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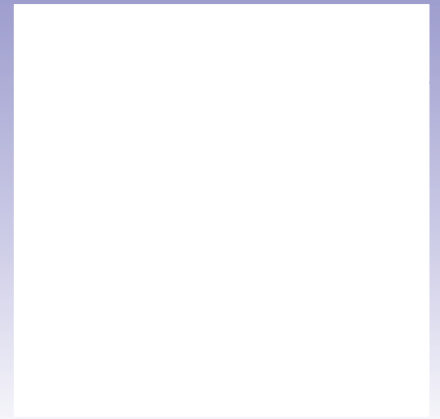
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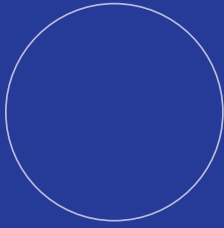
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AAI Launches Careers in Immunology Fellowship and Travel for Techniques Awards

The New AAI Awards Programs Nearly Triple the





*The American Association
of Immunologists*

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FOCUS ON PUBLIC AFFAIRS

AAI Holds Third Annual Public Policy Fellows Capitol Hill Day

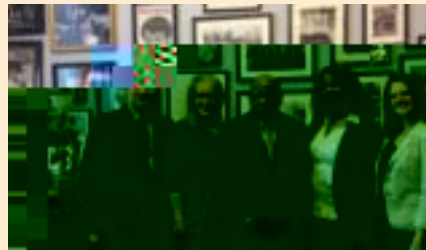
The 2013–14 class of AAI Public Policy Fellows visited Washington in early March to participate in the third annual Public Policy Fellows Program (PPFP) Capitol Hill Day. The fellows attended a formal training session before traveling to Capitol Hill the following day to meet with multiple members of their congressional delegations.

The 10 AAI fellows were joined by AAI Committee on Public Affairs (CPA) Chair Elizabeth Kovacs and AAI Advocacy Programs Subcommittee Chair Susanna Greer, and were escorted by AAI Director of Public Policy and Government Affairs Lauren Gross and Federation of American Societies for Experimental Biology (FASEB) staffers Jennifer Zeitzer and Meghan McCabe.

For the third consecutive year, Hugh Auchincloss (AAI '83), principal deputy director, National Institute of Allergy and Infectious Diseases (NIAID), was the special guest speaker at the training dinner. Dr. Auchincloss provided a behind-the-scenes perspective on the National Institutes of Health (NIH) and NIAID and led a lively discussion with the fellows. The second presentation was given by Gross, who focused on preparing the fellows for their visits to Capitol Hill.

Each of the AAI fellows visited at least two offices of his or her own congressional delegation, as well as those of other fellows. The fellows advocated for predictable and sustained funding for NIH, including a budget of at least \$32 billion in fiscal year (FY) 2015.

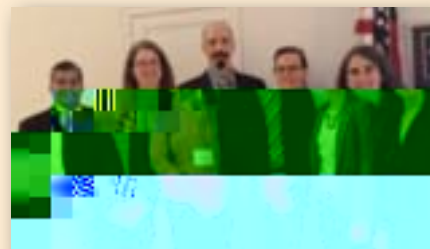
Many of the fellows attended IMMUNOLOGY 2014™ in Pittsburgh, where they visited the AAI booth at designated times daily to speak with AAI members wishing to hear about their experience on Capitol Hill and the program as a whole.



() AAI fellow Jeremy Chaefer, AAI Advocacy Programs Subcommittee Chair Susanna Greer, Rep. John Lewis, and AAI fellows Amisha Aughan and Ori Lancheld



() AAI fellow Rachel Bergerson, Senate Staffer Joe Gunn (for Sen. Christopher Murphy), and AAI fellows Brian Heridan, Katrina Oyer, and Jeremy Chaefer



() AAI fellows Urojit Arkar and Li Aethelred, AAI fellow and Senate Staffer Ric Lee, Ph.D. (for Sen. Kirsten Gillibrand), AAI fellow Rethen Iehl, and PA Chair Li Aethelred



() AAI fellow Stephanie Atkins, AAI legislative Affairs Analyst Meghan McCabe, AAI fellow Amisha Aughan, Rep. David C. Bonior, AAI fellow Ori Lancheld, and AAI Advocacy Programs Subcommittee Chair Susanna Greer

