Immunologists during the First World War:
One Soldier-Scientist•s Experience

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Deadline: January 9, 2013

Lustgarten-eBioscience Memorial Award

Established to honor the memory of AAI member Dr. Joseph Lustgarten, this award is intended to advance the career of a mid-career scientist who attends the AAI annual meeting and presents an outstanding abstract speci“cally in the area of immune regulation. The award recipient will receive up to $1,250 travel reimbursement, meeting registration at the early rate, and a certi“cate during an awards presentation program at the AAI annual meeting. This award is generously supported through a grant from eBioscience, Inc.

AAI Minority Scientist Travel Award

This award provides travel support to eligible AAI members to attend the AAI annual meeting. Two types of awards are available (trainee, junior faculty), providing support of up to $2,200 for registration and meeting-related travel expenses. This award is generously supported through the FASEB Minority Access to Research Careers (MARC) program and a grant from the National Institute of General Medical Sciences (NIGMS), NIH

AAI Trainee Abstract Award

This award provides up to $750 travel reimbursement to AAI trainee members (students and postdoctoral fellows) whose “rst-author abstracts submitted to the AAI annual meeting are selected for presentation in block symposia.

AAI Undergraduate Faculty Travel Grant

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 $1,500 is awarded

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

The 2013 AAI Awards will be presented in conjunction with
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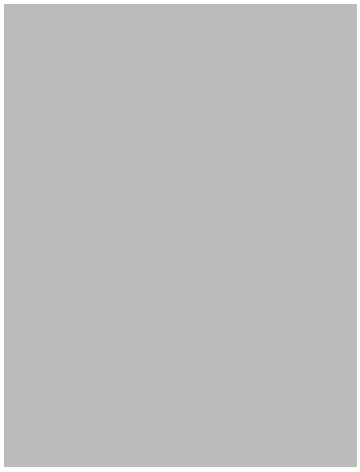
Questions? Contact AAI at 301-634-7178 or awards@aai.org

The AAI Council recently announced the appointment of Pamela J. Fink, Ph.D., to be the next Editor-in-Chief (EIC) of The Journal of Immunology (The JI). Fink has been an AAI member since 1987 and is a professor in the Department of Immunology at the University of Washington School of Medicine, a position she has held since 2004.



Pamela J. Fink

Dr. Fink served as a Deputy Editor for The JI from 2003 to 2008. She has also served as an Associate Editor and ad hoc reviewer. She has served AAI in many capacities, including as a member of the Program Committee, the Committee on the Status of Women, the Publications Committee, as Chair of the Nominating Committee, and as an Abstract Programming Chair. As a member of the Publications Committee, she has been a featured speaker in sessions at the AAI annual meetings.

Dr. Fink holds a B.S. in biological sciences from Indiana University and received a Ph.D. in biology from the Massachusetts Institute of Technology. She carried out postdoctoral work at the Stanford University Medical Center in the laboratory of Irving Weissman before moving to the Scripps Clinic and Research Foundation as a research fellow. She moved to the University of Washington in 1990 as an assistant professor. In addition to her teaching and research duties, Fink has trained many doctoral and post-doctoral scientists in her lab. She is the recipient of numerous honors, including a Junior Faculty Research Award from the American Cancer Society (1989) and the NSF Career Advancement Award (1993).

Dr. Fink's research focuses on advancing our understanding of T cell tolerance and maturation. Particular attention is paid to the mechanism of T cell receptor revision and the phenotypic and functional changes that precede deletion of self-reactive cells. Her laboratory also studies costimulatory functions of Fas ligand that are mediated by reverse signaling and lead to the augmentation of antigen-speci"c proliferation of CD8+ T cells and maturation of thymocytes. In addition, her lab analyzes recent thymic emigrants to determine the signals provided by the peripheral environment that promote the post-thymic maturation of these cells.

Upon acceptance of the position, Dr. Fink stated:

I am honored to accept the position of Editor-in-Chief of The Journal of Immunology, and I am especially thrilled to be named the "rst woman to hold this position. I will work hard to maintain and further the reputation The Journal of Immunology has so deservedly earned as a fair and exacting platform for publishing the best work covering the full breadth of immunological research. I am looking forward to learning from Dr. Jeremy Boss, our vibrant and imaginative current editor, and working with the wonderful staff whose commitment has made this journal what it is today.

The new EIC serves a "ve-year term, from July 1, 2013, through June 30, 2018. Fink will begin an informal overlap period with current EIC Jeremy M. Boss in January 2013 and work closely with him until June 2013 to ensure an effective and orderly transition.

Founded in 1916, The JI is the most highly cited publication in the "eld of immunology. Its past and present Editors-in-Chief include:

Arthur F. Coca & John C. Torrey (1920…35)

Arthur F. Coca (1935…48)

AAI Honors Representatives Chris Van Hollen and Brian Bilbray

Following their designation last year as 2011 AAI Public Service Award honorees, Representative Chris Van Hollen (D-8th, MD) and Representative Brian Bilbray (R-50th, CA) were formally presented their awards in separate ceremonies this year. Both men were honored •for outstanding leadership in advancing biomedical research through support for the National Institutes of Health.Ž

AAI honored Rep. Van Hollen on November 8, 2012, with a presentation and reception at the Beaumont House on the AAI/FASEB campus. The event was held in conjunction with the fall AAI Council meeting, enabling AAI leaders to both honor the Congressman and talk with him about the many challenges currently facing the biomedical research community. Also attending the reception were AAI and FASEB staff, as well as representatives from other FASEB societies.

