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NEWSLETTER

DECEMBER 2016

Plan Ahead for IMMUNOLOGY 2017™

Great science awaits you in Washington, D.C., Page 25

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About/Departments-Staff



Departments

- 4 Public Affairs
- 10 Members in the News
 - **Suzanne Topalian, Jedd Wolchok**
Receive Taubman Prize
 - **Tasuku Honjo** Wins Kyoto Prize
 - **Alberto Mantovani, Michel Nussenzweig**
Receive Koch Award
 - **Dan Littman, Ton Schumacher, John Wherry**
Receive CRI Awards
- 16 In Memoriam
 - **Henry N. Claman**
- 18 Education
- 20 Outreach Update
- 38 Grants and Awards
- 39 Meetings and Events

Features

- 27 Plan Ahead: IMMUNOLOGY 2017™
- 30 Meet Your AAI Committees 2016-2017
- 36 NIH Workshop Commemorates Mike Potter



18 Report from AAI Summer Immunology Courses



20 Outreach Update



27 Plan Ahead for IMMUNOLOGY 2017™

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Republicans Take the White House, Maintain Both Chambers of Congress

An Initial Look at President-Elect Trump's Views on Science

On January 20, 2017, Donald J. Trump will be sworn in as the 45th President of the United States. In many ways, however, the job has already begun. The Trump campaign, which has had a transition team in place for months, has grown considerably larger since the election and is helping the president-elect make nearly 4,000 appointments, more than 1,000 of which will require Senate confirmation.

Some of those appointments are critical to the biomedical research community, including the Secretary of Health and Human Services, the Director of the National Institutes of Health (NIH), and the Director of the National Cancer Institute.

The selection of these appointments can take a great deal of time: President Obama nominated Francis Collins, M.D., Ph.D., as director of NIH more than six months into his presidency, and it took another month for the Senate to confirm his nomination. However, Trump has already nominated Rep. Tom Price (R-GA, 6th), chair of the House Budget Committee, to be Secretary of Health and Human Services. Price, an orthopedist and strong fiscal conservative who has expressed opposition to the National Cancer Moonshot and embryonic stem cell research, drafted legislation to repeal and replace the Affordable Care Act (Obamacare). Senate confirmation hearings on the nomination have not yet been scheduled.

President-Elect Trump said little about science during his campaign. Some of what he did say has drawn harsh criticism from the scientific community. For example, he has claimed that vaccines can cause autism and that global warming is a hoax invented by China. In addition, on a 2015 radio program, Trump said that much of what he has heard about NIH is “terrible” (see <http://bit.ly/2eMa5PC>). However, in response to key questions about science, selected by ScienceDebate.org, he provided some responses that, if implemented by his administration, would be received quite favorably by the scientific community. For example, he said that “we should educate the public on the values

of a comprehensive vaccination program. We have been successful with other public service programs and this seems to be of enough importance that we should put resources against this task.” He also acknowledged that “scientific advances do require long term investment” and that “we must have programs such as a visible space program and institutional research that serve as incubators to innovation and the advancement of science and engineering in a number of fields.”

The 2016 elections did not dramatically change the makeup of Congress. Republicans still control both the Senate and the House, although Democrats did narrow the Republican majorities. The Democrats gained two seats in the Senate, bringing the current composition of the Senate

to 52 Republicans and 48 Democrats (including two independents who caucus with the Democrats). In the House, Democrats picked up six seats, but the Republican majority remains quite large at 241–194.

Two particularly strong NIH champions, Senators Roy Blunt (R-MO) and Patty Murray (D-WA), were re-elected to the Senate.

Two particularly strong NIH champions, Senators Roy Blunt (R-MO) and Patty Murray (D-WA), were re-elected to the Senate. Murray was subsequently elected as assistant Democratic Leader, making her the third-highest ranking Democrat in the Senate. She will also continue to serve as ranking member of the Senate Committee on Health, Education, Labor, and Pensions, which authorizes programs and activities at NIH. The seat of long-time NIH champion and 2015 AAI Public Service Awardee Senator Barbara Mikulski (D-MD), who is retiring at the end of the year, was won by another leading NIH advocate, Representative Chris Van Hollen (D-MD, 8th), winner of the 2011 AAI Public Service Award, who represents the district that includes NIH, the American Association of Immunologists (AAI), and the Federation of American Societies for Experimental Biology (FASEB).

FASEB, of which AAI is a founding member, held a webinar on November 16th to talk about the election results and discuss what is next for research funding. The archived webinar is now available on the FASEB website at www.faseb.org.

Federal Government Remains Flat-Funded Under Short-Term Spending Deal

Includes \$352 Million in New Funding for NIH

Earlier this month, Congress passed, and President Obama signed into law, a Continuing Resolution (CR) that funds most federal agencies and programs at roughly last year's levels through April 28, 2017. Most notably, the law provides NIH with an additional \$352 million for the 21st Century Cures Act (see "Bipartisan Medical Research Bill Becomes Law" on page 6).

Although fiscal year (FY) 2017 began on October 1, Congress had failed to pass any of its annual appropriations bills before that date. As a result, it passed a CR that funded most of the government, including NIH, at approximately last year's funding levels through December 9. AAI and many other groups in the biomedical research community had urged Congress to complete its FY 2017 appropriations bills before the first CR expired: in its November 16 letter to House and Senate leaders, AAI and others in the biomedical research community also urged inclusion of the Senate-passed funding level of \$34.1 billion for NIH, an increase of \$2 billion over the current funding level.

Unfortunately, Congress instead passed the second CR, which funds the government through late April, just before the December 9 deadline.

The second CR maintains the regular NIH budget at its FY 2016 level (~\$32.1 billion), minus a cut of 0.1901 percent that was applied to all agencies funded by the bill. However, the bill appropriates \$352 million in new funding that was authorized by the 21st Century Cures Act, allocated as follows:

- \$300 million for the Beau Biden National Moonshot (formerly the "National Cancer Moonshot")
- \$40 million for the Precision Medicine Initiative
- \$10 million for the Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative
- \$2 million "for clinical research to further the field of regenerative medicine using adult stem cells"

NIH will continue to set conservative paylines, fund non-competing research grant awards at about 90 percent of the previously committed level, and delay starting any new programs until a final FY 2017 appropriations bill has become law.

AAI Participates in Rally for Medical Research Hill Day

AAI was pleased to cosponsor the 2016 Rally for Medical Research Hill Day, which took place on September 22. Representing AAI and visiting the Maine, New Hampshire, and Idaho delegations were AAI Committee on Public Affairs (CPA) member and former AAI Public Policy Fellow Ling Cao, M.D., Ph.D. (AAI '08) and AAI Director of Public Policy and Government Affairs Lauren Gross, J.D. CPA member David Chaplin, M.D., Ph.D. (AAI '86); former AAI Public Policy Fellow Jennifer Lori Blanchfield, Ph.D. (AAI '07); and AAI members Achshah Keegan, Ph.D. (AAI '90) and Manoj K. Mishra, Ph.D. (AAI '03) also participated in the Rally Hill Day.

Nearly 350 scientists, patient advocates, and others from 37 states and the District of Columbia participated in meetings at more than 250 House and Senate offices. The goal of the event, which took place as Congress continued preparing appropriations bills for FY 2017, was to advocate for robust, sustained, and predictable funding increases for NIH.



(L-R): CPA members Ling Cao and David Chaplin; FASEB President Hudson Freeze, Ph.D.; and former AAI Public Policy Fellow Jennifer Lori Blanchfield at the Rally Hill Day reception on September 21



CPA members Ling Cao and David Chaplin (L) with NIH Director Francis Collins, M.D., Ph.D., at the Rally Hill Day reception

Continued, next page



CPA member Ling Cao (R) with Rep. Ann Kuster (D-NH, 2nd) and rally colleagues

National Cancer Moonshot Update, Final Task Force Report Released

On October 17, 2016, Vice President Joe Biden presented the final report of the National Cancer Moonshot (“Moonshot”) Task Force to President Obama. The report provides an update on the goals of Moonshot, the progress it has made since its January 2016 launch, and long-term plans to help guide future administrations.

Biden, who also served as chair of the Moonshot Task Force, had received the final report of Moonshot’s Blue Ribbon Panel from Acting National Cancer Institute (NCI) Director Douglas Lowy, M.D., earlier that day (see <https://www.cancer.gov/brp>). The panel, which includes seven AAI members [Co-chair Elizabeth Jaffe, M.D. (AAI ’97); Co-chair Dinah Singer, Ph.D. (AAI ’86); James Allison, Ph.D. (AAI ’78); Jeffrey Bluestone, Ph.D. (AAI ’82); Mikael Dolsten, M.D., Ph.D. (AAI ’96); Laurie Glimcher, M.D. (AAI ’83); and Augusto Ochoa, M.D. (AAI ’02)], had recommended approaches to achieve the Moonshot’s goal of making a decade’s worth of progress for cancer prevention, diagnosis, and treatment in five years. These research recommendations included focusing on the creation of a translational science network for immunotherapy and developing strategies to overcome resistance to therapy.

The Task Force report, which included the panel’s recommendations, outlined the major accomplishments of the Moonshot initiative, including more than 30 new commitments, from federal agencies to private-sector companies and organizations, to support the initiative (see <http://bit.ly/2g2OGDC>). Among those commitments are the following:

- The CDC is furthering its efforts to promote cancer vaccines, such as the human papillomavirus vaccine, for cancer prevention.
- The NCI and the National Aeronautics and Space Administration are collaborating to investigate particle beam radiotherapy as a cancer treatment.
- The NCI, in a joint venture between the federal government and private sector, is working with Amazon and Microsoft to maintain cancer genomic data in a cloud for data sharing by cancer researchers.
- A new partnership of 20 stakeholders, the Blood Profiling Atlas Pilot, has been established among government, academia, and industry to create a database for liquid biopsies to facilitate the development of blood diagnostic technologies.
- Ride-sharing companies Uber and Lyft have committed to providing affordable and reliable transportation to cancer patients needing assistance to attend medical appointments.
- Family Reach, a national nonprofit organization, has launched the Family Reach Financial Treatment Project to help eliminate the financial burden of cancer on patients and their families (see <http://bit.ly/2dZ4Ego>).

In releasing the report, the vice president emphasized the importance of the immune system and the progress that has been made in cancer treatment through immunotherapies. Biden noted that this progress has been achieved, in part, because of team science and data sharing between immunologists and oncologists. Praising the Moonshot initiative for “inject[ing] a sense of urgency” in the fight against cancer and inspiring bipartisan support, Biden predicted “significant increases in funding this year, from this Congress,” as well as a “commitment to keep it going for the next 10 years” (see <http://bit.ly/2g2Rcd2> and <http://bit.ly/2fX4hWh>).

Bipartisan Medical Research Bill Becomes Law

After nearly three years of deliberations, the 21st Century Cures Act (Cures Act), a bill intended to “accelerate the discovery, development, and delivery of 21st century cures,” became law on December 13. The law directs \$4.8 billion in new funding to several NIH initiatives and includes a wide range of policy provisions affecting NIH, the Food and Drug Administration (FDA), and other entities.

The Cures Act passed by an overwhelming margin in both the House (392-26) and Senate (94-5). In a special signing ceremony on December 13 to celebrate the bill’s enactment,

Continued, next page

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Call for 2017 Award Applications

Deadline: January 11, 2017

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

Lefrançois-BioLegend Memorial Award

Established to honor the memory of AAI member Dr. Leo Lefrançois, this award is intended to advance the career of a trainee who attends the AAI annual meeting and presents an outstanding abstract specifically in the area of mucosal immunology. The award recipient will receive a \$1,000 cash award and a certificate during an awards presentation program at the AAI annual meeting. *This award is generously supported through a grant from BioLegend and donations from friends and colleagues of Dr. Lefrançois.*

AAI Trainee Poster Awards

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

Pfizer-Showell Travel Award

This award recognizes the professional promise of an early career investigator (assistant professor or equivalent) by assisting the award recipient with travel to the AAI annual meeting. Selection is based on career progress and submission of an outstanding abstract selected for oral presentation in a block symposium at the meeting. The award recipient will be recognized and presented with a certificate at an awards presentation program at the AAI annual meeting. Support of up to \$1,500 will be provided for meeting registration and travel. *This award is supported through an endowment from Henry J. Showell and Pfizer, Inc.*

AAI-Thermo Fisher Trainee Achievement Awards

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

AAI Early Career Faculty Travel Grants

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

Chambers-Thermo Fisher Scientific Memorial Award

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

Lustgarten-Thermo Fisher Scientific Memorial Award

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

AAI Trainee Abstract Awards

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

AAI Undergraduate Faculty Travel Grants

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

AAI Laboratory Travel Grants

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

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

The 2017 AAI Awards will be presented in conjunction with

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Bipartisan Medical Research Bill Becomes Law (Continued)

President Obama noted that provisions in the Cures Act would “[bring] to reality the possibility of new breakthroughs to some of the greatest health challenges of our time.” In a “Perspective” published in the *New England Journal of Medicine*, NIH Director Francis Collins, M.D., Ph.D., and NIH Deputy Director for Science, Outreach, and Policy Kathy Hudson, Ph.D., called the Cures Act “an enormous gift to science ... a gift that reflects a deep confidence in the promise of biomedical research to make discoveries and develop 21st Century Cures.” Though many in the biomedical research community have concerns about some of the law’s provisions, the legislation’s bipartisan support was noteworthy and, in this highly politicized environment, quite rare.