Senator Durbin Receives AAI Public
Service Award

Also Introduces the American Cures Act to
Increase Funding for Biomedical Research

American Cures Act

AAI Submits Testimony to Congress on
NIH Funding

Congressional Letters Demonstrate
Bipartisan Support for NIH

2. Early Antiretroviral Therapy: Eliminating HIV, Ending AIDS?

NIH-funded researchers have discovered that early administration of antiviral medication, known as antiretroviral therapy (ART), can have lasting effects on an HIV-infected patient's long-term prognosis. In one study,⁸ an infant born to an HIV-infected mother began receiving ART within hours of birth. The infant tested positive for HIV and continued treatment for 18 months. Despite the HIV diagnosis and subsequent discontinuation of ART, the child remained virus-free one year later. A second baby with a similar history also showed an absence of HIV.⁹ Together with several additional unconfirmed cases of babies "cured" of HIV infection, these findings offer hope to the ~250,000 babies born each year infected with HIV.¹⁰

3. Gut (Intestinal) Bacteria: The Microbiome Role in Autoimmune Disease

NIH-funded research has shown that gut bacteria (the intestinal "microbiome"), which aid in food digestion, may impact the development of autoimmune diseases, including rheumatoid arthritis, type 1 diabetes, multiple sclerosis, and inflammatory bowel disorders.¹¹ Current research is exploring changes in gut bacteria from diet, hormones, antibiotics, and infections, and the effect of gut bacteria based therapeutics [for example, the ingestion of bper.ia fr



in the News

Paolo Casali Appointed Department Chair at UT Health Science Center

Paolo Casali, M.D., AAI •81, earlier this year joined the University of Texas Health Science Center at San Antonio as Zachry Foundation Distinguished Professor and chairman of the Department of Microbiology and Immunology in the School of Medicine. A molecular immunologist known for pioneering studies of processes that underpin the body's response to

viruses, bacteria, cancer cells, and tissue/organ damage in autoimmune diseases, Casali previously served as the Donald Bren Professor of Medicine, Molecular Biology and Biochemistry and director of the Institute for Immunology at the University of California, Irvine (UC Irvine) School of Medicine.

Casali's research has delved into the intricacies of B cell biology, antibody gene expression, somatic hypermutation (SHM), and class switch recombination (CSR), with an emphasis on determining the role of B cells in autoimmune diseases. He and others identified and characterized human B-1a and B-1b cells and demonstrated that they are a major source of natural autoantibodies. He pioneered efforts to generate human monoclonal antibodies of defined specificity and isotype,

Michael Reth is Ehrlich/Darmstaedter Prize Recipient

Michael Reth, Ph.D.,
AAI (Hon.) • ~~08~~ has
been awarded the Paul
Ehrlich and Ludwig
Darmstaedter Prize for
outstanding research in
immunology. Awarded
annually since 1952 to
honor internationally

Dario Vignali Named Vice-Chair of Immunology at Pitt

Dario A. Vignali, Ph.D., AAI'98, has been appointed vice chair of the Department of Immunology at the University of Pittsburgh (Pitt). He will assume the post on July 1, along with appointments as co-leader of the Cancer Immunology Program

I N M E M O R I A M

Georgia Baptist Hospital in Atlanta (1944-1945) and the second at Barnes Hospital in St. Louis (1948-1949). He later served a residency at Barnes Hospital (1949-1950) and a fellowship at Washington University (1950-1951).

Talmage married the love of his life, LaVeryn, in 1944, and remained devoted to her until her death in 2013. Together, they raised five children, Janet Lynn "Jenny" Bock (Jim), Marilyn Talmage-Bowers (Kent), David Hall Talmage (Ellie), Mark Talmage (Karen), and Carol Talmage, all of whom reside in the Denver area. With LaVeryn, he raised their family, travelled the world, and distinguished himself in his career. In late life, he

addition, he was a member of the editorial board for *The Journal of Immunology*, including as an associate editor (1968-1972) and a member (1973-1977) of what is today the AAI Publications Committee.

