

ASIP Pathways

AMERICAN SOCIETY FOR INVESTIGATIVE PATHOLOGY
 News for Scientists Taking First Steps to Biomedical Discovery & Disease Cures

PAGE 4 MILESTONES IN
 INVESTIGATIVE
 PATHOLOGY

PAGE 7 2012 MERITORIOUS
 AWARDS

PAGE 15 ASIP AT
 USCAP 2012

PAGE 16 ASIP 2012 ANNUAL
 MEETING AT EB

President's Message



Martha B. Furie PhD

Contribute to Our Growing Membership

As President, one of my major goals is to expand the membership of ASIP, and I am delighted to report that we are heading in the right direction. Despite these economically tough times, the number of members increased in 2011. As we launch into 2012, I ask for your help in keeping our membership growing. By now, you should have received recruitment emails designed to be forwarded to colleagues who might be interested in joining. If you haven't done so already, I urge you to take a few minutes to send the information on to potential regular or trainee members. We particularly hope that you will reach out to those who are not based in a department of pathology but nonetheless may have interests that make them a good fit for the Society. And if you need another copy of the recruitment messages, contact Stacey Taylor at staylor@asip.org or 301-634-7947. **Lastly, remember that you will receive a \$25 discount in your 2013 dues for each new regular member**

whom you recommend in 2012 (see application on page 14).

My participation in ASIP has been of immense benefit in fostering my scientific and professional growth, and the same is true for my trainees. If you want to become more involved in ASIP or have suggestions for how the Society could better meet your needs, I invite you to contact me directly at Martha.Furie@stonybrook.edu.

Join Us for the 2012 Annual Meeting

The Program Committee, under the leadership of **Asma Nusrat** and **Bill Luscinskas**, has done a terrific job of finalizing an exciting schedule of events for the next Annual Meeting, to be held in San Diego from April 21 to 25, 2012. Additionally, 32 trainees and 5 young investigators of the Italian Pathology Society have been selected by the Committee to receive travel or merit awards to support their attendance. A summary of the program can be found on page 19, and full details are available at www.asip.org/mtgs/eb12/. Of special note is the expanding roster of events sponsored by our Scientific Interest Groups (SIG), which combine scientific sessions with opportunities to network and socialize in an informal setting. The Breast Cancer SIG will be hosting a workshop on personalized medicine and breast cancer, the Veterinary Pathology SIG will be co-sponsoring a symposium with the American

Continued on page 3 - President's Message

Inside:

- President's Message
Page 1
- Welcome New Members!
Page 2
- ASIP 2012 Election
Page 3
- Milestones in Investigative
Pathology
Page 4
- AJP Authors in 2011
Page 5
- Meritorious Awards
Page 7
- Trainee Travel Awardees
Page 10
- Scientific Interest Group News
Page 11
- ISBER 2012 Annual Meeting
Page 11
- 2011 Donations
Page 12
- Career Development Events
Page 13
- ASIP at USCAP 2012
Page 15
- ASIP 2012 Annual Meeting
Pages 16-19
- AJP & JMD Journal CME
Programs
Page 17



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Advertising inquiries should be directed to Laurie Menser, Director of Marketing and Development at lmenser@asip.org

Welcome New Members!

Regular Members

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Kelly Ann Koral, BS
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David Phillip LeBel, MD
Sharon Jessica Manley
David Wayne Melton, BS
Leanne Marie Mortimer
Predrag Tomislav Novakovic, DVM
Bongkyun Park, PhD
Anne Planche, MSc
David Hon Quach, BS
Carl Robert Rankin
Jihee Sohn, MS
Wattamon Srisakuldee, MSc
Erin Kay Steer, PhD
Le Thu Trinh, PhD
Elizabeth Hannah Trusevych
Lu Wang, MD
Aizhen Yang, MD
Jing Yang, PhD
Xuemei Zhu, MD

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Dylan Lee Heart

Associate Member:

Rosanna Mirabile

Emeritus Members

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Katerina Dorovini-Zis, MD
Fred Gorstein, MD
Philip M. Grimley, MD
Michael Kashgarian, MD
Wolfgang Koenig, MD
Joseph C. Parker, MD MS
Vivian W. Pinn, MD

President's Message

Continued from page 1

College of Veterinary Pathologists on evolutionary aspects of animal models, and the Liver Pathology SIG will be incorporating its Club Hepatomania networking event into a full-day "meeting-within-a-meeting" focusing on liver development, regeneration, and disease. New in 2012 are poster-discussion sessions and receptions organized by the Inflammation and Cell Injury SIGs; the Inflammation event will center on contributions of endothelium and epithelium to homeostasis and the inflammatory response. Lastly, the Neuropathology SIG is marking its launch with an informal luncheon. Join your colleagues at these always-popular affairs for some great science and excellent conversation. We look forward to seeing you in sunny San Diego!

Celebrate ASIP's Centennial in 2013



ASIP will observe its Centennial at the 2013 Annual Meeting in Boston with a celebratory reception at the Institute for Contemporary Art, among other events. The Centennial also will be commemorated by a series of mini-

reviews and commentaries in *The American Journal of Pathology*, a project that is being led by **Kevin Roth**, the Special Journal Centennial Editor, and Audra Cox, the Managing Editor. The Centennial celebration promises to be a wonderful opportunity for investigative pathologists, young and not-so-young, to join together to mark the long and fruitful history of our discipline and our Society. Please plan on attending, and I hope that you will consider making a tax-deductible donation to the ASIP Centennial Fund to support the Centennial activities. In addition, contributions to the A. D. Sobel – ASIP Education Fund, the Pathology Leadership Fund, or the ASIP General Education Fund will provide travel awards, merit awards, career development initiatives, and educational events for our trainees and junior investigators. Your donations today will help ASIP's youngest members to participate in our historic 2013 Annual Meeting. More information about these funds is on page 12.

ASIP Mourns the Loss of ASIP Benefactor and Former President Robert E. Stowell



Robert E. Stowell, MD, PhD

Dr. Robert E. Stowell, benefactor to ASIP and President of the American Society for Experimental Pathology (ASEP, 1964-1965) and of the American Association of Pathologists and Bacteriologists (AAPB, 1971), died at the age of 96 on November 20, 2011 of a cerebral vascular accident at his home.

Dr. Stowell was the founding chair of the Department of Pathology at the University of California School of Medicine at Davis and was an internationally renowned pathologist and educator.

Among his many other leadership positions he served as President of the two pathology societies (ASEP and AAPB) that merged in 1976 to form the American Association of Pathologists. The latter was reincorporated as the American Society for Investigative Pathology (ASIP) in 1992. In 1990, he received the Society's Gold-Headed Cane Award.

In 1986, Dr. Stowell donated an endowment to the American Association of Pathologists "to support a series of lectures or symposia at the annual meetings." The endowment, which currently funds the Stowell "Trends in Experimental Pathology" Symposium at the ASIP Annual Meeting, stands to date as the largest benefaction to the Society.

2012 ASIP Election

Voting is now open to ASIP REGULAR members for the 2012 Election. Your vote must be submitted online by February 23, 2012. You will receive a personalized email with your own personal link to the online ballot. To view biosketches of the candidates, please go to www.asip.org/VOTE

Vice President:

(Select ONE)

Kevin A. Roth, MD, PhD
Dani S. Zander, MD

Publications Committee Chair-Elect:

(Select ONE)

William G. Stetler-Stevenson, MD, PhD*

**Dr. Stetler-Stevenson is the incumbent. ASIP Council has endorsed the Nominating Committee recommendation that the incumbent be listed on the ballot for Publications Committee Chair-Elect as the sole candidate; however, you may use the "Other" (write-in) option to vote for another individual.*

Meritorious Awards Committee Members 1 and 2:

(Select TWO)

Charleen T. Chu, MD, PhD
Kojo S. J. Elenitoba-Johnson, MD
Thomas J. Giordano, MD, PhD
Meera Hameed, MD
Stephen C. Peiper, MD

Nominating Committee Member 1:

(Select ONE)

Peter G. Anderson, DVM, PhD
Robert Bowser, PhD
Charles A. Parkos, MD, PhD

Nominating Committee Member 2:

(Select ONE)

Maria J. Merino, MD
Jayne S. Reuben, PhD
Tara Sander, PhD

Please Note: There is a write-in provision ("Other") for all positions on the ballot. To view biosketches of the candidates, please go to:

www.asip.org/VOTE

Deadline to Vote:
February 23, 2012

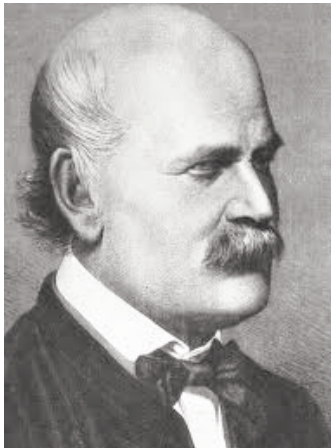
Milestones... in Investigative Pathology

by William K. Funkhouser, MD, PhD

Semmelweis and Puerperal Fever

The Etiology, Concept, and Prophylaxis of Childbed Fever
Hartleben's Verlags-Expedition, Pest, Vienna, and Leipzig, 1861.

(Translated into English in) *Medical Classics* 5:339-773, 1940,
Williams and Wilkins, Baltimore, USA



Dr. Ignaz Semmelweis

While you read the published results of clinical trials, and while you discuss experimental design and data sample comparisons with your biostatistician, you should tip your hat to Dr. Ignaz Semmelweis, who crafted and documented an unintentional 1847 clinical trial that defined the etiology and prevention of puerperal (peripartum) fever of women and their newborns.

As an obstetrician in Vienna in the mid-19th century, Dr. Semmelweis was confronted by annual puerperal fever mortality rates of up to 16%. Current thought leaders speculated that the etiology of puerperal fever was different for different patients,

and that it was some combination of climate, ventilation, diet, overcrowding, patient fear/injured modesty/social status, or national differences in quality of obstetrics practice. If this multivariable explanation failed to convince the uninitiated, thought leaders assigned the etiology to "atmospheric – cosmic – telluric (terrestrial) influences," which would seem to trump all other possibilities.