The law, which calls for \$6.3 billion in new funding over the next 10 years, also directs \$1 billion to opioid abuse prevention and treatment, and \$500 million to the FDA. The full \$4.8 billion included for NIH will be directed to four specific initiatives:

- The Beau Biden Cancer Moonshot (formerly the “National Cancer Moonshot,” but renamed by the law after Vice President Joe Biden’s late son) will receive \$1.8 billion over seven years.
- The Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative will receive \$1.511 billion over 10 years.
- The Precision Medicine Initiative will receive \$1.455 billion over 10 years.
- “[T]o further the field of regenerative medicine using adult stem cells ...,” NIH will receive \$30 million over four years.

The funding will be provided to NIH through a new mechanism that requires congressional appropriators to move funds from a general treasury account to the NIH Director’s office each year. Although the funding will not be given automatically to NIH (as was true in earlier versions of the bill), Congress has already provided NIH with the money for FY 2017 (\$352 million) through the recently-enacted Continuing Resolution (see “Federal Government Remains Flat-Funded Under Short-Term Spending Deal” on page 5).

The Cures Act also reauthorizes NIH for three years, from FY 2018 – FY 2020 (\$34.85 billion for FY 2018, \$35.58 billion for FY 2019, and \$36.47 billion for FY 2020), giving appropriators the authority to provide additional funding to NIH at a later time.

The nearly 1000-page law contains numerous provisions that affect NIH, FDA, and the pharmaceutical industry, among other entities, as well as reforms to the mental health system. AAI has focused exclusively on, and limited its comments to, language related to NIH. Some NIH items in the law include:

- Provisions related to reducing regulatory burden, including the creation of a Research Policy Board that will recommend ways to modify and harmonize regulations.
- Language easing restrictions on employees of the Department of Health and Human Services (HHS), including those at NIH, to attend scientific meetings and conferences.

AAI Committee on Public Affairs Chair Beth A. Garvy, Ph.D., sent a letter on behalf of AAI to the authors of the 21st Century Cures Act, supporting certain aspects of the bill. The letter emphasizes that the additional funding provided in the bill for various NIH initiatives should “supplement, but not supplant, regular NIH appropriations.”

- A Next Generation of Researchers Initiative within the Office of the Director.
- New authorities allowing the NIH Director to create prize competitions and promote data sharing.
- A requirement that the HHS Secretary submit a report to Congress on preventing and eliminating duplicative biomedical research.

On November 29, AAI Committee on Public Affairs Chair Beth A. Garvy, Ph.D., sent a letter (see aai.org > Public Affairs > Letters and Comments) on behalf of AAI to the authors of the 21st Century Cures Act, Representatives Fred Upton (R-MI, 6th) and Diana DeGette (D-CO, 1st), supporting certain aspects of the bill. The letter emphasizes that the additional funding provided in the bill for various NIH initiatives should “supplement, but not supplant, regular NIH appropriations.” It also applauds language that “supports the next generation of biomedical researchers, removes barriers to government scientists participating in relevant scientific meetings and conferences, and creates a Research Policy Board to critically evaluate how regulations can be modified and harmonized to reduce administrative burden.”

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Lefrançois-BioLegend Memorial Award

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Suzanne Topalian, Jedd Wolchok Receive Taubman Prize

Suzanne L. Topalian, M.D., AAI '90, and Jedd D. Wolchok, M.D., Ph.D., AAI '12, have been awarded the 2016 Taubman Prize for Excellence in Translational Medical Science for their complementary, groundbreaking contributions to immunotherapy as a new paradigm in the treatment of advanced cancers.

Established in 2012 by the University of Michigan's A. Alfred Taubman Medical Research Institute, the Taubman Prize annually confers a \$100,000 award recognizing outstanding clinician scientists from outside of the University of Michigan community who have done the most to transform laboratory discoveries into clinical applications for patients suffering from disease. Dr. Topalian's translational studies of human anti-tumor immunity have demonstrated that blockade of the PD-1 immune checkpoint, designed to unleash T cells, can mediate tumor regression in patients with multiple types of advanced cancers. Dr. Wolchok's research led to the FDA approval of ipilimumab, now a first-line treatment for patients with advanced melanoma; use of the drug has increased a favorable prognosis for a significant number of people from months to years.



Suzanne Topalian is a professor of surgery and oncology at Johns Hopkins University School of Medicine. Focused on cancer immunology and immunotherapy, her research as a clinician-scientist has played a leading role in the development of therapies involving PD-1/PD-L1 pathway blockade. Her basic research aims

to understand human antitumor responses better, and her translational research program includes the development of antitumor vaccines, adoptive T cell therapies, and novel immune-modulating monoclonal antibodies.

Topalian has served as a major symposium speaker at the AAI annual meeting and will serve on the President's Symposium at IMMUNOLOGY 2017™. A current member of the Melanoma Research Alliance board, she has served on the board of the Society for the Immunotherapy of Cancer

and on review panels at the National Cancer Institute (NCI), NIH. Her additional career honors include election to the American Association of Physicians, Society for Melanoma Research Estela Medrano Award, Bonnie J. Addario Lung Cancer Foundation A Breath Away from the Cure Award, American Society of Clinical Oncology Karnofsky Award, and selection to *Nature's* 10 (annual list of the year's most influential scientists).

An English graduate of Wellesley College, Topalian received her medical degree from the Tufts University School of Medicine and completed her residency in general surgery at the Thomas Jefferson University Hospital. She completed a fellowship in pediatric surgery research at Children's Hospital of Philadelphia and subsequently served as a research fellow and then senior investigator at the NCI. She joined the Johns Hopkins University faculty in 2006 as the inaugural director of the Melanoma Program in the Sidney Kimmel Comprehensive Cancer Center. In addition to that appointment, Topalian serves as associate director of the Bloomberg-Kimmel Institute for Cancer Immunotherapy.



Jedd Wolchok is the Lloyd J. Old/Virginia and Daniel K. Ludwig Chair in Clinical Investigation and chief of the Melanoma and Immunotherapeutics Service at Memorial Sloan Kettering Cancer Center (MSK), where

he serves as an attending physician with an expertise in the treatment of metastatic melanoma. His research as a clinician-scientist encompasses the preclinical and clinical development of novel immunotherapies for the treatment of melanoma. He has been at the forefront of the development of checkpoint blockade immunotherapy and led clinical trials that resulted in FDA approval of the combination of anti-CTLA-4 and anti PD-1 antibodies for treating advanced melanoma. Current research in his lab includes projects focusing on myeloid-derived suppressor cells in tumor immunity, the GITR pathway in T cells, and the use of OX40 agonists for immunotherapy.

Wolchok is a past major symposium chair and speaker at the AAI annual meeting and has served as a section editor for *The Journal of Immunology*. His additional career honors include the Alexander Bodini Foundation Prize for

Scientific Excellence in Medicine, American Association for Cancer Research Richard and Hinda Rosenthal Memorial Award, and Damon Runyon-Lilly Clinical Investigator Award. He has served on NIH study section panels and holds editorial board appointments with *Cancer Immunology Research*, *Journal of Clinical Oncology*, and *Cancer Research*.

A molecular biology graduate of Princeton University, Wolchok received his Ph.D. (microbiology) and M.D. degrees from New York University, where he completed his internship and residency in internal medicine. He subsequently served as a medical oncology-hematology fellow and then chief fellow at MSK before being appointed to the MSK Melanoma and Immunotherapeutics Service, which he leads today. His current appointments also include service as director of the Parker Institute for Cancer Immunotherapy at MSK, associate director of the Ludwig Institute, and professor of medicine at the Weill Cornell Medical College of Cornell University.

Tasuku Honjo Wins Kyoto Prize



Tasuku Honjo, M.D., Ph.D., AAI (Hon.) '88, is the 2016 recipient of the Kyoto Prize in Life Sciences, recognizing his discovery of the mechanism responsible for the functional diversification of antibodies, immunoregulatory molecules, and clinical applications of PD-1.

Awarded annually since 1985 by the Inamori Foundation, the Kyoto Prize represents Japan's highest private award for global achievement, honoring those who are leading figures in their field and whose work has contributed significantly to the scientific, cultural, and spiritual betterment of mankind.

Honjo is a professor in the Department of Immunology and Genomic Medicine at the Kyoto University Graduate School of Medicine. He proposed the class-switch recombination (CSR) model of antibody diversification in 1978 and corroborated this model in subsequent studies, including identification of activation-induced cytidine deaminase, a protein that is essential for CSR and somatic hypermutation. In parallel with these studies, Honjo cloned molecules, such as IL-4 and IL-5, which are vital for B cell activation, and PD-1, which negatively regulates self-tolerance of the immune system. As a direct result of his work, Nivolumab, the

humanized anti-PD-1 antibody, is now used as an effective immunotherapy to treat patients with melanoma, non-small cell lung cancer, prostate cancer, renal carcinoma, colorectal cancer, and Hodgkin's disease.

Elected an honorary member of AAI in 1998, Honjo was a 2000 AAI Distinguished Lecturer. His numerous additional honors and appointments include election as a foreign associate to the U.S. National Academy of Sciences and service on more than 30 journal editorial boards, including ongoing appointments on behalf of *Clinical and Developmental Immunology*, *Current Opinion in Immunology*, *European Journal of Immunology*, *International Immunology*, *The Journal of Experimental Medicine*, and *Trends in Immunology*.

Honjo received his M.D. in 1966 and Ph.D. in 1975 from Kyoto University. He held positions at the University of Tokyo and later at the Osaka University School of Medicine, where he attained the rank of professor, before joining the Kyoto University faculty in 1984. His Kyoto University appointments have included service as director for the Center for Molecular Biology and Genetics and dean of the Faculty of Medicine.

Alberto Mantovani, Michel Nussenzweig Receive Koch Award

Alberto Mantovani, M.D., AAI '03, and **Michel Nussenzweig, M.D., Ph.D., AAI '91**, are joint recipients of the 2016 Robert Koch Award in honor of the pioneering research conducted by both immunologists that has resulted in new treatment options relevant to cancer and the fight against HIV infections.

Founded in 1960, in support of the Robert Koch Foundation's dedication to basic infectious diseases research, the Koch Award is one of the most prestigious scientific commendations in Germany, annually honoring scientists with a €100,000 prize for outstanding, internationally recognized achievement. Dr. Mantovani is being recognized for pioneering studies that, by demonstrating how a chronic inflammatory response promotes the development and metastasis of cancer, inspired a paradigm change on the nature of cancer that moved beyond the prevailing tumor cell-centric view and helped unlock the potential of immunotherapy. Dr. Nussenzweig's groundbreaking work uncovered broad and potent neutralizing antibodies to HIV-1 and established that they are a safe and effective immunotherapeutic for infected humans, discoveries that have re-energized the vaccine field and opened the door to new antibody-based methods for HIV-1 prevention and therapy.

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Mantovani, Nussenzweig Receive Koch Award *(Continued)*



Alberto Mantovani is a professor of pathology at Humanitas University in Milan, Italy, where he also serves as scientific director of the Humanitas Clinical and Research Center. His work focuses on innate immunity and has included the identification of tumor-associated macrophages, elucidation of how

these cells are recruited to tumors via CCL2, and analysis of the role of inflammation in promoting tumor progression. His research on inflammatory cytokines established the concept of decoy receptors, and additional work with mediators of innate immunity involved seminal discoveries regarding TLR signaling and the long pentraxin PTX3, which has recently been found to suppress macrophage-driven inflammation in tumors.

Mantovani is a past major symposium chair and speaker at the AAI annual meeting. The current president of the International Union of Immunological Societies, Mantovani previously served as president of the Italian Federation of Immunological Societies as well as the International Cytokine Society. His additional career honors include the Feltrinelli Prize, Organisation of European Cancer Institutes Prize, Albert Struyvenberg Medal, Milstein Award for Excellence in Interferon and Cytokine Research, William Harvey Award, European Federation of Immunological Societies (EFIS) International Prize, EFIS Schering Plough Award, and Marie T. Bonazinga Award.

