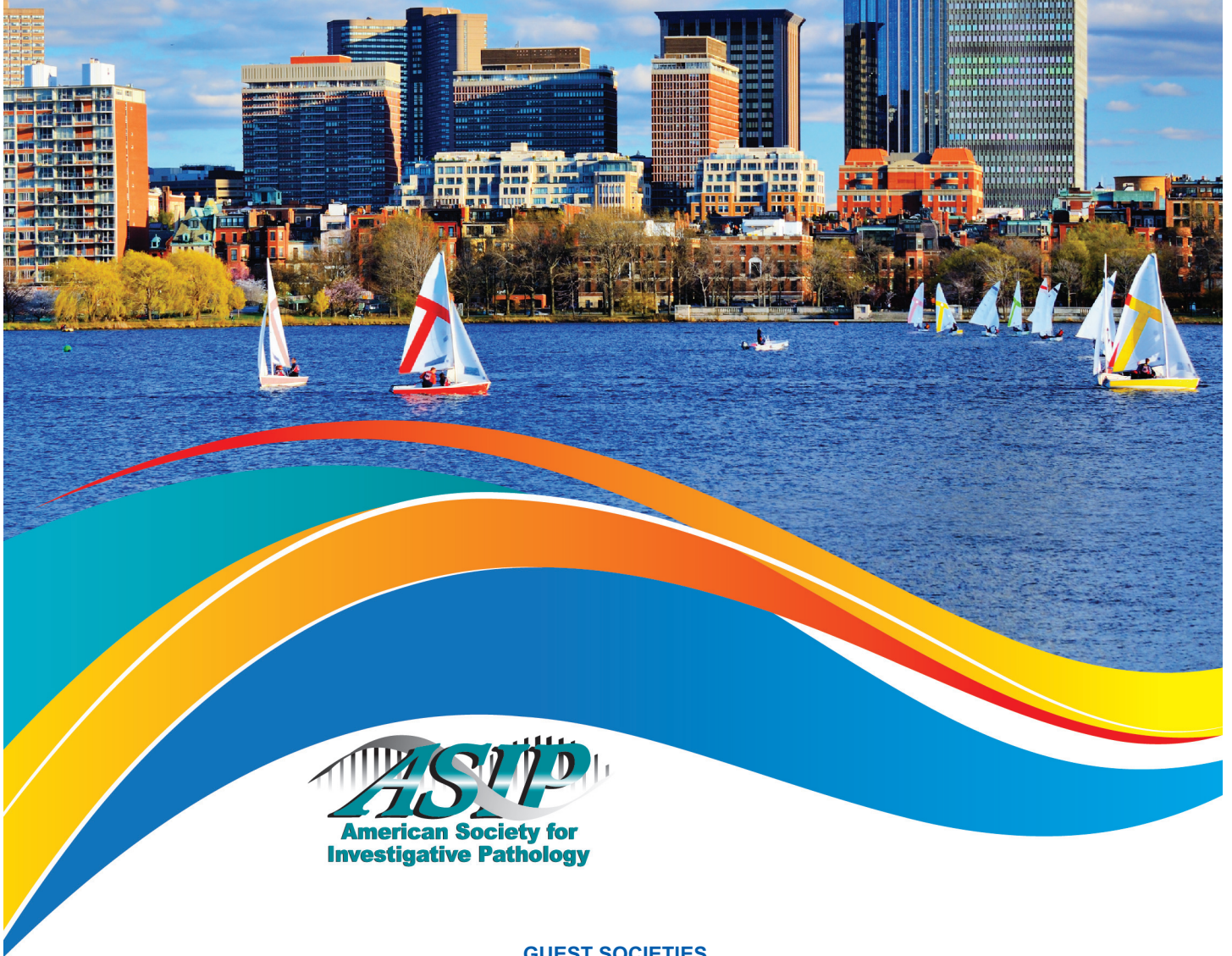


# ASIP 2015 Annual Meeting

at Experimental Biology  
March 28 - April 1, 2015 - Boston, MA (USA)  
[www.asip.org/2015](http://www.asip.org/2015)