AAI President Gail Bishop presented the award to Rep. Van Hollen, citing his leadership in Congress and his strong support for biomedical research generally and NIH in particular. Bishop•s complete remarks can be found at page 7. Bishop was introduced by Elizabeth Kovacs, Chair of the AAI Committee on Public Affairs, who explained that AAI has presented this award since 1994 •to those individuals whom AAI believes have contributed the most„in the public arena„to advancing biomedical research and addressing the needs of research scientists.Ž Previous winners include the late Senators Ted Kennedy and Arlen Specter; Senators Tom Harkin and Orrin Hatch; Rep. David Obey; journalists Sam Donaldson and Mort Kondracke; and NIH leaders Anthony Fauci (AAI •73) and Richard Hodes (AAI •75).

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November 8, 2012

Let me begin, Congressman, by extending our congratulations on your re-election to Congress earlier this week.

It is my great honor to present the AAI Public Service Award to Rep. Chris Van Hollen.

Since his election to the U.S. House of Representatives in 2002, Rep. Van Hollen has been an ardent supporter of„and vocal leader for„biomedical research and the NIH. This would seem only logical, since his district, Maryland•s 8th, is home to the NIH, to AAI, to FASEB and many of its member societies, and to many government scientists. So AAI would be grateful for Rep. Van Hollen•s support if he were merely

White House Report Estimates the Potential Impact of Sequestration

The White House Of“ce of Management and Budget (OMB) released a report outlining the estimated impact of sequestration on federal government departments, agencies, and programs. In the September-released report, the OMB indicates that the NIH budget would be cut by about $2.52 billion (8.2 percent) under sequestration.

The Budget Control Act of 2011 (BCA) called for the creation of a Joint Committee on De“cit Reduction (JCDR), tasked with “nding at least $1.2 trillion in de“cit reduction over the next decade. The failure of the JCDR to reach an agreement triggered a provision of the BCA„ •sequestration‚Ž or automatic across-the-board spending cuts, which are scheduled to take effect on January 2, 2013. It remains possible that Congress will pass legislation to eliminate, modify, or delay these cuts prior to January.

The nonpartisan Congressional Budget Of“ce had previously estimated that most nondefense discretionary spending programs, including NIH, would be cut by about 7.8 percent under sequestration, which, according to NIH Director Francis Collins, would result in about 2,300 fewer grants than NIH had planned to fund in “scal year 2013.

NIH Proceeds Cautiously, Pending a Final FY 2013 Budget

Congress passed a six-month continuing resolution (CR) in September to fund most federal government programs in “scal year (FY) 2013 at 0.6 percent above their FY 2012 budget levels. This short-term spending bill provides a small boost of about $200 million to NIH.

Although the CR does provide a small funding increase for most agencies, including NIH, the threat of sequestration (see article on sequestration above) creates a great deal of uncertainty for agencies attempting to budget for the entire “scal year. As a result, NIH is limiting the number and size of grant awards until its budget outlook becomes clearer. Until a “nal FY 2013 appropriations bill is enacted, NIH •will issue non-competing research grant awards at a level below that indicated on the most recent Notice of Award (generally up to 90 percent of the previously committed level).‚Ž See http://grants.nih.gov/grants/guide/notice-“les/NOT-OD-13-002.html.

Although the CR technically runs through March 27, 2013, Congressional leaders may attempt to complete action on FY 2013 appropriations in 2012.

NCATS Advisory Council and CAN Board Hold Inaugural Meetings; NCATS Director Named

The National Center for Advancing Translational Sciences (NCATS) Advisory Council and the Cures Acceleration Network (CAN) Board have conducted their “rst meetings. The bodies held a joint meeting, as they are comprised primarily of the same members. The meeting was held September 14 on the NIH campus in Bethesda, Maryland.

In his inaugural welcome message, NIH Director Francis Collins announced that Christopher P. Austin will serve as director of NCATS, replacing NCATS Acting Director Thomas R. Insel, Austin began his work at NIH in 2002 as senior advisor to the director for translational research at the National Human Genome Research Institute. Most recently, he has served as the director of Pre-Clinical Innovation at NCATS.

Mary L. (Nora) Disis, AAI •96, professor, Department of Medicine, University of Washington School of Medicine, sits on both the NCATS Advisory Council and the CAN Board. AAI congratulates Disis on this important appointment. (See story on p. 11.)

The NCATS Advisory Council and the CAN Board will convene for their next face-to-face meeting on January 23, 2013.

Bill to Ban Research on Great Apes Remains Pending

The U.S. Senate Committee on Environment and Public Works approved an amended version of the Great Ape Protection and Cost Savings Act (GAPCSA) by voice vote on July 25, 2012, but the House has yet to take up legislation on the issueryut-DGeendints

Dan Barouch Appointed Director of New Virology and Vaccine Center

Mary L. Disis, M.D., AAI •96, has been appointed to the 24-member Cures Acceleration Network Review Board. The board advises the director of the National Center for Advancing Translational Sciences (NCATS) at NIH on countering signi“cant barriers to successful translation of basic science into clinical application. Disis also serves on the 18-member NCATS Advisory Council.