After graduating from medical school at the University of Vienna in 1844, Dr. Semmelweis trained as an obstetrician at the Vienna General Hospital. By government edict in 1840, the obstetrical service consisted of two Divisions, differing only by who staffed the clinics and wards. The 1st Division was staffed by medical students, and the 2nd Division was staffed by midwife students. The services were otherwise identical with respect to physical plant, temperature control, demographics/social status of the women admitted to the service, bed density, quality of obstetrical care and procedures, hygiene of bed linens, patient diets, etc. This created a clinical experiment that controlled for all variables except staff and staff duties. Semmelweis made a series of critical observations. He noted that puerperal fever was associated with prolonged (>24h) dilation phase of labor of women on the 1st Division service, but not on the 2nd Division service. He noted that death from puerperal fever was more common in both women and their newborns on the 1st Division service. He noted that autopsy findings in affected women and their affected newborns were similar, arguing for a common etiology. He noted that puerperal fever was sporadic rather than generalized in crowded wards, arguing against patient-to-patient contagious transmission. He noted that puerperal fever incidence was independent of season, bed location, ventilation, room temperature, diet, frequency of religious rites, and patient social status. Although he did not document the data for

comparison, he noted that women who delivered in transit to the hospital ("street births") had lower rates of puerperal fever than women attended to by medical students in the 1st Division. He formalized his observations by documenting annual mortality rates for the two Divisions during the period 1841-46, showing that 1st Division (staffed by medical students) had an average mortality rate due to puerperal fever of 9.9%, while the 2nd Division (staffed by midwife students) had an average mortality rate due to puerperal fever of 3.4% (see Table 1). Semmelweis recognized that the only difference between the two Divisions was the staff, and he recognized that the only difference in staff duties was the involvement by medical students in autopsy examination. He noted that (gentlemen) medical students saw no need to wash their hands between patients. His hypothesis was that puerperal fever was due to "conveyance of decomposed animal-organic matter from without," meaning from autopsy patient via medical student to obstetric patient.

Semmelweis should have thanked the Habsburg Empire for their imperial edict of 1840 that stratified staffing of the 1st and 2nd Obstetrics Divisions. From 1833 to 1840, these two Obstetrical Divisions had been staffed by a mixture of medical students and midwife students. This allowed Semmelweis to compare his 1841-46 puerperal fever mortality data to earlier 1833-40 puerperal fever mortality data. He noted that puerperal fever mortality rates 1833-40 (during a time when each Division was staffed by both medical students and midwife students) were comparable (average 6.6% in 1st Division, and average 5.6% in 2nd Division). He concluded from these sample comparisons that puerperal fever was due to "conveyance (by medical students) of decomposed animal-organic matter from without." The only improvement in trial design that we could offer 160 years later would be to document and compare puerperal fever mortality rates in the control group of women who delivered before reaching the hospital. Semmelweis practiced before the isolation of bacteria (van Leeuwenhoek's 'animalcules' from ca. 1673) and the evolution of germ theory, so it was left to Koch in ca. 1870 to isolate the particular streptococcus in women with puerperal fever, and to Pasteur in 1879 to culture the particular streptococcus from the blood of women with puerperal fever.

Semmelweis anticipated Koch's postulates (1890) by 40 years, in the sense that his presumed etiologic agent could be proven if puerperal fever mortality dropped following elimination of the putative etiologic agent. Semmelweis did this experiment starting in 1847 by interrupting the transmission of the "decomposed animal-organic matter" by requiring handwashing in calcium hypochlorite (chlorine bleach) between cases. He collected and documented puerperal fever mortality data for the period 1847-58 (Table 1). He found that puerperal fever mortality rates in the 1st Division fell to an average of 3.6%, comparable to the 3.1% seen in the 2nd Division. He concluded that puerperal fever mortality could be reduced by interrupting the "conveyance of this decomposed animal-based organic matter" from autopsy suite via medical student to obstetrics ward. We don't know why he chose calcium hypochlorite as a proto-antiseptic, although he commented that "it eliminated the smell on the hands." Here's to the archencephalon as a trigger for empirical science.

Continued on page 5 - Milestones in Pathology

Milestones in Pathology

Continued from page 4

Semmelweis published his initial observations in a Viennese medical society journal (*Zeitschrift d. k. k. Gesellschaft d. Arzte in Wien* 4, pt 2: 242, 1847-48), but his conclusions were not widely disseminated, not understood, not confirmed, and/or not embraced, because practice habits did not change. He published 'open letters' to other obstetricians to promote his perspective, but practice habits did not change. He died in an asylum in 1865 (his wife had him committed, so be careful out there), possibly following inoculation at his last autopsy. His erstwhile reputation was rebuilt only after Koch's isolation of streptococcus from a woman with puerperal fever ca. 1870 and Pasteur's culture of streptococcus from the blood of a woman with puerperal fever in 1879.

This history of Semmelweis and puerperal fever contains several practical teaching points. Semmelweis capitalized on an opportunity to gather data in a government-regulated practice environment that controlled for all variables except staff and their duties. He measured and trended mortality data to show by sample comparison that increased risk for puerperal fever was correlated with manual examinations of peripartum women by medical students with contaminated hands. He postulated a single etiology for all peripartum women and their newborns, postulated the mechanism of exposure to this etiologic agent, and interrupted this process of manual inoculation of peripartum women by use of a proto-antiseptic hand wash. Although not accepted at the time, his work presaged the work of Koch, Pasteur, and Lister with regards to microbial infection, prophylaxis, and Koch's postulates for defining etiologic micro-organisms. Semmelweis's persistent defense of his data-driven conclusions, in the face of an unaccepting medical community, is laudable. However, like the rest of us, Semmelweis was not perfect. Although a careful student of data, he didn't like to write, delaying by 14 years the full publication of his critical work. Had he published in the peer-reviewed, widely-read literature of his era, antiseptic approaches would probably have been adopted well before Lister, saving the lives of thousands of peripartum women. Semmelweis's letters to practicing obstetricians, full of ad hominem arguments and thinly veiled accusations of murder, did not strengthen his argument. Finally, his book would have benefited from careful editing – it runs for several hundred pages, is frequently redundant, and could have been collapsed into a five-page paper in a modern journal. Ignore your editor at your peril.

Table 1:	Mortality from Puerperal Fever (Mean Range)	
	Vienna General Hospital	
	1st Division	2nd Division
1833-40	6.56% (3.04, 9.09)	5.58% (2.26, 8.60)
1841-46	9.92% (7.80, 15.75)	3.38% (2.03, 7.59)
1847-58	3.57% (1.27, 9.10)	3.06% (1.33, 6.18)

AJP Authors in 2011



ASIP congratulates the following members who had manuscripts accepted for publication in *The American Journal of Pathology* in 2011

Donald James Alcendor
 Charles E. Alpers
 Gianfranco Alpini
 Sebastiano Andò
 Sylvia Lou Asa
 Michelle P. Bendeck
 Laura E. Benjamin
 Keren Borensztajn
 Jacqueline Bouchard
 Glenn Cantor
 Vincent Castronovo
 Samuel K. Chacko
 Kris K. Chadee
 Wing Chan
 Tailoi Chan-Ling
 Stephen W. Chensue
 Michael Cohen
 Robert B. Colvin
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 Srikanta Dash
 Alan Daugherty
 Monique De Paepe
 Cintia De Paiva
 Katerina Dorovini-Zis
 Charles Eberhart
 Mark L. Entman
 Yujiang Fang
 Marilyn G. Farquhar
 Agnes B. Fogo
 Philippe G Frank
 Kai Fu
 Martha Furie
 Nisha Jain Garg
 Mehrnaz Gharaee-Kermani
 Cecilia M. Giachelli
 Avrum I Gotlieb
 Michael J Greene
 Ali Hafezi-Moghadam
 Li Han
 E. Tessa Hedley-Whyte
 Eric Hoffman
 Cory M. Hogaboam
 Jesse Hostetter
 Jong-Wei Hsu
 Steven Kunkel
 Themis Kyriakides
 Andrew A. Lackner
 Jochen Lennerz
 Robert E. Lewis
 Chen (Maggie) Li
 Min Li
 Michael P. Lisanti
 Chen Liu
 Fu-tong Liu
 Hongyan Liu
 Joseph D. Locker
 Nicholas W. Lukacs
 James Luyendyk
 Anirban Maitra
 James Mandell
 Michelle Manni
 Joan Miller
 Danny Milner
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 Carlos Moreno
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 Jessica Rodriguez
 Michael Roehrl
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 Bernhard Ryffel
 Phillip Scherer
 Gerald S. Shadel
 le-ming Shih
 C. Wayne Smith
 Renza Spelat
 William Stetler-Stevenson
 Duncan J. Stewart
 Donna Beer Stolz
 Robert M. Strieter
 Gary E. Striker
 Bradley Sullivan
 Xiuhua Sarah Sun
 Victor Thannickal
 Kang Ting
 Matt Van De Rijn
 Linda Vong
 Per Westermark
 Thomas M Wheeler
 Ifor Williams
 Monte S. Willis
 Feng Ye
 Ewa Zajac
 Jing Zhang

Education Committee-Sponsored Sessions at the ASIP 2012 Annual Meeting at Experimental Biology

Pathobiology for Basic Scientists: Cell Injury and Inflammation: New Riffs on a Classical Score

Chaired: **R.N. Mitchell** and **M.B. Furie**

Saturday, April 21st

8:30AM – 11:30AM

This session is intended primarily for graduate students, residents, and post-doctoral fellows interested in a well-organized and well-structured update on the current scientific and clinical developments--and controversies--regarding cell injury, cell death, inflammation, and neoplasia. Topics will cycle on a regular basis from the popular Summer Academy courses, and speakers will be drawn from among the best pathobiology educators in the ASIP, providing a solid foundation of the fundamentals, and a stimulating look at the future. Given the focus and nature of the presentations, the sessions will also provide an excellent framework for pathobiology faculty developing new course materials, or industry professionals looking for a primer of the fields.

12th Annual Workshop on Graduate Education in Pathology: Genomics and Personalized Medicine in the Graduate Curriculum

Chaired: **R.N. Mitchell**

Saturday, April 21st

11:30AM – 1:30PM

The goal of the ASIP Graduate Education Workshops is to provide a venue for Pathology Program and Course Directors and interested Faculty to learn about and discuss innovations and best practices, and share experiences relevant to the training of Graduate Students, Residents, and Fellows. The sessions--with a box lunch provided--are relatively informal, beginning with short presentations (20-30 minutes each) and progressing to lively discussions; they typically average 15-25 attendees from programs around the country.

For 2012, in view of the Banbury Initiative and other developments, the Annual Workshop will focus on Genomics and Personalized Medicine in the Graduate Curriculum: what should graduate programs be considering, and what are the potential challenges and pitfalls? The speakers for the workshop are:

- Dr. Dennis Wall (Beth Israel-Deaconess Hospital, Boston): Overview: genomics and personalized medicine
- **Dr. Jeff Saffitz** (Beth Israel-Deaconess Hospital, Boston): Genomic medicine in pathology residency programs
- Dr. Andrew Beck (Stanford): Genomic medicine in pathology graduate programs

The last 30-45 minutes will be an open panel discussion by attendees and featured speakers

Lunch & Learn: Best Practices of Biobanking & Specimen Collection

Chaired: **W. Mars**, **M. Hameed** and **T. Sander**

Monday, April 23rd

12:45PM – 1:45PM

Did you ever wonder why there can be such high variability in the reproducibility of results from different laboratories? Why is one

research group able to lab identify a marker for a particular disease and yet another group never sees it, even when using the same techniques? The answer is generally quite simple: the way the specimens are collected and then stored.