#### GUEST SOCIETIES

American College  
of Veterinary  
Pathologists  
(ACVP)



American Society for  
Matrix Biology  
(ASMB)



Association of  
Pathology Chairs  
(APC)

*Affiliate Member of ASIP*



The Histochemical  
Society (HCS)



Società Italiana di  
Patologia e Medicina  
Traslationale (SIPMeT)

*Affiliate Member of ASIP*



Society for  
Cardiovascular  
Pathology (SCVP)



Society for  
Toxicologic  
Pathology



## Join us in Boston!

**The American Society for Investigative Pathology (ASIP) 2015 Annual Meeting will be held March 28 - April 1, 2015, in conjunction with Experimental Biology 2015 at the Boston Convention and Exhibition Center, Boston, MA.** The Program Committee has assembled a vibrant scientific program encompassing diverse topics relevant to basic biology and the pathobiology of human disease.

It has been our pleasure as members of the Program Committee to garner ideas from the ASIP membership, and to incorporate these into the design of the final program. The program has been developed in conjunction with ASIP guest societies, including the **American Society for Matrix Biology (ASMB), American College of Veterinary Pathologists (ACVP), Association of Pathology Chairs (APC), The Histochemical Society (HCS), Society for Cardiovascular Pathology (SCVP), Society for Toxicologic Pathology (STP), and Italian Society of Pathology and Translational Medicine (SIPMeT).**

This year's scientific program will include ASIP member interests in pathobiology of diseases and will highlight exciting new emerging research topics. Presentation formats will encompass symposia and workshops in addition to educational and training sessions. Symposia by leading scientists will cover timely and broad pathology topics that include **Inflammasomes and Disease; Signaling Through the Matrix in Inflammation, Autophagy, and Angiogenesis; Histones, Inflammasomes, NETs and Cell/Organ Injury; Programmed Non-Apoptotic Cell Death in Tissue Injury; Modulators of Endothelial Cell Inflammation and Angiogenesis; and Epithelial Junctions: Polarity and Cancer.** Organ-based themes will be well represented in sessions such as **Genetic and Phenotypic Diversity in Breast Cancer; Ontogeny and Injury in the Lungs, Inflammation and Wound Repair; Hepatic Regenerative Medicine: De-Liver-ing the Promethean Myth; and Protein Misfolding in the Heart: Conformation Cardiomyopathies.**

**The Blood Vessel Club™ Program** this year will focus on Macrophages in the Vessel Wall. The Liver Pathobiology Scientific Interest Group (**Club Hepatomania™**) is proud to sponsor a workshop entitled "Cellular and Molecular Mechanisms of Liver Injury: Implications in Disease Pathogenesis." This year, the **Molecular and Cellular Basis of Disease** will be on two topics (Neoplasia and Neuropathology) and will be represented in four sessions - Cancer Stem Cells (SIPMeT Symposium); Crossroads of Cancer Genetics and Epigenetics; Neuropathology as a Paradigm for Disease Processes: Advances in the Understanding of Neural Development and Disease: Cells and Circuits and the President's Symposium entitled Advances in Investigative Neuropathology.

We will continue to host several sessions in partnership with our guest societies and Scientific Interest Groups (SIGs). With HCS and the Immunohistochemistry and Microscopy SIG, we will host the Stowell Symposium on Unlocking New Tools for Experimental Pathology: Advances in Detection Systems, From Super Resolution Microscopy to Whole Animal Imaging; and the HCS Symposium on Advanced Imaging Techniques and Systems: Super Resolution Microscopy. With the Society for Toxicologic Pathology and the Environmental and Toxicologic Pathology SIG, we will hold a Symposium on Air Pollution and Health Effects: Cognition, Neuropathology, Cardiovascular, and Metabolic Disease - What you Ought to Know by Now! With ACVP and the Veterinary Pathology SIG, we will host a Symposium on Intestinal Microbiome: Lessons from Comparative Medicine.