In 1994, he received the AAI Lifetime Achievement Award, the highest honor bestowed by the AAI Council in recognition of a member's career of scientific achievement and contributions to AAI and fellow immunologists. His additional career appointments and honors included service as president of the American Academy of Allergy, Asthma, and Immunology, editor for the *Journal of Allergy*, recipient of the Bonfils-Stanton Award, the Sewall Award from the University of Colorado, and the Sandoz Immunology Prize. He was awarded the University of Colorado Faculty Research Lectureship, the Fulbright-Hays Senior Scholar Award, honorary doctorates from Colorado State University and Buena Vista College, and an Alumni Recognition Award from the University of Chicago. He was a Markle Scholar and a member of Phi Beta Kappa and Alpha Omega Alpha honorary societies.

Between 1948 and 2007, Dr. Talmage authored more than 150 articles in leading scientific journals predominantly addressing immunobiology. In 1995, he published his first physics article. Three weeks before his death, he submitted a paper to a physics contest with an essay on physics related to gravity and inertia.

His immunology research included a large body of work on many aspects of the interaction of antigen and antibody, and the formation of antibodies by B cells after antigenic exposure, as well as other areas such as transplantation biology and immunological tolerance. He began his research in St. Louis in the laboratory of Frank Dixon, where they proposed a two-step process for the formation of antibodies, based on his studies using radiolabeled proteins. They demonstrated that the first radiosensitive phase was followed by a radioresistant phase, and that the first phase was absent from the more rapid anamnestic response. After his move to Chicago, his work led him to propose that the avidity of antibody for antigen is variable. He proposed that each B cell would make only one particular antibody, a concept which was expanded upon later that year by Burnet, who coined the term "clonal selection theory."¹


Talmage brought together a number of studies in his 1957 *Annual Reviews in Medicine*² article, leading him to note that "...only those cells are selected for multiplication whose synthesized product has affinity for the antigen *aedincinengs: Jghl9()actioDor 1Ccells T(w imr)19.5esident oons for207, D Pity forty fo.8(e,cells se chesiz)5.9http://9(g 6)19.45.926 g/Arty fh*

injected." Hence, Talmage, along with Ehrlich, Jerne, and Burnet, all contributed to the development of the clonal selection theory. His work in 1955 and 1956 with Taliaferro demonstrated antibody diversity and showed, using transferred spleen cells, that immunological memory consisted of newly made, not preformed, antibodies. His analysis, with Lee Hood, of the available amino acid sequences of Bence Jones proteins led to their 1970 *Science* article "Mechanism of Antibody Diversity: Germ Line Basis for Variability."³

Personally, Talmage was described by his family as a peacemaker above all. He was remarkably patient and loving. He disliked conflict and advised forgiveness and restraint in judging others. He gave everyone the benefit of the doubt and counseled respect for all humans. He was seldom critical, and was empathetic and concerned about others. He was a humble person despite his many accomplishments.

In addition to his children and grandchildren, Talmage is survived by his sister, Mariella Provost, Black Mountain, North Carolina, as well as many nieces and nephews. He was predeceased by his other siblings: John, Franklin, William, Janet (Keller), and Roy.

Gifts in his honor may be made to Montview Boulevard Presbyterian Church (montview.org) or Colorado Homeless Families (coloradohomelessfamilies.org). Personal condolences may be sent to the family via Marilyn Talmage-Bowers, Psy.D., at marilyntalmagebowers@gmail.com.



His ongoing dedication to the department was further demonstrated in 2006 when Ho and his wife, Carol Tsu Ho, a former librarian in the public health school, pledged \$2 million to endow the Monto and Carol Ho Chair in Infectious Diseases and Microbiology in the Graduate School of Public Health.

The Founding of AAI

By John Emrich (May/June 2012)

A group of like-minded physician-scientists met on the University of Minnesota campus in June 1913 to establish a new professional society and, in the process, defined a new field of medical study—*immunology*—a new

Elise Strang L'Esperance: Pioneer in Cancer Prevention and Recipient of Lasker Award

By John Emrich (January/February 2012)