In today's world where high throughput sampling is becoming the norm for identifying disease biomarkers, this question has never been more important. Those attending this session will be introduced to the factors that are considered important for proper specimen collection and storage and what current best practices of the pathology field now dictate.

Scientific Sleuthing of Human Disease for High School Teachers

Chaired: **K. Nejak-Bowen** and **M.B. Furie**

Tuesday, April 24th

8:30AM – 1:30PM

Are you a high school science teacher interested in integrating concepts of human disease into your regular science curricula, or an undergraduate from a local college or university who is interested in learning more about pathology? If so, this workshop is for you! "Scientific Sleuthing of Human Disease for High School Teachers" will include presentations and handouts by three leading research pathologists on specific topics appropriate for classroom use, as well as information on pathology resources on the web. And this year we are adding a special "hands-on" component, where workshop attendees will have the opportunity to examine plasticized lung specimens up close and personal! The session will end with a tour of the latest scientific equipment and advances in technology in the Convention Center exhibit hall.

Teachers are also welcome to bring students who have completed or are enrolled in an advanced biology course. Space in this free workshop is limited, so register early!

Career Development Brochures



Journey to Success: Career Pathways for Biomedical Scientists in Pathology and Laboratory Medicine

Tara Sander, PhD

Avrum I. Gotlieb, MDCM 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) and the

Dept. of Laboratory Medicine and Pathobiology, University of Toronto

www.asip.org/CareerPath

ASIP 2012 Meritorious Awards

2012 Gold-Headed Cane Awarded to Frederick F. Becker, MD



Frederick F. Becker, MD

Dr. Frederick F. Becker, Professor of the Department of Molecular Pathology at the University of Texas System, MD Anderson Cancer Center, will receive this year's ASIP Gold-Headed Cane Award. This is the most definitive honor granted by ASIP to a member, and it is in recognition of long-term contributions to pathology, including meritorious research, outstanding teaching, excellence in the field, and leadership in pathology.

Dr. Becker's research activities include the regulation and manifestations of cell growth and proliferation as related to regeneration and carcinogenesis. According to **Dr. Michael E. Lamm** of Case Western Reserve University, Dr. Becker's research has "led to significant contributions in such areas as liver regeneration, protein synthesis by the liver, chemical carcinogenesis, DNA methylation in relation to oncogenesis, and most recently methods for identifying and isolating neoplastic cells from heterogeneous populations." Dr. Lamm further lauds Dr. Becker's leadership roles over the years, his important advisory positions, and his service on numerous journals during his "distinguished career."

Dr. Stanley R. Hamilton, a colleague of Dr. Becker's at MD Anderson, points out that during his tenure as Chairman of Pathology at that institution, Dr. Becker greatly expanded the Department and was a strong supporter of faculty and trainee research. Dr. Hamilton also states that Dr. Becker "fostered remarkable research growth" and "contributed heavily to the reputation that our institution now has in both basic and translational cancer research." In addition, **Dr. Fred Gorstein** of Jefferson University Hospitals points out that through his work, Dr. Becker has served as a mentor to "generations of students and colleagues," and has contributed greatly to "our fundamental understanding of cell biology and cancer as well as the training and nurturing of two generations of science scholars."

Dr. Gorstein commends Dr. Becker for contributing to the field "a landmark treatise on cancer, *Cancer*, a six-volume work which served as a standard reference source for many years," as well as *The Liver: Normal Function and Disease*, a five-volume work that "provided a comprehensive review of our knowledge at the time." These works, along with over 250 peer-reviewed papers, and numerous book chapters and monographs, point to Dr. Becker's cutting edge research and vision, and have allowed Dr. Becker to participate in many capacities as a scientific leader on a national level. As stated by Dr. Hamilton, "It is unusual to find an individual who is able to do high-quality research over an entire career and also contribute through administrative talents to the careers of literally hundreds of other faculty members."

Dr. Becker received his B.A. from Columbia University, followed by a medical degree from New York University. He completed a fellowship in experimental pathology at the Department of

Pathology at NYU before being assigned to the National Naval Medical Center in Bethesda, MD. Of note, it was at NNMC that Dr. Becker began a long association with Dr. Judah Folkman. After a period of time at NYU as a junior faculty member, Dr. Becker moved on to the University of Texas System in numerous capacities as Department Chair, Scientific Director of the Tumor Institute (MD Anderson), and Professor.

Dr. Becker will receive the Gold-Headed Cane, a mahogany cane with a 14-karat gold head and engraved band, at the ASIP Annual Meeting at Experimental Biology 2012 in San Diego, CA on Monday, April 23, 2012 during the ASIP Awards Presentation and Membership Business Meeting.

ASIP to Honor Patricia D'Amore, PhD with the Rous-Whipple Award



Patricia A. D'Amore, PhD

Dr. Patricia D'Amore, Professor, Department of Ophthalmology (Pathology) at Harvard Medical School and Co-Director of Research at the Schepens Eye Research Institute, is the 2012 recipient of the Rous-Whipple award, which 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.

Dr. D'Amore's research career is focused on understanding the mechanism of vascular growth and development. She is particularly interested in the role of polypeptide growth factors such as VEGF and TGF- β and in investigating the contribution of cell-cell interactions in the cells of the vasculature.

Dr. Michael Klagsbrun, Harvard Medical School/Children's Hospital Boston, comments of Dr. D'Amore that he has "never met an individual so involved in so many areas at the same time: running an institution administratively; running a successful eye-oriented research program; and teaching and serving on myriad committees devoted to student education." Dr. Klagsbrun calls Dr. D'Amore "an individual with amazing energy and creativity," and an "outstanding and focused scientist" who is a "pillar of solid research in retinal vascular disease."

Dr. Harold Dvorak of Beth Israel Deaconess Medical Center, and a former recipient of the Rous-Whipple Award in 2002, commends Dr. D'Amore as "an outstanding scientist," and states that he "personally turn(s) to her work on many occasions for insight into the angiogenic process." He goes on to say that Dr. D'Amore, "making use of both tissue culture and whole animal approaches, (has) made a number of extremely important discoveries." Dr. Dvorak also mentions that in addition to her scientific endeavours, Dr. D'Amore is "widely recognized as an outstanding mentor (and) she is also a talented and highly regarded teacher." Dr. Dvorak appreciates Dr. D'Amore as a member of the scientific community who has "contributed much to an understanding of the pathology

Continued on page 8

Meritorious Awards

Continued from page 7

and molecular biology of angiogenesis.”

Dr. Michael Gimbrone, Harvard Medical School/Brigham and Women’s Hospital, describes Dr. D’Amore’s national and international activities as impressive in scope, in that “she has been, for more than two decades, a primary organizer and/or active participant in numerous interdisciplinary forums at the interface of vascular biology, angiogenesis, and translational research.” Dr. Gimbrone finds that Dr. D’Amore offers an “often paradigm-shifting nature of the working concepts she has introduced into the field of angiogenesis and its clinical applications to ophthalmology.”

Dr. D’Amore is the Co-Director of Research, the Ankeny Scholar of Retinal Molecular Biology, and a Senior Scientist at the Schepens Eye Research Institute in Boston, MA. In addition, she is Chair of the AMD Center of Excellence at Schepens. She is Professor of Ophthalmology (Pathology) at Harvard Medical School and holds a PhD in Cell Biology from Boston University.

Dr. D’Amore will present her award lecture, “The Many Roles of VEGF in the Adult,” on Sunday, April 22, 2012 at the ASIP Annual Meeting at Experimental Biology 2012 in San Diego, CA. She will receive the Rous-Whipple Award on Monday, April 23, 2012 during the ASIP Awards Presentation and Membership Business Meeting.

Kojo S. J. Elenitoba-Johnson, MD Receives the 2012 ASIP Outstanding Investigator Award



Kojo S. J. Elenitoba-Johnson, MD

Dr. Kojo Elenitoba-Johnson, Professor of Pathology at the University of Michigan Medical School, is the recipient of the 2012 Outstanding Investigator Award. This prestigious award recognizes mid-career investigators with demonstrated excellence in research in experimental pathology.

Dr. Elenitoba-Johnson’s research interests include: biologic events underlying lymphoma pathogenesis and progression; identification of protein substrates of ubiquitin ligases involved in cell cycle deregulation and cancer pathogenesis; development of novel mass spectrometry-based proteomics techniques for large-scale interrogation of complex mixtures; novel molecular technologies for molecular diagnosis of hematopoietic malignancies; identification deregulation of deregulated candidates for growth factor receptors in lymphoma therapy; and proteomic profiling of human malignant tumors. Dr. Elenitoba-Johnson is currently the Director of the Division of Translational Research for the Department of Pathology and the Director of the Molecular Pathology Laboratory.

Dr. Jay Hess, Chair of the Department of Pathology, University of Michigan, states that Dr. Elenitoba-Johnson has “quickly emerged as a leader in translational pathology” and has produced a number of publications that “exemplify (his) pioneering work in this arena.” Dr. Hess also points out Dr. Elenitoba-Johnson’s productivity and competitiveness in his field, his key leadership role in the Department of Pathology as director of Translational Pathology, and his ability to secure significant funding. Dr. Hess says, “Dr. Elenitoba-Johnson has a very unusual combination of intellect, drive, creativity, and interpersonal skills. As an African-American

clinician scientist, he also serves as a remarkable role model for underrepresented minorities.”

Dr. Elaine Jaffe of the National Institutes of Health has “the highest regard” for Dr. Elenitoba-Johnson’s diagnostic expertise. She believes he is “an outstanding hematopathologist, and has diagnostic skills far advanced of many individuals with many more years of experience.” Dr. Jaffe “always find his analyses insightful and to the point.” In addition, she states that in his relatively young career, Dr. Elenitoba-Johnson “has a long record of scientific productivity.”

Dr. Nelson Fausto, former Chair of Pathology at University of Washington, commends Dr. Elenitoba-Johnson as “an individual with unusual curiosity and dedication, who was attracted to research.” Dr. Fausto believes that Dr. Elenitoba-Johnson “will continue to build on his accomplishments for many years to come,” and that he is “one of the brightest lights among the new generation of academic pathologists.”

