HIPAA / HITECH

Update on Human Subjects Research: HIPAA and HITECH

The HIPAA/HITECH rule was recently released with an effective date in late March 2013. This article highlights changes and provisions likely to be of concern to the ASIP membership. The Health Insurance Portability and Accountability Act (HIPAA) of 1996 included many components designed to address patient privacy issues. The 2009 Health Information Technology for Economic and Clinical Health Act (HITECH) further built upon HIPAA, clarifying privacy requirements as it fostered the growth of electronic health records. Together, HIPAA and HITECH regulate how patient information can be conveyed to and used by healthcare workers and researchers. HIPAA/HITECH apply when information or samples are gathered from patients.

Researchers in the United States who work in institutions that receive US Federal funds must also comply with the Common Rule (encapsulated in Title 45 Code of Federal Regulations (CFR) 46, last revised in 1991), which establishes the basic bioethical requirements for human subjects research. The purview of the Common Rule extends beyond patient care data and addresses all research conducted on human subjects by agencies of the United States Department of Health and Human Services as well as other federal departments such as The Department of Energy and The Department of Defense. Each of the participating agencies requires the use of Institutional Review Boards (IRBs) to oversee human subjects research. IRBs must operate under the requirements of the Common Rule.

HIPAA/HITECH expand upon the requirements of the Common Rule when the research is

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ASIP Enters Next Century Focused on Core Mission

ISBER Division Graduates to Full Autonomy

Since the ASIP executive office was established on the FASEB campus in 1965, it has functioned as a multisociety office and has provided management expertise to other organizations with overlapping interests. For details, see my recent editorial in the April 2013 issue of The American Journal of Pathology (Sobel ME: ASIP Centennial Editorial: The American Society for Investigative Pathology in the Next Century. Am J Pathol 2013, 182:1052-1054). After nearly 50 years of providing management services to societies ranging in size from small and fledgling to large, ASIP is now strategically positioned to enter the next century fully focused on ASIP’s core mission.

In 2003, ASIP revised its Bylaws to establish Divisions, which were defined as semiautonomous

Continued on page 5 - Next Century
Call for Nominations for the ASIP 2014 Election

In 2013, ASIP Regular members will be voting for the following open positions for terms to begin July 1, 2014:

- **Vice-President.** The VP will serve a one-year term and then will automatically proceed to one-year terms as President-elect, President, and Past President. Thus, this is a four-year commitment to service on the ASIP Council.

- **Councilor-at-Large.** The Councilor-at-Large serves a three-year term on the ASIP Council.

- **Education Committee Chair-Elect.** The Chair-Elect serves for 1 year and then proceeds to a three-year term as Chair. The Education Committee is responsible for developing educational materials, including courses, for the benefit of the membership and consistent with the purposes of the Society.

- **Committee for Career Development, Women & Minorities Chair-Elect.** The Chair-Elect serves for 1 year and then automatically proceeds to a three-year term as Chair. The Committee for Career Development, Women and Minorities shall develop and oversee programs to promote the career development of all members of the Society, especially under-represented populations.

- **Meritorious Awards Committee Member.** Each year, two members are elected to join the Meritorious Awards Committee for a three-year term. The committee reviews candidates for the ASIP Meritorious Awards (Gold-Headed Cane, Rous-Whipple, Outstanding Investigator, Cotran Early Career Investigator Award, Robbins Distinguished Educator Award, and Young Scientist Leadership Award) and selects the awardees.

- **Nominating Committee Member.** Each year, two members are elected to join the Nominating Committee for a three-year term. The Nominating Committee develops the ballot for all positions on the ASIP Council, Meritorious Awards Committee, and Nominating Committee.

Submit Your Nominations Online

If you wish to nominate a candidate for any of these positions, please complete the online **ASIP Nomination Form** at [www.asip.org/nominate](http://www.asip.org/nominate). You will be requested to provide your reason for nominating the individual. Self-nominations are encouraged!

[www.asip.org/nominate](http://www.asip.org/nominate)

The deadline to submit nominations is September 15, 2013.
HIPAA / HITECH
Continued from page 1

conducted on patients or where samples were gathered from patients in the healthcare setting. As a result, researchers conducting studies using samples from patients must comply with both the requirements of HIPAA/HITECH and the Common Rule.

Many of the 2013 revisions of HIPAA/HITECH ease previous restrictions and their resulting administrative requirements are more harmonious with the Common Rule. Researchers should work with regulatory affairs professionals to understand further how these changes may apply within your organization and their alignment with other relevant state, local or national regulations. An executive summary of the major changes to HIPAA/HITECH relevant to researchers is provided below.

Compound Authorizations may be used in specific circumstances.
The new rule adds some flexibility to authorizations for the use of protected health information (PHI) in research. This is a positive development, representing further compatibility between the Common Rule and HIPAA’s provisions. Previously, conditioned and unconditioned authorizations could not be combined in the same document. Conditioned authorizations are those requiring the patient’s consent before treatment, payment, and enrollment in a health plan or benefit eligibility. Unconditioned authorizations are those agreements that do not link treatment, payment, enrollment in a health plan or benefit eligibility to the patient’s consent. Previously, an authorization could not blend conditioned and unconditioned authorizations. For example, authority to treat was presented in one document and consent to participate in a research study was found in another document. Compound authorizations – combining conditioned and unconditioned authorizations – are now allowed in specific sets of circumstances. The Final Rule requires that a compound authorization clearly differentiate between the conditioned and unconditioned components. The individual is provided with an opportunity to opt in to the research activities described in the unconditioned authorization. “Opt out” authorizations are insufficient; for example, one should not use a form requesting that an individual initial here if they do not want information used. It is important to note that compound authorizations allowing access to psychotherapy PHI may only be combined with other authorizations for use of psychotherapy notes.

Compound Authorizations may be used to consent to future research.
Authorizations need not be study specific. Authorizations for future use should sufficiently describe the purposes in a way that an individual might expect their information to be used in the future and/or disclosed. Consent may be provided for biobanking activities as well as secondary future research. Consent for these activities may be contained within the compound authorization. This brings HIPAA’s requirements in line with the Common Rule.

Genetic Information is now explicitly included as part of the definition of health information.
Furthermore, the Final Rule states that genetic information cannot be disclosed to covered entities for underwriting purposes except issuers of long-term care policies; this is currently part of GINA – the Genetic Information and Nondiscrimination Act of 2008. It makes specific note that genetic information may not be used for activities such as underwriting by health plans; eligibility determinations; premium calculation; and exclusion of pre-existing conditions. The law specifies various terms to further delineate what is meant by genetic information, including defining the following:

- Family member includes a dependent or any other person who is a first-degree, second-degree, third-degree, or fourth-degree relative with each degree level further defined in the regulation. Relatives by affinity (such as marriage or adoption) are treated the same as relatives by consanguinity (having a common biological ancestor). Relatives by less than full consanguinity (such as half-siblings sharing a single parent in common) are treated the same as relatives by full consanguinity (such as siblings who have both parents in common).
- Genetic information includes information about the following: the individual’s genetic tests; the genetic tests of family members; the manifestation of a disease or disorder in family members; or genetic services. It also includes genetic information concerning a fetus carried by the individual or family member who is a pregnant woman and any embryo legally held by an individual or family member utilizing an assisted reproductive technology. It specifically excludes information about the sex or age of any individual.
- A genetic service includes a genetic test, genetic counseling or genetic education.

The definition of research did not change.
Research continues to be defined as a systematic investigation, including research development, testing, and evaluation, designed to develop or contribute to generalizable knowledge.

Protected Health Information (PHI) excludes information from an individual who died over 50 years ago.
Consent for use of PHI is required for decedents whose death has been within the last 50 years. This change will ease researchers’ ability to use decedent’s information over time.

This article was prepared by Jennifer Dreyfus, MBA, M. Bioethics, who is a consultant to the ASIP Public Affairs Working Group.
As summer heats up, as it has a tendency to do in Alabama, I realize that I have hit the six-month mark of my journey as Editor-in-Chief of *The American Journal of Pathology* (AJP). It is an exciting time to hold this position as ASIP plots a course into its second century of existence, as marked from the 1913 founding of one of its two predecessor organizations, the American Society for Experimental Pathology. As the official journal of ASIP, *AJP* promotes investigations into the pathogenesis, classification, and diagnosis of disease via primary research articles and reviews on multiple subsections of pathology. And at the outset of this journey, *AJP* remains the most highly cited scientific journal in the discipline of Pathology (2012 Journal Citation Reports).

The success of *AJP* critically depends on a strong and vibrant ASIP membership supporting the missions of both ASIP and *AJP* to advocate for our discipline and to publish the most exciting and insightful scientific advances in the field of experimental pathology. To assist with this objective, I have assembled a team of committed ASIP leaders, including Senior Associate Editor Martha Furie and Senior Assistant Editors Robin Lorenz and John Chatham. Together with an outstanding team of *AJP* staff, including Managing Editor Audra Cox, we have implemented a number of changes in *AJP* standard operating procedures that in just six months have reduced the time to first decision and author notification by almost one week compared to 2012. Importantly, we have adopted a more proactive approach for identifying capable reviewers and providing authors with the type of professional service and communication that they should expect from a leading scientific journal. I truly believe that customer service is of utmost importance, and our team will continue to enhance the author and reviewer experience.