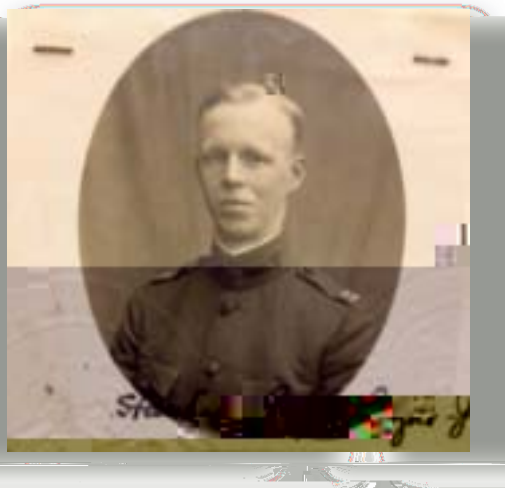
Believing that early detection was the best defense against cancer, Elise L'Esperance (AAI '20) advocated annual physical examinations and developed a model for the early detection of cancer at her preventive clinic in New York City. Her initiative proved successful and enduring, earning her the Lasker Award for Clinical Medical Research in 1951.



Immunologists during the First World War: One Soldier-Scientist's Experience—Stanhope Bayne-Jones

By John Emrich and Bryan Peery (December 2012)

Just thirteen months after the founding of the American Association of Immunologists, the First World War began in Europe. The war's impact—both on the careers of individual immunologists and on medical research in general—cannot be overstated. The wartime experience of Stanhope Bayne-Jones (AAI '17, president 1930–31) illustrates the struggles endured by those researchers who left behind the laboratory to serve as physicians on the front lines.



The 1918–1919 Influenza Pandemic as Covered in *The Journal of Immunology*

By Mary Litzinger (July/August 2012)

As influenza swept across the country in 1918 and 1919, *The Journal of Immunology* became a forum for discussion of the causes of the disease as well as methods for its prevention. Although the first identification and isolation of a human influenza virus did not occur until the 1930s, this early work on influenza in *The JI* nevertheless contributed to the growing body of knowledge on the disease.



Anna Wessels Williams: Infectious Disease Pioneer and Public Health Advocate

By John Emrich (March/April 2012)

In an era fraught with concerns for public health and consumed with desires for social uplift, Anna Williams (AAI '18) broke the professional barriers facing women in science and became a pioneer in the field of infectious diseases. Her success in saving thousands of lives with her groundbreaking research on rabies, diphtheria, and trachoma serves to inspire the next generation of immunologists.



Creating a Buzz in the Field of Immunology: Mary Hewitt Loveless and the Development of Venom Therapy for the Prevention of Sting-Induced Anaphylaxis

By Bryan Peery and John Emrich (Winter 2013)

A middle-aged woman running through her garden with butterfly net in hand may not be the first image that pops into one's head when thinking of immunologists in the 1950s, but this is precisely how Mary Hewitt Loveless (AAI '41) spent her summer days, catching wasps and bees for use in her research. She pioneered the use of venom extracts to treat hypersensitivity to Hymenoptera stings in the early 1950s and soon moved on to inducing live stings in her office at a time when injections of commercially available whole-body extracts remained the recommended treatment. Loveless steadfastly defended her unconventional methods for over twenty-five years before they gained acceptance in the broader scientific community.



The Emergence of Immunology in Pittsburgh

By Bryan Peery and John Emrich (March/April 2014)

AAI members have played significant roles in earning Pittsburgh its reputation as a major center for biomedical research. Young immunologists like Jonas Salk (AAI '47) and Frank Dixon (AAI '50, president 1971-72) first seized the opportunity for independence and career advancement offered by the nascent research program at the University of Pittsburgh in the late 1940s and early 1950s. Today, several prominent AAI members continue to call the city home.



To learn more about the many initiatives of the AAI Office of History and Archives, visit the history section of the AAI website, www.aai.org/about/history.

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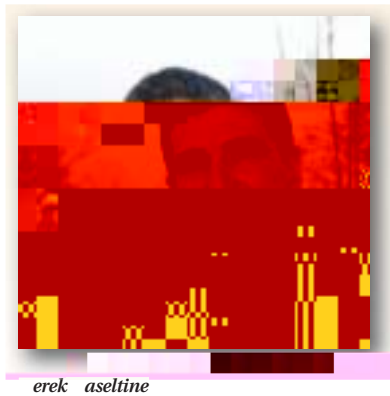
Applying Darwinian Principles to the Job Search

If Darwin were to read your resumé would he consider you “fit”? That is, would he deem you ready to enter the applicant pool in the job market? In Darwinian principles, an animal must develop traits that confer a selective advantage over its competition to survive and contribute to raising the fitness level of the gene pool. Applying the same principle to career development is useful, although daunting. Are we not required to rise above our competition for the positions we seek? How, though, are we to do our jobs in the labs and develop attributes that set us apart from the crowd of other applicants? In a recent interview with AAI Science Liaison Elizabeth Walsh (AAI '11), Derek Haseltine, director of career services in the College of Professional Studies at George Washington University and frequent career workshop leader and speaker at the AAI annual meeting, shared some of his thoughts on inventive ways to build essential skills adaptable to many career paths.