As associate dean for translational science at the University of Washington (UW) School of Medicine, Disis serves as a professor in the Department of Medicine, Division of Oncology. Her additional UW appointments include adjunct professor of pathology and of obstetrics and gynecology, member of the Fred Hutchinson Cancer Research Center (FHCRC), director of the Institute of Translational Health Sciences, and director of the Center of Translational Medicine in Women•s Health.

Research in the Disis lab explores breast and ovarian cancer immunology and seeks to develop tumor vaccines to prevent tumor development and cellular therapeutics to prevent cancer recurrences. She is one of the investigators who discovered that HER-2/neu is a tumor antigen, and her work has led to several clinical trials that evaluate boosting immunity to HER-2/neu with cancer vaccines. Her lab works to discover new antigens for breast and ovarian cancer that can then be targeted by vaccines and therapeutics. Their translational research program also assesses humoral and T cell responses to cancer and their relevance to the therapeutic control of disease.

Disis holds journal review appointments with the Journal of Clinical Oncology, Science Translational Medicine, International Journal of Oncology, Journal of Immunotherapy, Journal of Translational Medicine, and Update on Cancer Therapeutics and past such appointments with Cancer Immunology and Immunotherapy and Molecular Cancer Therapeutics. She holds committee and task-force appointments for the American Society of Clinical Oncology and the American Association for Cancer Research (ASCO-AACR) and serves as an ad hoc reviewer for the P01 program and CII study section at NCI, NIH. In addition to multiple award review panel and study section appointments at NCI, Disis has served as a reviewer for the NIH New Innovator Award; Ovarian Cancer Action, Helene Harris Memorial Trust; Department of Defense Ovarian Cancer Research Program (including study section chair); Canadian Breast Cancer Research Initiative, Canadian Institute of Cancer Research; Susan G. Komen Breast Cancer Foundation (advisory council and postdoctoral fellowship awards review); State of California Breast Cancer Research Program (study section chair); and American Federation for Aging Research.

Career honors accorded to Disis include: Komen Scholar; Merrill Egorin Award for Mentoring, ASCO-AACR Clinical Trials Workshop; elected member, Association of American Physicians; Team Science Award, International Society of Biologic Therapts at NCI, Disi5 R Therapts at

Therapts

Kristine Garza Named SACNAS Director

Kristine M. (Tina) Garza, Ph.D., AAI •02, was appointed earlier this year as executive director of the Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS) in Santa Cruz, Calif.

Garza retains appointments as associate professor in the Department of Biological Sciences at the University of Texas El Paso (UTEP) and deputy director of UTEP•s Border Biomedical Research Center. At UTEP, Garza•s research has used several different systems to explore the interactions of T cells with dendritic cells and macrophages in the initiation and progression of T cell responses. Her lab studies these interactions in such diverse contexts as Mycobacterium avium infection, autoimmunity, and obesity, investigating the effects of intracellular bacteria, TNF- _, leptin, and chemotherapeutic agents on adaptive immunity. In addition, the lab explores how environmental nanocarbon particulates affect lung macrophages and ultimately T cell immunity, with the aim of developing the ability to manipulate these interactions to effectively modulate immune responses in infection, type II diabetes, autoimmunity, and asthma.

In addition to securing research funding from multiple NIH institutes, the Environmental Protection Agency, and the Texas Higher Education Coordinating Board, Garza attained minority student research training and mentoring funding from the National Science Foundation (NSF) and Howard Hughes Medical Institute Undergraduate Science Program.

Garza is a past member of the AAI Minority Affairs Committee and a past recipient of the AAI Minority Scientist Travel Award. Her additional career honors include the Regents Outstanding Teaching Award, Texas Board of Regents; Distinguished Achievement Award in Teaching, UTEP College of Science; Minority Mentor Travel Award, FASEB Minority Access to Research Careers Program; Distinguished Achievement Award for Service, UTEP College of Science; SACNAS Summer Leadership Institute Fellow; National Academies Education Mentor in the Life Sciences; Jack Bristol Distinguished Achievement Award in Teaching; Secretary, SACNAS Board of Directors Executive Committee; Fellow, UTEP•s Center for Hispanic Entrepreneurship; National Academies Education Fellow in the Life Sciences; member, SACNAS Board of Directors; Fellow, National Academies Summer Institute on Undergraduate Education in Biology; and American Society for Cell Biology Minority Scientist Travel Award.

Garza•s career service appointments include service on review panels for the NIGMS Minority Program Research Committee, National Research Council Research Associateship Program, NSF Graduate Research Fellowship Program, National Human Genome Research Institute Diversity Action Plan Program, City University of New York Collaborative Incentive Research

Mario L. Santiago, Ph.D., AAI •11, is one of “ve Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) Young Investigator Award recipients for 2012.

The honor recognizes Santiago•s varied work in virology, from conducting “eld-based HIV epidemiology studies to manipulating innate immunity in his efforts to explore innovative ways to approach the challenge of the HIV vaccine. Speci“cally, his nomination cited his recent work on the function of human apolipoprotein B mRNA-editing, enzyme-catalytic, polypeptide-like 3 (APOBEC3), which has helped delineate potential genetic mechanisms behind the production of neutralizing antibodies to HIV.