If you haven't read the *AJP* lately, or submitted a manuscript or review article, I encourage you to take a fresh look at your *Journal*. We are headed in the right direction, but we rely on the support of a dedicated ASIP membership to sustain our current momentum and accomplish our long-term goals. If your academic and laboratory commitments are slowing down for the summer, please consider preparing a review or mini-review; email your proposals to my attention at ajp@asip.org. Together, we can make a remarkable start on an exciting century of discovery for *AJP* and ASIP.
Next Century
Continued from page 1

organizations that were not separately incorporated and for which ASIP would have a fiduciary responsibility. The Divisions were designed to accommodate small societies that did not have the resources to incorporate on their own and that could take advantage of the ASIP membership services infrastructure. By 2006, ASIP had three Divisions: Association of Pathology Informatics (API), Pulmonary Pathology Society (PPS), and the International Society for Biological and Environmental Repositories (ISBER). When we established the Divisions in 2003, the former – and late – ASIP President Dick Lynch predicted that they would naturally want to become completely independent and eventually separate from ASIP as they grew and developed. Indeed, API separated from ASIP in December 2008 and became independently incorporated. PPS separated the following December and became independently incorporated. Effective June 1, 2013, ISBER has followed the same path.

As a Division of ASIP, ISBER membership increased 270%, attendance at its annual meeting increased 150%, corporate support increased nearly 600%, and ISBER’s annual operating expenses nearly tripled. Desiring full autonomy and having reached a critical point in its development, earlier this year the ISBER membership voted to separate from ASIP and ISBER is now separately incorporated. It is currently managed by an association management company located in Vancouver, British Columbia.

This year marks a transition to a new paradigm for the ASIP executive office. Until December 2012, ASIP managed services for the Association of Pathology Chairs (APC), the Association for Molecular Pathology (AMP), and the Intersociety Council for Pathology Information (ICPI). By January 2014, the ASIP office will be re-organized to accommodate only ASIP and ICPI.

APC made a strategic decision to develop an independent office just before the close of 2012. APC is now located in a separate office space on the FASEB campus. APC remains an affiliated ASIP organization and the APC and ASIP leaderships continue to work cooperatively on projects, especially related to graduate education in pathology. APC will be a guest society of ASIP at the ASIP 2014 annual meeting at Experimental Biology in San Diego in April 2014 and ASIP was a gold partner of APC at the APC 2013 annual meeting.

AMP has been located and managed in the ASIP office since it was first organized in 1995 and has grown in size and complexity since then. AMP membership has increased 800% since 1995 and attendance at the annual meeting has increased 1500% since the first molecular diagnostics workshop in 1992. By 2011, AMP was ready for a full-time Executive Officer, and Mary Steele Williams was appointed in July of that year. ASIP fully supported and endorsed the application of AMP to become a constituent society of FASEB, and AMP became a FASEB member on July 1, 2013. The next step in AMP’s evolution is moving to its own office space, which will be situated one floor above the ASIP office effective January 2014. (The Journal of Molecular Diagnostics continues to be co-owned by ASIP and AMP and managed in the ASIP Journal Office along with The American Journal of Pathology.)

Thus, 2013 is a transition year for the ASIP executive office, in which we are positioning ourselves to dedicate nearly full effort to ASIP’s core mission by 2014. (ASIP will continue to manage ICPI, including the Intersociety Pathology Council and the publication of the Directory of Pathology Training Programs. ASIP also currently serves as the meeting manager for the annual meeting of the National Association of Medical Examiners.) ASIP resources are now focused to enhance membership services and to more comprehensively meet the needs of the experimental pathology community, including the launch of a new Biobanking Scientific Interest Group to focus on a pathology perspective to biospecimens. ASIP is also organizing additional meetings in the future. In addition to our affiliation agreement with the Italian Society of Pathology and Translational Medicine, we are co-programming the 2014 annual meeting of the American College of Veterinary Pathologists and are developing single- and multi-themed meetings based on our reinvigorated Scientific Interest Groups starting in 2015. Stay tuned for announcements!

Mark E. Sobel, MD, PhD
ASIP Executive Officer
The Association of Pathology Chairs Honors Two Past Presidents of ASIP

ASIP members Drs. Avrum I Gotlieb and Mark E Sobel were recognized for their achievements in the field of pathology at the Association of Pathology Chairs (APC) recent annual meeting in Boston.

Dr. Gotlieb received the APC Distinguished Service Award, which was first established in 1986. With only two exceptions, every recipient of the Distinguished Service Award has been an ASIP member and the list of Dr. Gotlieb’s predecessors includes nine ASIP presidents. Dr. Gotlieb was recognized in particular for developing an independent research program in cardiovascular pathobiology and for his important discoveries related to the mechanisms of valvular heart disease and atherosclerosis. He was also recognized for forming the Department of Laboratory Medicine and Pathology at the University of Toronto in 1997, including the innovative Specialist Program in Pathobiology for undergraduates.

Dr. Sobel received the Friends of Pathology Award, which was first established in 2007 to recognize an individual or organization whose accomplishments have been exceptionally beneficial to pathology and the pathology community. There have been only three previous recipients of the Friends of Pathology Award: Senator Edward M. Kennedy (2007), NIH Director Francis Collins (2009), and the Engelberg Center for Health Care Reform at the Brookings Institution (2012). Dr. Sobel was recognized for his service as Executive Officer of ASIP (2001-present), APC (2001-2011), and the Association for Molecular Pathology (2001-2011), President of ASIP (1999-2000) and AMP (1999), for his programming and teaching in ASIP’s Concepts in Molecular Biology Course (1987-1999), for his mentorship, for his research (primarily conducted at the National Cancer Institute over a 25-year period prior to his assuming the position of ASIP’s Executive Officer in 2001) on gene regulation and the molecular basis of metastasis, and for his contribution to the field of bioethics and protection of human research subjects.

Coincidently, both Dr. Gotlieb and Dr. Sobel have established endowed funds to support trainee members of ASIP. Dr. Sobel established the A. D. Sobel – ASIP Education Fund in memory of his father in 2007. The Sobel Fund accepts donations from ASIP members, friends, and Sobel family members and supports the ASIP Young Leadership Service Award (formerly the ASIP Excellence in Science Award) and trainee travel awards to attend the ASIP annual meeting, educational courses, and ASIP-sponsored scientific meetings. To date, over $50,000 has been distributed to ASIP trainees. This year, Dr. Gotlieb established the Gotlieb Family Fund for Undergraduate Education in Pathobiology to fund a dedicated trainee travel award for an undergraduate to attend the ASIP annual meeting. Like the Sobel Fund, the Gotlieb Family Fund will accept donations from ASIP members, friends, and Gotlieb family members.

ASIP members who are interested in establishing a named fund to support a lecture or symposium at the annual meeting or to support an award program should contact Mark Sobel at mesobel@asip.org.
SO MANY WAYS TO SUPPORT ASIP

Please accept my contribution to the following fund(s):

☐ A.D. Sobel - ASIP Education Fund $____________
☐ ASIP Centennial Fund $____________
☐ Gotlieb Family Fund for Undergraduate Education in Pathobiology $____________
☐ Markos Rojkind – ASIP Trainee Travel Award Fund
☐ Pathology Leadership Fund $____________

Total Gift Amount (All Funds) $____________

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Donate online at www.asip.org/donations

American Society for Investigative Pathology - ASIP Pathways Vol. 8 No. 2 August 2013

Journal News

Recent Press Releases for The American Journal of Pathology (AJP)
Read the complete press releases at www.asip.org/rss/AJP_Press_Releases.xml

- Ovarian Cancer Metastases Influenced by Factors in Target Tissues - Both Milky Spots and Fat Cells in Omentum Promote Cancer Cell Migration, Growth, and Spread, Reports The American Journal of Pathology, (July 18, 2013)

- Unraveling the Largest Outbreak of Fungal Infections Associated with Contaminated Steroid Injections - Findings Suggest Black Mold Targeting the Base of the Brain, Reports The American Journal of Pathology, (June 26, 2013)

- Reversal Cells May Tip the Balance Between Bone Formation and Resorption in Health and Disease - Investigators Report on a Possible "Missing Link" in The American Journal of Pathology, (June 6, 2013)

- New Study Pinpoints Biochemical Mechanism Underlying Fibrosis Following Glaucoma Surgery - Findings Suggest VEGF Inhibition via TGF-ß1 May Be Beneficial, Reports The American Journal of Pathology, (May 17, 2013)


- Study Points to Essential Role of IL-22 in Lung Repair After the Flu - Results of New Study Published in The American Journal of Pathology, (March 11, 2013)

- Activation of Cortical Type 2 Cannabinoid Receptors Ameliorates Ischemic Brain Injury - Reported in The American Journal of Pathology, (February 21, 2013)

- Tamoxifen Ameliorates Symptoms of Duchenne Muscular Dystrophy - Results of New Study Published in The American Journal of Pathology, (January 15, 2013)

Recent Press Releases for The Journal of Molecular Diagnostics (JMD)
Read the complete press releases at www.asip.org/rss/JMD_Press_Releases.xml

- Biomarker Identification May Lead to New Noninvasive Test for Colorectal Cancer Detection - Serum DNA Analysis Allows Detection of Early Disease, Say Researchers in The Journal of Molecular Diagnostics, (June 7, 2013)


ASIP Accepting Applications for Trainee Awards

Information & Deadlines
The following awards require submission of an abstract to the Experimental Biology 2014 Meeting. For details on abstract submission, visit: www.asip.org/meetings/2014/abstracts.cfm
Abstract Submission Deadline: November 8, 2013
Award Application Deadline: November 15, 2013
To apply, go to: www.asip.org/awards

ASIP Experimental Pathologist-in-Training (EPIT) Award and ASIP Experimental Pathologist-in-Graduate Training Award (EPIGT)
The EPIT is a prestigious award presented to an ASIP trainee member who is a postdoctoral fellow (including research and clinical fellows) and who has excelled in investigative efforts in studying mechanisms of disease, as evidenced by an abstract submission to the ASIP annual meeting, an extended research report, and a letter of recommendation attesting to the candidate's role in the work and potential as a biomedical research investigator. The award includes: a certificate of achievement for the winning abstract presented at the ASIP Annual Meeting at the Experimental Biology Meeting, a $1,500 honorarium, and complimentary meeting registration.