Given the limitations on most trainees• time and means, are there any essential skill sets that you see as providing job seekers the •biggest bang for the buckž?

I hate to use a “dirty” word, but one of the most important skills is networking. You can attend organized networking events to make new contacts, but interactions there can often feel forced and awkward. In many cases, I’ve experienced better networking after the event by contacting people via a friendly email. Even people I didn’t have a chance to meet.

Organizing your own seminars or discussion groups is an excellent way to build leadership, communication, and networking skills vital to career development, and hosting these events doesn’t have to be costly if you mine local talent and individuals who require no compensation. One great success story began with a group of students meeting to discuss management-consulting case studies. The sessions evolved into a club with a formal business-consulting speaker series. The group was so successful that consulting firms began cold-contacting the club leaders to volunteer to participate in seminars, and the group is now considering becoming a non-profit consulting firm.



I also know of one student-initiated science-writing group that actually became incorporated more formally into their institution’s curriculum. The group laid the foundation for forming a course and helped determine relevant content to make the class successful. That initiative looks great on a resumé.

Could you suggest strategies to make networking easier for the introverted scientist?

If you’re introverted, you might consider volunteering in some way for a networking event. Perhaps you could help coordinate the registration process in advance. This kind of engagement can help to break the ice and provide a built-in conversation opener with people you encounter there.

If talking to strangers is difficult for you, look for opportunities that allow you to network indirectly or on behalf of an organized entity. Getting involved with a national or institutional postdoctoral or graduate student association offers great opportunities to network with peers, professionals, and faculty within and outside your campus. Examine your institution’s event calendar for career panels and seminars that are of interest to you. Consider contacting the sponsor to ask if you can participate in the speaker recruitment or hosting responsibilities. These roles give you standing for approaching people unselfconsciously.

All of these activities are outside of the lab. Are there ways trainees can build resumé-worthy skills within the lab?

If you have limited time to spend on professional development outside of the lab, you can still find

AAI continues to enrich career development opportunities for scientists through the association's Outreach Program. AAI, each year, supports selected member-led immunology meetings that provide speaking opportunities and awards to young investigators. AAI was pleased to sponsor keynote speakers and oral and poster abstract sessions at two conferences this past winter: the American Association of Veterinary Immunologists (AAVI) Mini-symposium and Student Poster Presentation Competition at the Conference of Research Workers in Animal Diseases (CRWAD) annual meeting and the Midwinter Conference of Immunologists (MCI).

American Association of Veterinary Immunologists

The AAVI again in 2013 hosted a scientific session and student abstract competition at the CRWAD meeting, held December 8-10 in Chicago. Crystal Loving (AAI '13) organized the AAVI Mini-symposium titled "Vaccine Design—Targeting the Immune System," which covered a wide range of topics and species within the overarching theme of vaccines in the context of

Carl H. June (AAI '87), the 2014 AAI-Steinman Award for Human Immunology Research recipient, spoke on “Engineering T cells to overcome tumor immunosuppression.”

Eight young scientists' abstracts were selected by the conference organizers to be presented during the AAI-sponsored Oral Poster Presentation Session. David Scott (AAI '73) moderated the lively and varied session, which featured topics ranging from the molecular basis of the inflammasome's recognition of bacterial ligands to an analysis of p110-delta mutants in human immunodeficiencies.

“It was wonderful to meet young scientists interested in the whole spectrum of immunology from the microscopic to the macroscopic. It was clear that all the participants were excited to share their work, and the scientists attending the oral abstract session really enjoyed the talks,” said AAI Science Liaison Elizabeth Walsh (AAI '14), who was in attendance on behalf of AAI.