Mantovani received his M.D. from the University of Milan, completed his specialization in oncology at the University of Pavia, Italy, and subsequently trained and worked as a visiting fellow at the Chester Beatty Research Institute (London, UK) and at the NIH. He then served as a senior investigator and later head of the Laboratory of Human Immunology at the Istituto Mario Negri in Milan, where he would subsequently chair the Department of Immunology and Cell Biology. In 1994, he was appointed a full professor at the State University of Brescia and joined the State University of Milan as a professor of pathology in 2001. He has held his current appointment as scientific director of the Humanitas Clinical and Research Center since 2005 and as Humanitas University professor of pathology since 2014.



Michel Nussenzweig is the Zankvil A. Cohn and Ralph M. Steinman Professor and a Howard Hughes Medical Institute investigator in the Department of Molecular Immunology at The Rockefeller University. His laboratory investigates the molecular basis of somatic hypermutation and

selection for high-affinity, antibody-producing cells in the germinal center with the goal of developing therapeutically effective, broadly neutralizing antibodies against HIV-1. Nussenzweig also studies the physiological function and development of dendritic cells (DCs), a pursuit that began with his discovery that DCs are antigen-presenting cells and has expanded into studies aimed at targeting antigens to DCs and controlling DC function *in vivo* to develop vaccines and therapies for autoimmunity.

Nussenzweig, who will speak at IMMUNOLOGY 2017™, is a past AAI Distinguished Lecturer, AAI President's Symposium speaker, and AAI-Huang Foundation Meritorious Career Award recipient and lecturer. He is also a past member of the AAI Awards and AAI Program committees and has served as an Abstract Programming Chair for the AAI annual meeting. His many additional career honors include election to the U.S. National Academy of Sciences, Institute of Medicine, American Academy of Arts and Sciences, Brazilian Academy of Sciences, and Spanish Royal Academy of Medicine and receipt of the Lee C. Howley Sr. Prize for Arthritis Research, Solomon A. Berson Award for Basic Science, Brazilian Agency for Industrial Development Diaspora Award, and Rabbi Shai Shacknai Memorial Prize in Immunology and Cancer Research.

Born in Sao Paulo, Brazil, and a graduate of New York University (NYU), Nussenzweig received his Ph.D. from The Rockefeller University and M.D. from NYU Medical School. Following completion of his medical internship and residency and an infectious diseases fellowship at Massachusetts General Hospital, he undertook additional postdoctoral training in the Department of Genetics at Harvard Medical School. He returned to The Rockefeller University in 1990 as an assistant professor and Howard Hughes Investigator and was appointed full professor in 1996. His Rockefeller appointments include service as head of the Laboratory of Molecular Immunology and director of the Christopher Browne Center for Immune Diseases.



Important Dates for Two AAI Awards Programs

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

AAI Careers in Immunology Fellowship

KEY DATES	APPLICATIONS OPEN	APPLICATIONS CLOSE
	JANUARY 15	MARCH 16

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.

Selection is based on the potential of the trainee, merit of the project, quality of the training environment, and financial need.

Direct inquiries to fellowships@aai.org.

AAI Travel for Techniques Award Program

AWARDS CYCLE	APPLICATIONS OPEN	APPLICATIONS CLOSE
WINTER	DECEMBER 15	FEBRUARY 15
SPRING	APRIL 15	JUNE 15
FALL	AUGUST 15	OCTOBER 15

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 awards@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.

Dan Littman, Ton Schumacher, John Wherry Receive CRI Awards

Dan R. Littman, M.D., Ph.D., AAI '87, Ton Schumacher, Ph.D., AAI '15, and E. John Wherry III, Ph.D., AAI '05, are the recipients of three Cancer Research Institute (CRI) awards for 2016 in recognition of their outstanding contributions to cancer immunotherapy research. The awards represent the highest annual honors bestowed by the CRI upon scientists whose work has deepened our understanding of the immune system's response to cancer and other diseases and fundamentally advanced immunology and cancer immunology, including through the development of lifesaving immunotherapies for all forms of cancer. The William B. Coley awards confer a \$5,000 prize.



Dan Littman's selection for the 2016 William B. Coley Award for Distinguished Research in Basic Immunology recognizes his definitive work on immune cell differentiation and contributions to the identification and biology of unique immune cell subsets and their underlying interaction with the microbiome.

Littman is the Helen L. and Martin S. Kimmel Professor of Molecular Immunology, a professor of pathology and microbiology, and a Howard Hughes Medical Institute (HHMI) investigator in the Skirball Institute for Biomedical Research at the New York University (NYU) School of Medicine. Beginning with studies integral to the cloning of CD4 and CD8, Littman has made numerous impactful contributions to the field, including work key to the identification of gamma delta T cells, elucidation of the intricacies of T cell lineage determination in the thymus and of effector T cell differentiation in the periphery, identification of HIV cell entry receptors, and exploration of the complex relationship between immune cells and the microbiota in mucosal tissues. Following up on his lab's identification of the transcription factor ROR- γ as the master regulatory protein governing Th17 cell differentiation, Littman's group continues to dissect the mechanisms that influence the delicate balance between regulatory and Th17 inflammatory immune responses at the mucosal interface and how they relate to autoimmunity.

Littman, the immediate past president of AAI and an AAI Council member since 2010, is a past member of the AAI Program Committee, AAI Nominating Committee, and

AAI Awards Committee. In addition to presenting the AAI President's Address and chairing the AAI President's Symposium earlier in 2016, Littman is a past AAI Distinguished Lecturer, past AAI-Invitrogen Meritorious Career Award recipient and lecturer, and past President's Symposium speaker. In addition, he has been a major symposium chair and speaker on multiple occasions at AAI annual meetings. His many additional awards and honors include the Vilcek Prize in Biomedical Science and the New York City Mayor's Award for Excellence in Science and Technology.

A native of Bucharest, Romania, and biochemical sciences graduate of Princeton University, Littman received his M.D. and Ph.D. (molecular biology) from Washington University in St. Louis. He completed his medical residency in pathology at Columbia University, where he also trained as a postdoctoral fellow before being appointed in 1985 an assistant professor of microbiology and immunology at the University of California, San Francisco. He became an assistant HHMI investigator in 1987, associate professor and associate HHMI investigator in 1991, full professor in 1994, and full HHMI investigator in 1995. In that year, he joined the faculty of the Skirball Institute and NYU, where his current appointments include service as coordinator and member of the Molecular Pathogenesis Program.



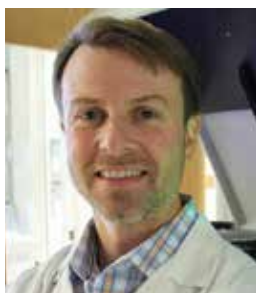
Ton Schumacher's receipt of the 2016 William B. Coley Award for Distinguished Research in Tumor Immunology honors his contributions to the understanding of how immune cells identify and target tumor-specific neo-antigens and how this capability can provide anti-tumor immunity.

Dr. Schumacher is a senior member and group leader in the Department of Immunology at the Netherlands Cancer Institute in Amsterdam. His laboratory works to devise novel technologies to measure and manipulate T cell responses, with the aim of developing and evaluating adoptive T cell therapies for human cancer. The group dissects antigen-specific T cell immunity in human cancer via tagging single T cells using genetic barcodes and via MHC-based monitoring strategies to understand the effects of immunotherapy in patients and additionally uses an exome-based approach to identify human cancer neo-antigens.

A member of the CRI Scientific Advisory Council, Schumacher has received numerous awards for his research, including the Peter Speiser Award, van Loghem Award, Meyenburg Cancer Research Award, Queen

Wilhelmina Cancer Research Award, and Amsterdam Inventor Award. He serves as chief scientific officer for Kite Pharma EU; has served on advisory panels on behalf of Amgen, GlaxoSmithKline, Bristol-Myers Squibb, and AIMM Therapeutics; and has founded biotechnology companies, including T Cell Factory, Amsterdam Biotherapeutics, and Impact Biotechnology.

Schumacher received his Ph.D. in biochemistry from the Free University of Amsterdam, later serving as a postdoctoral fellow in the Center for Cancer Research at the Massachusetts Institute of Technology (MIT), and then as a postdoctoral associate at MIT's Whitehead Institute for Biomedical Research. He joined the Netherlands Cancer Institute as an assistant member in 1996 and has been a full member since 2002. He has served as the institute's deputy director and, since 2005, has held an appointment as professor of immunotechnology at Leiden University Medical Center.



John Wherry's selection for the 2016 Frederick W. Alt Award for New Discoveries in Immunology recognizes his standing among former CRI Irvington postdoctoral fellows whose research in academia or industry has had a major impact in the field of immunology. Insights from

Dr. Wherry's work examining how changes in gene expression affect T cell exhaustion—a waning of immune function that occurs in response to chronic viral infection and cancer—have contributed to immunotherapeutic approaches that operate, in part, by reversing T cell exhaustion.

Wherry is a professor of microbiology at the University of Pennsylvania (UPenn), where he serves as director of the Institute for Immunology at the Perelman School of Medicine. Dr. Wherry's early studies of CD8+ T cell responses during LCMV infection revealed the phenomenon of T cell exhaustion and the role of inhibitory receptors, including PD-1 in this process, and he has gone on to investigate the cellular pathways involved in T cell exhaustion during chronic viral infections and cancer, as well as pathways in normal memory T cell differentiation. Ongoing work examines the mechanisms of inhibitory receptor blockade in preclinical models and in humans and investigates new targets to reverse T cell exhaustion, while additional studies focus on human T follicular helper cell responses in vaccination.

An AAI President's Symposium speaker earlier this year, Wherry has served as a past major symposium speaker at the AAI annual meeting and participated for multiple years as a faculty member for the AAI Introductory Course in Immunology. He has served as an associate and section editor for *The Journal of Immunology* and is a past AAI Junior Faculty Travel Award recipient. Among his additional honors are inclusion on the Thomson/Reuters Highly Cited Researchers list, selection as one of America's Young Innovators by *Smithsonian Magazine*, and receipt of a New Scholar in Aging award from the Ellison Medical Foundation.

A Pennsylvania State University graduate, Wherry received his Ph.D. in immunology from the Kimmel Cancer Institute at Thomas Jefferson University. After training as a postdoctoral fellow in the Department of Microbiology and Immunology at Emory University, he accepted joint appointments as an assistant professor in the immunology program at the Wistar Institute and as a Wistar assistant professor in the microbiology department at UPenn. He was appointed an associate professor at UPenn in 2010, director of its Institute for Immunology in 2012, and a full professor in 2015. In addition, he was appointed this year as co-director of the Parker Institute for Cancer Immunotherapy at UPenn.

You, too, can be a Member in the News

AAI welcomes the opportunity to promote the career achievements and professional honors attained by AAI member scientists. This not only serves to inspire scientists at every career stage but also informs the readership of the *AAI Newsletter* of immunology's vital and widening role in scientific discovery and transformative medicine.

If you know of an AAI colleague that has received noteworthy scientific or service (or both) recognition, please let us know by emailing AAINewsletter@aai.org.

When emailing, please provide a link to the website of the honoring institution along with any additional information.

Thank you!

Remembering Henry N. Claman, M.D., AAI '65 | December 13, 1930–September 3, 2016

By Stephen C. Dreskin, M.D., Ph.D., University of Colorado



Henry N. Claman, M.D., an AAI member since 1965 and long-time professor of allergy and clinical immunology at the University of Colorado, died on September 3 in Denver. During his time as an AAI member, Dr. Claman served on the Education Committee, the Nominating Committee, as chair of the Awards Committee, and as a representative on the International Union of Immunological Societies Advisory Committee. Claman was an emeritus member at the time of his death.

It is with great respect that I inform the AAI membership of Dr. Henry Claman's passing on Saturday, September 3 2016, after a battle with Parkinson's disease.

Henry N. Claman was a third-generation physician and a second-generation allergist. He attended Harvard College and New York University School of Medicine and completed training in internal medicine at Barnes Hospital and Massachusetts General Hospital. He concluded his military duties as head of allergy at the U.S. Army Hospital in Fort Meade, Maryland. Claman then moved to Denver in 1961 to work with David Talmage (AAI president, 1978–1979) in the Division of Allergy, Asthma and Clinical Immunology in the Department of Medicine at the University of Colorado (UC) School of Medicine.

In 1966, Claman and colleagues published the seminal observation that cellular cooperation between lymphocytes from the bone marrow and those from the thymus was essential for antibody production, the beginning of our understanding of T-B collaboration in immunology. In 2004, this article was celebrated in *The Journal of Immunology* as the first article in the "Pillars of Immunology" series.