The EPIGT is a prestigious award presented to an ASIP trainee member who is a graduate student in a PhD training program, MD/PhD training program or MD training program who has excelled in investigative efforts in studying mechanisms of disease, as evidenced by an abstract submission to the ASIP annual meeting, an extended research report, and a letter of recommendation attesting to the candidate's role in the work and potential as a biomedical research investigator. The award includes: a certificate of achievement for the winning abstract presented at the ASIP Annual Meeting at the Experimental Biology Meeting, a $1,500 honorarium, and complimentary meeting registration.

Candidates for the EPIT and EPIGT Awards are also considered for ASIP Merit Awards ($1,250 plus complimentary registration), which will be awarded to the best postdoctoral fellow/resident abstract and the best graduate/medical student abstract. Each applicant must be a trainee member of ASIP. Prior recipients of the EPIT, EPIGT, and Merit Awards may reapply if the work submitted is clearly distinct from the work previously submitted for their winning application (not just a continuation of the same project). In such cases, the applicants should submit a copy of the previous winning application along with the new application.

Gotlieb Family Fund for Undergraduate Education in Pathobiology Undergraduate Student Trainee Travel Award
The newly established Gotlieb Family Fund for Undergraduate Education in Pathobiology will support an undergraduate student with a $750 travel award to attend the ASIP 2014 Annual Meeting. Like the other ASIP trainee Travel Awards, an abstract must be submitted to the annual meeting. Applicants must be Undergraduate Student Members of ASIP.

ASIP Trainee Travel Awards
To promote the entry of young scientists into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the Annual Meeting, the American Society for Investigative Pathology is offering a limited number of Trainee Travel Awards of $750 each to offset travel expenses for ASIP Trainee members to attend the Experimental Biology Meeting. The ASIP Program Committee will select the recipients based on the scientific abstracts. Abstracts will be selected for presentation in either poster sessions or in minisymposia. These abstracts need not be submitted strictly to ASIP topic categories.

Marcos Rojkind – ASIP Trainee Travel Award
The Marcos Rojkind - ASIP Trainee Travel Award honors the memory of Dr. Marcos J. Rojkind, a loyal member of ASIP for forty years. After Dr. Rojkind's death in 2011, a special ASIP fund was established by Dr. Satdarshan (Paul) S. Monga to support travel to the ASIP Annual Meeting of an ASIP trainee member who submits an abstract that includes data relevant to studies in liver pathobiology. Candidates for the Marcos Rojkind - ASIP Trainee Travel Award should submit an application for the ASIP Trainee Travel Award and will be considered along with all other candidates for the ASIP Trainee Travel Award. The Marcos Rojkind - ASIP Trainee Travel Award is presented to the trainee who submits the best abstract in Liver Pathobiology, as judged by the Trainee Travel Award Review Committee.

Minority Trainee Travel Awards
The FASEB Maximizing Access to Research Careers (MARC) Program has awarded ASIP funding to promote the entry of underrepresented minority scientists and minority-serving institutions into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in meetings and courses sponsored by ASIP. Successful applicants will be reimbursed up to $1,850 in travel costs associated with conference attendance and participation. These funds are meant to defray lodging, air, ground transportation, and meeting registration. The ASIP Minority Trainee Travel Awards are funded by a grant from the National Institute of General Medical Sciences, National Institutes of Health [FASEB MARC Program: T36-GM08059].

HCS-Sponsored Trainee Travel Award
To promote the entry of young scientists who use histochemical techniques into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the Annual Meeting, the Histochemical Society is offering a limited number of Trainee Travel Awards of $750 each to offset travel expenses for trainee members of the Histochemical Society and/or ASIP to attend the Experimental Biology Meeting. The ASIP Program Committee will select the recipients based on the scientific abstracts, which must include data based on the use of histochemical techniques. Abstracts will be selected for presentation in either poster sessions or in minisymposia. These abstracts MUST be submitted to ASIP topic categories.

ICPI Trainee Travel Awards
ASIP Trainees are eligible to apply to the Intersociety Council for Pathology Information (ICPI) for $500 travel awards to attend certain ASIP events. Trainees who submit an abstract to the meeting are eligible for a $750 travel award.
Membership Committee Update  
Kevin Roth, Chair (2012-2013)

The Membership Committee continues to develop strategies to recruit new members, retain old members, and advance the mission of the ASIP to promote experimental pathology and foster investigation into the pathogenesis, classification, and diagnosis of disease. Recognizing that many current and potential future ASIP members have limited financial resources to support their involvement in professional societies, the committee focused its energies on advocating for stable annual dues for Regular Members, reduced dues for Trainee Members, and the development of a lower price alternative category for new ASIP Regular members. This latter membership category, termed “Next Century Membership” has many of the benefits of Regular Membership but at a reduced, “introductory” price. The 2013 annual dues for Next Century Members is $101.00 in recognition of the founding of one of ASIP’s two predecessor societies, the American Society for Experimental Pathology, one hundred and one years ago. This represents an $84.00 savings from the Regular Membership annual dues. Next Century Membership is available to new members only and does not include the Regular Member benefit of reduced color figure charges when publishing in The American Journal of Pathology or The Journal of Molecular Diagnostics. Finally, current Members who recruit new members to the ASIP will be eligible for reduced 2014 annual dues as explained below in “Membership Matters.”

ASIP Welcomes New Members Who Joined Between January and May, 2013

Regular Members
Hikmat Al-Ahmadie, MD, Memorial Sloan-Kettering Cancer Center
Jonas Almeida, BS, PhD, University of Alabama School of Medicine
Daniel Anthony, PhD, MA, University of Oxford
Peter Baluk, BA, PhD, UCSF
Sang-Hyuk Chung, BS, MS, PhD, University of Houston
Dominic Edwin Cosgrove, PhD, Boys Town National Research Hospital
Selina Darling-Reed, PhD, Florida A&M University
Isabelle Draper, PhD, Tufts Medical Center
Sharmila Dudani, MD, Army College of Medical Sciences
Maher Ghamloush, MD, Tufts Medical Center
Liliana Guedez, PhD, SAIC-Frederick
Donna Hansel, MD, PhD, Cleveland Clinic
Christopher Ianelli, MD, PhD, iSpecimen
Vasiliki Leventaki, MD, UT MD Anderson Cancer Center
Yi-Ping Li, BS, PhD, University of Alabama Birmingham School of Medicine
Christine Guo Lian, MD, Brigham & Women's Hospital
Keith Mansfield, DVM, Novartis
Laurie McCauley, PhD, DDS, University of Michigan
Allan G. Murray, MD, FRCP(C), University of Alberta
Daniela Quaglini, PhD, University of Modena and Reggio Emilia
Christina Samathanam, MD, PhD University of Nevada School of Medicine

Aldo Scarpa, MD, PhD, University of Verona
Kyra Lynn Somers, DVM, PhD, IDEXX
Laura Tafe, MD, Dartmouth-Hitchcock Medical Center
Shigeo Tamiya, PhD, University of Louisville

Regular Members Transitioned from Trainee
Venkat Krishna Mannam, PhD, University of Mississippi
Porfirio Nava-Dominguez, PhD, Emory University

Associate Members
Jessica Amy Casper, Boston Children's Hospital
Fang Jiang, PhD, Abbvie, Inc.
Amy Jean Koh, University of Michigan
Dayna Katherine Mudge, Boston Children's Hospital
Yong Sun, MS, University of Alabama at Birmingham

Post-Doctoral Trainee Members
Erik Boll, PhD, University of Massachusetts Medical School
Meredith Crane, PhD, Rhode Island Hospital
Min Dai, PhD, University of Washington
Katherine Downey, MD, MS, Albert Einstein Medical Center
Chaoyong He, PhD, Oklahoma Medical Research Foundation
Xiuyun Hou, MD, Boston University
Alok Khandelwal, PhD, Boston Medical Center
Allison Ruth Larson, MD, Brigham and Women's Hospital
Marion Leick, PhD, Brigham and Women's Hospital
Maria Cecilia Lezcano, MD, Brigham and Women's Hospital
Yu Mei, MD, PhD, Boston University
Ana Carolina Fragoso Motta, DDS, PhD, Brigham Women's Hospital

Yara Moustafa, MD, LSU Health Science Center
Loretta Lina Müeller, PhD, UNC Chapel Hill
Hirosi Nishi, MD, PhD, Brigham and Women's Hospital
Gabriela Novak, PhD, University of Toronto
Gezina Oei, MD, Academic Medical Centre
Debalina Sarkar, PhD, Brigham & Women's Hospital
Rose Linda Szabady, PhD, University of Massachusetts Medical School
Marilyn Tien Un Wan, MBChB, Brigham and Women's Hospital
Doreen Nazeih Younan, PhD, Alexandria University

Pre-Doctoral Trainee Members
Aparna Baldwin, MBA, Stony Brook University
Wakkas Fadhlil, MBChB, MSc, University of Nottingham
Christopher Graham, University of Alabama Birmingham
Marquita Johnson, MS, Florida A&M University
Jennifer Simkin, BS, Tulane University
Zhexue Qin, Boston University
Danilo Soave, University of Sao Paulo
Wen Allen Tseng, Harvard University

Undergraduate Members
Shayne Brown, Central Connecticut State University
Theodore Roth, Stanford University
Liuyang Wang, Boston University

Continued on page 11 - Membership Matters
Milestones... in Investigative Pathology

by William K. Funkhouser, MD, PhD

The first time you touch a van de Graaff generator, you’re sure you’re going to die. Anything that can arc and make your hair stand on end can’t be good for you. Then you’re taught that those millions of volts are not what kill you, it’s theamps, and van de Graaff generators don’t make enough amps to hurt you. You’re probably wondering where this is heading, but the analogy is that in ischemic heart disease, it’s not the pressure gradient (volts) that saves you, it’s the coronary artery blood flow (amps).

