

**Eastern Allergy Conference**  
The Breakers  
Palm Beach, FL  
[www.easternallergyconference.org](http://www.easternallergyconference.org)

### June 3, 2016

**immunologyLA**  
The Skirball Cultural Center  
Los Angeles, CA  
[www.immunologyla.com/](http://www.immunologyla.com/)

### June 5–9, 2016

**ThymUS 2016**  
Wailea Marriott Beach Resort & Spa  
Maui, HI  
[www.thymusmeeting.org/2016/](http://www.thymusmeeting.org/2016/)

### June 6–11, 2016

**Development and Homeostasis of Skeletal Muscle in Health and Disease**  
Asilomar Conference Grounds  
Pacific Grove, CA  
[www.musclebiology.org/](http://www.musclebiology.org/)

### June 16–19, 2016

**Regulatory Myeloid Suppressor Cells Conference**  
The Wistar Institute  
Philadelphia, PA  
[www.myeloidsuppressors.com/](http://www.myeloidsuppressors.com/)

### June 18–19, 2016

**Southeastern Immunology Symposium**  
Duke University  
Durham, NC  
<http://sites.duke.edu/sis2016/>

### June 22–24, 2016

**VLPNPV 2016 - Virus-Like Particle and Nanoparticle Vaccines**  
Leiden, the Netherlands  
<http://meetingsmanagement.cmail19.com/t/d-l-jiurdkl-vckugr-j/>

### July 1–4, 2016

**9th International Conference of the Frontiers in Immunology Research Network**  
Grand Hotel Union  
Ljubljana, Slovenia  
[www.firnweb.com/2016-conference/](http://www.firnweb.com/2016-conference/)

### July 9–14, 2016

**AAI Introductory Course in Immunology**  
Long Beach, CA  
[www.aai.org/Education/Courses/Intro/index.html](http://www.aai.org/Education/Courses/Intro/index.html)

### July 24–29, 2016

**IgE and Allergy, 50 Years and Onward (FASEB Science Research Conference)**  
West Palm Beach, FL  
[www.faseb.org/SRC](http://www.faseb.org/SRC)

### July 31–August 5, 2016

**AAI Advanced Course in Immunology**  
Boston, MA  
[www.aai.org/Education/Courses/Advanced/index.html](http://www.aai.org/Education/Courses/Advanced/index.html)

### August 4–8, 2016

**Society for Developmental Biology 75th Annual Meeting/  
International Society of Differentiation 19th International Conference**  
Marriott Copley Place  
Boston, MA  
[www.sdbonline.org/2016mtg](http://www.sdbonline.org/2016mtg)

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

# Meetings and Events Calendar

Mark Your Calendar for These Important Dates!

## 2016 *(Continued)*

### August 16–19, 2016

**IVIS 2016: International Veterinary Immunology Symposium**  
Gold Coast Convention Centre  
Gold Coast, Australia  
[www.ivis2016.org/](http://www.ivis2016.org/)

### August 21–26, 2016

**ICI 2016: International Congress of Immunology 2016**  
Melbourne, Australia  
<http://ici2016.org>

### August 24–27, 2016

**APS Conference: Inflammation, Immunity and Cardiovascular Disease**  
Westminster, CO  
[www.the-aps.org/inflammation.aspx](http://www.the-aps.org/inflammation.aspx)

### August 31–September 2, 2016

**Colorado Immunology Conference**  
Steamboat Springs, CO  
[www.ucdenver.edu/academics/colleges/medicalschool/departments/ImmunologyMicrobiology/calendar/Pages/2016ImmunologyConferenceSchedule.aspx](http://www.ucdenver.edu/academics/colleges/medicalschool/departments/ImmunologyMicrobiology/calendar/Pages/2016ImmunologyConferenceSchedule.aspx)

### September 15–17, 2016

**The Society For Leukocyte Biology's 49th Annual Meeting and "Neutrophil 2016"-Inflammation, Immunity and Cancer: Neutrophils and Other Leukocytes**  
University of Verona Congress Center  
Verona, Italy  
<http://leukocytebiology.org/Meetings/2016-Meeting.aspx>