Dr. Elenitoba-Johnson obtained his MD from the College of Medicine, University of Lagos and Lagos University Teaching Hospital in Lagos, Nigeria. He then completed a residency at Brown University School of Medicine and a fellowship at the National Institutes of Health. Prior to joining the University of Michigan Medical School in 2006 where he is now a Professor of Pathology, Dr. Elenitoba-Johnson held academic, administrative, and clinical appointments at University of Utah Health Sciences Center and Brown University School of Medicine.

Dr. Elenitoba-Johnson will present his award lecture, “Lost in Ubiquitination, Found by Mass Spectrometry: Identification of E3 Ligase Substrates Controlling Critical Cellular Events and Cancer,” on Saturday, April 21, 2012 at the ASIP Annual Meeting (Experimental Biology 2012) in San Diego, CA. He will receive the Outstanding Investigator Award on Monday, April 23, 2012 at the ASIP Awards Presentation and Membership Business Meeting.

Peter G. Anderson, D.V.M., PhD to Receive the 2012 ASIP Robbins Distinguished Educator Award



Peter G. Anderson, D.V.M., Ph.D

Dr. Peter G. Anderson, Professor, Department of Pathology, University of Alabama at Birmingham, is the 2012 recipient of the Robbins Distinguished Educator Award, which is named in honor of Dr. Stanley Robbins (1915-2003), formerly of Boston University and Brigham and Women’s Hospital. Dr. Robbins was a pioneer of pathology education and a member of ASIP for over 50 years. This award, partially supported by an unrestricted educational grant from Elsevier, an ASIP Corporate Partner, recognizes individuals whose contributions to education in pathology have had a manifest impact at a regional, national, or international level.

Dr. Anderson has a national and international reputation as a cardiovascular investigator and educator. As outlined by **Dr. Jay McDonald** of the University of Alabama at Birmingham, Dr. Anderson’s research initially focused on mechanisms of cardiac ischemia and ischemia/reperfusion injury; he then extended his vascular biology interests into characterizing vascular responses to stents, which led to becoming a co-investigator on a patent for

Continued on page 9

Meritorious Awards

Continued from page 8

drug-containing stents. Dr. Anderson is considered a medical educator of the highest standard, implementing high-tech, computer-based educational products and an innovative teaching style. Dr. McDonald considers Dr. Anderson to be “a gifted, fully-committed teacher.” Dr. Anderson has also held numerous leadership positions in national and international education organizations including the American Society for Investigative Pathology (ASIP), the International Association of Medical Science Educators (IAMSE), and the National Board of Medical Examiners (NBME), among others.

Dr. Kevin Roth, Chair of the Department of Pathology at UAB, recognizes that Dr. Anderson has “an incredible record of innovative teaching and an unquestionable dedication to advancing pathology education.” He goes on to state that Dr. Anderson “has received virtually all departmental, School of Medicine, and university-wide educational awards” and that he has received numerous national awards as well. Dr. Roth describes Dr. Anderson’s teaching as innovative and transformational, stating that Dr. Anderson’s numerous awards “do not adequately describe the passion that (he) has for pathology education.” Dr. Roth also cites Dr. Anderson’s “Pathology Education Instructional Resource (PEIR)” website as “an internationally available treasure house of educational materials.”

According to **Dr. L. Maximilian Buja** of the University of Texas System, Dr. Anderson is a teacher and mentor who reaches out and establishes partnerships at many levels, and is “an individual who is committed to diversity in the health care field.” Dr. Buja regards Dr. Anderson as “a very productive and excellent cardiovascular investigator and outstanding medical educator.”

Dr. Anderson received his D.V.M. in Veterinary Medicine at Washington State University in 1981, and received his PhD in Experimental Pathology from the University of Alabama at Birmingham in 1986. After a residency and postdoctoral fellowship at UAB, he became a faculty member there, rising to Professor of Pathology in 2002.

Dr. Anderson will receive the Robbins Distinguished Educator Award at the ASIP Annual Meeting (at Experimental Biology 2012) in San Diego, CA on Monday, April 23, 2012 during the ASIP Awards Presentation and Membership Business Meeting.

Andrei I. Ivanov, PhD Awarded the 2012 Cotran Early Career Investigator Award



Andrei I. Ivanov, PhD

The 2012 recipient of the Cotran Early Career Investigator Award is **Andrei I. Ivanov, PhD**, of the University of Rochester. The Cotran Early Career Investigator Award is partially supported by an unrestricted educational grant from Elsevier, an ASIP Corporate Partner. This award recognizes early career investigators with demonstrated excellence as an investigator with recently established or emerging independence and with a research focus leading to an improved understanding of the conceptual basis of

disease. The award is named in honor of Dr. Ramzi S. Cotran (1933-2000), a leader of pathology formerly of Harvard Medical School and Brigham and Women’s Hospital, and a Past President

of ASIP.

Dr. Ivanov is interested in the mucosal barrier and epithelial intercellular junctions, and understanding mechanisms of junctional remodeling during intestinal epithelial damage and restitution. **Dr. Charles Parkos** of Emory University commends Dr. Ivanov’s “outstanding scholarship in the field of epithelial cell biology, as well as his conceptual approach to improving the understanding of mechanisms of epithelial inflammation.” Dr. Parkos also comments that Dr. Ivanov’s research has been “highly productive, resulting in 29 publications since 2005” in highly respected journals. Dr. Parkos emphasizes that not only is Dr. Ivanov’s research highly productive, but his work is highly cited in the scientific literature. In addition to his research, Dr. Ivanov is actively involved in service on a national level, including the ASIP, for which he has participated as a Program Committee member, session chair, and minisymposium speaker. Dr. Parkos describes him as “dedicated, reliable, and conscientious,” who is certain to “have a major impact on the field.”

Dr. Sean Colgan of the University of Colorado Health Sciences Center has come to appreciate Dr. Ivanov’s “intellect, curiosity, and dedication,” and states that he is “among the most innovative and creative scientists in the cell biology field today.” Dr. Colgan is also impressed with Dr. Ivanov’s teaching and mentorship skills, as well as his leadership skills, stating that “one of his great strengths is his ability to connect with young scientists. He has an inviting and genuine personality, and people are drawn to his rigorous approach to science.” Dr. Colgan feels that the Ivanov laboratory “has become a magnet for bright, young scientists.”

Dr. Ivanov received his M.Sci. degree from Belarussian State University in Minsk, Belarus in 1987 and completed his PhD at the Institute of Photobiology, Belarussian Academy of Sciences in Minsk, Belarus in 1996. He then completed postdoctoral training at University of Edinburgh, St. Joseph’s Hospital in Phoenix, AZ, and Emory University. Dr. Ivanov then accepted a faculty position at the University of Rochester where he is Associate Professor in the Department of Medicine.

Dr. Ivanov will present his award lecture on “Molecular Engines that Build and Break Epithelial Barriers” on Monday, April 23, 2012 at the ASIP Annual Meeting (at Experimental Biology 2012) in San Diego, CA. He will receive the Cotran Early Career Investigator Award later in the day during the ASIP Awards Presentation and Membership Business Meeting.

Edward B. Lee, MD, PhD, 2012 Recipient of ASIP Excellence in Science Award



Edward B. Lee, MD, PhD

Dr. Edward Lee is the 2012 recipient of the ASIP Excellence in Science Award, which recognizes outstanding achievement at the earliest stages of a career in biomedical research. Accomplishments include, but are not limited to, publications and presentations as well as volunteered service to the ASIP or other professional societies, institutional committees, and the pathology community. This award is funded through the generous support of the A.D. Sobel-ASIP Education Fund.

Dr. Lee received his MD, PhD from the University of Pennsylvania School of Medicine. The thesis work he completed involved

Meritorious Awards

Continued from page 9

looking at the molecular and cellular mechanisms of amyloid precursor protein production and developing conformation-selective monoclonal antibodies targeting amyloid oligomers as therapeutic agents for Alzheimer's disease.

According to **Dr. John Tomaszewski**, former Chair at the University of Pennsylvania School of Medicine and currently Chair of the Department of Pathology and Anatomic Sciences at Buffalo University School of Medicine, "Dr. Lee has been an outstanding example of a pathologist-scientist throughout his career, and he is a model of scientific success combined with kindhearted service to the academic community." Dr. Lee has "long been interested in aging, aging-related neurodegenerative diseases, and neuroscience." In addition, Dr. Tomaszewski states that Dr. Lee has continued on "a spectacular trajectory of research productivity and clinical prowess." Dr. Tomaszewski also quoted from Dr. Lee's clinical attendings' comments while he was in training at the University of Pennsylvania: Dr. Lee "is outstanding in every way," and "he is a wonderful trainee to work with. He is brilliant, well-organized, and caring. The neuropathology community has attracted a prize person."

Dr. Tomaszewski commends Dr. Lee for demonstrating excellence in the teaching of medical students and fellow residents, serving the academic community, serving as a section leader for several medical student classes, participating on the Membership Committee of the ASIP, and acting as co-chair for ASIP graduate student research sessions. Dr. Lee also volunteers his time for the University of Pennsylvania's Bioethics in Research course, gives lectures to staff in Neurology, Radiology, and Neurosurgery, and he generated a comprehensive *Surgical Pathology* manual to aid residents and fellows. "In short," states Dr. Tomaszewski, Dr. Lee "is one of the stars of the program."

According to **Dr. John Trojanowski** of University of Pennsylvania, Dr. Lee transitioned into his laboratory wanting to pursue "multiple projects related to neurodegenerative diseases" including studying the effects of TDP-43 protein expression on neuronal viability and gene expression in novel transgenic mice (TDP-43 is a protein found in intraneuronal and intragial aggregates that play a key role in the pathogenesis of ALS and FTD), working on two completely different disease proteins, and branching out into endocrinology and metabolism research to study the role of obesity on AD. Dr. Trojanowski comments that Dr. Lee is "indefatigable in his voracious drive for science," and that "the pace of his research is accelerating."

Dr. Nicholas Gonatas of the University of Pennsylvania says that Dr. Lee is "among the top trainees within (a) prestigious group of individuals and" he is "confident that (Dr. Lee) will prove to be a leader in our field. Indeed, his publication record already tops 20 papers from highly respected journals." Dr. Gonatas looks forward to witnessing Dr. Lee's continued success in science, stating that "his excitement for science" is "often infectious, and his intellectual curiosity is only matched by his hard work and diligence."

Dr. Lee will present his award lecture, "Mechanisms of TDP-43 Mediated Neurodegeneration in ALS and FTLD", on Saturday, April 21, 2012 at the ASIP Annual Meeting at Experimental Biology 2012 in San Diego, CA. He will receive the Excellence in Science

Award on Monday, April 23, 2012 during the ASIP Awards Presentation and Membership Business Meeting.