Santiago is an assistant professor in the Department of Medicine, Division of Infectious Diseases, at the University of Colorado Denver (UC Denver), where he holds adjunct appointments in the immunology and microbiology programs. He has made several major contributions to the understanding of retroviruses and is quickly becoming

For almost 50 years, Stan Nathenson consistently focused on critical questions and developed new methodologies that have illuminated the structure and function of histocompatibility molecules and their partners within the immunological synapse. These studies have, at each step, greatly advanced our understanding of cellular immunology and graft rejection and, collectively, represent a stunning contribution to the "eld of immunology. His contributions were recognized with many awards and honors, including election to the National Academy of Sciences. Notably, he had a grant from the NIH that was funded without interruption for 45 years! Nathenson was a past major symposium speaker at the AAI annual meeting and served as an associate editor for The Journal of Immunology. He also participated as a member of advisory committees for the NIH and other agencies and foundations.

Nathenson came from an artistic background; his brother, sister, and wife are all artists. His very particular abilities and his love of structure no doubt related to his appreciation of art. The structures he deciphered were like sculptures. He was among the "rst of his generation of scientists to embrace digital imaging, as it allowed him to rotate molecules in space and visualize the same molecule in multiple representations.

Stan Nathenson was a true gentleman. He had an open door to colleagues and students. Indeed, his legacy is not only his extraordinary scienti"c accomplishments but is evidenced in the over 80 trainees who passed through his laboratory, learning not only the thrill of discovery but also experiencing his loyal friendship and support.

Bernardetta Nardelli, Ph.D., AAI •93

May 24, 1954…September 21, 2012

Bernardetta Nardelli, Ph.D., recently a member of the AAI staff and an accomplished immunologist with an extensive record of published research relevant to the development of biotherapeutics for autoimmunity, cancer, and AIDS, died on September 21 following an extended illness.

A resident of North Potomac, Maryland, Nardelli served from April of 2011 until September 2012 as a science associate on the editorial staff of The Journal of Immunology . Before coming to AAI, she was a biotechnology consultant and served as an in-house managerial and scienti"c consultant in the clinical development department of Cambridge Antibody Technology, Inc., in Palo Alto, California.

Bernardetta Nardelli

AAI colleagues join in paying tribute to Nardelli•s contributions and collegiality. •The AAI is grieved by the loss of Dr. Nardelli,Ž notes Executive Director Michele Hogan. •It is very hard to lose part of a work family. Bernardetta was an intelligent, thoughtful, and dedicated scientist. Moreover, she was a digni"ed and lovely person with a wonderful sense of humor.Ž Added Kaylene Kenyon, AAI publication director for The Journal of Immunology , •Bernardetta was an accomplished scientist and a great asset to AAI. It was a pleasure to work with her and she is greatly missed.Ž

From 1995…2004, Nardelli served as a scientist and later senior scientist in the Department of Preclinical Development/Cell Biology at Human Genome Sciences in Rockville, Maryland. There, she played a role in HGS scientists• 1999 discovery of BLyS (B Lymphocyte Stimulator), a novel human protein that stimulates B cells to mature into antibody-producing plasma B cells. Plasma B cells and the antibodies they produce constitute a critical part of the body•s defense against infections and cancer.*

Born on May 24, 1954, Nardelli received her Ph.D. from the University of Perugia, where her advisor was M. C. Fioretti. She held several early-career appointments at the NIH, including as visiting fellow, visiting associate, and special volunteer. She later joined the chemistry department at the Rockefeller University as a postdoctoral associate and went on to serve as an instructor in experimental medicine at the New York University Medical Center.

In addition to her AAI membership, Nardelli was a member of the American Medical Writers Association, where she served as conference coordinator for the mid-Atlantic region, and was active with BioPharmaPM and the Project Management Institute. She served as an ad hoc reviewer for Expert Opinion on Therapeutic Targets and was co-holder of multiple patents related to biomedical research agents and methods.

Nardelli is survived by her husband Ralph Alderson. Donations in Bernardetta•s memory may be made to Pancreatic Cancer Action Network.

* Source: www.prnewswire.com/news-releases/human-genome-sciences-to-initiate-human-clinical-trials-of-blys-73677402.html

One soldier-scientist•s story

His experiences illustrate some of the many challenges and issues faced by physicians, including future immunologists, in military service. All would face such dilemmas as when and where to volunteer their services, how to cope with the trauma of war, and how to readjust to the laboratory after the war.

Stanhope Bayne-Jones earned his M.D. at the Johns Hopkins University in 1914 under William Welch, dean of the Johns Hopkins School of Medicine. [6] Founded in 1893 and based on the German system, the Johns Hopkins University School of Medicine was praised in the Flexner Report as •the “rst medical school in America of genuine university type.Ž [7] After graduating with high honors, Bayne-Jones remained at Johns Hopkins, where he rose from House Of“cer in Medicine to Assistant Resident Pathologist within one year. In early 1916, he was offered and accepted the opportunity to head the new Laboratory of Bacteriology and Immunology in the Department of Pathology at the Johns Hopkins Hospital.

Despite research opportunities emerging in the rapidly changing American medical and scienti“c landscape, the U.S. declaration of war in April meant that recent graduates, by May 1917, were considering how they could best contribute to the war effort.

Enlisting quali“ed army physicians in the Medical Reserve Corps (MRC)

The number of army physicians rose dramatically with the rapid growth of the standing U.S. Army following the 1917 draft. The ranks of the army had expanded from fewer than 200 thousand troops in March 1917 to over one million within a matter of months. Many of the most prominent men in medicine volunteered their services, including Welch, Victor Vaughan [8] (AAI 1915), and Simon Flexner [9] (AAI 1920).