For further discussion of Dr. Claman's early contributions to the field of immunology, please see the following publications:

- Dreskin, S. C. (2006). Henry Claman in profile. *J. Allergy Clin. Immunol.* 117, 959–960.
- Kirkpatrick, C. H. (2006). Identification of cellular

cooperation in antibody production. *J. Allergy Clin. Immunol.* 117, 960–962.

- Marrack, P. (2006). Thymocytes and bone marrow cells in 1966: where did we go from there? *J. Allergy Clin. Immunol.* 117, 962–964.

Among his many achievements, Claman served as head of the Division of Allergy, Asthma and Clinical Immunology at the UC School of Medicine. He also published and lectured widely on topics, such as effects of corticosteroids on lymphoid cells, the cellular basis of tolerance, the nature of suppressor T cells (the historical predecessor of T regulatory cells), chronic graft versus host disease, the role of mast cells in scleroderma, and the immunology of pregnancy. He served on a variety of prestigious editorial boards and received a number of awards, including the Sulzberger Prize from the American Academy of Dermatology, the Besredka Prize of the Foundation Franco-Allemande (for Immunology), the Chairman's Award of the UC Department of Medicine, and the Bonfils-Stanton Foundation (Denver) Award for Achievement in Science.

Claman was appointed Distinguished Professor of Medicine and Immunology and Professor Emeritus of the UC School of Medicine. He received an honorary UC doctorate in 2014 and was the recipient of the Thomas Jefferson Award, one of the university's highest honors.

In his later years, Henry wrote *Jewish Images in the Christian Church: Art as the Mirror of the Jewish-Christian Conflict, 200–1250 CE* (available through Amazon) and founded the Arts and Humanities in Healthcare Program at UC, integrating the arts, literature, and reflective writing into the medical education curriculum. He was also the founding editor of *The Human Touch*, an annual anthology of poetry, prose, and photography from the UC Denver medical campus.

Claman is survived by his wife, Dr. Janet Stewart; his son, David Claman; and his brother, Victor Claman.

In lieu of flowers, contributions may be made to The Denver Hospice (<http://www.thedenverhospice.org/Pages/Home.aspx>), Friends of Chamber Music (<http://friendsofchambermusic.com>), or Temple Emanuel (<http://emanueldenver.org>).

Summer Opportunity for High School Science Teachers

AAI HIGH SCHOOL TEACHERS SUMMER RESEARCH PROGRAM IN IMMUNOLOGY

Looking for creative ways to bring the excitement of discovery to your classroom? Participate in the 2017–18 American Association of Immunologists (AAI) High School Teachers Summer Research Program. You'll enjoy hands-on experience in cutting-edge research, using the latest tools and techniques. And you'll take home a number of new lab exercises for use in your classes.

This national program supports high-school science teachers' participation in a 4–6 week summer research experience in the laboratories of AAI members. If you are selected,

- AAI will locate an AAI member in your area to serve as your mentor for the summer.
- You will receive a stipend for working in the laboratory of your AAI mentor.
- An educational consultant will assist you with the development of an innovative curriculum to be shared nationally.
- You will be supported to attend a national professional meeting to present your experiences, and
- Prior to starting in the lab, you will be supported in attending the 3-day AAI Introductory Course in Immunology, Part I, held in July in Los Angeles, California. There, you'll learn the basic principles of the discipline. (www.aai.org/Education/Courses/Intro/index.html).



Apply today for this exciting professional development opportunity! Applications are due March 15, 2017.

Complete details and application forms can be found at:

www.aai.org/Education/Summer_Teachers/index.html

Contact **Mary T. Litzinger, Ph.D.**, with any questions: mlitzinger@aai.org or 301.634.7820.



AAI is a professional association dedicated to advancing the discipline of immunology and representing the interests of scientists engaged in research in the field. AAI sponsors the High School Teachers Summer Research Program in Immunology in an effort to cultivate the next generation of talented investigators and enhance public understanding of the critical nature of basic research to human health.

Curricula from past program participants are available to other teachers through an archive maintained on the AAI web site.

Find ideas for incorporating the excitement of immunology into your classroom!

Recent topics include:

- *A Bioinformatics Approach to Systemic Lupus Erythematosus and Autoimmunity*
- *Exploring the Link Between Regulatory T Cells and Tumor Growth: A Lesson in the Immune System and Cancer*
- *How Can Students Combine Computational Biology Tools with a Laboratory Model to Analyze Changes in the Human Gut Microbiome?*
- *Vaccines and Herd Immunity*

Take advantage of this free educational resource! To view the complete teaching material archive, visit www.aai.org/Education/Summer_Teachers/Archive.html.

The American Association of Immunologists



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Bethesda, MD 20852
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AAI Summer Immunology Courses Attract a Record 482 Registrants

The AAI Introductory and Advanced Courses in Immunology, held annually every summer, reached a record high of 482 registrants in 2016. Each course brings students and some of the top names in immunology research together for an intensive week of immunology education.

2016 AAI Introductory Course in Immunology

The 2016 AAI Introductory Course in Immunology drew 217 registrants from the United States and eight foreign countries in its third year at the Long Beach Convention Center in Long Beach, California, July 9–14. Juan Carlos Zúñiga-Pflücker (AAI '96), University of Toronto and Sunnybrook Research Institute, returned as course director.

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

Scientists participating as 2016 course faculty, along with the topics they covered, appear at www.aai.org/Education/Courses/Intro/Schedule.html. In evaluations, course participants praised the lecturers. One attendee said, "All of the instructors were fantastic; it was evident they thoroughly understood the material. It was a privilege to learn first hand from some of the experts in the field." Another affirmed, "I can't imagine any other way to have learned this much in as short a time."

Overseas attendees at this year's course included representatives of Argentina, Canada, Ghana, Ireland, Kenya, South Africa, South Korea, and Turkey. Among them were three International Union of Immunological Societies (IUIS)

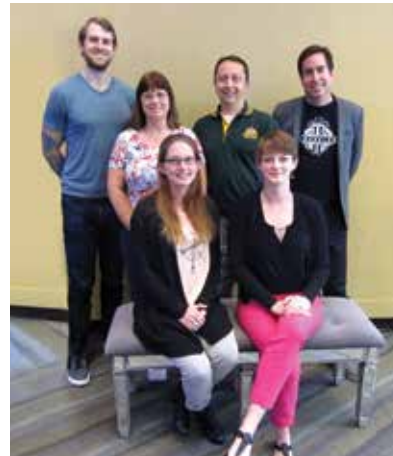


From left, AAI-IUIS Scholar Nathan M. Shaviya, Course Director Juan Carlos Zúñiga-Pflücker, and AAI-IUIS Scholars Maria Paula Caruso and Daniel Antwi-Berko

Scholars, recipients of support from AAI and the IUIS to attend the AAI course:

- **Daniel Antwi-Berko**, Kwame Nkrumah University of Science and Technology, Ghana
- **Maria Paula Caruso**, Instituto de Investigaciones Biomédicas en Retrovirus y SIDA, Argentina
- **Nathan M. Shaviya**, Masinde Muliro University of Science and Technology, Kenya

Participants in the AAI High School Teachers Program are offered the opportunity to attend this intensive introductory course and take part in a research experience with the goal of enhancing their ability to convey the excitement of immunology to their students. This year's Intro Course attendees included five AAI High School Teachers Program participants:



From left, AAI High School Teachers Program participants Kevin Clemente, Victoria Salo, Heather Potts, Jason Econome, and Cassandra Bonvissuto with Course Director Juan Carlos Zúñiga-Pflücker

- **Cassandra Bonvissuto**, Poland Seminary High School, Poland, OH
- **Kevin Clemente**, Juanita High School, Kirkland, WA
- **Jason Econome**, Stuyvesant High School (District 2), New York, NY
- **Heather Potts**, Wayne Valley High School, Wayne, NJ
- **Victoria Salo**, Biddeford High School, Biddeford, ME

The 2017 AAI Introductory Course will be held **July 11–16** at the UCLA Luskin Conference Center in Los Angeles, California. Details will be published on the AAI website in February 2017 (www.aai.org/Education/Courses).

2016 AAI Advanced Course in Immunology

The 2016 AAI Advanced Course in Immunology drew a record 265 registrants from around the United States and 18 foreign countries in its fifth year at the Seaport World Trade Center in Boston, Massachusetts, July 31–August 5. Ulrich H. von



Course Director Ulrich H. von Andrian (AAI '97) addresses anatomical challenges of the immune response.

Andrian, Harvard Medical School and Ragon Institute at MGH, MIT and Harvard, served his first year as course director. His service at the helm of the Advanced Course adds to his previous work for AAI, including terms on the Program and Nominating Committees, lectures for the Introductory and Advanced Courses, and speaking at the AAI annual meeting, including Distinguished Lecturer at IMMUNOLOGY 2016™.

Designed for advanced trainees and scientists who wish to expand or update their understanding of the field, the intensive AAI Advanced Course is taught by world-renowned immunologists, highlighting recent advances in the biology of the immune system and addressing its role in health and disease.

Scientists participating as 2016 course faculty, along with the topics they covered, appear at aai.org/Education/Courses/Advanced/Schedule.html. Responses to the



Left, Lisa Butterfield (AAI '93) responds to questions about cancer immunotherapy clinical trials.

course survey were highly favorable. One attendee said, “This course was absolutely phenomenal! I had very high expectations for this course based on feedback I received from other students, and all of my expectations were exceeded. It was evident that all lecturers were experts in their respective fields and were very knowledgeable about their subject areas.” Another said, “I appreciated the lectures in which instructors presented current data in the context of what is already known.”

Overseas attendees at this year’s course included representatives of Argentina, Belgium, Brazil, Burkina Faso, Canada, China, Denmark, Finland, Germany, Italy, Japan, Kenya, Norway, Saudi Arabia, South Korea, Sweden, Switzerland, and Uruguay. Among them were four IUIS Scholars, recipients of support from AAI and the IUIS to attend the AAI course:

- **Ana Maite Folle López**, Universidad de la Republica, Uruguay
- **Luísa Mourão Dias Magalhães**, Federal University of Minas Gerais, Brazil
- **Maia Solange Marin**, National Institute of Agricultural Technology, Argentina
- **David Eric Ouedraogo**, Institute of Research in Health Sciences, Burkina Faso

The 2017 AAI Advanced Course will be held **July 23–28** at the Seaport World Trade Center in Boston. Details will be published on the AAI website in February 2017 (www.aai.org/Education/Courses).



From left, Manager of AAI Educational and Career Development Programs Mary Litzinger and AAI-IUIS Scholars Ana Maite Folle López, Luísa Mourão Dias Magalhães, and Maia Solange Marin

AAI Supports Travel Awardees Attendance at ICI 2016

More than 4,000 scientists from 70 countries, including AAI members and staff, gathered at the International Congress of Immunology (ICI) 2016, held August 21–26 in Melbourne, Australia.

Jose A. Villadangos (AAI '10), professor at The University of Melbourne and president of the ICI 2016, welcomed attendees to Melbourne in the opening ceremony. The ceremony was followed by a welcome reception that gave attendees the opportunity to mingle in the exhibit hall, not to mention meeting native Australian animals.

The ICI scientific program featured 100 invited speakers, including a master lecture by AAI President Arlene H. Sharpe (AAI '96), Harvard Medical School, and the presentation of over 3,500 abstracts. The recipients of the 2016 Novartis Prizes for Immunology were recognized in an award ceremony. The prize for basic immunology was awarded to John Kappler (AAI '74), National Jewish Health; Philippa Marrack (AAI '74), National Jewish Health; and Harald von Boehmer (AAI '92), Emeritus, Harvard Medical School. The clinical immunology prize went to Zelig Eshhar, Weizmann Institute of Science; Carl June (AAI '87), University of Pennsylvania; and Steven Rosenberg (AAI '72), National Institutes of Health.



The ICI program also included a humorous immunology debate in which participants argued for and against the view that adaptive immunity is innately redundant. Past AAI President Lauri Glimcher (AAI '83), Dana Farber Cancer Institute, received an IUIS award “in appreciation for being an inspiration to women immunologists around the world.”

AAI was pleased to provide over \$580,000 for awards and grants to support talented scientists in attending the ICI 2016. AAI awarded 219 members with AAI Travel Grants for ICI 2016. AAI also supported the 20 scientists with ICI-AAI Travel Grants for

Immunologists from Developing Countries. The listing for both groups of recipients begins on the following page.

AAI staff hosted a booth in the exhibit hall. At the booth and elsewhere at the conference, Executive Director M. Michele Hogan, Publication Director Kaylene Kenyon, Membership Manager Jennifer Woods, and Manager of Educational and Career Development Programs Mary Litzinger engaged ICI attendees in discussions about AAI membership, outreach, and career development opportunities.