ASIP 2012 Trainee Travel Awards

Experimental Pathologist-in-Training

Ronen Sumagin

Postdoctoral Merit Award

Michael Schnoor

Experimental Pathologist-in-Graduate Training Award

Jacqueline D. Jones

Predocctoral Merit Awards

Prince Awuah

Duke A. Geem

A. D. Sobel - ASIP Education Fund Scholars

Shijun Wang

David P. Sullivan

Porfirio Nava-Dominguez

Emily D. Wickline

Kristine Wadosky

David Wayne Melton

ASIP Travel Awards

Veronica Azcutia

Ludovic Benard

Kari Nejak-Bowen – (*Marcos Rojkind Award Recipient*)

Ana C. Monteiro

Maria L. Tomasi

Vanessa Kisson-Singh

Manirath Khounlotham

Ines Barone

Nayden Gueorguiev Naydenov

Jonathan Proto

Minority Trainee Travel Award

Diana Londono

Rogelio Zamilpa

Angel Byrd

Lantz Mackey

Cindy Thomas-Charles

Evan Delgado

Rodolfo Villareal-Calderon

Olachi Mezu-Ndubuisi

Courtney Johnson

Dylan Heart

Scientific Interest Group News

Cell Injury

We are pleased to announce and invite you to attend the Cell Injury program events at Experimental Biology 2012. On Sunday, April 22, 2012 from 6:30pm – 8:30pm there will be a social event sponsored by the Cell Injury Scientific Interest Group (Der Schadenklub), which will include a poster session.

We are also sponsoring our first mini-symposium "Regulation of the Extracellular Matrix in the Pathophysiology of Disease" during the meeting held Tuesday, April 24, 2012 from 8:30 -11:30am. It is an honor to have **Dr. Renato Iozzo** of Thomas Jefferson University as our featured speaker. His work is one of the most cited in the field of Matrix biology, with over 12,000 citations to date. Please contact **Dr. Cecelia Yates** (cey4@pitt.edu) if you are interested in participating in this group and/or have any questions regarding the program.

Cecelia C. Yates, PhD and **Monte S. Willis, MD, PhD**
Chair and Co-Chair, Cell Injury Special Interest group

Endothelial and Epithelial Contributions to Homeostasis and the Inflammatory response

We are pleased to announce a special interest group encompassing epithelial and endothelial cell biology, mucosal inflammation, and leukocyte biology. Tissue injury in response to environmental and exogenous challenges is associated with an inflammatory response that often occurs at biological interfaces, such as epithelial mucosa in the intestinal, respiratory and urogenital tract, or endothelia in organs and peripheral vasculature. Leukocyte trafficking during the inflammatory response at the interface presents a special problem in that these tissues must maintain (or restore) vital physiological functions inherent to the cell types that line biologic spaces. This special interest group is aimed at bringing together investigators, fellows and students who share a passion for this topic. It will be a great opportunity for common scientific discussions and an incentive for new collaborations. The social networking session will be hosted on Tuesday, 24th of April 2012, at 5:30pm.

If you are interested in becoming an active participant of this SIG, please email Tara Snethen, ASIP Senior Director of Meetings and Society Services at tsnethen@asip.org.

Liver Pathobiology

Calling all ASIP members and trainees who are passionate about liver research! We urge you to become a "Hepatomaniac" and join us at EB 2012 for several exciting liver-related sessions, including the popular Club Hepatomania™ poster discussion and reception, held on Sunday April 22. During the meeting, we will also officially launch the Hepatomaniacs Facebook page, which will allow members to interact and discuss recent advances in liver research through social networking. An email reminder containing the full schedule of liver events at EB 2012 will be sent out in early April to the entire Liver Pathobiology SIG. If you need more information or would like to participate in this group, please contact **Paul Monga** (smonga@pitt.edu) or **Kari Nejak-Bowen** (knnst5@pitt.edu).

Satdarshan (Paul) S. Monga, MD

Kari N. Nejak-Nowen, MBA, PhD

Chair and Co-Chair, Liver Pathobiology Scientific Interest Group



ISBER 2012 Annual Meeting & Exhibits



Keeping Step in an Evolving Global Research Environment: Biobanking for Now and for the Future

May 15-18, 2012

Westin Bayshore Hotel

Vancouver, British Columbia, Canada

DEADLINES:

Early Registration: March 5, 2012

Hotel Reservations: April 13, 2012

We invite you to join us for the International Society for Biological and Environmental Repositories (ISBER) 2012 Annual Meeting, May 15-18, 2012 in Vancouver, BC, Canada.

This meeting will feature plenary sessions, educational workshops, corporate workshops, contributed papers, poster sessions, and working group discussions. Vendors from around the world will demonstrate the latest products, services, and technology in the field of repository and specimen collection.

The ISBER 2012 Annual Meeting & Exhibits will be held at the Westin Bayshore Hotel, conveniently located within close proximity to many historic and modern attractions in Vancouver, BC, Canada. Plan now to attend this premier event in the field of repository and specimen management. Meet with your colleagues from around the world and view the latest technology and equipment in the specimen collection and repository industry!

Session topics will cover the following areas:

- The Evolving Global Research Environment: New Partnerships and Collaborations
- Keeping Step with New Technologies
- Innovative Technologies
- Keeping Step with the Evolving Ethical-Legal Environment
- Ensuring Sustainability for Now and the Future in the Face of Global Crises

International Society for Biological and Environmental Repositories

A Division of ASIP

www.isber.org

Your Donations to ASIP Provide a Lasting Impact!

ASIP is a non-profit education 501(c)(3) organization. Your contributions to funds listed below are tax-deductible under current IRS regulations. Please consult your tax accountant for deductibility.

Education Funds

Support ASIP career and educational Initiatives for young investigators. ASIP's mission is to provide our young experimental pathologists with challenging educational and professional career development initiatives focused on new discoveries in pathogenesis and its ultimate influence on disease prevention and health care. Your gifts go a long way toward providing opportunities for our youngest ASIP members!

Pathology Leadership Fund

The Pathology Leadership Fund supports symposia and workshops at the ASIP annual meetings, trainee travel awards, educational initiatives, and merit awards. The Pathology Leadership Fund was established in 2004 by the leadership of ASIP. ASIP appreciates the generous donations in 2011 from:

Keith Cheng	Emmanuel Okoro
Nelson Fausto	Ingrid Sarelius
Martha Furie	Mark Sobel
Morris Karnovsky	Elizabeth Unger
Linda McManus	Nancy E. Warner
Danny Milner	Xiao-min Yin

A.D. Sobel - ASIP Education Fund

Mark Sobel, ASIP's Executive Officer, established the Abraham David Sobel - ASIP Education Fund to perpetuate his late father's lifelong interest in supporting education and training for young scientists. Funds support the education and mentorship of ASIP trainee members through the A.D. Sobel Education Fund Scholar Awards for trainees to attend the ASIP Annual Meeting and educational events, and the ASIP Excellence in Science Award, which recognizes outstanding achievements at the earliest stages of a career in biomedical research. ASIP appreciates the generous donations in 2011 from:

Anonymous	Marlene Sabbath-Solitare
Keith Cheng	Tara Sander
Ida Chow	Gene P. Siegal
Stanley Cohen	Patrick M Sluss
Salome Creighton	Mark Sobel
Yael Greenberg	Ronald P. Spark
Tyl Hewitt	Steven L. Spitalnik
Elaine Jaffe	William G. Stetler-Stevenson
Karen Mann	Stacey Taylor
Mary McGarvey	Gregory J. Tsongalis
Linda McManus	Elizabeth Unger
Danny Milner	Nancy Warner
Richard Mitchell	Xiao-Min Yin
S. Paul Monga	Dani and Erik Zander
Kevin A. Roth	Arthur Zeiger
Elaine Rubin	

ASIP General Education Fund

Funds support ASIP career and educational initiatives for young ASIP investigators. ASIP appreciates the generous donations in 2011 from:

Anton M. Allen	Jeffrey S Mueller
Arnold R. Brody	Emmanuel Okoro
L. Maximilian Buja	Klaus Schreiber
Keith C. Cheng	Nora C. J. Sun
Emmanuel Farber	Nancy E. Warner
Berhane Ghebrehiwet	Masayuki Yamato
Beppino C. Giovanella	
Danny Milner	

ASIP Centennial Fund



We are excited to announce the establishment of the ASIP Centennial Fund. This new fund will be available through 2013. All contributions will provide financial support for ASIP Centennial

activities, including the ASIP Centennial Celebration to be held in conjunction with the ASIP 2013 Annual Meeting at Experimental Biology in Boston, MA. ASIP Centennial Celebration events will bring together ASIP Members, both new and old, to celebrate the history of our Society as we move forward into the next 100 years of our future. ASIP appreciates the generous donations in 2011 from:

Keith Cheng	Patrick M Sluss
David A Dichek	Mark E. Sobel
Philip M Grimley	Elizabeth Unger
Renato V Iozzo	Nancy E Warner
Linda McManus	Xiao-min Yin
Danny Milner	

FASEB BIO-ART Scientific Art Competition

Submission Deadline: March 2, 2012
Notification of Winners: April 13, 2012



A COMPETITION AND EXHIBITION:
BIOMEDICAL RESEARCH IN THE 21ST CENTURY



www.faseb.org/Scientific-Art-Competition.aspx

Register for these special events!



Career Development Workshop and Breakfast
Getting Your Dream Job: Preparing Your CV/Resume and Managing Your Interview

Sunday, April 22, 2012 - 7:00am - 9:00am
San Diego Marriott Marquis & Marina, San Diego, CA

Chairs: Tara L. Sander, PhD, Children's Hosp. of Wisconsin and Roberto Barrios, MD, Methodist Hosp. System; Sponsored by the ASIP Committee for Career Development, Women & Minorities, Intersociety Council for Pathology Information, and the FASEB Maximizing Access to Research Careers (MARC) Program

- **Welcome Breakfast and Opening Remarks**
Roberto Barrios, MD, Methodist Hosp. System
- **How to Prepare a Curriculum Vitae for Academia**
Tara L. Sander, PhD, Children's Hosp. of Wisconsin
- **How to Write a Resume for Industry**
Elizabeth Galbreath, PhD, DVM, Lilly Corporate Center
- **Managing your Interview, Part I: The Academic Job Interview** (Includes mock interviews with: Linda M. McManus, PhD, Univ. of Texas Health Science Center, Mark E. Sobel, MD, PhD, ASIP, and Cecelia C. Yates, PhD, Univ of Pittsburgh School of Med.)
- **Managing your Interview, Part II: The Industry Job Interview** (Includes mock interviews with: Elizabeth Galbreath, PhD, DVM, Lilly Corporate Center Tara L. Sander, PhD, Children's Hosp. of Wisconsin and Roberto Barrios, MD, Methodist Hosp. System)

12th Annual Career Development Program and Lunch
Fundamental Basics for Success: How to Write Award-Winning Grant Proposals

Sunday, April 22, 2012 - 11:45am - 1:45pm
San Diego Marriott Marquis & Marina, San Diego, CA

Chairs: Titus A. Reaves, PhD, Med. Univ. of South Carolina, and Jayne Reuben, PhD, Baylor College of Dentistry

Sponsored by the ASIP Committee for Career Development, Women & Minorities, the American Association of Anatomists and the FASEB Maximizing Access to Research Careers (MARC) Office

- **Developing Ideas into Fundable Research Grant Proposals**
Monte Willis, MD, PhD, University of North Carolina
- **Funding Mechanisms at NIH and other Agencies**
Kathy Svoboda, PhD, Texas A&M Health Science Center
- **Grants that Get Scored...and Funded**
Charles Parkos, MD, PhD, Emory University Hospital



REGISTRATION FORM

Register online at www.asip.org
 or
 Mail/Fax/Email
 Registration Form by
March 26, 2012 to:

American Society for Investigative Pathology
 9650 Rockville Pike
 Bethesda, MD 20814 (USA)

Phone: 301-634-7130
 Fax: 301-634-7990
 Email: meetings@asip.org

www.asip.org

After March 26, 2012
Please register onsite -
all onsite tickets will be
\$20

I am registering for the following event(s)

(Limited space available. Register in advance to guarantee your space!)