Those pristine coronary arteries of your youth have transmogrified over years of dedicated service into strictured, lipid-laden, thrombosis-prone vessels that reduce coronary artery blood flow. Stenotic narrowing reduces blood flow more than common sense understanding would estimate. Yes, the vessel radius and blood flow are directly related, but not linearly as with the pressure gradient, instead to the fourth power of the vessel radius (Poiseuille, 1840). So, narrowing a coronary artery to ½ of its usual radius leads to reduction of blood flow to 1/16 of expected. Turbulence can develop, and could affect plaque surface stability. Therefore, atheromas in the coronaries have a marked effect on usual pulsatile laminar flow. No wonder your interventionist cardiologist wants to sell you a shiny mesh stent to dilate your stenotic foco - if you double the diameter at the stenosis, you raise blood flow 16-fold. Our colleagues in Anesthesiology think this way when choosing calibers of endotracheal tubes and catheters. We Pathologists think this way because we have seen the coronary artery stenoses in association with sudden cardiac deaths from fresh myocardial infarcts (MIs), and in association with pump failure from old MIs. But it wasn’t always so.

Dr. Edward Jenner (of cowpox vaccine fame) recognized coronary artery mural calcifications and intimal thickening in autopsy patients with a history of angina, and postulated in letters to Dr. Heberden in the 1780s that angina pectoris could be due solely to coronary artery narrowing. Dr. Parry’s clinical review of angina pectoris in 1799 credited Jenner for this coronary stenosis-angina association. However, invention of the stethoscope (Laennec, 1816) focused clinical attention on the sounds of valves and pump failure, and invention of the electrocardiogram (ECG) by Einthoven in 1895 focused clinical attention on electrical arrhythmias, such that cardiologists did not seriously revisit the correlation of coronary artery occlusion, angina pectoris, and myocardial infarction until reviewed by Dr. Jas. Herrick in 1912. As late as 1907, a review of the works of our current Milestones honoree, Dr. Carl Weigert, mentioned his contributions to histopathology (e.g. myelin and elastin stains) without any reference to his 1880 description of coronary artery disease in association with myocardial infarction and mural fibrosis. We could argue that they ignored the concept because nothing could be done about ischemic heart disease at that time, but vasodilators like amyl nitrite and nitroglycerine were used from the 1870s on, and would have supported Dr. Weigert’s hypothesis regarding pathogenesis of myocardial infarction and mural fibrosis. Perhaps they were distracted by the latest diagnostic technologies, or had not been taught how to think in terms of etiology-pathogenesis-altered function, or both.

Dr. Carl Weigert was a careful student of pathologic anatomy who started out as a treating clinician in the military in 1868. His interests turned to microscopic anatomy and histochemistry in the 1870s, when specific stains for classes of macromolecules, cell types, and microorganisms were hot topics. He was folded into the specialty of Pathology and mentored by Dr. Cohnheim at Leipzig after 1874, moving to Frankfurt after Dr. Cohnheim’s death in 1884 to work with Edinger and Ehrlich. Dr. Weigert pursued the concept that coagulative necrosis was frequently the trigger for a proliferative/reparative host response. In the case of heart disease, he postulated that coronary artery occlusion led to coagulative necrosis of cardiac muscle, which in turn led to mural scarring in survivors. The title paper, written in German, is discussed in the English literature (Steven, 1887), as follows:

“In the writings of Professor Weigert and Dr. Huber, I have met for the first time with what appears to me to be an accurate and tenable explanation of the relationship existing between obstruction of the coronary arteries and the formation of fibrous patches in the walls of the heart. … has shown that, where the circulation is slowly interfered with by sclerosis of the arteries, atrophy, with destruction of the muscular fibres, takes place without injury to the connective tissue. The shrunken fibres are thus set off by the stringy connective tissue…… If, however, the arrest of the circulation is more sudden in its onset, then yellow dry masses similar to coagulated fibrin make their appearance……the muscular fibres and the connective tissue show no nuclei – a necrosis has occurred. …..the condition of the coronary arteries
Milestones in Investigative Pathology

Continued from page 10

must be regarded as one of the most important etiological elements in the production of the morbid changes (cardiac mural fibrosis) at present under consideration.”

We can now expand Dr. Weigert’s working hypothesis to say that elevated serum cholesterol contributes to atheromatous plaque formation (Anichkov/Anitschkow, 1913) via increased serum low density lipoprotein (LDL) (Gofman, 1950), and that unstable plaque rupture leads to arterial thrombosis (rev. Falk, 1995), with subsequent symptoms and signs of myocardial ischemia and possible infarction.

Because of Dr. Weigert and his articulation of this model for pathogenesis of ischemic heart disease, we can now reduce the rate of development of arterial plaque by lowering our cholesterol/LDLs with statins, we can further reduce our risk of coronary arterial luminal thrombosis with aspirin and Plavix, and we can improve our coronary artery blood flow by stenting focal stenoses. The net result is that the progression of atheroma formation is slowed, fewer unstable plaques mean fewer ruptures to trigger thrombosis, and coronary artery blood flow in stented vessels can again approach laminar flow. And even your broker can’t match Poiseuille’s return on investment – a 16-fold increase in coronary artery blood flow in return for a 2-fold increase in vessel diameter.

Because after all, it’s not the volts that kill you, it’s the amps.

References:


Steven, J.L., Fibroid degeneration and allied lesions of the heart, and their association with disease of the coronary arteries, Lancet 130:1153, 1887.


Membership Matters

Continued from page 9

Members in the News

ASIP congratulates Vishva M. Dixit, MD (Vice President of Discovery Research, Genentech, San Francisco) and Robert D. Schreiber, PhD (Alumni Endowed Professor of Pathology and Immunology and Head, Tumor Immunology Program, Siteman Cancer Center, Washington University School of Medicine, St. Louis) for their election to the National Academy of Sciences for their distinguished and continuing achievements in original research.

ASIP members Drs. Avrum I Gotlieb and Mark E Sobel were recognized for their achievements in the field of pathology at the Association of Pathology Chairs (APC) recent annual meeting in Boston. (See article on page 6.)

Calling All Members

Do you know someone who would be interested in becoming an ASIP member? In celebration of our Next Century as a Society, ASIP is offering to those eligible for ASIP Regular and Trainee membership an opportunity to join ASIP at a 50% discounted dues rate. We have added a NEW membership category…The Next Century Member. The Next Century Regular Member will receive all member benefits as an ASIP Regular member EXCEPT the opportunity to receive the color figure rebate for accepted manuscripts published in the AJP or JMD. The Next Century Regular Member rate is $101. The Next Century Pre- and Post-Doctoral member rates are $25 and Undergraduates pay only $10. All new members receive a FREE online subscription to AJP and JMD and a FREE subscription to the 2013 AJP CME Program in Pathogenesis.

In addition, if you are a Regular ASIP member and you recruit a new Regular or Next Century Regular member by September 1, 2013, you will receive a $25 reduction in your 2014 membership dues up to the total amount of the annual membership fee. That’s right, for every new Regular or Next Century Regular member you recruit, you will receive a $25 reduction in your 2014 membership dues.

To participate in this program, please use the special Membership Referral Application found on page 18 in this newsletter or click on the following link (www.asip.org/apply/special.cfm) and use the appropriate application form. Please be sure to have the applicant type YOUR name in the yellow "Referral" box in the lower right corner of the application. This ensures you receive credit for the referral.

Print, and distribute this form to your colleagues. Let’s work together to build a stronger Association!

In Memoriam

ASIP acknowledges the passing of the following members In 2012:
- Nelson Fausto, MD (April 2012)
- Daniel S. Friend, MD (August 2012)
- Jeffrey A. Kant, MD, PhD (September 2012)
- Leopold G. Koss, MD (September 2012)
**ASIP Committee Updates**

**Education Committee**
The Education Committee welcomes new members as of July 1, 2013: Peter Anderson, Patricia D’Amore, Karen Kaul, Michael LaFlamme, and Dan Milner. Continuing membership: Richard Mitchell (Chair), F. William (Bill) Luscinskas, Wendy Mars, S. Paul Monga, James Musser (ex officio as President of ASIP), Kari Nejak-Bowen, Asma Nusrat, Jonathan Reichner, Howard Reisner, Daniel Remick, Mark Sobel (ex officio as ASIP Executive Officer) Emily Wickline, Monte Willis, Dani Zander. Thanks to Stanley Cohen and Jonathan Homeister, who have rotated off the Committee, for their many years of service.