ICI-AAI Travel Grant Recipients

1. **Joshua Evans Bajao**, *University of Santo Tomas*, Philippines
2. **Mohamed Ridha Barbouche**, *Pasteur Institute of Tunis*, Tunisia
3. **Fang Fang**, *University of Science and Technology of China*, China
4. **Guotong Fu**, *Zhejiang University*, China
5. **Paulina García-González**, *Universidad de Chile*, Chile
6. **Chandima Jeewandara**, *University of Sri Jayewardenapura*, Sri Lanka
7. **Uma Kanga**, *All India Institute of Medical Sciences*, India
8. **Juan Liu**, *Second Military Medical University*, China
9. **Mariana Maccioni**, *CIBICI-CONICET Universidad Nacional de Córdoba*, Argentina



Recipients of the AAI Travel Grants for ICI 2016



Continued, next page

AAI Supports ICI Travel Awardees (Continued)



Membership Manager Jennifer Woods and Publication Director Kaylene Kenyon chat with ICI attendees at the AAI exhibit booth.

10. **Liliana Moura Massis**, *University of Sao Paulo, Brazil*
11. **Thandeka Moyo**, *University of Cape Town, South Africa*
12. **Suraj Parihar**, *University of Cape Town, South Africa*
13. **Simone Richardson**, *National Institute of Communicable Diseases, South Africa*
14. **Juan De Dios Ruiz-Rosado**, *Universidad Nacional Autonoma de Mexico, Mexico*
15. **Nurul Iman Nilam Sari**, *Harapan Kita Women and Children Hospital, Indonesia*
16. **Sandip Sonar**, *National Centre for Cell Science, India*
17. **Djalma Souza Lima Junior**, *University of Sao Paulo, Brazil*
18. **Aurobind Vidyarthi**, *Council of Scientific & Industrial Research, Institute of Microbial Technology, India*
19. **Wenyan Wang**, *Tsinghua University School of Medicine, China*
20. **Yin Zongyi**, *First Hospital of China Medical University, China*

AAI Travel Grants for ICI 2016

Nicole V. Acuff, Graduate Student, *University of Georgia*

Anshu Agrawal, Ph.D., Associate Adjunct Professor, *University of California, Irvine*

Ali Ahmad, Ph.D., Associate Professor, *University of Montreal*

Reza Alimohammadi, Ph.D., M.S., Graduate Student, *Shahid Beheshti University of Medical Sciences*

Irving C. Allen, Ph.D., Assistant Professor, *Virginia Tech*

Samita S. Andreansky, Ph.D., Assistant Professor, *University of Miami Miller School of Medicine*

Pornpimon Angkasekwinai, Ph.D., Assistant Professor, *Thammasat University*

Marcia Arenas-Hernandez, Graduate Student, *Wayne State University*

Amit Awasthi, Ph.D., Assistant Professor, *Translational Health Science & Technology Institute*

Xue-Feng Bai, M.D., Ph.D., Associate Professor, *Ohio State University*

Joan-Miquel Balada-Llasat, Ph.D., Pharm.D., Assistant Professor, *Ohio State University*

Ilan Bank, M.D., Deputy Head, *Sheba Medical Center, Tel Aviv University*

Tatiana Barichello, Pharm.D., Ph.D., Assistant Professor, *UT Health Science Center at Houston*

Charles L. Bevins, M.D., Ph.D., Professor, *University of California, Davis School of Medicine*

Haribabu Bodduluri, Ph.D., Professor, *University of Louisville*

Subbarao Bondada, Ph.D., Professor, *University of Kentucky*

Lisa H. Butterfield, Ph.D., Professor, *University of Pittsburgh*

Joseph M. Cantor, Ph.D., Assistant Professor, *University of California, San Diego*

James R. Carlyle, Ph.D., Associate Professor, *University of Toronto*

Devavani Chatterjea, Ph.D., Associate Professor, *Macalester College*

Nagarjuna R. Cheemarla, Graduate Research Assistant, *Louisiana State University*

Bogoljub Ciric, Ph.D., Assistant Professor, *Thomas Jefferson University*

Amanda M. Costa, Graduate Student, *Dartmouth College*

Ben A. Croker, Ph.D., Assistant Professor, *Boston Children's Hospital*

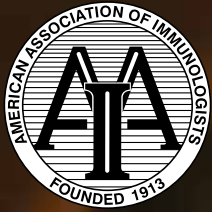
Soumita De, Senior Research Fellow, *Institute of Post-Graduate Medical Education and Research*

Indhira De La Rosa, Ph.D., Postdoctoral Associate, *Baylor College of Medicine*

Abbe N. de Vallejo, Ph.D., Associate Professor, *University of Pittsburgh School of Medicine*

Gudrun Debes, D.V.M., Assistant Professor, *University of Pennsylvania School of Veterinary Medicine*

Continued, next page



AAI Courses in Immunology

2017 Introductory Course in Immunology

July 11–16, 2017

UCLA Luskin Conference Center, Los Angeles, California

Director: **Juan Carlos Zúñiga-Pflücker, Ph.D.**

University of Toronto and Sunnybrook Research Institute

This comprehensive two-part course, taught by leading experts, provides an in-depth 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 11–13)** is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. **Part II (July 14–16)** is a clinically oriented lecture series focusing on specialty areas. Parts I and II may be taken independently at the discretion of the student.

2017 Advanced Course in Immunology

July 23–28, 2017

Seaport World Trade Center, Boston, Massachusetts

Director: **Ulrich H. von Andrian, M.D., Ph.D.**

Harvard Medical School and Ragon Institute at MGH, MIT and Harvard

Established in 1966, this intensive course is directed toward advanced trainees and scientists who wish to expand or update their understanding of the field. World-renowned immunologists will present recent advances in the biology of the immune system and address its role in health and disease. This is not an introductory course; attendees will need to have a firm understanding of the basic principles of immunology and laboratory techniques.

For more information visit

www.aai.org/Education/Courses

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

OUTREACH UPDATE

AAI Travel Grants for ICI 2016 (Continued)

- Rodney P. DeKoter, Ph.D.**, Associate Professor, *Western University*
- Meihong Deng, M.D.**, Research Assistant Professor, *University of Pittsburgh*
- Joseph S. Dolina, Ph.D.**, Postdoctoral Research Fellow, *La Jolla Institute for Allergy and Immunology*
- Jeffrey M. Duggan**, Graduate Student, *University of Washington*
- Sarah J. Dulson**, Graduate Student, *University of Alabama at Birmingham*
- Ahmet Eken, Ph.D.**, Assistant Professor, *Erciyes University*
- Francis Eko, D.Sc.**, Professor, *Morehouse School of Medicine*
- Jason S. Ellis, Ph.D.**, Research Assistant Professor, *The Curators of the University of Missouri*
- Diba Emal**, Graduate Student, *Academic Medical Center Amsterdam*
- Pablo Engel, M.D., Ph.D.**, Associate Professor, *University of Barcelona*
- Marissa Fahlberg**, Graduate Student, *Tulane University*
- Victoria Fang**, Graduate Student, *NYU School of Medicine*
- A. Darise Farris, Ph.D.**, Associate Member, *Oklahoma Medical Research Foundation*
- Nadeem Fazal, M.D., Ph.D.**, Professor, *Chicago State University*
- Viviana P. Ferreira, D.V.M., Ph.D.**, Associate Professor, *University of Toledo College of Medicine and Life Sciences*
- Osric A. Forrest**, Graduate Student, *Emory University*
- Michael L. Freeman, Ph.D.**, Instructor, *Case Western Reserve University*
- Wenxian Fu, Ph.D.**, Assistant Professor, *University of California, San Diego*
- Ramya Ganesan**, Graduate Student, *Wright State University*
- Ramon Garcia-Areas**, Graduate Student, *Florida Atlantic University*
- Lee Ann Garrett-Sinha, Ph.D.**, Associate Professor, *SUNY at Buffalo*
- Eliver Ghosn, Ph.D.**, Research Associate Fellow, *Stanford University School of Medicine*
- Caitlin M. Gillis**, Graduate Student, *Institut Pasteur*
- Julio Gomez-Rodriguez, Sr., Ph.D.**, Staff Scientist, *NIH*
- Misty Good, M.D.**, Assistant Professor of Pediatrics, *Children's Hospital of Pittsburgh*
- Richard E. Goodman, Ph.D.**, Research Professor, *University of Nebraska-Lincoln*
- Sergei Grivennikov, Ph.D.**, Assistant Professor, *Fox Chase Cancer Center*
- Melanie R. Gubbels Bupp, Ph.D.**, Associate Professor, *Randolph-Macon College*
- Mireia Guerau-De-Arellano, Pharm.D., Ph.D.**, Assistant Professor, *Ohio State University*
- Beichu Guo, Ph.D.**, Assistant Professor, *Medical University of South Carolina*
- Hamza N. Hanieh, Ph.D.**, Assistant Professor, *King Faisal University*
- Boris Hartmann, Ph.D.**, Assistant Professor, *Icahn School of Medicine at Mount Sinai*
- Karen Hastings, M.D., Ph.D.**, Associate Professor, *University of Arizona College of Medicine Phoenix*
- Gyri Haugland, Ph.D.**, Researcher, *University of Bergen*
- Yukai He, M.D., Ph.D.**, Professor, *Augusta University*
- Masayuki Hirano, Ph.D.**, Assistant Professor, *Emory University*
- Brad E. Hoffman, Ph.D.**, Assistant Professor, *University of Florida*
- Nichol E. Holodick, Ph.D.**, Institute Scientist, *Feinstein Institute for Medical Research*
- David J. Holthausen**, Graduate Student, *Emory University*
- Haitao Hu, M.D., Ph.D.**, Assistant Professor, *University of Texas Medical Branch*
- Hai Huang, M.D.**, Research Assistant Professor, *University of Pittsburgh*
- April M. Huseby Kelcher**, Graduate Student, *Mayo Graduate School*
- Jin S. Im, M.D., Ph.D.**, Instructor, *University of Texas MD Anderson Cancer Center*
- Tracy In**, Graduate Student, *Sunnybrook Research Institute, University of Toronto*
- Gregory C. Ippolito, Ph.D.**, Research Assistant Professor, *University of Texas at Austin*
- Zeina Jaffar, Ph.D.**, Research Assistant Professor, *University of Montana*
- Salema Jafri**, Graduate Student, *University of Cambridge*
- J M K Chandima Jeewandara, M.B.B.S.**, Graduate Student, *Center for Dengue Research*
- Venkatesh Jeganathan, Ph.D.**, Research Scientist, *Feinstein Institute for Medical Research*
- Wei Jiang, M.D.**, Assistant Professor, *Medical University of South Carolina*
- Vandana Kalia, Ph.D.**, Assistant Professor, *University of Washington School of Medicine*
- Laurel B. Kartchner**, Graduate Student, *University of North Carolina at Chapel Hill*
- Azad Kaushik, D.Sc., D.V.M.**, Associate Professor, *University of Guelph*
- William Kerr, Ph.D.**, Murphy Family Professor of Children's Oncology Research, *SUNY Upstate Medical University*
- Mohamed Khass, Ph.D.**, Postdoctoral Fellow, *University of Alabama, Birmingham*
- Sung Kim, Ph.D.**, Associate Professor, *University of Western Ontario*
- You-Me Kim, Ph.D.**, Assistant Professor, *Pohang University of Science and Technology*
- Girish S. Kirimanjeswara, D.V.M., Ph.D.**, Assistant Professor, *Pennsylvania State University*
- Koichi S. Kobayashi, M.D., Ph.D.**, Professor, *Texas A&M Health Science Center*
- Elizabeth Kolawole, Ph.D.**, Postdoctoral Research Fellow, *Emory University*
- Ekaterina Koltsova, M.D., Ph.D.**, Assistant Research Professor, *Fox Chase Cancer Center*
- Sergei B. Koralov, Ph.D.**, Assistant Professor, *New York University*
- ChiaChi Ku, Ph.D.**, Assistant Professor, *National Taiwan University*
- Pawan Kumar, Ph.D.**, Instructor, *University of Pittsburgh*
- Rajiv Kumar, Ph.D.**, INSPIRE Faculty (Assistant Professor), *Netaji Subhas Institute of Technology*
- Girdhari Lal, Ph.D.**, Scientist 'E', *National Centre for Cell Science*

Tracey J. Lamb, Ph.D., Assistant Professor, *Emory University School of Medicine*

Dhafer Laouini, Ph.D., Associate Professor, *Institut Pasteur de Tunis*

Sasha E. Larsen, M.S., Graduate Student, *Uniformed Services University of the Health Sciences*

Sylvie Le Gall, Ph.D., Assistant Professor, *Massachusetts General Hospital/Harvard Medical School*

Graham R. Leggatt, Ph.D., Research Fellow/Senior Lecturer, *University of Queensland Diamantina Institute*