- Career Development Workshop and Breakfast, Getting Your Dream Job: Preparing Your CV/Resume and Managing Your Interview
 Sunday, April 22, 2012 - 7:00-9:00am (FREE Breakfast Included!)
- 12th Annual Career Development Program and Lunch: Fundamental Basics for Success: How to Write Award-Winning Grant Proposals
 Sunday, April 22, 2012 - 11:45 AM-1:45 PM (Lunch Included. FREE for Trainee and student members if registered by March 26, 2012. Please check the appropriate box below)
 - ASIP Trainee & Student Members - FREE
 - AAA Student Members - FREE
 - Faculty/Staff/Other \$20.00 - Deadline to pre-register: March 26, 2012

Name _____
 Department _____
 Institution _____
 Address _____
 City _____ State _____ Zip/Postal Code _____
 Country _____ Phone _____
 Fax _____ Email _____
 (required) _____

Payment must accompany this reservation (For Faculty/Staff/Others) - Make checks payable to ASIP or fax credit card info:

- MasterCard
- VISA
- American Express

Card# _____ Exp. Date: _____

Amount: _____ Name on Card: _____

Signature: _____

American Society for Investigative Pathology

Investigating the Pathogenesis of Disease

MEMBERSHIP APPLICATION

MEMBER BENEFITS

■ **Scientific Meetings & Courses** with reduced registration fees.

■ **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. (AJP) ISI's



Impact Factor: 5.224. ASIP Regular member 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. ISI's Impact



Factor: 4.219. ASIP Regular member corresponding authors receive a FREE COLOR FIGURE when publishing in *JMD*, a \$550 value!

■ **Peer Network**

■ **Awards and Honors**

■ **ASIP Journal CME Programs** with reduced registration fees

■ **ASIP Website: www.asip.org**

■ **PathologyJobsToday.org**, career opportunities & job listings

■ **ASIP Pathways**, the Society newsletter, features government affairs reports on current issues effecting biomedical researchers, as well as news from Committees, ASIP's Division 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 24 FASEB member-societies (www.faseb.org)

■ Reduced subscription rates and prices for **The FASEB Journal**, **Annual Reviews**, and select **Elsevier** publications

PERSONAL PROFILE

Please print or type:

Candidate Name _____

Position _____

Institution _____

Department _____

Address _____

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.

- Analytical and Molecular Morphology
- Biophysical Pathology
- Breast Cancer
- Cell Injury
- Gene Expression
- Inflammation/Immunopathology
- Informatics
- Liver Pathobiology
- Molecular Markers of Disease
- Mucosal Pathobiology
- Neoplasia/Growth Regulation
- Neuropathology
- Pulmonary Pathobiology
- Tissue Banking
- Vascular Pathobiology
- Veterinary Pathology

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American Journal of Pathology (AJP)

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Journal for Molecular Diagnostics (JMD)

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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.

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American Society for Investigative Pathology

9650 Rockville Pike, Bethesda, MD 20814-3993 (USA)

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Your membership benefits will commence upon approval of your application.



Coordinated USCAP 2012 Companion Meetings: ASIP/ASCP/AMP Genomic Pathology in Clinical Diagnostics: Promises and Pitfalls of New Technologies

Sunday, March 18, 2012

1:30 PM – 5:00 PM and 7:30 PM – 10:30 PM

Moderators:

Mark E. Sobel, MD, PhD, American Society for Investigative Pathology, Bethesda, MD

George J. Netto, MD, Johns Hopkins Medical Institutions, Baltimore, MD

Karen L. Kaul, MD, PhD, NorthShore University Health System, Evanston, IL

- 1:30 PM – 1:35 PM **Introduction to the Joint ASIP/AMP/ASCP Companion Meetings on Genomic Pathology**
Mark E. Sobel, MD, PhD, ASIP, Bethesda, MD
- 1:35 PM – 2:20 PM **Keeping Up With the Next Generation: Perspectives on Massively Parallel Sequencing and Other New Technologies in Clinical Diagnostics**
Wayne W. Grody, MD, PhD, UCLA School of Medicine, Los Angeles, CA
- 2:20 PM – 3:00 PM **Surgical Pathologists and the Interpretation of Genomic Information in the New Era of Genomic Medicine**
Karen L. Kaul, MD, NorthShore University Health System, Evanston, IL
- 3:00 PM – 3:30 PM Break
- 3:30 PM – 4:00 PM **Laying the Groundwork for Personalized Genomic Studies**
Madhuri R. Hegde, PhD, Emory University School of Medicine, Atlanta, GA
- 4:00 PM – 4:30 PM **Why Shouldn't Clinical Microbiologists Have Some Wholesome Whole-Genome Sequencing Fun?**
James M. Musser, MD, PhD, The Methodist Hospital Research Institute, Houston, TX
- 4:30 PM – 5:00 PM **Pancreas Pathology in the Era of Whole Genome Sequencing**
Ralph Hruban, MD, Johns Hopkins Medical Institutions, Baltimore MD
- 5:00 PM – 7:30 PM BREAK
- 7:30 PM – 7:35 PM **Introduction to the Joint AMP/ASCP/ASIP Companion Meetings on Genomic Pathology**
George J. Netto, MD, Johns Hopkins Medical Institutions, Baltimore, MD
- 7:35 PM – 8:15 PM **Clinical Information Systems to Support Personalized Medicine at the Bedside**
Mia Levy, MD, PhD, Vanderbilt University School of Medicine, Nashville, TN
- 8:15 PM – 8:35 PM **Training Residents in Molecular Pathology: Draft AMP Curriculum**
Charles E. Hill, MD, PhD, Emory University Hospital
- 8:35 PM – 8:55 PM **Training Residents in Genomics: The Stanford Approach**
Iris Schrijver, MD, Stanford University Medical Center, Stanford, CA
- 8:55 PM – 9:15 PM **Training Residents in Genomics: The Beth Israel Deaconess Approach**
Richard Haspel, MD, PhD, Beth Israel Deaconess Medical Center, Boston, MA
- 9:15 PM – 10:30 PM **Promises and Pitfalls of Genomic Information Technologies: Panel Discussion**
Wayne W. Grody, MD, PhD, UCLA School of Medicine, Los Angeles, CA
Richard Haspel, MD, PhD, Beth Israel Deaconess Medical Center, Boston, MA
E. Blair Holladay, PhD, SCT(ASCP)^{CM}, ASCP, Chicago, IL
Karen L. Kaul, MD, PhD, NorthShore University Health System, Evanston, IL
George J. Netto, MD, Johns Hopkins Medical Institutions, Baltimore, MD
Iris Schrijver, MD, Stanford University Medical Center, Stanford, CA
Mark E. Sobel, MD, PhD, ASIP, Bethesda, MD



American Society for Investigative Pathology Sessions at Experimental Biology 2012 – San Diego, CA