Already, at the outset of hostilities in Europe, U.S. Surgeon General William C. Gorgas was concerned with enlisting enough quali“ed physicians in the Army MRC to ensure military preparedness. One of the “rst physicians he solicited was his grandnephew Stanhope Bayne-Jones. When •Uncle WillieŽ [10] wrote his nephew in the summer of 1915, Bayne-Jones was just beginning his career at Johns Hopkins.[11]

The Johns Hopkins Hospital, ca. 1910

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

[6] William Welch (1850…1934), physician, scientist, and administrator, served as dean of Johns Hopkins School of Medicine and was the “rst director of the School of Hygiene and Public Health as well as the Institute of the History of Medicine. Although never an86 l(nstitute of the H)17.es was just beginning his ca1with the trauma of han

On April 6, 1917, the same day that the U.S. Congress issued its formal declaration of war, the AAI Council interrupted its proceedings to pass a resolution offering •the services of trained bacteriologists and immunologists and the facilities of their respective laboratoriesŽ to federal and state governments.[14]

Many members remained in their laboratories during the war, pursuing research for the war effort. The majority of this research, typi“ed by the work of Anna Wessel Williams (AAI 1918) and William H. Park (AAI 1919, president, 1918…19), was focused on the in”uenza pandemic (see AAI Newsletter, March/April 2012). Convinced that scientists at the Rockefeller Institute could better support the war effort if they remained together than if they were dispersed, Simon Flexner arranged with Gorgas to keep the Rockefeller laboratories intact as one army unit.[15] Other AAI members serving in the MRC were sent to U.S. Army training camps or military hospitals and laboratories in Europe. Among the volunteers were Richard Weil (AAI 1914, president 1916…17), who served as chief of medical service at Camp Wheeler, Georgia, until November 1917, when he died of complications from pneumonia; Martin J. Synnott (AAI 1913, secretary 1913…18), who studied the pandemic in”uenza at Camp Dix, New Jersey;[16] Rufus Cole (AAI 1917, president 1920…21), who chaired the Pneumonia Commission in charge of researching outbreaks of the disease at Army training camps;[17] and Hans Zinsser (AAI 1917, president 1919…20), a good friend of Bayne-Jones, who was stationed in France as an Army sanitary inspector and assistant director of the Division of Laboratories and Infectious Diseases.[18]

Preparing for the front

The vast majority of American troops spent 1917 training in the United States and did not arrive in Europe until spring 1918. Bayne-Jones, however, was one of a relatively small number of American soldiers who volunteered to be integrated into the British Expeditionary Force (BEF) nearly one year before the American Expeditionary Forces arrived en masse. Assured that his position at Johns Hopkins would be waiting for him upon his return, Bayne-Jones set sail for London on the S.S. Orduna in May 1917 and joined the 69th Field Ambulance of the BEF by the end of the month.[19] Shortly after arriving in France with the 69th Field Ambulance, he explained his decision to volunteer in a letter home to his sister Marian: •With these big things going on I could not stay still in Baltimore with the prospects of remaining repressed as a Teacher of Bacteriology or of being assigned to the prosaic medical duties of a Training Camp. No doubt both of these activities would be as useful and safer than what I can do over here; but this has the interest: It is like living in the Sunday pictorial of the New York Times.Ž[20]

Stationed at a hospital behind the lines in May and early June, Bayne-Jones heard •wonder-talesŽ from the wounded British troops about an •earthquake battle,Ž which made him long to get to the front lines. By the end of the month, he had received orders sending him to the Belgian front. After receiving mandatory training on the proper use of his gas mask, he boarded a train on June

Bayne-Jones in MRC commission, ca. 1915
National Library of Medicine, Stanhope Bayne-Jones PapersAs.-74 1

20, 1917, to join his unit near Ypres. As the nearly 24-hour train ride to the front came to an end, he recorded his initial impressions of the war: •We not only hear the guns, but sometimes see the effects of their shells, which are still far enough away to be •interesting.•Ž[21]

The work that Bayne-Jones did in the 69th was a far cry from the research he left in Baltimore. He served in many capacities as a part of the “eld ambulance, the most basic unit of medical care in the BEF. Every division had three “eld ambulance units, each with two companies of stretcher bearers and orderlies. When soldiers were injured, they were taken from the front by stretcher to an assembly point on the line in the rear, where they were triaged. If their wounds were serious enough, they were sent further behind the lines to a central station, then to a divisional collection point, and, “nally, to an advanced dressing station. At each point, the wounded soldier was assessed, and if he was deemed to be in too poor a condition, he was treated on the spot rather than sent to the next station. [22]

American soldiers in the trenches, ca. 1918
National Library of Medicine, Stanhope Bayne-Jones Papers

In the trenches

Bayne-Jones slowly worked his way to the front lines. Under mortar “re for the “rst time in early July, he reported that he was not as •scared as I thought I would be.Ž[23] By month•s end, however, the reality of the war began to set in after a night of shelling and gas attacks by the Germans.