As in the past two years, AAI sponsored eight Ray Owen Young Investigator Awards for outstanding poster and oral presenters. Following attendees' impromptu rendition of “Happy Birthday” for Weiss, he and Laufer presented the poster awards to three graduate students—Kevin Barry (AAI '13), Neha Deshpande (AAI '12), and Frederic Duval—and three postdoctoral fellows—Bryan Becklund (AAI '13), Laura Snell, and

Derek Clouthier
University of Toronto

Angela Crespo
Harvard University

Djeneba Koumba Dabita, Pharm.D.
Johns Hopkins University

Thomas Duhon, Ph.D.
Benaroy Research Institute

Kellsye Paula Fabian
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Yuthana Kongprachaya
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Tonika Lam
University of California, Irvine

Brian Latimer
Drexel University College of Medicine

Yelena V. Lerman
University of Rochester Medical Center

Guanqiao Li
University of Pittsburgh

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Jason Jakob Lomueller, Ph.D.
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Yisong Wan, Ph.D.
Assistant Professor, University of North
Carolina, Chapel Hill

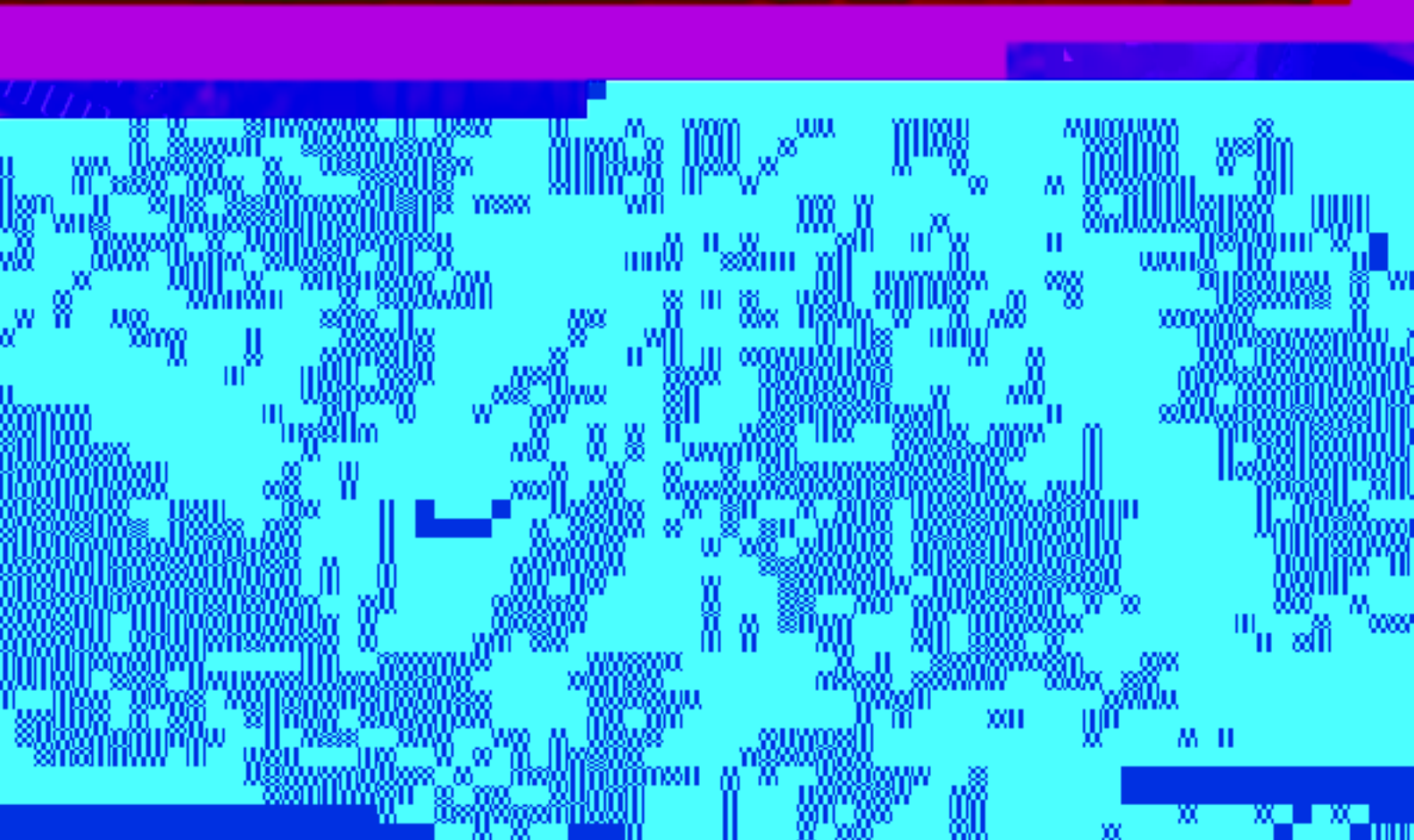
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IMMUNOLOGY 2015