ASIP's Scientific Interest Groups (SIGs) have cooperatively programmed the Blood Vessel Club™, Liver Workshop and Molecular and Cellular Basis of Disease programs. In addition, The Cell Injury SIG has programmed sessions on Inflammation and Wound Repair, Programmed Non-Apoptotic Cell Death in Tissue Injury, and Histones, Inflammasomes, NETs and Cell/Organ Injury. The Vascular and Mucosal Pathobiology (VAMP) SIG has worked with the Cell Injury SIG and Inflammation/Immunopathology SIG on the Inflammation and Wound Repair session as well as programmed two other sessions on Modulators on Endothelial Cell Inflammation and Angiogenesis and Epithelial Junctions, Polarity and Cancer. The Neoplasia SIG will also sponsor a workshop entitled Lessons From TCGA. Several SIGs will jointly host a Networking Session and Poster Discussion on Tuesday evening.

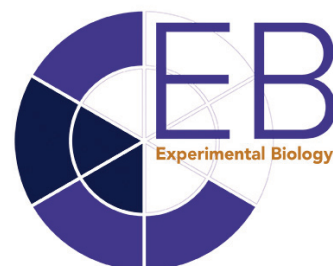
**Continuing Medical Education (CME):** The ASIP scientific program sessions are the only educational components of Experimental Biology 2015 that are eligible for CME credit. ASIP gratefully acknowledges the American Society for Clinical Pathology for cosponsoring our educational sessions so that attendees can receive **AMA PRA Category 1 Credit(s)™**. Please go to [www.asip.org/meetings/2015/cme.cfm](http://www.asip.org/meetings/2015/cme.cfm) for specific information.

A fundamental component of the program will include abstract-driven mini-symposia and poster sessions. Given ASIP's strong commitment to supporting young investigators and trainee members, the program will also include special workshops on career development and presentation skills, and will offer opportunities for trainee members to share their research and receive awards, including the ASIP Experimental Pathologist-in-Training Award (EPIT), Experimental Pathologist-in-Graduate Training Award (EPIGT) and Trainee Travel Awards. As members of the investigative pathology community, your participation in the ASIP Annual Meeting is not only vital to the Society's success but will help to grow the excellent scientific program that we have assembled. Please register, submit abstracts to ASIP topic categories and join us in staying abreast of leading scientific research pertaining to pathophysiology of disease. Furthermore, any faculty (senior or junior) or trainees interested in becoming involved in the many ASIP-related activities should feel free to contact us or Tara Snethen at the ASIP office. We look forward to your participation in ASIP's scientific program at EB 2015.



Satdarshan Paul S. Monga, MD

ASIP Program Committee Chair



## Registration Rates

	On or Before February 2 11:59PM (EST)	After February 2
Sponsoring & Participating Society Members	\$390	\$520
Non-Members	\$575	\$695
Retired Society Members	\$140	\$160
Graduate Student Members*	\$85	\$95
Graduate Student Non-Members*	\$110	\$120
Postdoctoral Trainee Members***	\$325	\$325
Postdoctoral Trainee Non-Members***	\$425	\$425
1-Day Members	\$195	\$195
1-Day Non-Members	\$350	\$350
Undergraduate Student, High School Students & Teachers**	Free Registration - Credentials Required	

**\*Graduate Student Registration (including all Society student members):** You must have a department head or research advisor certify your student eligibility. If registering online, enter the name and email address of your department head. If registering at the meeting, bring your ID card or a letter signed by your department head. **"Student"** will be indicated on your badge. Postdoctoral fellows, hospital residents, interns and laboratory technicians do not qualify as students and must pay the full member or nonmember rate.

**\*\*Undergraduate Students and High School Students:** Registration will be accepted in advance. To receive your badge on-site, bring a student ID card or a letter signed by your department head, research advisor, or teacher.

**\*\*High School Teacher:** You must be a certified High School Teacher currently teaching High School students. You do not qualify for this category if you are currently teaching at a University or a Hospital. Credentials or a letter from the school principal will need to be provided on-site to receive your badge.