**ASIP Companion Meeting at USCAP: Interactive Molecular Pathology**
San Diego, Sunday, March 2, 2014
Dani Zander, Karen Kaul, and Mark Sobel are coordinating the ASIP Companion Meeting at USCAP 2014. They are revising their innovative Interactive Molecular Pathology program of 2013 with new case histories and some additional faculty. By the end of this session, participants will have the fundamental information to construct interpretative reports for a variety of important molecular pathology tests, and gain knowledge valuable for providing a relevant clinical consultation.

**Planning for the ASIP 2014 Annual Meeting at EB 2014 in San Diego**
The Education Committee is programming four sessions at the ASIP 2014 Annual Meeting. For full details and updates, please refer to the website at www.asip.org/meetings/2014/index.cfm.

**Pathobiology for Basic Scientists: After the (Inflammatory) Deluge: Resolution of Inflammation, Wound Healing, and Fibrosis**
San Diego, Saturday morning, April 26, 2014
Chaired by Wendy Mars and Richard Mitchell
Lectures by:
- Wendy Havran, The Scripps Research Institute, Cutaneous Inflammation: More than Just Skin Deep
- Alan Wells, University of Pittsburgh, It Takes Two to Tango: Epithelium and Mesenchyme Mix and Match to Repair the Breach During Wound Healing
- David Brenner, University of California at San Diego, Hepatic Fibrosis: Building it Up and Tearing it Down

This educational series will continue in its current general format, building on general fundamental concepts in Pathobiology as developed in the Summer Academy series from a few years ago. This year’s Course is focused on chronic inflammation, wound healing and regeneration.

**XIVth Workshop on Graduate Education: Pathology Curricula in Graduate Programs: How to Succeed in the Business of Training Tomorrow’s Medical Researchers**
San Diego, Saturday, April 26, 2013
Chaired by Wendy Mars and Kari Nejak-Bowen
Speakers will talk about best practices in graduate pathology education (from the perspective of both pathology and non-pathology programs), including various education models and their outcomes.

**Scientific Sleuthing for High School Teachers (and Students)**
San Diego, Tuesday, April 29, 2014
Chaired by Kari Nejak-Bowen and Martha Furie

The same general format will be used as in previous years, with talks on bioterrorism by Martha Furie, stem cells by S. Paul Monga, and pulmonary pathology (with plastinated specimens and a hands-on component with Pathology Residents) by Dani Zander.

**ASIP Lunch & Learn: Necessary Evils: The Responsibility and Process to Protect Human and Animal Subjects in Research**
San Diego, Tuesday, April 29, 2014
Chaired by Richard Mitchell and Monte Willis

The 3rd annual Lunch & Learn Program will focus on the pitfalls of IRB and animal use protocols and will help trainees and junior faculty understand the in’s and out's of working in vivo. Guest speakers include:
- Michael Caliguri, MD, Director, Human Research Protections Program, University of California, San Diego
- Mark McArthur, DVM, Associate Professor, MD Anderson

**The Task Force on Scientific Events and Special Programs**
The Task Force on Scientific Events and Special Programs was established in 2010 to program scientific meetings other than the ASIP Annual Meeting. The first Chair of the Task Force was S. Paul Monga. Now that Dr. Monga has been elected as the next ASIP Program Committee Chair, Dr. Asma Nusrat has taken over the leadership of the Task Force. The Task Force has been asked by the ASIP Council to oversee and program the following scientific events:

1) Develop single and multi-thematic short meetings with the participation of the ASIP Scientific Interest Groups. The Task Force is planning to hold its first stand-alone meeting in 2015.

2) Oversee the collaborative efforts between ASIP and SIPMeT (the Italian Society of Pathology and Translational Medicine) to program SIPMeT scientific meetings. In 2013, ASIP is co-sponsoring the SIPMeT Young Scientist Meeting in October in Rome.

3) Collaborate with the American College of Veterinary Pathologists to develop the ACVP 2014 Annual Meeting, which will be held in Atlanta, November 8-12.

4) Oversee, with the Education Committee, the ASIP Companion Meeting at USCAP each year. See the Education Committee Report for details about plans for 2014.

BASIC RESEARCH - TRANSLATIONAL DISCOVERY - CLINICAL APPLICATIONS
Breast Cancer Scientific Interest Group
The ASIP 2013 Annual Meeting program at *Experimental Biology 2013* in Boston, MA (April 20 – April 24) featured several sessions of interest to basic science and clinical/translational breast cancer researchers. Among them was the annual Breast Cancer Workshop (supported by unrestricted educational grants from Friends for an Earlier Breast Cancer Test and Academic Press – Elsevier), which was held on Tuesday, April 23rd, on the topic of HER2+ Breast Cancer: Biology, Diagnostics and Therapeutics. This session included presentations on HER2+ Breast Cancer Biology (by William B. Coleman, Ph.D., University of North Carolina School of Medicine), Companion Diagnostics for HER2+ Breast Cancer (by Gregory J. Tsongalis, Ph.D., Dartmouth-Hitchcock Medical Center), Standard Therapeutics for The Treatment of HER2+ Breast Cancer (by Eric P. Winer, M.D., Harvard Medical School and the Dana-Farber Cancer Institute), and Alternative Treatment Strategies for HER2+ Breast Cancer Patients (by Ian E. Krop, M.D., Ph.D., Harvard Medical School and the Dana-Farber Cancer Institute).

Following this workshop, the Breast Cancer Scientific Interest Group participated in a large Networking and Poster Session (along with five other ASIP Scientific Interest Groups). This session provided an opportunity for investigators to view posters and discuss research within and across Scientific Interest Groups. A number of breast cancer relevant posters were presented in this session. Beyond these activities, oral presentations were given by members of the Breast Cancer Scientific Interest Group in minisymposia on topics related to cancer biology and clinical/translational aspects of malignant diseases. The Experimental Biology 2013 meeting overall was a great success and the ASAP sessions were very well attended.

Plans are well underway for the ASAP 2014 Annual Meeting at EB 2014 in San Diego. The Breast Cancer SIG will sponsor a workshop on Pathology, Pathogenesis, and Pathophysiology of Triple-Negative Breast Cancer. There will be presentations by Celina G. Kleer, MD, University of Michigan, on Triple-Negative Breast Cancer – Pathologic Classification and Clinical Characteristics; William Coleman, PhD, University of North Carolina School of Medicine, on Molecular Signatures of Triple-Negative Breast Cancer; Brunhilde Felding-Haberman, PhD, The Scripps Research Institute, on Mechanisms of Breast Cancer Metastasis and Opportunities for Interruption; and Judith Varner, PhD, University of California at San Diego, on Innate Immune Cell PI3K gamma as a Target for Triple-Negative Breast Cancer. The Breast Cancer SIG will also participate in the 2nd Annual ASAP Joint SIG Networking and Poster Session program on Tuesday evening, April 29, 2014 in San Diego.

Liver Pathobiology Scientific Interest Group
Liver pathobiology programming at the ASIP annual meeting at EB 2013 was a great success. It included a symposium on *Flirin’ with Disaster: Liver Injury, Inflammation and the Fast Lane to HCC*. Liver-related topics were represented in many additional symposia held throughout the conference such as the Molecular and Cellular Basis of Disease, which covered topics of stem cells, regeneration, development, wound healing and cancer; symposium on cell death, injury and survival; and Cell Scaffold and Tissue Engineering. Close to 70 abstracts were programmed in the liver pathobiology section and abstracts were presented in at least 5 minisymposia, of which two were solely dedicated to liver pathobiology. A poster session was also organized. Continuing the tradition of fostering social interactions among the members of the Liver Pathobiology SIG, Club Hepatomania™ met with several other interest groups on the last evening of the annual meeting, showcasing selected posters.

The Liver Pathobiology SIG is working with the ASAP 2014 Program Committee and remains committed to a strong and timely scientific program. Liver symposia on Nuclear Receptors and Hormones in Liver Health and Disease will cover bile acid metabolism, liver-enriched transcription factors and eventual implications in diseases such as cholestasis, steatohepatitis and liver cancer. The Liver Pathobiology Workshop in 2014 will be on liver injury and regeneration. Two members of the SIG will be presenting award lectures in 2014. Kari Nejak-Bowen, recipient of the 2014 Young Scientist Leadership Award, will give a lecture on Saturday afternoon on *Targeting Beta-catenin Reveals Novel Roles in Hepatocyte Survival and Bile Acid Metabolism*, and S. Paul Monga, recipient of the ASAP Outstanding Investigator Award, will talk Saturday evening on *Beta-catenin in Liver Pathobiology: You Wnt Some, You Lose Some!* We look forward to the continued participation, support and enthusiasm of the ASAP membership.