Quanzhen Li, Ph.D., Associate Professor, *University of Texas Southwestern Medical Center*

Bei Liu, M.D., M.P.H., Assistant Professor, *Medical University of South Carolina*

Wanli Liu, Ph.D., Assistant Professor, *Tsinghua University*

Yuan Liu, M.D., Ph.D., Professor, *Georgia State University*

Ulrike M. Lorenz, Ph.D., Associate Professor, *University of Virginia*

Binfeng Lu, Ph.D., Associate Professor, *University of Pittsburgh School of Medicine*

Emily M. Mace, Ph.D., Assistant Professor, *Baylor College of Medicine*

Fathia Mami-Chouaib, Ph.D., Research Director, *INSERM U1186*

Rebecca Martin, Ph.D., Postdoctoral Fellow, *Virginia Commonwealth University*

Amanda Marzo, Ph.D., Assistant Professor, *Rush University Medical Center*

Damian Maseda, Ph.D., Postdoctoral Associate, *Vanderbilt University Medical Center*

Stephen O. Mathew, Ph.D., Assistant Professor, *UNT Health Science Center*

Guangxun Meng, Ph.D., Laboratory Chief, *Institut Pasteur of Shanghai*

Francoise Meylan, Ph.D., Staff Scientist, *NIAMS, NIH*

Anil Mishra, Ph.D., Endowed Schlieder Chair and Professor of Medicine, *Tulane University School of Medicine*

Manoj K. Mishra, Ph.D., Associate Professor, *Alabama State University*

Claudia Gabriela Mitrofan, Graduate Student, *University of Cambridge*

Halima Moncrieffe, Ph.D., Instructor, *Cincinnati Children's Hospital Medical Center*

Elena Morandi, M.S., Graduate Student, *University of Nottingham*

Joshua Moreau, Graduate Student, *Princess Margaret Cancer Centre*

Penelope A. Morel, M.D., Professor, *University of Pittsburgh*

Ioannis Morianos, Ph.D., Postdoctoral Fellow, *Biomedical Research Foundation of the Academy of Athens*

Kamal D. Moudgil, M.D., Ph.D., Professor, *University of Maryland School of Medicine*

Hong-Hua Mu, M.D., Ph.D., Associate Professor, *University of Utah School of Medicine*

Mustafa G. Mujtaba, Ph.D., Assistant Professor, *Florida Gulf Coast University*

James T. Muller, II, Graduate Student, *NYU School of Medicine*

Carlos Muñoz Minutti, Sr., Graduate Student, *Universidad Complutense de Madrid*

Ian Myles, M.D., Transitional Clinical Fellow, *NIH*

Soheil Najafi, Graduate Student, *Tehran University of Medical Science School of Public Health*

Hiroshi Nakajima, M.D., Ph.D., Professor, *Graduate School of Medicine, Chiba University*

Toshinobu Nishimura, Ph.D., Postdoctoral Fellow, *Stanford University School of Medicine*

Mahyar A. Nouri-Shirazi, D.V.M., Ph.D., Associate Professor, *Florida Atlantic University*

Moses Odugbo, Ph.D., Assistant Director Research, *National Veterinary Research Institute*

Sungwhan Oh, Ph.D., Research Fellow, *Harvard Medical School*

Sergio Oliveira, D.V.M., Ph.D., Professor, *Universidade Federal de Minas Gerais*

Emrah Ozay, Graduate Student, *University of Massachusetts Amherst*

Chelsea R. Parker Harp, Graduate Student, *Washington University in St. Louis*

Santiago Partida-Sanchez, Ph.D., Associate Professor, *Nationwide Children's Hospital*

Jon D. Piganelli, Ph.D., Associate Professor, *University of Pittsburgh School of Medicine*

Meenu R. Pillai, Ph.D., Staff Scientist, *St. Jude Children's Research Hospital*

Daniel A. Powell, Ph.D., Postdoctoral Researcher, *University of Arizona*

Ellis J. Powell, Ph.D., Graduate Research Assistant, *Iowa State University*

Zhijuan Qiu, Ph.D., Postdoctoral Fellow, *Stony Brook University*

Tam D. Quach, Ph.D., Postdoctoral Fellow, *Feinstein Institute for Medical Research*

Malini Raghavan, Ph.D., M.S., Professor, *University of Michigan Medical School*

Parameswaran Ramakrishnan, Ph.D., Assistant Professor, *Case Western Reserve University*

Srinika Ranasinghe, Ph.D., Senior Research Scientist, *Ragon Institute of MGH, MIT and Harvard*

Jason S. Rawlings, Ph.D., Assistant Professor, *Furman University*

Eduardo Reyes-Vargas, Graduate Research Assistant, *University of Utah*

Kevan Roberts, Ph.D., Associate Professor, *University of Montana*

Noe Rodriguez Rodriguez, Research Student, *Instituto Nacional de Ciencias Medicas y Nutricion Salvador Zubiran*

Melissa Ruck, Graduate Student, *University of California, San Francisco*

Horea G. Rus, M.D., Ph.D., Professor, *University of Maryland School of Medicine*

Roland Ruscher, Ph.D., Postdoctoral Fellow, *University of Minnesota*

Scheherazade Sadegh-Nasseri, Ph.D., Professor, *Johns Hopkins Medical Institute*

Shashikumar K. Salgar, D.V.M., Ph.D., Immunologist/Physiologist, *Madigan Army Medical Center*

Amali Samarasinghe, Ph.D., Assistant Professor, *University of Tennessee Health Science Center*

Buka Samten, M.D., Associate Professor, *University of Texas Health Science Center, Tyler*

Mark Y. Sangster, Ph.D., Research Associate Professor, *University of Rochester*

Sophia D. Sarafova, Ph.D., Associate Professor, *Davidson College*

Continued, next page

OUTREACH UPDATE

AAI Travel Grants for ICI 2016 (Continued)

Surojit Sarkar, Ph.D., Assistant Professor, *University of Washington School of Medicine*

Francesco Schiavone, M.D., Graduate Student, *Sapienza University*

David W. Scott, Ph.D., Professor and Vice Chair for Research, *Uniformed Services University of Health Sciences*

Tzvia Segal-Abramson, Ph.D., Professor, *San Jose State University*

Periasamy Selvaraj, Ph.D., Professor, *Emory University School of Medicine*

Tamer Shabaneh, Graduate Student, *Geisel School of Medicine at Dartmouth*

Wenhai Shao, Ph.D., Assistant Professor, *Temple University School of Medicine*

Namit Sharma, D.V.M., Ph.D., Postdoctoral Fellow, *Hospital For Sick Children*

Nilabh Shastri, Ph.D., Professor, *University of California, Berkeley*

JianRong Sheng, Ph.D., Assistant Professor, *University of Chicago*

Kim R. Simpfendorfer, Ph.D., Institute Scientist, *Feinstein Institute for Medical Research*

Kelly L. Singel, Graduate Student, *Roswell Park Cancer Institute*

Narendra Singh, Ph.D., Professor, *University of South Carolina School of Medicine*

Om Prakash Singh, Ph.D., Postdoctoral Fellow (Scientist Grade), *Banaras Hindu University*

Ram Singh, M.D., Professor of Medicine and Pathology, *University of California, Los Angeles*

Udai P. Singh, Ph.D., Associate Professor of Pathology, Microbiology & Immunology, *University South Carolina School of Medicine*

Megan Smithey, Ph.D., Research Assistant Professor, *University of Arizona*

Jim Song, Ph.D., Associate Professor, *Penn State University College of Medicine*

Lynn Soong, Ph.D., M.D., Professor, *University of Texas Medical Branch*

Igor Splichal, Ph.D., Researcher, *Institute of Microbiology of the CAS*

John Stambas, Ph.D., Associate Professor, *Deakin University*

Branislava Stankovic, M.S., Graduate Student, *Rikshospitalet Oslo*

Jamie L. Sturgill, Ph.D., Assistant Professor, *Virginia Commonwealth University*

Jiaren Sun, M.D., Ph.D., Professor, *University of Texas Medical Branch*

Xiao-Hong Sun, Ph.D., Lew and Myra Ward Chair In Biomedical Research, *Oklahoma Medical Research Foundation*

Neil Surana, M.D., Ph.D., Instructor, *Boston Children's Hospital*

Marulasiddappa R. Suresh, D.V.M., Ph.D., Professor, *University of Wisconsin-Madison*

Kavya Swaminathan, Ph.D., Postdoctoral Fellow, *Stanford University*

Yuri Sykulev, M.D., Ph.D., Professor, *Thomas Jefferson University*

Xiaolei Tang, M.D., Ph.D., Assistant Professor, *Loma Linda University*



Harbor near the Melbourne Convention Center

Masaki Terabe, Ph.D., Associate Scientist, *NCI, NIH*

Bolaji Thomas, Ph.D., Associate Professor, *Rochester Institute of Technology*

Linda F. Thompson, Ph.D., Member, *Oklahoma Medical Research Foundation*

Felix N. Toka, D.Sc., D.V.M., Ph.D., Associate Professor, *Ross University School of Veterinary Medicine*

Christos Tsatsanis, Ph.D., Associate Professor, *University of Crete*

David Tschärke, Ph.D., NHMRC SRFA, John Curtin School of Medical, *Australian National University*

Deepak Upreti, M.S., Graduate Student, *University of Manitoba College of Medicine*

Jude E. Uzonna, Ph.D., D.V.M., Associate Professor, *University of Manitoba*

Peter M. Van Endert, M.D., Professor of Immunology, *INSERM U1151, Hospital Necker*

Nicolai S. van Oers, Ph.D., Associate Professor, *UT Southwestern Medical Center*

Joshua A. Vieth, Ph.D., Postdoctoral Fellow, *Child Health Institute of NJ/Rutgers University*

Girish N. Vyas, Ph.D., Professor Emeritus, *University of California, San Francisco*

Shengjun Wang, Ph.D., Principal Investigator, *Jiangsu University*

Xiang-Yang Wang, Ph.D., Professor, *Virginia Commonwealth University*

Yui-Hsi Wang, Ph.D., Assistant Professor, *University of Cincinnati College of Medicine*

Stephanie S. Watowich, Ph.D., Professor, *University of Texas MD Anderson Cancer Center*

Alexander Wein, Graduate Student, *Emory University*

Astar Winoto, Ph.D., Professor, *University of California, Berkeley*

Deborah Witherden, Ph.D., Senior Staff Scientist, *Scripps Research Institute*

Jacek Witkowski, M.D., D.Sc., Ph.D., Professor, *Medical University of Gdansk*

Hsin-Jung Wu, Ph.D., Assistant Professor, *University of Arizona*

Min Wu, M.D., Ph.D., Professor, *University of North Dakota*

Huang-Yu Yang, M.D., Ph.D., Assistant Professor, *Chang Gung Memorial Hospital*

Hung-Rong Yen, M.D., Ph.D., Associate Professor, *China Medical University Hospital*

Ben A. Youngblood, Ph.D., Assistant Member, *St. Jude Children's Research Hospital*

Hans Yssel, Ph.D., Director of Research, *INSERM U1135*

Tomasz Zal, Ph.D., Associate Professor, *University of Texas MD Anderson Cancer Center*

Mingtao Zeng, Ph.D., Associate Professor, *Texas Tech University Health Sciences Center*

Song Zheng, M.D., Ph.D., Professor of Medicine, *Penn State University College of Medicine*

Norberto W. Zwirner, Ph.D., Principal Investigator, *IBYME*

FEATURE

Plan Ahead

Information to help you plan your attendance at IMMUNOLOGY 2017™

Mark your calendar! IMMUNOLOGY 2017™ will be here before you know it. With our 101st annual meeting taking place in Washington, D.C., IMMUNOLOGY 2017™ promises to feature incredible science right in the heart of where decisions are made for major science funding.