**\*\*\*Postdoctoral Trainee:** Trainees have obtained their doctoral degree within the last five years and are currently enrolled in a postdoctoral trainee program. **NEW THIS YEAR! We are offering postdocs the opportunity to register for this event at a substantially reduced rate!**

## Important Deadlines!

- **Abstract Submission Deadline: November 6, 2014**
- **Trainee Travel Award Application Deadline: November 6, 2014**
- **Deadline for Discounted Registration: February 2, 2015**
- **Discounted Housing Deadline: February 23, 2015**

## Register online at [ww.asip.org/2015/](http://ww.asip.org/2015/)

Registration fees include admission to all scientific sessions, the Exhibit Hall, Plenary Sessions, Late-breaking Poster session, Closing Plenary Symposium, and much more! **Abstracts will be published online in *The FASEB Journal*.** Fees do not include admission to the separate ticketed events.

Badges and programs will not be mailed in advance of the meeting. All registrants will need to bring a copy of their email confirmation to the on-site registration area at the Convention Center and pick up their badge, program and briefcase. Registration kiosks will also be available to print your badge upon your arrival to the meeting.

## ASIP Special Events

Attendees interested in the following ASIP organized activities may sign up while registering for the EB 2015 meeting. Details of these and other ASIP events will be posted at [www.asip.org/meetings/2015/meeting\\_program.cfm](http://www.asip.org/meetings/2015/meeting_program.cfm)

Sessions that require special registration will be marked with the symbol:



### NIH Boot Camp: Leadership and Management Training for Advanced Graduate Students and Postdoctoral Fellows

Friday, March 27, 2015

Sponsored by the FASEB Maximizing Access to Research Careers (MARC) Office and the ASIP Committee for Career Development and Diversity

Special Registration for this program is required. Please contact [marcssm@faseb.org](mailto:marcssm@faseb.org)

### F-TROOP: Roadmap to Fellowship Grant Applications

Saturday, March 28, 2015

Sponsored by the FASEB Maximizing Access to Research Careers (MARC) Office and the ASIP Committee for Career Development and Diversity

### XVth Annual Workshop on Graduate Education in Pathology: Developing and Training the Physician Scientist

Saturday, March 28, 2015

Sponsored by the ASIP Education Committee and the Association of Pathology Chairs

### XVth Annual ASIP/AAA Career Development & Mentoring Program and Lunch: Fundamentals of Success: How to Give an Award Winning Presentation

Sunday, March 29, 2015

Sponsored by the American Association of Anatomists and ASIP Committee for Career Development and Diversity

### Lunch and Learn: The Ethics of Personalized Medicine: Quandaries Among the Possibilities

Tuesday, March 31, 2015

Sponsored by the ASIP Education Committee

### Scientific Interest Group Networking Sessions & Poster Discussions

Tuesday, March 31, 2015, (5:30PM – 7:30PM, held concurrently)

- Biobanking
- Breast Cancer
- Club Hepatomania™(Liver Pathobiology)
- Der Schadenklub (Cell Injury)
- Environmental and Toxicologic Pathology
- Immunohistochemistry & Microscopy
- Neuropathology
- Vascular and Mucosal Pathobiology
- Veterinary Pathobiology

# ASIP Award Information

## Information & Application Deadlines

**NEW THIS YEAR! We have changed our award application submission process. Please see page 10 for complete details.**

The following awards require submission of an abstract to the Experimental Biology 2015 Meeting. For details on abstract submission, visit: [www.asip.org/meetings/2015/abstracts.cfm](http://www.asip.org/meetings/2015/abstracts.cfm)

**Abstract Submission Deadline: November 6, 2014**

**Award Application Deadline: November 6, 2014**

### ■ 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 an ASIP topic category at 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 an ASIP topic category at 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.



### ■ 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 submitted to ASIP topic categories. Abstracts will be selected for presentation in either poster sessions or in minisymposia.



### ■ 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 submitted to an ASIP topic category 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.



### ■ Gottlieb Family Fund for Undergraduate Education in Pathobiology Undergraduate Student Trainee Travel Award\*

The newly established Gottlieb Family Fund for Undergraduate Education in Pathobiology will support an undergraduate student with a \$750 travel award to attend the ASIP 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.