Neuropathology Scientific Interest Group
We hope to see everyone in San Diego, CA for EB 2014! Please join us at the following Neuropathology SIG-related events in San Diego, CA:

**Neurodevelopment and Disease**
Sunday, April 27, 2014 at 8:30 AM
Chairs: Warren Tourtellotte and Jeffrey Golden

Mechanistic Basis of Neuronal Susceptibility to Toxicants: New Avenues for Drug Discovery
Tuesday, April 29, 2014 at 8:30 AM
Chairs: Elizabeth Whitley and A. Kanhasamy

Please like us on Facebook at ASIP Neuropathology Scientific Interest Group to share news and for the most up-to-date announcements! We would also love for you to submit your images, and we can use them as our cover photos! Warren Tourtellotte (warren@northwestern.edu) or Christi Kolarcik (clk39@pitt.edu).

Vascular and Mucosal Pathobiology (VAMP) Scientific Interest Group
The VAMP Scientific Interest Group (SIG) was established last year by combining the Vascular Pathobiology and the Mucosal Pathobiology SIGs. The goal of the VAMP SIG is to bring together Investigators, Fellows, and Students who share a passion for epithelial and endothelial cell biology, mucosal inflammation, and immune cell biology. Our new SIG creates a great opportunity to...
**You’re Invited!**

**ASIP 2014 Annual Meeting at Experimental Biology**

April 26-30, 2014
San Diego, CA

**ABSTRACT DEADLINE:** November 8, 2013

**GUEST SOCIETIES**
- American College of Veterinary Pathologists (ACVP)
- American Society for Matrix Biology (ASMB)
- Association of Pathology Chairs (APC)
- The Histochemical Society (HCS)
- International Society for Biological & Environmental Repositories (ISBER)
- Society for Cardiovascular Pathology (SCVP)
- Società Italiana di Patologia e Medicina Translazionale/Italian Society of Pathology & Translational Medicine (SIPMet)

For more information, contact:
The American Society for Investigative Pathology
9650 Rockville Pike
Bethesda, MD 20814-3993
Tel: 301-634-7130
Fax: 301-634-7990
Email: meetings@asip.org
Or visit: [www.asip.org/2014](http://www.asip.org/2014)

**Preliminary Program**

- **ASIP YOUNG SCIENTIST LEADERSHIP AWARD:** Targeting Beta-Catenin Reveals Novel Roles in Hepatocyte Survival and Bile Acid Metabolism
  Award Recipient: Kari Nejak-Bowen

- **ASMB LECTURE:** Ankrd1, A Modulator of Tissue Repair, Cell-Matrix Interactions, and Matrix Metabolism
  Chair: Jeffrey Davidson
  Sponsored by ASIP & ASMB

- **THE JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY LECTURE:** Structural Mapping of Force Transmission During Directed Cell Migration; Imaging One Cell at a Time
  Chair: John Couchman
  Speaker: Dorit Hanein
  Sponsored by HCS

- **ACVP Symposium:** Lessons from the Canine Genome for Human Cancer Therapy
  Chairs: Timothy LaBranche & Melissa Schutten
  Sponsored by the ASIP Veterinary Pathology Scientific Interest Group & ACVP

- **Breast Cancer Workshop:** Pathology, Pathogenesis, and Pathophysiology of Triple-Negative Breast Cancer
  Chair: William B. Coleman
  Sponsored by the ASIP Breast Cancer Scientific Interest Group

- **Novel Mechanisms of Oncogenesis**
  Chair: Jay Debnath

- **Decoding Cancer by Single-Cell Genomics**
  Chairs: Jonathan Pochat & Nicholas Nain

- **HCS Symposium:** Advanced Imaging Techniques and Imaging Systems for Live Cell Microscopy
  Chairs: Eduardo Rose-Molinar & Paul Goodwin
  Sponsored by HCS

- **HCS Symposium:** Unlocking New Tools for Experimental Pathology: Advances in Immunohistochemistry and In Situ Hybridization
  Chairs: Charles Frevet & Stephen Hewitt
  Sponsored by HCS the ASIP Immunohistochemistry & Microscopy Scientific Interest Group

- **Intracellular Escapes of Human Pathogens**
  Chairs: David Russell & Sarah Fortune

- **Liver Pathobiology Symposium:** Nuclear Receptors in Liver Health and Disease
  Chairs: S. Paul Monga & Arin Rogers
  Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

- **ASIP COTRAN EARLY CAREER INVESTIGATOR AWARD LECTURE:** Intestinal Antigen Presenting Cells During Homeostasis and Inflammation
  Award Recipient: TIMOTHY DENNING

- **Mechanistic Basis of Neuronal Susceptibility to Toxicants:** New Avenues for Drug Discovery
  Chairs: Elizabeth Whitley & Arthi Kanthasamy
  Sponsored by the ASIP Neuropathology Scientific Interest Group

- **Regenerative Medicine**
  Chair: Themis Kyriakides

- **Blood Vessel Club™:** Vascular Permeability in Health and Disease
  Chairs: W. Francis (Bill) Luscinikas & Donald McDonald
  Sponsored by the ASIP Vascular and Musculoskeletal Pathology Scientific Interest Group

- **Molecular and Cellular Basis of Disease:** Inflammation and the Tissue Microenvironment
  Chairs: Kyle Vacek & Colgan

- **Molecular and Cellular Basis of Disease:** Inflammation and Disease
  Chairs: Angela Santori & Charles Parkos
  Sponsored by ASIP & SIPMet

- **Blood Vessel Club™:** New Players and Concepts in Leukocyte Trafficking During Inflammation
  Chairs: Martha Furie & Detmar Voter
  Sponsored by the ASIP Vascular and Musculoskeletal Pathology Scientific Interest Group

- **Neurobiology of Disease:** From Model Organisms to Humans
  Chairs: Warren Tourtellotte & Jeffrey Golden
  Sponsored by the ASIP Neuropathology Scientific Interest Group

- **Pathogen Interactions with Cellular Junctions**
  Chairs: Andrei Ivanov & Asma Nusrat

- **Personalized Medicine Therapies for Lung Cancer**
  Chairs: Mary Sunday & Dami Zander

- **President’s Symposium:** Investigative Pathology in the New Century
  Chair: James Musser

- **SCVP Symposium:** Stem Cells for Cardiac Repair
  Chairs: James Stone & Monte Willis
  Sponsored by ASIP & SCVP

- **Stowell Symposium:** Trends in Experimental Pathology: The Role of Biospecimens in Precision Medicine
  Chairs: Mark E. Sobel & Gregory Tsonis
  Sponsored by the ASIP Biobanking Scientific Interest Group

- **ASIP OUTSTANDING INVESTIGATOR AWARD LECTURE:** Beta-Catenin In Liver Pathobiology: You Wnt Some, You Lose Some
  Award Recipient: S. Paul Monga

- **ASIP ROUS-WHIPPLE AWARD LECTURE:** The Mast Cell-Î±Paradox: From Homeostasis to Anaphylaxis
  Award Recipient: STEPHEN GALLI

- **Career Development Workshop and Breakfast:** Beyond the Job Offer: Exploring the Art of Effective Negotiation
  Chairs: Christs Kolarick & Edward Medina
  Sponsored by the ASIP Committee for Career Development, Women & Minorities & the FASEB Maximizing Access to Research Careers (MARC) Office

- **Cell Injury Workshop:** Cellular Survival: Tumors and Wounds
  Chairs: Alan Wells & Cecilia Yates
  Sponsored by the ASIP Cell Injury Scientific Interest Group

- **Course:** Pathobiology for Basic Scientists: After the (Inflammatory) Deluge: Resolution of Inflammation, Wound Healing and Fibrosis
  Chairs: Wendy Mars & Rich Mitchell
  Sponsored by the ASIP Education Committee

- **High School Teacher Session:** Scientific Sleuthing of Human Disease for High School Teachers
  Chairs: Kari Nejak-Bowen & Martha Furie
  Sponsored by the ASIP Education Committee

- **Highlights:** Graduate Student Research in Pathology
  Chairs: Monte S. Willis & Kari Nejak-Bowen
  Sponsored by the ASIP Committee for Career Development, Women & Minorities

- **F TROOP:** Roadmap to Fellowship Grant Applications
  Chairs: Linda McManus & Cecelia Yates
  Sponsored by the ASIP Committee for Career Development, Women & Minorities

- **Liver Workshop:** Mechanisms of Liver Injury and Regeneration
  Chairs: Udayan Apte & George Michalopoulos
  Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

- **Lunch and Learn:** Necessary Evil: The Responsibility and Process to Protect Human and Animal Subjects in Research
  Chairs: Monte Willis & Richard Mitchell
  Sponsored by the ASIP Education Committee

- **Scientific Interest Group Networking Sessions and Poster Discussions**
  This session is open to all. All of the ASIP Scientific Interest Group Poster Sessions will be held at the same time in the same location. Select posters from each Scientific Interest Group will be on display for informal discussions.

- **Breast Cancer**
- **Der Schadenklub (Cell Injury)**
- **Club Hepatomania™ (Liver Pathobiology)**
- **Neuropathology**
- **Pathobiology**
- **AMERICAN SOCIETY FOR INVESTIGATIVE PATHOLOGY**
- **ASIP 2014 Annual Meeting at Experimental Biology**
- **November 8, 2013**
- **www.asip.org/2014**
- **American Society for Investigative Pathology**
- **Investigating the Mechanisms of Disease**
- **9650 Rockville Pike, Suite E133**
- **Bethesda, MD 20814-3993 USA**
- **The ASIP Annual Meeting program includes a number of social and networking events not listed above. Please visit us online view the entire program!**
- **www.asip.org/2014**
promote among our members a means for common, in-depth scientific discussions of ongoing work, published work, share protocols and methods, and as an incentive for new collaborations. This will be achieved via several platforms. On the one hand, we have a special site within the ASIP website at http://www.asip.org/SIGs/VMP/index.cfm. On the other hand, we have created a Facebook page through which people can connect and share ideas. Members of the VAMP SIG also communicate via a dedicated listserv to distribute knowledge, advertise various announcements or simply ask questions to a group of experts where you will most likely find answers. If you have not yet signed up for this listserv please contact Constanza Gonzalez at cgonzalez@asip.org or add it to your SIGs when you renew your dues in the Fall.