All sessions in San Diego Convention Center, unless otherwise noted

Saturday, April 21		Sunday, April 22		Monday, April 23		Tuesday, April 24		Wednesday, April 25	
AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
<p>Symposium Mesenchymal Stem Cells and Lung Disease M.A. Matthay, D.S. Zander 8:30 AM – Room 17A</p>	<p>Highlights: Graduate Student Research in Pathology D. Bielenberg, K. Kolegraf 1:30 PM – Room 15B</p>	<p>Career Development Workshop and Breakfast: Getting Your Dream Job: Preparing Your CV and Managing Your Interview R. Barrios, T. Sander 7:00AM – San Diego Marriott Marquis & Marina, Laguna</p>	<p>BLOOD VESSEL CLUB™: Vascular Development D.S. Milstone 2:00 PM – Room 16B</p>	<p>ASIP Cotran Early Career Investigator Award Lecture: Molecular Engines that Build and Break Epithelial Barriers A.I. Ivanov 8:30 AM – Room 16A</p>	<p>Lunch & Learn: Best Practices of Biobanking & Specimen Collection W. Mars, M. Hameed, T. Sander 12:45 PM – Room TBD</p>	<p>Molecular and Cellular Basis of Disease Host-Microbe Interactions: The Microbiota and Systemic Disease A.S. Neish, S. Lynch 8:30 AM – Room 16A</p>	<p>Molecular and Cellular Basis of Disease Host Microbe Interactions: New Concepts in Vascular Biology: Endothelial Bacterial Interactions M. Hickey, F.W. Luscinckas 2:00 PM – Room 16A</p>	<p>Symposium Innate Immunity in the Brain C.A. Wiley, J. Koffer 8:30 AM – Room 16B</p>	
<p>Course Pathobiology for Basic Scientists: Cell Injury and Inflammation: New Riffs on a Classical Score R.N. Mitchell, M.B. Furie 8:30 AM – 16A</p>	<p>Symposium iPS Cells: Are We There Yet? G.K. Michalopoulos 2:00 PM – Room 16A</p>	<p>Molecular and Cellular Basis of Disease Liver Pathology: Liver Injury, Fibrosis and Hepatocellular Cancer S.P. Monga 8:30 AM – Room 16A</p>	<p>Molecular and Cellular Basis of Disease Evolutionary Aspects of Animal Models E. Uhl, M. Oglesbee 9:30 AM – Room 16B Co-Sponsored by ASN</p>	<p>Veterinary Pathology Scientific Interest Group Lunch/Networking Event M. McArthur, E. Galbreath, E. Whitely, D. Hutto 12:45 PM – Room TBD</p>	<p>SCVP Symposium The Pathogenesis and Molecular Diagnosis of Cardiomyopathies J. Seidman, L.M. Buja 8:30 AM – Room 16B</p>	<p>Symposium Protein Misfolding and Chaperonopathies J. Lin, M.S. Willis 2:00 PM – Room 17A</p>	<p>Symposium Recent Advances in the Pathobiology of Diabetic Complications I. Jialal, S. Devaraj 8:30 AM – Room 16A</p>		
<p>Workshop Breast Cancer Workshop: Personalized Medicine & Breast Cancer A.G. Riverbank, W.B. Coleman 8:30 AM – 16B</p>	<p>Symposium The Myofibroblast: Biological Features and Therapeutic Perspective C.M. Hogaboam 2:00 PM – Room 16B</p>	<p>Symposium Computational Phenomics: The Potential of High-throughput, Whole-Animal Image Analysis for Elucidating Gene Function and Chemical Toxicity K.C. Cheng, A. Madabhushi 8:30 AM – Room 17A</p>	<p>ISBER Symposium: Better Disease Biomarkers Through Biobanking M. Hogan, G. Hostetter 9:30 AM – Room 17A (ISBER is a Division of ASIP)</p>	<p>ASIP Presidential Symposium: Pathogen-Host Interactions: Provoking and Evading the Immune Response M.B. Furie 2:00 PM – Room 16A</p>	<p>Workshop Autophagy in Cellular Homeostasis and Diseases A.I. Ivanov, X.M. Yin 8:30 AM – Room 17A</p>	<p>ISAMM Symposium: Advances in Ultrasensitive RNA In Situ Hybridization R.R. Tubbs, L.E. DeBault 2:00 PM – Room 17B</p>	<p>Minisymposium Animal Models M.J. McArthur, E. Whitely 8:30 AM – Room 17B</p>		
<p>Minisymposium To Grow or Not to Grow C. Hughes, M.J. McArthur 8:30 AM – 17B</p>	<p>Minisymposium Acute Inflammatory Response M. Cybulsky, P. Alcaide 2:00 PM – 17A</p>	<p>Symposium Regulation of Epithelial Junctions in Development and Diseases A.I. Ivanov, A. Nusrat 8:30 AM – Room 16B</p>	<p>Stowell Symposium Trends in Experimental Pathology: Metabolism & Cancer S. Ando, A. Mantovani 9:30 AM – Room 16A Co-Sponsored by SIP</p>	<p>ASIP Membership Business Meeting and Awards Presentation M.B. Furie 5:00 PM – Room 16A</p>	<p>Special Session Scientific Sleuthing of Human Disease for High School Teachers M.B. Furie, K. Nejak-Bowen 8:30 AM – San Diego Marriott Marquis & Marina, Del Mar</p>	<p>EB Wide Symposium: National Institutes of Health: Programs and Policies Updates from Institutes J. Chatham, S. Barman 2:00 PM – Room 1A</p>	<p>Minisymposium Modeling Cancer: Biological and Therapeutic Implications P. Dasgupta, V. Castronovo 8:30 AM – Room 17A</p>		
<p>ASMB Lecture: Fibronectin matrix assembly in development and disease. J.E. Schwarzbauer 11:30 AM – Room 16B</p>	<p>Minisymposium Mechanisms of Cardiac Pathobiology L.M. Buja, M.S. Willis 8:30 AM – Room 15B</p>	<p>Minisymposium Pulmonary Pathobiology N.W. Lukacs, J. Linden 2:00 PM – Room 15B</p>	<p>Minisymposium Biology of Liver Growth & Regeneration T. Wu, K. Nejak-Bowen 9:30 AM – Room 17B</p>	<p>ASIP Awards Reception 6:00 PM – Mezzanine Foyer</p>	<p>Minisymposium Combating Cancer through Improved Diagnosis and Therapeutics M.E. Sobel, A. Gasperi-Campari 8:30 AM – Room 15B</p>	<p>Minisymposium Novel Strategies for Liver Injury, Fibrosis & Cancer C. Gandhi, P. Stock 2:00 PM – Room 16B</p>	<p>Minisymposium Contributions to Homeostasis and the Inflammatory Response F.W. Luscinckas, A.S. Neish, A.I. Ivanov 5:30 PM – San Diego Marriott Marquis & Marina, Room TBD</p>		
<p>Workshop 12th Annual Workshop on Graduate Education in Pathology: Genomics and Personalized Medicine in the Graduate Curriculum R.N. Mitchell, E.B. Lee 11:30 AM – San Diego Marriott Marquis & Marina, Cardiff</p>	<p>ASIP Excellence in Science Award Lecture: Mechanisms of TDP-43 Mediated Neurodegeneration in ALS and FTL D90 E.B. Lee 3:35 PM – Room 15B</p>	<p>Minisymposium Inflammation and Immunopathology J. Homeister, B. McCormick 8:30 AM – Room 17B</p>	<p>Minisymposium Cell Junctions & Signaling J. Waschke, N. Louis 9:30 AM – Room 15B</p>	<p>ASIP Awards Reception 6:00 PM – Mezzanine Foyer</p>	<p>Minisymposium Neuropathology C.A. Wiley, E. Masliah 8:30 AM – Room 15A</p>	<p>Inflammation/ Immunopathology and Mucosal Pathobiology Scientific Interest Groups Endothelial and Epithelial Contributions to Homeostasis and the Inflammatory Response F.W. Luscinckas, A.S. Neish, A.I. Ivanov 5:30 PM – San Diego Marriott Marquis & Marina, Room TBD</p>	<p>ASIP Awards Reception 6:00 PM – Mezzanine Foyer</p>		

American Society for Investigative Pathology Sessions at Experimental Biology 2012 – San Diego, CA

All sessions in San Diego Convention Center, unless otherwise noted

Saturday, April 21		Sunday, April 22		Monday, April 23		Tuesday, April 24		Wednesday, April 25	
AM	PM	AM	PM	AM	PM	AM	PM	AM	AM
Breast Cancer Scientific Interest Group Networking/Poster Session A.G. Rivenbark, W.B. Coleman 11:45 AM – Room 1B	ASIP Trainee Welcome Reception 4:00PM – Room 15A	12th Annual Career Development Program and Lunch: Fundamental Basics of Success: How to Write Award-Winning Grants T.A. Reeves, J.S. Reuben 11:45 AM – San Diego Marriott Marquis & Marina, Presidio 1-2 Co-Sponsored by AAA	Club Hepatomania™ S.P. Monga 6:30 PM – San Diego Marriott Marquis & Marina, Room TBD	Minisymposium Phagocytes and Infection B. McCormick, T. Demming 9:30 AM – Room 15A		Minisymposium Regulation of the Extracellular Matrix in the Pathophysiology of Disease C. Yates-Binder, J. Homeister 8:30 AM – Room 17B			
ASIP Outstanding Investigator Award Lecture: Lost in Ubiquitination, Found by Mass Spectrometry: Identification of E3 Ligase Substrates Controlling Critical Cellular Events and Cancer K. Elenitoba-Johnson 5:00 PM – Room 16A			Der Schadenklub – Cell Injury Scientific Interest Group Networking Reception/Poster Session C.C. Yates-Binder, M.S. Willis 6:30 PM – San Diego Marriott Marquis & Marina, Marina Ballroom – Salon E			Neuropathology Scientific Interest Group Lunch/Networking Session C.A. Wiley, C. Kolarcik 11:45 AM – Room TBD			

KEY	
	ASIP Special Lectures
	ASIP Business Meeting and Awards Reception
	ASIP Career Development Sessions
	ASIP Scientific Interest Group Sessions
	ASIP Workshop for High School Teachers
	Guest Society Sessions
	Special Course

Read *AJP* & *JMD*... Earn CME Credit in 2012

The American Society for Investigative Pathology offers two journal-based CME programs semi-annually. The semiannual program is ACCME-accredited for a maximum of 24 *AMA PRA Category 1 Credit(s)*[™], for a total maximum of 48 *AMA PRA Category 1 Credit(s)*[™] annually per program.



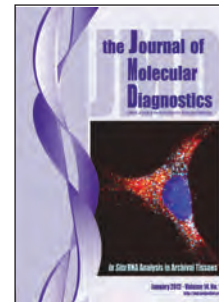
The **ASIP Semiannual 2012 AJP CME Program in Pathogenesis** is a semiannual program consisting of a series of at least 24 questions based on selected articles in the January - June 2012 issues (Volume 180) of *The American Journal of Pathology (AJP)*. Monthly exams, consisting of at least 4 questions that are based on selected articles appearing in each monthly issue of the Journal, will be 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 June 30, 2012 to receive CME credit. Participants will earn 4 *AMA PRA Category 1 Credit(s)*[™] for successful completion of each exam.

SAM Credit.

The **ASIP Semiannual 2012 AJP CME Program in Pathogenesis** is approved by the American Board of Pathology for up to 24 SAM credits.

The ASIP Semiannual 2012 JMD CME Program in Molecular



Diagnostics is a semiannual program consisting of a series of at least 24 questions based on selected articles in the January - May 2012 issues (Volume 14 Numbers 1-3) 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, will be 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 bimonthly exam and complete a Post-Test Evaluation. All exams must be completed by June 30, 2012 to receive CME credit. Participants will earn 8 *AMA PRA Category 1 Credit(s)*[™] for successful completion of each exam.

SAM Credit

The **ASIP 2012 Semiannual JMD CME Program in Molecular Diagnostics** is approved by the American Board of Pathology for up to 24 SAM credits.

Did you know that ASIP Members can register for these programs at a significantly reduced registration rate?

AJP CME Program: \$50/year (\$175 Savings!)
JMD CME Program: \$150/year (\$75 Savings!)

Register Today!
www.asip.org/CME

**Lunch and Learn:
Best Practices of
Biobanking and
Specimen Collection**



**Monday, April 23, 2012
12:45PM - 1:45PM (Lunch Included)
San Diego Marriott Marquis & Marina**

*Chairs: Wendy Mars, PhD, University of Pittsburgh Medical School; Meera Hameed, MD, Memorial Sloan-Kettering Cancer Center; Tara Sander, PhD, Children's Hospital of Wisconsin
Sponsored by the ASIP Education Committee*

Did you ever wonder why there can be such high variability in the reproducibility of results from different laboratories? Why is one research group able to lab identify a marker for a particular disease and yet another group never sees it, even when using the same techniques? The answer is generally quite simple: the way the specimens are collected and then stored.

In today's world where high throughput sampling is becoming the norm for identifying disease biomarkers, this question has never been more important. Those attending this session will be introduced to the factors that are considered important for proper specimen collection and storage and what current best practices of the Pathology field now dictate.