Life on the front, with its •quick mud and chilly rain, and the immeasurable suffering,Ž as well as constant shelling, became almost a regular routine for Bayne-Jones in late 1917 and early 1918.[28] Early in the new year, a holiday care package from home "nally arrived. The welcomed contents included •shaving soap, "ne glycerin soap, some poison soap for the •totos• as the poilus[29] call lice, cold cream, Vaseline, and a big lot of Hershey•s Chocolate.Ž[30] Lice and threadbare uniforms had been recurring themes of his stories home.

The Americans arrive

When the American Expeditionary Forces arrived in Europe in spring 1918, Bayne-Jones knew that he would soon be reassigned to an American unit, and he acknowledged that there were times he wished he •were back with the interests of the Laboratory.Ž [31] In March, he was relieved from duty with the English battalion and ordered to report to a U.S. Army research laboratory in Paris, far removed from the •showŽ at the front. [32] Although he •couldn•t have asked for better opportunities than were offeredŽ at the laboratory, Bayne-Jones •felt that I couldn•t stick at a desk back there, while there was a war going on up front.Ž [33] A position as a battalion doctor was •by far and away the best for me as a human being, even if I am forgetting all the technical training I ever had, and which I believe is the best my efforts can do for the men over here.Ž[34] His request for a transfer from the laboratory was granted, and he soon returned to the front in eastern France as the battalion surgeon to the 26th Division, 3rd Battalion, 101st Infantry. [35]

As many of the newly won trenches on the French front were similar to his "rst experience with the British„knee deep in mud and infested with rats and lice„Bayne-Jones taught elementary sanitation to the new troops.

[28] SBJ to Alma Denegre, October 18, 1917, SBJP-NLM, Box 7, •Correspondence.Ž

[29] Poilus was a warm, informal term for a French infantryman during the First World War, meaning, literally, hairy one.

[30] SBJ to Tante E., January 7, 1918, SBJP-NLM, Box 7, •Correspondence.Ž

[31] SBJ to Tante E., December 12, 1917, SBJP-NLM, Box 7, •Correspondence.Ž

[32] SBJ to George Denegre, December 23, 1917, SBJP-NLM, Box 7, •Correspondence.Ž

[33] SBJ to Tante E., April 5, 1918, SBJP-NLM, Box 7, •CorrespondenceŽ [emphasis in original].

[34] SBJ to George Denegre, June 20, 1918, SBJP-NLM, Box 7, •Correspondence.Ž

[35]

German trench, ca. 1918

National Library of Medicine, Stanhope Bayne-Jones Papers

work shorthanded in the school during the war or restless because they were in Europe during the war. Even the men who were in the Hopkins unit in France and have been back here since February are not yet settled into their work„or their feelings.Ž [49]

Hans Zinsser, who had served as a medical of“cer in France during the war, echoed his good friend•s sentiments about returning to the laboratory. In an early July 1919 letter to Bayne-Jones, he wrote, •It was dif“cult for me to readjust and the enthusiasm for the old problems is only now returning.Ž [50]

Hans Zinsser

National Library of Medicine, History of Medicine Division

Although the transition to civilian life may have been initially dif“cult for many immunologists, a number of them began making signi“cant advancements in clinical and basic research. The leadership skills that this generation of investigators had acquired during war-time service appear to have served them well in their rise through the ranks of academia and scienti“c and medical organizations, including AAI. Not only did Bayne-Jones and Zinsser become AAI presidents, so too did other veterans: Francis Blake (1921, president 1934…35), Thomas Rivers (1921, president 1933…34), and Eugene Opie (1923, president 1928…29).

For researchers in Europe, the war•s impact on their home institutions was more immediate and often longer lasting. Nobel laureate Jules Bordet (AAI 1960) was unable to continue his experimental research in occupied Belgium, although he did use the war years to write a classic book on immunity and infectious disease, Traité de l•Immunité dans les Maladies Infectieuses.[51] Karl Landsteiner (AAI 1922, president 1927…28), then the chief pathologist at the Wilhelmina Hospital in Vienna, felt the war•s effects long after its conclusion. The shortage of resources in post-war Vienna forced him to leave his homeland for the Netherlands before permanently relocating to New York and joining the Rockefeller Institute in 1923.[52]

Nevertheless, some of the war•s dislocations helped advance scienti“c research. Almroth Wright and Alexander Fleming of St. Mary•s Hospital, London, spent the war years serving in the Royal Army Medical Corps in a makeshift laboratory in France. It was Fleming•s “rst-hand

AAI Supports Early Career Investigators at the 13th Colorado Immunology Conference

AAI supported the 13th Colorado Immunology Conference (CIC), chaired by Laurel Lenz, AAI •05, of National Jewish Health in Denver. The meeting, held September 12…14 in Vail, Colorado, drew nearly 200 participants, primarily graduate students and postdoctoral fellows. Attendees also included a number of lab technicians.

A highlight of the meeting each year is a keynote address, named in honor of the late Priscilla Ann (Pixie) Campbell, AAI •73. The invited lecturer for the address, sponsored this year by AAI, was Megan Sykes, AAI •89 (see sidebar on page 25). Sykes was introduced by John Cambier, AAI •78, chair, Integrated Department of Immunology at the University of Colorado School of Medicine and National Jewish Health.