Your membership in the American Association of Immunologists helps advance the AIG's mission and your career

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

- The best and brightest minds in the field
- The world's largest annual immunology meeting
- The Journal of Immunology, the pre-eminent peer-reviewed journal in the field
- On an occasional basis, opportunities to present your research
- A variety of fellowships and grants to support talented scientists in every career stage

To renew your AAI membership and get your contributions to your professional life called out, visit www.zz.zzaai.org to learn more.



GRANT AND AWARD DEADLINES

July 15

AAI Careers in Immunology Fellowship

Prize/Award: Fellowship providing one year of salary support for an AAI member's trainee (graduate student or postdoctoral fellow) whose position may be in danger of being defunded and whose support is merited based on a combination of potential of the trainee, merit of the project, quality of the environment, and financial need

Eligibility: AAI regular members in good standing

Meetings and Events Calendar

Mark our calendar for these Important dates

2014

July 12-17, 2014

AAI Introductory Course in Immunology
Long Beach Convention Center
Long Beach, CA
aai.org/Education/Courses/Intro

September 29-October 1, 2014

**EMBO Conference on Innate
Lymphoid Cells**
Institut Pasteur, Paris, France
www.ilc1.org

July 27-August 1, 2014

AAI Advanced Course in Immunology
Seaport World Trade Center
Boston, MA
aai.org/Education/Courses/Advanced

September 29-October 1, 2014

**2014 HudsonAlpha-Science/AAAS
Conference on ImmunoGenomics**
HudsonAlpha Institute of Science and Technology
www.hudsonalpha.org/AAAS-2014

August 20-21, 2014

**2nd International Meeting on Nerve-
Driven Immunity: Neurotransmitters
and Neuropeptides In The Immune
System and In Neuroimmune Dialogues**
Nobel Forum, Karolinska Institute
Stockholm, Sweden
ndimeetings.org

September 11-13, 2014

**3rd Annual International Graduate
Student Immunology Conference
(IGSIC 2014)**
University of Texas Southwestern Medical Center
Dallas, TX
igsic2014.wordpress.com

September 12-16, 2014

ASBMR 36th Annual Meeting
Houston, TX
asbmr.org

September 15-16, 2014

**4th Mastering Immunogenicity
Conference**
British Consulate-General, Boston, MA
[proimmune.com/ecommerce/page.
php?page=immunogenicity4](http://proimmune.com/ecommerce/page.php?page=immunogenicity4)

Meetings and Events Calendar

Mark our calendar for these Important Dates!