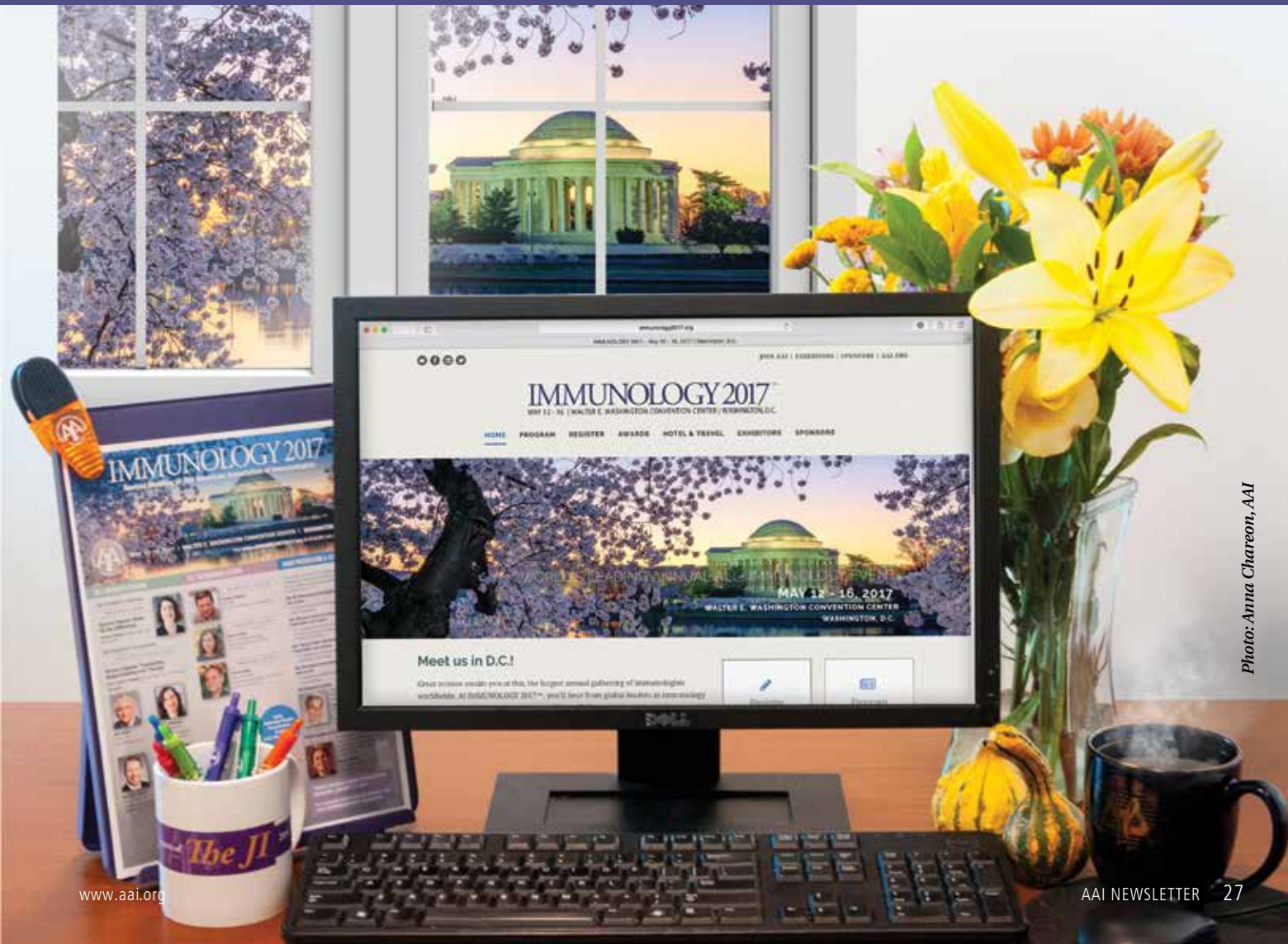


Photo: Anna Chareon, AAI

Plan Ahead for IMMUNOLOGY 2017™

Website

For the most up-to-date information, please visit www.IMMUNOLOGY2017.org to learn more about the scientific program, abstract submission and abstract-driven sessions, career-advancement sessions and events, awards information, social events, travel and housing, visiting Washington D.C., and more. You can also download, print, email, and share the *Call for Abstracts* for IMMUNOLOGY 2017™.

Dates and Location

IMMUNOLOGY 2017™ will be held May 12–16, 2017, at the Walter E. Washington Convention Center in Washington, D.C. Temperatures in May are in the mid-70s, making it a perfect time to enjoy the many monuments and museums that the nation's capital has to offer.

For information on sights to see, things to do, and places to dine, visit www.washington.org.

Other important dates:

- **December 20, 2016**
Registration Opened
- **January 11, 2017**
Abstract Submission Closes
Travel Award & Grant Applications Due
- **March 30, 2017**
Early Registration Discount Ends
- **April 20, 2017**
Discounted Hotel Rate Ends

Scientific Program

The President's Address by AAI President Arlene Sharpe officially starts the meeting on Friday evening, **May 12**.

"In my talk, I plan to discuss my work on T cell costimulatory and coinhibitory pathways, which provide positive and negative second signals that regulate T cell responses," said Sharpe of her address, *Second signals make all the difference*.

Later in the week on Monday, Sharpe will chair the President's Symposium. This session will feature leaders in the field of costimulatory and coinhibitory signals, and how research into the receptors mediating these signals and how this research has been, and continue to be, translated into therapies. Each full day of the meeting concludes with a Distinguished Lecture presented by one of three outstanding scientists: Giorgio Trinchieri, Ellen Robey and Gabriel Núñez. Eight Major Symposia,

each featuring 6 speakers, address topics of immediate interest, and intriguing science will be presented in sessions organized by 5 NIH institutes, 19 societies in 18 Guest Symposia from around the world, and many AAI Committees. This dynamic week of exciting science, and more, can be viewed at www.immunology2017.org/.

Abstracts

The most interactive part of any scientific meeting is the presentation of unpublished data in the form of abstracts. Select abstracts will be presented in oral sessions (Block Symposia), and all abstracts will be featured in Poster Sessions in the Exhibit Hall. ***Poster Sessions will be unopposed by any other sessions!***

Abstract submission opened on November 22, 2016, and will close January 11, 2017. To submit an abstract, visit www.immunology2017.org/abstracts/.

Abstract Topic Categories:

- Antigen Processing and Presentation
- Basic Autoimmunity
- Cellular Adhesion, Migration, and Inflammation
- Cytokines and Chemokines and their Receptors
- Hematopoiesis and Immune System Development
- Immediate Hypersensitivity, Asthma, and Allergic Responses
- Immune Mechanisms of Human Disease
- Immune Response Regulation: Cellular Mechanisms
- Immune Response Regulation: Molecular Mechanisms
- Immunology Education
- Innate Immune Responses and Host Defense: Cellular Mechanisms
- Innate Immune Responses and Host Defense: Molecular Mechanisms
- Lymphocyte Differentiation and Peripheral Maintenance
- Microbial, Parasitic, and Fungal Immunology
- Mucosal and Regional Immunology
- Technological Innovations in Immunology
- Therapeutic Approaches to Autoimmunity
- Transplantation Immunology
- Tumor Immunology
- Vaccines and Immunotherapy
- Veterinary and Comparative Immunology
- Viral Immunology

Career Education/Information

In addition to the latest scientific advances in the field, IMMUNOLOGY 2017™ will feature career sessions to help scientists at every stage in their careers. Two perennially popular sessions are the *Careers in Science Roundtable* (sponsored by the AAI Education Committee and the Committee on the Status of Women) and the *Careers Roundtable and Speed Networking Session* (sponsored by the AAI Minority Affairs Committee). Both events are interactive sessions with experienced scientists ready to answer your career questions and lead discussions on many career-oriented topics. The AAI Education Committee will sponsor two popular sessions: *Careers in Biotech*, a panel discussion with networking afterward, and the *Immunology Teaching Interest Group*, which will focus on strategies to improve the teaching of immunology. Other sessions and resources include:

- How to Convert Your CV into a Resumé
- Secrets for a Successful Postdoctoral Fellowship
- Interviewing for a Job
- NIH Grant Review and Funding Information Room
- Jobs Board (for employers and job hunters)

Travel Awards

Travel awards and grant applications opened November 22, 2016, and will close January 11, 2017. Awards are:

- Lefrançois-BioLegend Award
- Chambers-Thermo Fisher Scientific Award
- Lustgarten-Thermo Fisher Scientific Award
- Pfizer-Showell Travel Award
- AAI Undergraduate Faculty Travel Grant
- AAI Early Career Faculty Travel Grant
- AAI Laboratory Travel Grant
- AAI Trainee Abstract Award
- AAI Trainee Poster Award
- AAI-Thermo Fisher Trainee Achievement Award

You can learn about the details of each of these awards by visiting www.immunology2017.org/awards/travel-awards-grants/.

Registration and Housing

Registration opened December 20, 2016; make your hotel reservations **now** to take advantage of specially discounted hotel rates for meeting attendees. Rooms are booked on a first-come, first-served basis. To get the best price and selection, reserve your rooms early: www.immunology2017.org/hotel-travel/meeting-hotels/.

Exhibit Hall

The Exhibit Hall at IMMUNOLOGY 2017™ brings attendees and exhibitors together for three days of exhibit displays, poster presentations, networking opportunities, and Exhibitor Workshops hosted by exhibiting companies.

Attendees will be able to find the products, services, and technologies that will enable them to advance their research. It is estimated that over 150 companies will exhibit.

Attendees participating in the **Passport to Prizes** will be entered to win American Express gift cards.

AAI Capitol Hill Day

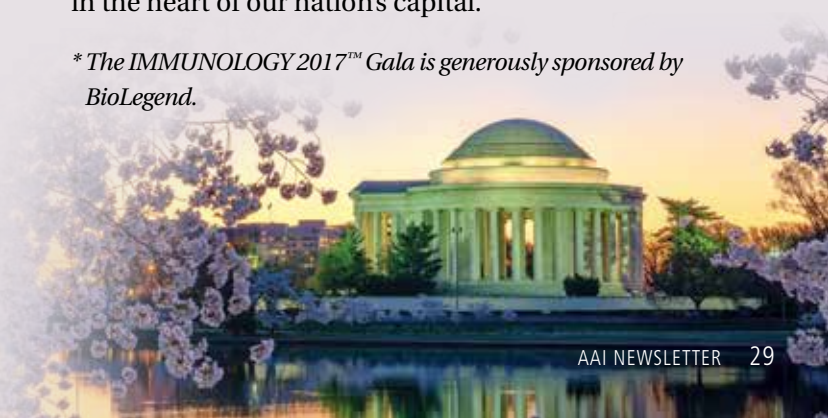
AAI will visit Capitol Hill on Tuesday, May 16, following the conclusion of IMMUNOLOGY 2017™. AAI members who would like to meet with their congressional delegations to advocate for biomedical research and for funding for the National Institutes of Health should indicate their desire to participate when registering for the annual meeting. Although the number of slots available is limited, all AAI members who live in the United States are eligible to participate. AAI will notify interested members as soon as possible and no later than April 7, 2017.

Social Events

Social events at the AAI annual meetings are always the ideal place to reunite with old friends and meet new colleagues. Immediately following the President's Address, attendees will be welcomed to the *Opening Night Reception* in the beautiful balcony foyers of the Walter E. Washington Convention Center. Start the week off with a favorite drink and other refreshments.

On Monday, May 15, 2017, the IMMUNOLOGY 2017™ Gala* will be held at the Newseum, a world-famous, interactive museum of news and journalism, featuring news coverage of historic events around the globe. Attendees will have the opportunity to view iconic Pulitzer Prize-winning photos, read the front page news featured on 80 international newspapers published that very day, and more. Free to all registered attendees, this signature AAI event features drinks, food, and dancing in the heart of our nation's capital.

* The IMMUNOLOGY 2017™ Gala is generously sponsored by BioLegend.



Meet Your 2016–2017 AAI Committees and Chairs

The 12 standing committees of AAI, along with ad hoc committees, help fulfill the AAI mission of advancing research in immunology and related disciplines, fostering an interchange of ideas and information among investigators, and promoting public understanding of immunology and its importance to human health.

AAI committees are served by appointed members and in the case of five – Awards, Finance, Nominating, Program, and Publications – by a combination of elected* and appointed members. Duties of each committee are those specifically authorized under the bylaws, established by other rules of AAI, and assigned by action of the AAI Council. In advance of the Council's spring and fall meetings, each committee chair is obligated to report on the committee's ongoing, planned, and proposed future activities.

Collectively, AAI committee members work together to:

- promote immunology research and advance the efforts of those who carry it out
- contribute to the professional development of AAI member scientists and trainees
- safeguard and responsibly allocate the resources of AAI
- advocate for the immunological community on public policy issues that affect the conduct of research, and

- educate the public and lawmakers about the importance of supporting immunological discovery and its groundbreaking contributions to confronting and countering disease.