The VAMP SIG is headed by two internationally renowned leaders in vascular and mucosal pathology: Dr. F. William (Bill) Luscinskas of Brigham and Women’s Hospital in Boston, MA, and Dr. Asma Nusrat of Emory University, Atlanta, GA. Their leadership is supported by Dr. Dan Milner of the Brigham and Women’s Hospital, Boston, MA, Dr. Michael Schnoor of CINVESTAV, Mexico City, and Dr. David Sullivan of Northwestern University, Chicago, IL. Together this team works collaboratively to meet the needs of the VAMP community. We successfully organized networking sessions at the last two EB meetings and will continue and build upon these in future meetings. Moreover, VAMP publishes a regular column in the ASIP Pathways newsletter to inform members about news and developments in VAMP-related areas. If you have any questions about VAMP, VAMP-related topics or if you are interested in helping build a strong VAMP community please contact Mike at mschnoor@cinvestav.mx, Dan at dmilner@partners.org or Dave at d-sullivan@northwestern.edu.

Visit our webpage at http://www.asip.org/SIGs/vmp/
Follow us on Facebook at https://www.facebook.com/asipvamp

Submitted by Dave Sullivan and Mike Schnoor

Interactive Molecular Pathology
March 2, 2014
San Diego, California
Organized by Karen Kaul, MD, PhD and Dani Zander, MD

ASIP Companion Meeting at USCAP 2014
Help ASIP Complete an Archive of Print Copies of *The American Journal of Pathology*

Make a Tax-Deductible Donation to ASIP

The ASIP Office is trying to complete a print archive for our library of volumes of AJP and its predecessor journals [*Journal of the Boston Society of Medical Sciences* (Volumes 1-5, 1896-1901) and *The Journal of Medical Research* (Volumes 6-44, 1901-1924)]. If you are aware that your institution no longer desires to maintain its print archive of old volumes of the Journal and would be willing to donate them to ASIP, please contact Constanza Gonzalez at cgonzalez@asip.org.

The ASIP Library is missing copies of the following volumes/issues of AJP. ASIP would appreciate your donation of these issues from your personal or institutional collections. (In addition, we have no copies of *Journal of the Boston Society of Medical Sciences* and *The Journal of Medical Research.*) In recognition of your donation, we have determined that the face value of each missing issue of the Journal is $50 and you will receive an official letter from ASIP thanking you for your tax-deductible donation. Please contact Constanza Gonzalez at cgonzalez@asip.org to arrange for shipping to the ASIP Office. [ASIP is a 501(c)3 non-profit charitable organization. Your contribution to the ASIP Library is tax-deductible under current IRS regulations. Please contact your accountant for full deductibility.]

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<td>1-2</td>
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<td>July 2003</td>
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<tr>
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<td>May 2008</td>
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</tbody>
</table>
ASIP Accepting Nominations for 2015 Meritorious Awards

Nomination Deadline: November 1, 2013
Submit Nominations Online at www.asip.org/awards/

ASIP Gold-Headed Cane Award
The ASIP Gold-Headed Cane Award is presented in recognition of long-term contributions to pathology, including meritorious research, outstanding teaching, general excellence in the field and leadership in pathology. Nominations for the award require: 1) the candidate's curriculum vitae including bibliography; and 2) three letters of recommendation, including at least two from ASIP members. Awardees will receive a mahogany cane topped with a 14 karat gold head and engraved band at the ASIP Annual Meeting.

ASIP Rous-Whipple Award
The ASIP Rous-Whipple Award is presented to a senior scientist with a distinguished career in research who has advanced the understanding of disease and has continued productivity at the time of this award. The Meritorious Awards Committee will consider the published record of peer-reviewed research and overall impact of the science, mentorship, and participation of the candidate and protégés in ASIP scientific meetings. Awardees will receive an honorarium and a plaque and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology. There is no age eligibility requirement for this award; however, prior experience suggests that most successful awardees will be 50+ years old at the time of nomination. Nominations for the award require: 1) three letters of recommendation, including at least two from ASIP members; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least five years prior to nomination.

ASIP Outstanding Investigator Award
This prestigious award (formerly the ASIP Amgen Outstanding Investigator Award from 2004-2008) recognizes mid-career investigators with demonstrated excellence in research in experimental pathology. Awardees will receive an honorarium and a plaque at the ASIP Annual Meeting and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology, which will be peer reviewed.

The Meritorious Awards Committee will consider the published record of peer-reviewed research and overall impact of the science, mentorship, and participation of the candidate and protégés in ASIP scientific meetings. There is no age eligibility requirement for this award; however, prior experience suggests that most successful awardees are in transition from Associate Professor to Professor (or equivalent) and are under 50 years of age at the time of nomination. Nominations for the award require: 1) three letters of recommendation including two from members of the Society; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least five years prior to nomination.

ASIP Robbins Distinguished Educator Award
Provided through the generous support of Elsevier
The ASIP Robbins Distinguished Educator Award recognizes individuals whose contributions to education in pathology have had a manifest impact at a regional, national, or international level. Examples of meritorious contributions include, but are not limited to:

- Design of innovative or improved educational platforms, curricula, or training programs
- Leadership in strategic planning or administration of educational initiatives
- Development of widely disseminated educational materials, such as textbooks, laboratory manuals, and software
- Development of training/education in investigative pathobiology at the undergraduate, graduate and postgraduate levels
- Documented achievements in mentoring, e.g., junior faculty, students, or postdoctoral research or clinical fellows

Awardees will receive an honorarium and a plaque that will be presented at the ASIP Annual Business Meeting. Nominations for the award require: 1) three letters of recommendation, including at least two from members of the Society; 2) the candidate's curriculum vitae including bibliography, and 3) ASIP membership in good standing for at least five years. Evidence of exemplary contributions to education in pathology must be explicitly delineated in the nomination package.

ASIP Cotran Early Career Investigator Award
Provided through the generous support of Elsevier
The ASIP Cotran Early Career Investigator Award recognizes early career investigators with demonstrated excellence as an investigator who have recently established independence and a research focus leading to an improved understanding of the conceptual basis of disease. The award is named in honor of Dr. Ramzi Cotran. Awardees will receive an honorarium and a plaque at the ASIP Annual Business Meeting and will present a lecture at the ASIP Annual Meeting that will form the basis of a publication in The American Journal of Pathology. IMPORTANT: There is no age eligibility requirement for this award; however, awardees will be several years beyond the initial faculty appointment and will have received extramural grant support as a principal investigator (or equivalent) beyond the level of a career development award and should have a non-tenured faculty appointment (or equivalent) at the time of nomination. Nominations for the award require: 1) letters from two members of the Society describing the basis for recommendation; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least twelve months.

Young Scientist Leadership Award
Provided through the generous support of the ASIP - A.D. Sobel Education Fund
The ASIP Young Scientist Leadership Award (formerly the ASIP Excellence in Science Award) recognizes outstanding and sustained achievements at the earliest stages of a career in biomedical research. Accomplishments should include volunteered service to the ASIP and scientific publications and presentations. At the time of nomination, awardees must have engaged in no more than 5 years of postgraduate research since receiving the PhD, MD, or equivalent degree and should not yet have a faculty appointment. Awardees will receive an honorarium and a plaque that will be presented at the ASIP Annual Business Meeting. Nominations for the award require: 1) three letters of recommendation, including at least two from members of the Society; 2) the candidate's curriculum vitae including bibliography; and 3) ASIP membership in good standing for at least two years (as a trainee or regular member).
American Society for Investigative Pathology

Investigating the Pathogenesis of Disease

MEMBERSHIP APPLICATION

MEMBER BENEFITS

- Scientific Meetings & Courses - With reduced registration fees for ASIP members
- The American Journal of Pathology (AJP) Published monthly in print and online. Members receive online access with an option to add a print subscription at a substantially reduced rate. ASIP Regular members corresponding authors receive a FREE COLOR FIGURE when publishing in AJP, a $550 value!*  
- The Journal of Molecular Diagnostics (JMD) Published six times/year in print and online. Members receive online access with an option to add a print subscription at a substantially reduced rate. ASIP Regular member corresponding authors receive a FREE COLOR FIGURE when publishing in JMD, a $550 value!*  
- FREE subscription to the ASIP AJP Journal CME Program in Pathogenesis  
- Reduced subscription to the JMD Journal CME Program in Molecular Diagnostics  
- Peer Networking  
- Eligibility for Awards and Honors  
- Exclusive FREE Access to the Newly Launched ASIP Digital Web Library-- Featuring presentations and educational materials from previous ASIP Meetings and Events!  
- Career Opportunities & Job Listings at: www.PathologyJobsToday.org  
- The Society newsletter, ASIP Pathways, features government affairs reports on current issues affecting biomedical researchers, as well as news from Committees and members, and other articles of interest  
- FASEB Directory of Members ASIP member names and contact information included in the online FASEB Directory of Members, including over 100,000 members of the 27 FASEB member societies  
- Reduced subscription rates and prices for The FASEB Journal, Annual Reviews, & select Elsevier publications  
- Author must be an ASIP Regular member in good standing at the time of article submission. Please consult the AJP and/or JMD Instructions for Authors for more information. This benefit is not available to Next Century, Trainee, Associate, or Emeritus members.