### September 21–24, 2016

**European Society for Immunodeficiencies (ESID) 2016**  
Centre Convencions Internacional de Barcelona (CCIB)  
Barcelona, Spain  
[www.esid.org](http://www.esid.org)

### September 26–28, 2016

**Immunogenomics 2016**  
HudsonAlpha Institute for Biotechnology  
Huntsville, AL  
<http://hudsonalpha.org/immunogenomicsconference/>

### September 27–30, 2016

**46th Annual Meeting of the German Society for Immunology**  
Congress Center Hamburg (CCH)  
Hamburg, Germany  
[www.immunology-conference.de/](http://www.immunology-conference.de/)

### October 15–16, 2016

**The New England Immunology Conference**  
The Marine Biological Laboratory  
Woods Hole, MA  
[www.newenglandimmunology.org/](http://www.newenglandimmunology.org/)

### October 16–19, 2016

**Cytokines 2016: 4th Annual Meeting of the International Cytokine and Interferon Society (ICIS)**  
San Francisco, CA  
<http://www.cytokines2016.com/>

### October 24–27, 2016

**19th Annual Upstate New York Immunology Conference**  
The Sagamore Resort and Conference Center  
Bolton Landing, NY  
[www.amc.edu/NYIC/index.cfm](http://www.amc.edu/NYIC/index.cfm)

### November 18–21, 2016

**Autumn Immunology Conference (AIC) 2016**  
Chicago Marriott Downtown  
Chicago, IL  
[www.autumnimmunology.org/](http://www.autumnimmunology.org/)

### December 6–9, 2016

**Joint British Society for Immunology (BSI) and Dutch Society for Immunology (NVVI) Congress 2016**  
Arena Conference Centre, Liverpool, UK  
[www.bsicongress.com/2016](http://www.bsicongress.com/2016)

### December 8–9, 2016

**International Conference on Lupus**  
Phoenix, AZ  
<http://lupus.conferenceseries.com/>

## 2017

### April 7–10, 2017

**30th Annual Canadian Society of Immunology Spring Meeting**  
The Banff Centre  
Banff, Alberta  
[www.csi-sci.ca/scientificmeeting.aspx](http://www.csi-sci.ca/scientificmeeting.aspx)

### May 12–16, 2017

**IMMUNOLOGY 2017™ AAI Annual Meeting**  
Walter E. Washington Convention Center  
Washington, D.C.  
[www.aai.org/Meetings/Future\\_Meeting.html](http://www.aai.org/Meetings/Future_Meeting.html)

### November 17–20, 2017

**Autumn Immunology Conference (AIC) 2017**  
JW Marriott  
Chicago, IL  
[www.autumnimmunology.org/](http://www.autumnimmunology.org/)

## 2018

### May 4–8, 2018

**IMMUNOLOGY 2018™ AAI Annual Meeting**  
Austin, TX  
[www.aai.org/Meetings/Future\\_Meeting.html](http://www.aai.org/Meetings/Future_Meeting.html)

### November 16–19, 2018

**Autumn Immunology Conference (AIC) 2018**  
Chicago Marriott Downtown  
Chicago, IL  
[www.autumnimmunology.org/](http://www.autumnimmunology.org/)

## 2019

### May 9–13, 2019

**IMMUNOLOGY 2019™ AAI Annual Meeting**  
San Diego Convention Center  
San Diego, CA  
[www.aai.org/Meetings/Future\\_Meeting.html](http://www.aai.org/Meetings/Future_Meeting.html)

# The Proud History of AAI

1913–2016



**Chronicling the AAI Legacy.** AAI staff historians and scientists are rigorously researching, archiving, and publishing materials to preserve the proud heritage of the association. Articles posted in the history section of the AAI website, [www.aai.org/about/history](http://www.aai.org/about/history), include:

- The Founding of AAI
- Industry Representation in Early AAI
- The Science at the First AAI Annual Meeting
- The Founding of *The Journal of Immunology*
- “Studies in Anaphylaxis”: The First Article in *The Journal of Immunology*
- Country Doctor, Pioneering Parasitologist, and the Father of Preventative Dentistry—Charles C. Bass
- Elise Strang L’Esperance: Pioneer in Cancer Prevention and Recipient of Lasker Award
- Immunologists during the First World War: One Soldier-Scientist’s Experience—Stanhope Bayne-Jones
- The 1918–1919 Influenza Pandemic as Covered in *The Journal of Immunology*
- Anna Wessels Williams: Infectious Disease Pioneer and Public Health Advocate
- 100 Years of AAI: A Look Back at Two Early Immunologists in Hawaii
- PI in the Scotland Yard of Streptococcal Mysteries—Rebecca Lancefield
- What’s Old is New Again: Early Editors of *The JI* Act to Address Perennial Challenges in the Peer-Review and Editing Process
- A Legacy of Advocacy Is Born as AAI Confronts McCarthyism
- The Founding of AAI Summer Courses in Immunology
- Creating a Buzz in the Field of Immunology: Mary Hewitt Loveless and the Development of Venom Therapy for the Prevention of Sting-Induced Anaphylaxis
- The Emergence of Immunology in Pittsburgh
- Immunology at the Mouth of the Mighty Mississippi: Diseases and Institutions that Shaped Research in Louisiana

Explore the history of AAI at  
[www.aai.org/about/history](http://www.aai.org/about/history)

## AAI Website

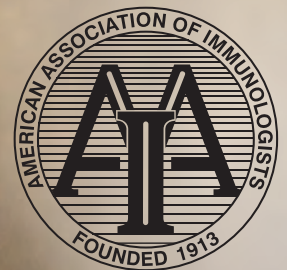
The history section of the AAI website continues to evolve as a living archive. Current and future resources include:

- AAI history articles published in the *AAI Newsletter*
- Oral History Project—exclusive interviews offering a rare glimpse into the lives and times of influential immunologists
- Digital Immunology Timeline, including all the images from the physical Centennial Timeline as well as citations for the scientific events
- Profiles of notable AAI members, including AAI Nobel and Lasker recipients, and past presidents and officers
- An eBook of commentaries on “Pillars” articles from *The Journal of Immunology*
- AAI Story Booth—attendees’ stories of events that shaped their careers in immunology, recorded at the past three annual meetings

# IMMUNOLOGY 2016™

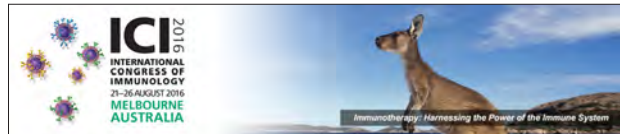
MAY 13-17, 2016 WASHINGTON STATE CONVENTION CENTER SEATTLE, WA

**SAVE THE DATE**



[www.IMMUNOLOGY2016.org](http://www.IMMUNOLOGY2016.org)

## AAI Offers \$1 Million in Travel Grants to ICI 2016



Struggling to cover costs for the **International Congress of Immunology 2016 (ICI 2016)**, to be held August 21-26, 2016, in Melbourne, Australia?

The American Association of Immunologists (AAI) can help.

**Travel Grants:** AAI will award up to \$1,000,000 in travel grants to AAI members for the ICI 2016.

**Eligibility:** Grant application will be open to investigators of all career stages. Applicant must be an AAI Trainee, Associate, or Regular member in good standing for 2015 and 2016, and an author on an abstract submitted to the ICI 2016. Preference will be given to applicants with no more than \$250,000 in total research funding from all sources (excluding PI salary). Applications will be accepted until March 1, 2016.

Complete eligibility and application instructions for ICI travel grants can be viewed at [http://aai.org/Awards/AAI\\_Travel\\_Awds\\_16th\\_ICI.html](http://aai.org/Awards/AAI_Travel_Awds_16th_ICI.html).

Also, visit the ICI 2016 website at <http://ici2016.org>.