In addition to the Pixie Campbell Memorial Lecture, AAI sponsored the eight AAI Young Investigator Awards presented at CIC. Winners were graduate students Courtney Fleenor, University of Colorado Denver; Ashley Nicole Desch, National Jewish Health; Lenka Teodorovic, National Jewish Health; and Francesca Alvarez-Calderon, University of Colorado Denver

Recipients were chosen from two judged-poster sessions that focused on autoimmune disease, cancer immunology, and innate immunity. The last oral session of the meeting featured short talks by four of the AAI Young Investigator Award winners as well as two presentations on technologies and the use of biorepositories.

During breaks, participants took full advantage of the fall setting amidst Colorado's golden aspens and fragrant pines to continue their discussions of science on strolls or hikes on the trailheads.

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AAI Welcomes New Members (2012) Attains New Record High Membership

Having grown from 54 members in 1913 to 7,635 for 2012, AAI membership has risen to an all-time high! AAI has a stronger voice than ever, one that advocates on your behalf, especially for vital NIH funding and reduced regulatory burdens.

Members are proud of their association with AAI and bene“t from career development programs, networking opportunities, scienti“cally strong meetings and courses, and a top-ranking scienti“c journal, The Journal of Immunology.

Please personally welcome those you know among the new members listed below and make a point of introducing yourself to those near you whom you haven't met.

Annapoorani Chockalingam, Ph.D.
Nashville, Tennessee

Hernan Correa, M.D.
Brentwood, Tennessee

Anthony L. Farone, Ph.D.
Murfreesboro, Tennessee

Gonghua Huang, Ph.D.
Memphis, Tennessee

Jonathan P. Moorman, M.D., Ph.D.
Johnson City, Tennessee

Naveen K. Rajasagi, Ph.D.
Knoxville, Tennessee

Kyra Richter, Ph.D.
Nashville, Tennessee

Anil Shanker, Ph.D.
Nashville, Tennessee

Jerry T. Thornthwaite, Ph.D.
Henderson, Tennessee

Zhi Q. Yao, M.D., Ph.D.
Johnson City, Tennessee

Deling Yin, Ph.D.
Johnson City, Tennessee

Xiaoyong Bao, Ph.D.
Galveston, Texas

Santanu Bose, Ph.D.
San Antonio, Texas

Antonella Casola, M.D.
Galveston, Texas

Yeonseok Chung, Ph.D.
Houston, Texas

Khrishen Cunnusamy, Ph.D.
Dallas, Texas

Hehua Dai, M.D.
Tyler, Texas

Ning Jiang, Ph.D.
Austin, Texas

Ning Lu, M.D., Ph.D.
Houston, Texas

Ashlesh K. Murthy, M.D., Ph.D.
Downers Grove, Texas

Premlata Shankar, M.D.
El Paso, Texas

Laurence M. Wood, Ph.D.
Abilene, Texas

Floyd L. Wormley, Jr., Ph.D.
San Antonio, Texas

Yi Xu, Ph.D.
Houston, Texas

Ryan M. O•Connell, Ph.D.
Salt Lake City, Utah

June L. Round, Ph.D.
Salt Lake City, Utah

Amandeep Bajwa, Ph.D.
Charlottesville, Virginia

Amorette Barber, Ph.D.
Farmville, Virginia

Arshad Hussain, Ph.D.
Woodbridge, Virginia

Quang T. Le, Ph.D.
Richmond, Virginia

Xin M. Luo, Ph.D.
Blacksburg, Virginia

Glendie Marcelin, Ph.D.
Manassas, Virginia

Akshaya K. Meher, Ph.D.
Charlottesville, Virginia

David A. Simon, Ph.D.
Arlington, Virginia

Elankumaran Subbiah, D.V.M., Ph.D.
Blacksburg, Virginia

Yuntao Wu, Ph.D.
Manassas, Virginia

Roxana del Rio, Ph.D.
Burlington, Vermont

Sean A. Diehl, Ph.D.
Burlington, Vermont

David E. Kerr, Ph.D.
Burlington, Vermont

Jie An, Ph.D.
Seattle, Washington

Natalia V. Giltiay, Ph.D.
Seattle, Washington

Thomas Hawn, M.D., Ph.D.
Seattle, Washington

Kevin Lahmers, D.V.M., Ph.D.
Pullman, Washington

Jennifer M. Lund, Ph.D.
Seattle, Washington

Ernesto J. Muñoz, Ph.D.
Seattle, Washington

Marion Pepper, Ph.D.
Seattle, Washington

Mary Philip, M.D., Ph.D.
Seattle, Washington

Lalita Ramakrishnan, M.B.B.S., Ph.D.
Seattle, Washington

Ram Savan, Ph.D.
Seattle, Washington

Dmitry Shayakhmetov, Ph.D.
Seattle, Washington

Kelly D. Smith, M.D., Ph.D.
Seattle, Washington

M7.1lW Washington

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Judith Ashouri, M.D.
San Francisco, California

Rashmi Bankoti, Ph.D.
Los Angeles, California

Asoka Banno, Ph.D.
La Jolla, California

Brigid Boland, M.D.
San Diego, California

Florent Carrette, Ph.D.
La Jolla, California

Javier Casas, Ph.D.
La Jolla, California

Maogen Chen, D.O., M.D.
Los Angeles, California

Sarah Fox, Ph.D.
San Diego, California

John Goulding, Ph.D.
San Diego, California

Nargess Hassanzadeh-Kiabi, M.P.H.
Los Angeles, California

Yoko Kidani, M.D., Ph.D.
Los Angeles, California

Cecilia Lindestam Arlehamn, Ph.D.
La Jolla, California

Thomas Marichal, D.V.M., Ph.D.
Stanford, California

Melanie Matheu, Ph.D.
Irvine, California

Michael Matho, Ph.D.
La Jolla, California

Marek Nemcovic, Ph.D.
San Diego, California

Ivana Nemcovicova, Ph.D.
La Jolla, California

Rita Okorogu, M.B.B.S.