PERSONAL PROFILE

Candidate Name

Position

Institution

Department

Address

City, State, Zip or Postal Code

Country

Telephone

Fax

Email

Birthdate

Degrees:
- MD
- PhD
- DVM
- Other

Gender (Optional Information):
- Male
- Female

Scientific Interest Groups
Please check all that apply.
- Biobanking
- Biophysical Pathology
- Breast Cancer
- Cell Injury
- Gene Expression
- Immunohistochemistry and Microscopy
- Inflammation/Immunopathology
- Informatics
- Liver Pathobiology
- Molecular Markers of Disease
- Neoplasia/Growth Regulation
- Neuropathology
- Pulmonary Pathobiology
- Vascular and Mucosal Pathobiology
- Veterinary Pathology

2013 ANNUAL DUES

Regular Membership
- $195 (Includes Online AJP & JMD)
Next Century Membership
- $101 (Includes Online AJP & JMD)
Upgrade Journal Subscriptions to Include Print
- American Journal of Pathology (AJP)
  - $50 - Print Upgrade (USA)
  - $125 - Print Upgrade (Int'l)
- Journal for Molecular Diagnostics (JMD)
  - $40 - Print Upgrade (USA & Int'l)

Curriculum Vitae (CV)
- I will mail, fax, or email my CV to the ASIP Office at the address below. I understand that my application for membership will NOT be processed without my CV.

Payment
- Check - Make payable to ASIP
- VISA  MasterCard  American Express

Signature

Referral*

American Society for Investigative Pathology

9650 Rockville Pike
Bethesda, MD 20814-3993 (USA)
Phone: (301) 634-7130, Fax: (301)-634-7990
Email: asip@asip.org

Your membership benefits will commence upon approval of your application.

*Referral is optional and is not required for application processing.
ASIP 2013 Annual Meeting and Centennial Celebration

See photo key on page 21. View the entire photograph collection online at www.asip.org/meetings/EB_past.cfm

Awards Presentation

ASIP Centennial Dinner and Celebration
Awards Presentation

ASIP Centennial Dinner and Celebration
Scientific Interest Group Networking and Poster Session

View the entire ASIP 2013 Annual Meeting & Centennial Celebration photograph collection online at:

www.asip.org/meetings/EB_past.cfm
New This Year! In 2013 the ASIP AJP CME Program in Pathogenesis will be made freely available to ASIP Members! Visit www.asip.org/apply for complete details!

The ASIP provides two annual Journal CME Programs: The American Journal of Pathology (AJP) CME Program in Pathogenesis offers you the opportunity to earn up to 48 CME credits per year while renewing and updating your knowledge in the pathogenesis of disease. The Journal of Molecular Diagnostics (JMD) CME Program in Molecular Diagnostics offers you the opportunity to earn up to 48 CME credits per year while renewing and updating your knowledge in molecular diagnostics. These programs are approved for Self-Assessment Module (SAM) credit with The American Board of Pathology.

**JMD 2013 CME Program in Molecular Diagnostics**

The JMD 2013 CME Program in Molecular Diagnostics is an annual program consisting of a series of at least 48 questions based on selected articles in the 2013 issues (Volume 15) of *The Journal of Molecular Diagnostics* (JMD). Bimonthly exams, consisting of at least 8 questions that are based on selected articles appearing in each issue of the Journal, are available online on the Journal website for registered participants.

To receive CME credit for this journal-based CME activity, participants must achieve a score of at least 75% on each bimonthly exam and complete a Post-Test Evaluation. All exams must be completed by December 31, 2013 to receive CME credit. Participants will earn 8 AMA PRA Category 1 Credit(s)™ for the successful completion of each bimonthly exam.

**CME Accreditation Statement:** This activity (“JMD 2013 CME Program in Molecular Diagnostics”) has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society for Clinical Pathology (ASCP) and the American Society for Investigative Pathology (ASIP). ASCP is accredited by the ACCME to provide continuing medical education for physicians.

The ASCP designates this journal-based CME activity (“JMD 2013 CME Program in Molecular Diagnostics”) for a maximum of 48 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**SAM Credit**

The JMD 2013 CME Program in Molecular Diagnostics is approved by the American Board of Pathology for up to 48 SAM credits. Physicians should only claim credit commensurate with the extent of their participation in the activity. After successfully completing the bimonthly CME exams as described above, participants may separately apply for SAM credit by completing the SAM application available for download on the ASP website at: www.asip.org/CME/documents/ASIP2013JMDSAMApplication.pdf. All SAM applications must be received in the ASP office by December 31, 2013 in order for participants to receive SAM credit.

For more information regarding SAM credits, please contact the ASP Education Office by phone at (301) 634-7440; email journalcme@asip.org, or mail your inquiry to 9650 Rockville Pike, Suite E-133, Bethesda, MD 20814.

**ASIP 2013 AJP CME Program in Pathogenesis**

The ASIP 2013 AJP CME Program in Pathogenesis is an annual program consisting of a series of at least 48 questions based on selected articles in the 2013 issues (Volumes 182 and 183) of *The American Journal of Pathology* (AJP). Monthly exams, consisting of at least 6 questions based on selected articles appearing in each monthly issue of the Journal, are available online on the Journal website for registered participants.

To receive CME credit for this journal-based CME activity, participants must achieve a score of at least 75% on a monthly exam and complete a Post-Test Evaluation. All exams must be completed by December 31, 2013 to receive CME credit. Participants will earn 4 AMA PRA Category 1 Credit(s)™ for the successful completion of each monthly exam.

**CME Accreditation Statement:**

This activity (“ASIP 2013 AJP CME Program in Pathogenesis”) has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society for Clinical Pathology (ASCP) and the American Society for Investigative Pathology (ASIP). ASCP is accredited by the ACCME to provide continuing medical education for physicians.

The ASCP designates this journal-based CME activity (“ASIP 2013 AJP CME Program in Pathogenesis”) for a maximum of 48 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**SAM Credit**

The ASIP 2013 AJP CME Program in Pathogenesis is approved by the American Board of Pathology for up to 48 SAM credits. Physicians should only claim credit commensurate with the extent of their participation in the activity. After successfully completing the monthly CME exams as described above, participants may separately apply for SAM credit by completing the SAM application available for download on the ASP website at: www.asip.org/CME/documents/ASIP2013AJPASAMApplication.pdf. All SAM applications must be received in the ASP office by December 31, 2013 in order for participants to receive SAM credits.

For more information regarding SAM credits, please contact the ASP Education Office by phone at (301) 634-7440; email journalcme@asip.org, or mail your inquiry to 9650 Rockville Pike, Suite E-133, Bethesda, MD 20814.

Register for the 2013 Journal CME Programs Online at www.asip.org/CME

Questions About The ASIP Journal CME Programs? Contact the ASIP Education Office (301-634-7440; email journalcme@asip.org), 9650 Rockville Pike, Bethesda, MD 20814.
Searching for a New Job?

- Post an Anonymous Resume
- View the Most Comprehensive Pathology Jobs Board Available
- Create a Personal Job Alert
- Create and Access Your Job Seeker Account

Recruiting? Want to Post a Job Opening?

- View the Resumes and CVs
- Post a Job
- Variety of Products to Fit Any Budget
- Create and Access Your Employer Account.

www.PathologyJobsToday.org
American Society for Investigative Pathology

New Ways to Experience AJP and JMD!

ASIP is pleased to announce that you can now follow The American Journal of Pathology (AJP) and The Journal of Molecular Diagnostics (JMD) on Facebook and Twitter! Follow ASIP’s flagship journals for important updates, highlights from current articles, and information for submitting authors and subscribers!

AJP
https://www.facebook.com/AJPathology
Twitter: @AJPathology

JMD
https://www.facebook.com/JMDiagn
Twitter: @JMDiagn

For all the latest in Society news, don’t forget to follow ASIP on Facebook too!
www.facebook.com/ASIPPathology
Upcoming Deadlines:

- **Nominations for the ASIP 2014 Elections**
  Deadline: September 15, 2013.

- **Nominations for ASIP 2015 Meritorious Awards**
  Deadline: November 1, 2013

- **ASIP 2014 Annual Meeting**
  Abstract Submission Deadline: November 8, 2013
  Trainee Award Application Deadline: November 15, 2013

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**Career Development Brochures**

**Journey to Success: Career Pathways for Biomedical Scientists in Pathology and Laboratory Medicine**
Tara Sander, PhD
Avrum I. Gotlieb, MD CM FRCPC
Published by the American Society for Investigative Pathology (ASIP)
www.asip.org/Journey

**Pathology - A Career in Medicine**
Published by the Intersociety Council for Pathology Information (ICPI)
www.asip.org/Career

**The Road to Becoming a Biomedical Physician Scientist in Pathology and Laboratory Medicine**
Avrum I. Gotlieb, MDCM FRCPC
Published by the American Society for Investigative Pathology (ASIP)
www.asip.org/CareerPath

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**American Society for Investigative Pathology**

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