March 28-April 1, 2015

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

Boston, MA
Contact: eb@faseb.org

July 11-15, 2015

The American Society for Virology 34th Annual Scientific Meeting

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

May 13...17, 2016

**IMMUNOLOGY 2016™
AAI Annual Meeting**

Seattle, WA
aai.org/Meetings/Future_Meeting.html

May 8-12, 2015

**IMMUNOLOGY 2015™
AAI Annual Meeting**

New Orleans, LA
immunology2015.org

September 6...9, 2015

ECI 205: 4th European Congress of Immunology

Vienna, Austria
eci-vienna2015.org

August 21-26, 2016

ICI 2016: International Congress of Immunology 2016

Melbourne, Australia
ici2016.org

June 14-19, 2015

**First International Convention:
IMMUNOPHARMACOLOGY -
VACCIPHARMA 2015**

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

2016

February 18-22, 2016

2016 BMT Tandem Meeting

Honolulu, HI
cibmtr.org/Meetings/Tandem

2017

May 12...16, 2017

**IMMUNOLOGY 2017™
AAI Annual Meeting**

Washington, D.C.
aai.org/Meetings/Future_Meeting.html

AAI Invites Additions to List of Women Speakers

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

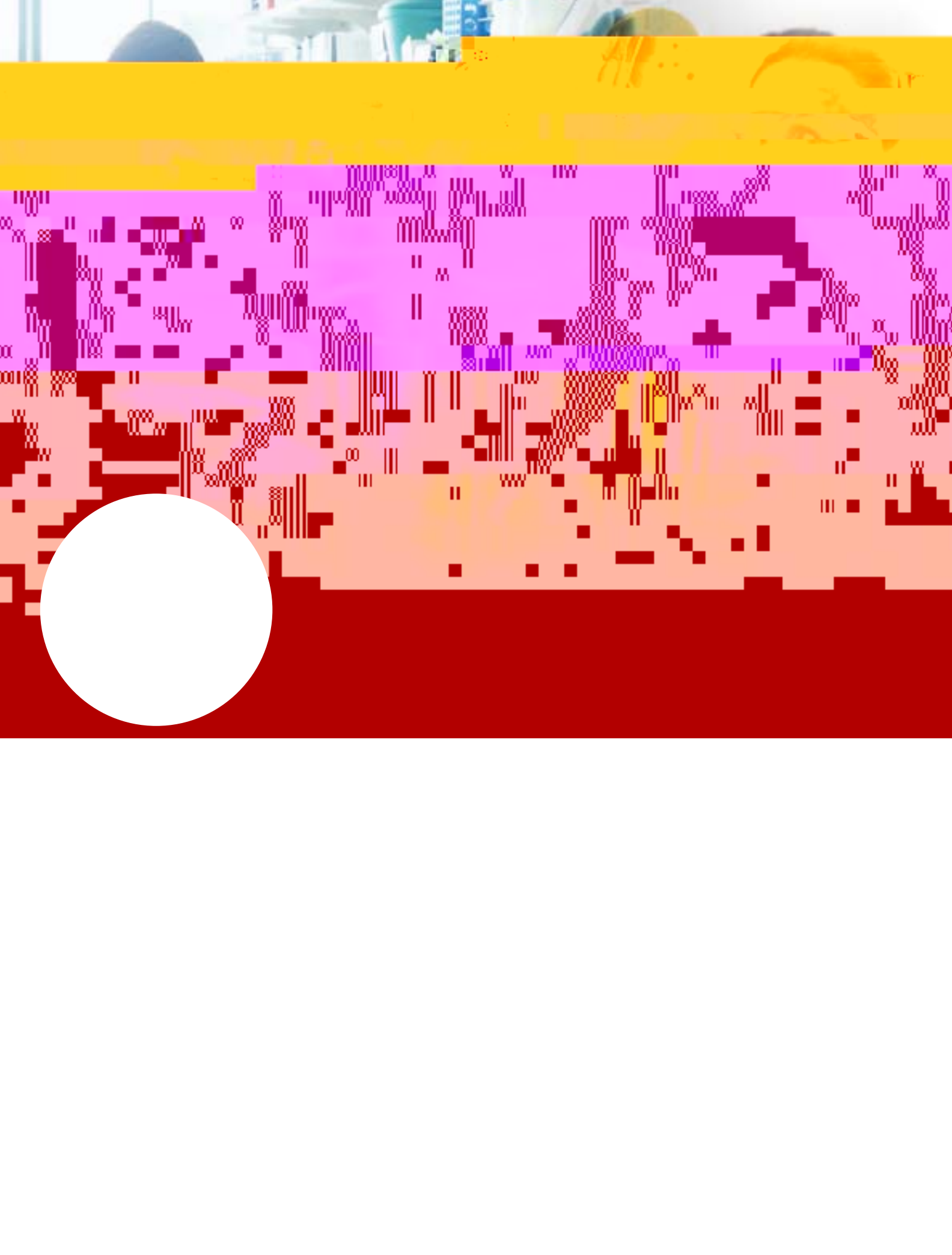
Listings were originally limited to women serving as heads of immunological research labs, but the CSOW Speaker List is now open to women AAI members fulfilling leadership roles in non-research careers as well.



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

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

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



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