Awards Committee



Cathryn Nagler, Ph.D. ('18), Chair
Professor
University of Chicago

Prosper N. Boyaka, Ph.D. ('17)
Professor
Ohio State University

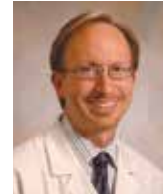
Jason G. Cyster, Ph.D. ('17)
Professor
University of California, San Francisco

Steven L. Reiner, M.D. ('18)
Professor
Columbia University College of Physicians and Surgeons

Cynthia J. Guidos, Ph.D. ('19)
Professor
University of Toronto

Ellen Kraig, Ph.D. ('19)
Professor
University of Texas Health Science Center, San Antonio

Clinical Immunology Committee



Thomas F. Gajewski, M.D., Ph.D. ('18), Chair
Professor
University of Chicago Medical Center

Agnes M. Azimzadeh, Ph.D. ('17)
Associate Professor
University of Maryland

Robert P. Schleimer, Ph.D. ('17)
Professor
*Northwestern University
Feinberg School of Medicine*

Barbara L. Shacklett, Ph.D. ('17)
Professor
University of California, Davis

Wendy S. Garrett, M.D., Ph.D. ('18)
Associate Professor
Harvard T.H. Chan School of Public Health

Michael K. Racke, M.D. ('18)
Professor
Ohio State University Medical Center

Jordan S. Orange, M.D., Ph.D. ('19)
Professor
Texas Children's Hospital

Octavio Ramilo, M.D. ('19)
Professor
Ohio State University

Cornelia Liu Trimble, M.D. ('19)
Professor
Johns Hopkins University School of Medicine

Education Committee



John G. Frelinger, Ph.D. ('17), Chair
Professor
University of Rochester

* The Nominating Committee is comprised exclusively of elected members.

Clinton B. Mathias, Ph.D. ('17)
Associate Professor
Western New England University

Julie M. Jameson, Ph.D. ('18)
Associate Professor
California State University, San Marcos

David W. Mullins, Ph.D. ('18)
Assistant Professor
Geisel School of Medicine at Dartmouth

Steven M. Varga, Ph.D. ('18)
Professor
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Continued, next page

GRIP

Grant Review for Immunologists Program

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

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

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

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



Program details at aai.org/Education/GRIP

Thank You

AAI gratefully acknowledges the service of the following Council and committee members whose terms expired this year.

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Future AAI Annual Meetings

Mark Your Calendar for the Premier Annual Immunology Event!

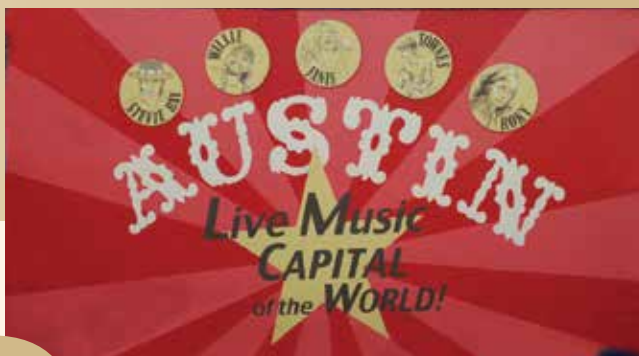
2017



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

2018

IMMUNOLOGY 2018™
May 4–8
Austin, Texas



2019



IMMUNOLOGY 2019™
May 9–13
San Diego, California

NIH Workshop Commemorates Mike Potter

On September 15 and 16, 2016, the Michael Potter Commemorative Homogenous Immunoglobulin Workshop convened on the NIH campus in recognition of the life and accomplishments of Mike Potter, who worked at the National Cancer Institute for more than 50 years. Dr. Potter, who passed away in 2013, was honored for his foresight in using plasmacytoma models to obtain homogeneous immunoglobulins (Igs) for analysis of protein structure, generation of diversity, and genome organization. Before Potter's involvement, a major stumbling block in immunological research was the lack of uniform antibodies to probe the Ig repertoire and study antibody function. His work with plasmacytoma proteins provided the tools to study clonal selection and led to the explosion of discoveries made following the development of monoclonal antibodies. In addition to his discovery of the induction of transplantable plasma cell tumors, his lab also produced multiple seminal studies on antibody structure and function, the genetics of Ig inheritance and idiotypes, and tumorigenesis.

Organized by Michael Cancro (AAI '79), Rafael Casellas, Patricia Gearhart (AAI '77), and Beverly Mock, the meeting featured current work on B cell biology and included some of the major players who participated in the 10 workshops that Potter, a 25-year member of AAI, organized from 1968 to 1977. These workshops were seminal in understanding how antibody diversity is generated and accelerated the pace leading up to cloning the first Ig genes. The five keynote speakers at this commemorative workshop were Leroy Hood (AAI '69), Fritz Melchers (AAI '81), Matthew Scharff (AAI '64), Frederick Alt (AAI '92), and Martin Weigert (AAI '95). These keynotes plus 16 additional speakers included Potter's former trainees and collaborators, as well as others who benefitted from his influence on the field.

A common refrain of the talks highlighted Potter's highly collaborative nature. By valuing progress in science above all, Potter freely shared his data and plasmacytomas with scientists worldwide. From this came numerous groundbreaking studies that stemmed from his work, including the Nobel Prize-winning

development of monoclonal antibodies by Georges Kohler (AAI '85) and César Milstein (AAI '79), with whom Potter shared the Albert Lasker Basic Medical Research Award for this same work.

The speakers spoke fondly of Potter's insistence on keeping his desk in the lab rather than in a separate office, as well as his closet full of identical clothes (to avoid tough decisions) and no-matter-the-weather bike trips to work each morning. Most importantly, those who knew Potter emphasized how his life exemplified the value to science of openness, collaboration, and discussion—even argument—to arrive at the scientific truth. It is this message that they hope can be conveyed to a new generation of immunologists as they establish their careers.



Coming January 15, 2017

The Journal of Immunology

The Macro Influence of the Microbiome

A series of Brief Reviews highlighting the influence of the gut microbiome on:

Neonatal Immunity

Inflammatory Diseases

Metabolites

Food Allergy

Type I Diabetes

Autoimmunity in the CNS

HIV Infection

The first-ever topical issue of Brief Reviews will illustrate the wide-ranging dialogue between the gut microbiome and immune function and emphasize the clinical consequences of its disruption.





GRANTS AND AWARDS

January 11

AAI Travel Awards and Grants

- **Prize/Award:** Awards in 10 categories recognizing the promise and bolstering the professional development of investigators of all career stages through support for travel to the AAI annual meeting
- **Eligibility:** AAI members in good standing who meet specific conditions for each award
- **Details:** www.aai.org/awards/travel
- **Contact:** AAI: (301) 634-7178; awards@aai.org

February 1

Amgen Scholars U.S. Program

- **Prize/Award:** Support for undergraduates to participate in cutting-edge research opportunities at one of 10 leading U.S. institutions of higher learning; scholars undertake a summer research project under top faculty, participate with peers in seminars and networking events, and take part in a regional symposium led by leading biotechnology scientists from industry and academia
- **Eligibility:** U.S. citizens or permanent residents who are undergraduate students enrolled in accredited four-year colleges or universities in the U.S., Puerto Rico, or other U.S. territories, have a cumulative grade point average of 3.2 or above, and are interested in pursuing a Ph.D. or M.D.-Ph.D.
- **Details:** <http://amgenscholars.com/us-program>
- **Contact:** (617) 253-2620; amgenscholars@mit.edu

February 1

Lasker Awards for Basic Medical Research, Clinical Medical Research

- **Prize/Award:** In both categories recognizing individuals who have made significant contributions in basic or clinical research to address diseases that are the main cause of death and disability, an honorarium of \$250,000 along with a citation and inscribed statuette of the Winged Victory of Samothrace, symbolizing victory over death and disease
- **Eligibility:** Scientists or physicians who have opened new fields of discovery by advancing novel research concepts or their clinical applications in a particular biomedical discipline through a specific contribution or long series of contributions
- **Details:** <http://www.laskerfoundation.org/new-noteworthy/articles/2017-lasker-award-nominations/>
- **Contact:** (212) 286-0222; dkeegan@laskerfoundation.org

February 3

L'Oréal USA Fellowships For Women In Science

- **Prize/Award:** Five annual awards of \$60,000 each in support of women postdoctoral scientists for their contributions in STEM fields and commitment to serving as role models for younger generations
- **Eligibility:** American born, naturalized U.S. citizen, or U.S. permanent resident applicants not in a faculty position who are affiliated with U.S. based academic or research institutions, hold a Ph.D., are involved in basic research in a STEM field, and will be in a postdoctoral research position in the U.S. by February 3, 2017, and throughout the fellowship year
- **Details:** <http://www.lorealusa.com/csr-commitments/l'oreal-usa-for-women-in-science-program>
- **Contact:** (202) 326-6670; ehr@aaas.org

February 15

AAI Travel for Techniques (TfT) Awards

- **Prize/Award:** Multiple awards providing up to \$1,500 each in reimbursement of travel expenses for a visit to another laboratory specifically to learn a technique beneficial to award applicant's research
- **Eligibility:** AAI regular and associate member scientists with independent research programs; awarded travel may be that of the applicant, applicant's trainee, or applicant's lab member (traveler must be an AAI member); award selection is based on relevance of the technique to the applicant's program and financial need
- **Details:** www.aai.org/Careers/TfT.html
- **Contact:** AAI: awards@aai.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:** Any AAI member principal investigator with less than \$250,000 (excluding PI salary) in annual direct costs who seeks salary support for an AAI member trainee working in the PI's lab
- **Details:** <http://www.aai.org/Awards/CIIFhtml>
- **Contact:** AAI: fellowships@aai.org

MEETINGS AND EVENTS

Mark Your Calendar for These Important Dates!

2017

January 28–31, 2017

56th Midwinter Conference of Immunologists at Asilomar

Pacific Grove, CA
<http://www.midwconimmunol.org/>

February 15–17, 2017

FAT10 in Cancer & Immune Regulation

Weizmann Institute of Science, Rehovot, Israel
<http://www.weizmann.ac.il/>

March 8–9, 2017

4th International Congress on Controversies in Rheumatology and Autoimmunity

Bologna, Italy
<http://cora2017.kenes.com>

March 9–11, 2017

4th International Congress on Controversies in Rheumatology and Autoimmunity

Bologna, Italy
<http://cora2017.kenes.com/>

March 26–29, 2017

LUPUS2017: 12th International Congress on SLE and 7th Asian Congress on Autoimmunity

Melbourne, Australia
<http://lupus2017.org/>

April 2–5, 2017

21st Annual Woods Hole Immunoparasitology Meeting

Marine Biological Laboratory
Woods Hole, MA
<https://immunoparasitology.org/>

April 7–10, 2017

30th Annual Canadian Society of Immunology Spring Meeting

The Banff Centre
Banff, Alberta, Canada
<https://www.csi-sci.ca/scientificmeeting.aspx>

May 12–16, 2017

IMMUNOLOGY 2017™ AAI Annual Meeting

Walter E. Washington Convention Center
Washington, DC
<http://www.IMMUNOLOGY2017.org>



July 11–16, 2017

AAI Introductory Course in Immunology

UCLA Luskin Conference Center
Los Angeles, CA
<http://www.aai.org/Education/Courses>

July 23–28, 2017

AAI Advanced Course in Immunology

Seaport World Trade Center
Boston, MA
<http://www.aai.org/Education/Courses>

October 26–30, 2017

American College of Allergy, Asthma & Immunology Annual Scientific Meeting

Boston, MA
<http://annualmeeting.acaai.org/>

November 17–20, 2017

Autumn Immunology Conference (AIC) 2017

JW Marriott
Chicago, IL
<http://www.autumnimmunology.org/>

2018

March 2–5, 2018

World Allergy Organization Meeting 2018

Orlando, FL
<http://www.worldallergy.org/meetings>

May 4–8, 2018

IMMUNOLOGY 2018™ AAI Annual Meeting

Austin, TX
http://www.aai.org/Meetings/Future_Meeting.html

June 17–21, 2018

ISDCI 2018: 14th International Society of Developmental and Comparative Immunology (ISDCI) Congress

Santa Fe, NM
<http://www.isdci.org/17257/Congress>

September 12–15, 2018

European Congress of Immunology (ECI)

Istanbul, Turkey
<https://www.efis.org/immunology-meetings/european-congress-of-immunology-eci/about/index.html?nav=true>

November 16–19, 2018

Autumn Immunology Conference (AIC) 2018

Chicago Marriott Downtown, Chicago, IL
<http://www.autumnimmunology.org/>

2019

April 25–30, 2019

ICI2019: 17th International Congress of Immunology

Beijing, China
<http://landing.iuis2019.org>

May 9–13, 2019

IMMUNOLOGY 2019™ AAI Annual Meeting

San Diego, CA
http://www.aai.org/Meetings/Future_Meeting.html

2020

May 8–12, 2020

IMMUNOLOGY 2020™ AAI Annual Meeting

Honolulu, HI
http://www.aai.org/Meetings/Future_Meeting.html

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Abstract Submission Closes	Jan. 11, 2017

AWARDS

Travel Award & Grant Applications Due	Jan. 11, 2017
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Registration Opens	Dec. 20, 2016
Early Registration Discount Ends	Mar. 30, 2017

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Housing Reservations	Now Open!
Discounted Hotel Rate Ends	Apr. 20, 2017

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