Featured Speaker

*Carolyn Compton, MD, PhD,
President & CEO, Critical Path Institute*



**12th Annual Workshop on
Graduate Education in
Pathology:
Genomics & Personalized
Medicine in the
Graduate Curriculum**

**Saturday, April 21, 2012
11:30 AM - 1:30 PM (Lunch Included)**

*Chair: Richard N. Mitchell, MD, PhD, Brigham & Women's Hospital
Sponsored by the ASIP Education Committee*

The goal of the ASIP Graduate Education Workshop is to provide a venue for Pathology Program Directors and interested Faculty to learn about and discuss innovations and best practices, and share experiences relevant to the training of Graduate Students, Residents, and Fellows. The session is relatively informal, beginning with short presentations and progressing to lively discussions.

For 2012, in view of the Banbury Initiative and other developments, the Annual Workshop will focus on Genomics and Personalized Medicine in the Graduate Curriculum: what should graduate programs be considering, and what are the potential challenges and pitfalls?

- **Introductory Remarks**
Richard N. Mitchell, Brigham & Women's Hospital
- **Overview: Genomics and Personalized Medicine**
Dennis P. Wall, Beth Israel Deaconess Medical Center
- **Genomic Medicine in Pathology Residency Programs**
Jeffery E. Saffitz, Beth Israel Deaconess Medical Center
- **Genomic Medicine in Pathology Graduate Programs**
Andrew H. Beck, Stanford University School of Medicine

REGISTRATION FORM

**Register online at
www.asip.org
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Mail/Fax/Email
Registration Form by
March 26, 2012 to:**

**American Society for
Investigative Pathology
9650 Rockville Pike
Bethesda, MD 20814 (USA)**

**Phone: 301-634-7130
Fax: 301-634-7990
Email: meetings@asip.org**

www.asip.org

**After March 26, 2012
Please register onsite -
all tickets will be \$20**

**I am registering for the following event(s)
(Limited space available. Register in advance to guarantee your space!)**

- 12th Annual Workshop on Graduate Education in Pathology: Genomics & Personalized Medicine in the Graduate Curriculum, Saturday, April 21, 2012 - 11:30AM-1:30PM (FREE Lunch Included!)**
- Lunch and Learn: Best Practices of Biobanking and Specimen Collection
Monday, April 23, 2012 - 12:45 PM-1:45 PM (FREE Lunch for the first 25 registrants)**

Name _____

Department _____

Institution _____

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American Society for Investigative Pathology 2012 Annual Meeting at Experimental Biology



You're Invited!

ASIP 2012 Annual Meeting at Experimental Biology

April 21-25, 2012
San Diego, CA (USA)

GUEST SOCIETIES

- American College of Veterinary Pathologists (ACVP)
- American Society for Matrix Biology (ASMB)
- International Society for Analytical and Molecular Morphology (ISAMM)
- International Society for Biological and Environmental Repositories (ISBER)
- Società Italiana di Patologia/Italian Pathology Society (SIP)
- Society for Cardiovascular Pathology (SCVP)

For more information, contact:

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9650 Rockville Pike
Bethesda, MD 20814-3993
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CME Available



American Society for Investigative Pathology

Investigating the Mechanisms of Disease
9650 Rockville Pike
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Breast Cancer Workshop: Personalized Medicine & Breast Cancer

Chairs: Ashley G. Rivenbark & William B. Coleman

Mesenchymal Stem Cells & Lung Disease

Chairs: Michael A. Matthay & Dani Zander

Pathobiology for Basic Scientists: Cell Injury and Inflammation: New Riffs on a Classical Score

Chairs: Richard Mitchell & Martha Furie;
Sponsored by the ASIP Education Committee

12th Annual Workshop on Graduate Education in Pathology: Genomics and Personalized Medicine in the Graduate Curriculum

Chair: Richard Mitchell; Sponsored by the ASIP Education Committee

ASMB LECTURE: Fibronectin Matrix Assembly in Development & Disease

Speaker: Jean Schwarzbauer; Sponsored by ASIP & ASMB

Highlights: Graduate Student Research in Pathology

Chairs: Diane Bielenberg & Keli Kolegraff;
Sponsored by the ASIP Committee for Career Development, Women & Minorities

iPS CELLS: Are We There Yet!

Chair: George Michalopoulos

The Myofibroblast: Biological Features & Therapeutic Perspective

Chair: Cory M. Hogaboam

ASIP EXCELLENCE IN SCIENCE AWARD LECTURE: Mechanisms of TDP-43

Mediated Neurodegeneration in ALS & FTLD

Award Recipient: Edward B. Lee, Hospital of the University of Pennsylvania; Supported by an unrestricted educational grant from the A.D. Sobel - ASIP Education Fund

ASIP OUTSTANDING INVESTIGATOR AWARD LECTURE: Lost in Ubiquitination,

Found by Mass Spectrometry: Identification of E3 Ligase Substrates

Controlling Critical Cellular Events & Cancer

Award Recipient: Kojo S.J. Elenitoba-Johnson, University of Michigan

Career Development Workshop & Breakfast: Getting Your Dream Job: Preparing Your CV/Resume & Managing Your Interview

Chairs: Tara Sander & Roberto Barrios;
Sponsored by the ASIP Committee for Career Development, Women & Minorities, the FASEB Maximizing Access to Research Careers (MARC) Office & Intersociety Council for Pathology Information

Molecular & Cellular Basis of Disease: Liver Pathology Session 1: Liver Development, Stem Cells & Regeneration

Chair: Satdarshan P. S. Monga; Sponsored by the ASIP Liver Pathology Scientific Interest Group

Computational Phenomics: The Potential of Whole Animal Image Analysis in Elucidating Gene Function & Chemical Toxicity

Chairs: Keith C. Cheng & Anant Madabhushi

Regulation of Epithelial Junctions in Development & Diseases

Chairs: Andrei Ivanov & Asma Nusrat

12th Annual Career Development Program & Lunch: Fundamental Basics for Success: How to Write Award-Winning Grant Proposals

Chairs: Titus A. Reaves & Jayne Reuben; Sponsored by the ASIP Committee for Career Development, Women & Minorities, the American Association of Anatomists & the FASEB MARC Office

Blood Vessel Club™: Vascular Development

Chair: David S. Milstone

Molecular & Cellular Basis of Disease: Liver Pathology Session 2: Liver Injury, Fibrosis & Hepatocellular Cancer

Chair: Satdarshan P. S. Monga; Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

Resolution of Inflammation

Chairs: Sean P. Colgan & Andrew S. Neish

ASIP ROUS-WHIPPLE AWARD LECTURE: The Many Roles of VEGF in the Adult

Award Recipient: Patricia D'Amore, Schepens Eye Research Institute/ Harvard Medical School

ASIP COTRAN AWARD LECTURE: Molecular Engines that Build and Break

Epithelial Barriers

Award Recipient: Andrei Ivanov, University of Rochester School of Medicine
Supported by an unrestricted educational grant from Elsevier, Inc.

ACVP Symposium: Evolutionary Aspects of Animal Models

Chairs: Elizabeth Uhl & Mike Oglesbee; Sponsored by ASIP Veterinary Pathology Scientific Interest Group, ACVP, & the American Society for Nutrition

ISBER Symposium: Better Disease Biomarkers Through Biobanking

Chairs: Michael Hogan & Galen Hostetter; Sponsored by ASIP & ISBER

Stowell Symposium: Trends in Experimental Pathology: Metabolism & Cancer

Chairs: Sebastiano Andò & Alberto Mantovani; Sponsored by ASIP & SIP; Supported by an unrestricted educational grant from the Robert E. Stowell Endowment Fund

Lunch & Learn: Best Practices of Biobanking & Specimen Collection

Chairs: Wendy Mars, Meera Hameed & Tara Sander; Sponsored by the ASIP Education Committee

Presidential Symposium: Pathogen-Host Interactions: Provoking & Evading the Immune Response

Chair: Martha B. Furie

Molecular & Cellular Basis of Disease: Host-Microbe Interactions

Session 1: The Microbiota & Systemic Disease

Chairs: Andrew S. Neish & Susan Lynch

SCVP Symposium: The Pathogenesis & Molecular Diagnosis of Cardiomyopathies

Chairs: Jon Seidman & L. Maximilian Buja
Sponsored by ASIP & SCVP

Mechanisms & Biological Roles of Autophagy

Chairs: Andrei Ivanov & Monte S. Willis

Scientific Sleuthing of Human Disease for High School Teachers

Chairs: Martha B. Furie & Kari Nejak-Bowen; Sponsored by the ASIP Education Committee

Molecular and Cellular Basis of Disease: Host-Microbe Interactions Session 2: New Concepts in Vascular Biology: Endothelial Bacterial Interactions

Chairs: Michael Hickey & Francis W. Lusinskas

Protein Misfolding and Chaperonopathies

Chairs: Monte S. Willis & Jonathan Lin

Innate Immunity in the Brain

Chair: Clayton A. Wiley
Sponsored by the ASIP Neuropathology Scientific Interest Group

Recent Advances in the Pathobiology of Diabetic Complications

Chairs: Sridevi Devaraj & Ishwarlal Jialal

In addition to the Scientific Program the meeting feature a variety of networking opportunities. Visit www.asip.org for complete program information or to apply for membership in ASIP!

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**American Society for
Investigative Pathology**

9650 Rockville Pike, Suite E133
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Important Dates and Deadlines!

ASIP 2012 Elections - Deadline: February 23

ASIP 2012 Annual Meeting

Late-Breaking Abstract Deadline - February 23,

Early Registration Deadline - February 23

Hotel Reservations Deadline - March 12

Don't Forget to Register for These Special Sessions!

(Registration forms Inside this Issue!)

- Career Development Workshop and Breakfast - Getting Your Dream Job: Preparing Your CV/Resume and Managing Your Interview
- 12th Annual Career Development Program and Lunch - Fundamental Basics for Success: How to Write Award-Winning Grant Proposals, Deadline: March 26th
- 12th Annual Workshop on Graduate Education in Pathology: Genomics and Personalized Medicine in the Graduate Curriculum
- Lunch & Learn: Best Practices of Biobanking and Specimen Collection

Registration Now Open for ASIP 2012 Journal CME Programs

FASEB BioArt: Biomedical Image Competition

Application Deadline: March 2

American Society for Investigative Pathology

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FASEB Excellence in Science Award

The FASEB Excellence in Science Award is given in recognition of outstanding achievement by women in biological science. Recipients are women whose career achievements have contributed significantly to further our understanding of a particular discipline by excellence in research.

FASEB is now accepting nominations for the 2013 Award.

The deadline for submissions is March 1, 2012.

www.faseb.org/What-We-Do/Awards/Excellence-in-Science-Award.aspx



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