Christopher M. Jewell, Ph.D.
Silver Spring, Maryland

Shimpei Kasagi, M.D., Ph.D.
Bethesda, Maryland

Sid Kerkar, M.D.
Bethesda, Maryland

Sanjay Khandelwal, Ph.D.
Bethesda, Maryland

Apostolos Kontzias, M.D.
Bethesda, Maryland

Pavel Kopach, M.D.
Baltimore, Maryland

Smita V. Kulkarni, Ph.D.
Frederick, Maryland

Catalina Lee-Chang, Ph.D.
Baltimore, Maryland

Amanda Melillo, Ph.D.
Rockville, Maryland

Hiroko Nakatsukasa, Ph.D.
Bethesda, Maryland

Karen O•Connell, Ph.D.
Columbia, Maryland

Naoko Okiyama, M.D., Ph.D.
Bethesda, Maryland

Alexander V. Pichugin, M.D., Ph.D.
Silver Spring, Maryland

Maria Jamela R. Revilleza, Ph.D.
Derwood, Maryland

Ana Belen Rodriguez de la Pena, Ph.D.
Bethesda, Maryland

Vladimir Ryabov, Ph.D.
Baltimore, Maryland

Huseyin Saribasak, Ph.D.
Baltimore, Maryland

Roza Selimyan, Ph.D.
Baltimore, Maryland

Archna Sharma, Ph.D.
Baltimore, Maryland

Wei Shen, M.D., Ph.D.
Frederick, Maryland

Daniel Smrz, Ph.D.
Bethesda, Maryland

Emmanuel Thomas, M.D., Ph.D.
Bethesda, Maryland

Nitin Verma, Ph.D.
Germantown, Maryland

Daniel Wansley, Ph.D.
Bethesda, Maryland

Peter Zanvit, Ph.D.
Bethesda, Maryland

Stasya Zarling, Ph.D.
Baltimore, Maryland

Gulnar Fattakhova, Ph.D.
Ann Arbor, Michigan

Babu Gonipeta, D.V.M.
East Lansing, Michigan

Jamison Grailer, Ph.D.
Ann Arbor, Michigan

Yuan He, Ph.D.
Ann Arbor, Michigan

Taehyung Lee, Ph.D.
East Lansing, Michigan

Catherine Ptaschinski, Ph.D.
Ann Arbor, Michigan

Claudia Preston, M.D.
Rochester, Minnesota

James Brien, Ph.D.
St. Louis, Missouri

Grzegorz Gmyrek, D.O., Ph.D.
St. Louis, Missouri

So-Hee Hong, Ph.D.
Columbia, Missouri

Donald Lawrence, Jr., Ph.D.
St. Louis, Missouri

Amelia Pinto, Ph.D.
St. Louis, Missouri

Young-Jin Seo, Ph.D.
Columbia, Missouri

ChiaoWen Yang, Ph.D.
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Jian Ye, Ph.D.
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Lincoln, Nebraska

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Lebanon, New Hampshire

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Piscataway, New Jersey

Suhagi Shah, M.P.H.
Maplewood, New Jersey

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Syracuse, New York

Kaushik Choudhuri, Ph.D.
New York, New York

Emily Corse, Ph.D.
New York, New York

Paul D•Agostino, Ph.D.
New York, New York

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Green Port, New York

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New York, New York

Jarrod A. Dudakov, Ph.D.
New York, New York

Kathryn Dupnik, Ph.D.
New York, New York

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Buffalo, New York

Laura Goodman, Ph.D.
Ithaca, New York

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New York, New York

Viveka Mayya, Ph.D.
New York, New York

Simren Mehta, Ph.D.
Bronx, New York

Gayatri Mukherjee, Ph.D.
Bronx, New York

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Manahasset, New York

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Chuncheon, South Korea

Kim W. Seok, M.D.
Gwangju, South Korea

Likun Du, Ph.D.
Stockholm, Sweden

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Tainan, Taiwan

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Taichung, Taiwan

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Zhuting Hu
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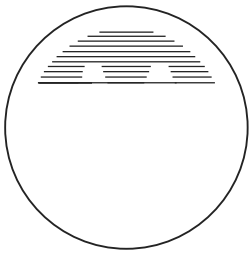
David Chiang
New York, New York
Marc A. Coussens
New York, New York
Thomas Gardner
New York, New York



GRANT AND AWARD DEADLINES

December 20„L•Oréal USA Fellowships for Women in Science

December 30„NIH Director•s Early Independence Award (EIA) Program

May 17…21, 2014

In collaboration with multiple partners, the Federation of American Societies for Experimental Biology (FASEB), of which AAI is a founding and active member, recently launched a new online tool to help young scientists plan their careers. The new tool,

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS
9650 Rockville Pike, Bethesda, MD 20814-3994

Annual Meeting of The American Association of Immunologists
May 3 - 7, 2013 | Hawaii Conven tion Center | Honolulu, Hawaii