### ■ Under-Represented Groups (URG) Trainee Travel Awards

The FASEB Maximizing Access to Research Careers (MARC) Program has awarded ASIP funding to promote the entry of under-represented scientists and URG-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 URG 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 an ASIP topic category are eligible for a \$750 travel award. Apply at: [www.pathologytraining.org](http://www.pathologytraining.org)

\*Must be an ASIP Member in good standing at the time of application in order to be eligible for this award.

# Scientific Program

## SATURDAY, MARCH 28, 2015

### Breast Cancer Workshop: Genetic and Phenotypic Diversity

8:30AM - 11:30AM

Sponsored by the ASIP Breast Cancer Scientific Interest Group  
Chair: William B. Coleman, PhD

■ **Breast Cancer Heterogeneity**, Kornelia Polyak, Dana-Farber Cancer Institute, Harvard Medical School

■ **Contributions of Stromal-Epithelial Interactions to Breast Cancer Diversity**, Charlotte Kuperwasser, Tufts University School of Medicine

■ **Genetic Diversity Among Breast Cancers**, Judy E. Garber, Dana-Farber Cancer Institute, Harvard Medical School

### Lung Symposium: Ontogeny and Injury

8:30AM - 11:30AM

Sponsored by the ASIP Pulmonary Pathobiology Scientific Interest Group

Chairs: Mary E. Sunday, MD, PhD, Charles W. Frevert, DVM, SCD

■ **Mechanisms of Lung Hypoplasia in Congenital Diaphragmatic Hernia**, Patricia K. Donahoe, Massachusetts General Hospital

■ **Role of Lung Pericytes and Resident Fibroblasts in Development and Pathogenesis of Pulmonary Fibrosis**, Jeremy Duffield, Biogen Idec, Inc.

■ **Epithelial Stem Cells in Lung Cancer**, Carla F. Kim, Children's Hospital Boston

■ **Mesenchymal Stem Cells as Therapy for Chronic Lung Disease of Newborns**, Stella Kourembanas, Children's Hospital Boston

■ **Lung Stem Cells in Chronic Lung Diseases**, Darrell N. Kotton, Boston University School of Medicine

### Pathobiology for Basic Scientists: Looking Into the Crystal Ball: Inflammasomes and Disease

8:30AM - 11:30AM

Sponsored by the ASIP Education Committee

Chairs: Richard N. Mitchell, MD, PhD, Patricia A. D'Amore, PhD

SIGN UP!



### F-TROOP: Roadmap to Fellowship Grant Applications

8:30AM - 11:30AM

Sponsored by the FASEB Maximizing Access to Research Careers (MARC) Office and the ASIP Committee for Career Development and Diversity

**Please register for this event when you register for the Experimental Biology Meeting.**

Chairs: Linda M. McManus, PhD, Cecelia C. Yates, PhD

*Note: This session will be held in conjunction with the NIH Bootcamp: Leadership and Management Training for Advanced Graduate Students and Postdoctoral Fellows (see page 3.)*

### Highlights: Graduate Student Research in Pathology

1:30PM - 4:00PM

Sponsored by the ASIP Committee for Career Development and Diversity

Chairs: Titus A. Reaves, PhD, Sarah Headland, BSc



### XVth Annual Workshop on Graduate Education in Pathology: Developing and Training the Physician Scientist

11:45AM - 1:45PM

**Please register for this event when you register for the Experimental Biology Meeting.**

Sponsored by the ASIP Education Committee and the Association of Pathology Chairs

Chairs: Michael A. LaFlamme, MD, PhD, Jonathan S. Reichner, PhD

Speakers: Jeffrey Golden, Brigham and Women's Hospital  
Daniel G. Remick, Boston University School of Medicine

SIGN UP!

### HCS/Stowell Symposium: Unlocking New Tools for Experimental Pathology: Advances in Detection Systems, From Super Resolution Microscopy to Whole Animal Imaging

2:00PM - 5:00PM

Sponsored by The Histochemical Society and the ASIP Immunohistochemistry and Microscopy Scientific Interest Group  
Supported by an unrestricted educational grant from The Robert E. Stowell Endowment Fund

Chairs: John J. Shacka, PhD, Stephen M. Hewitt, MD, PhD,

■ **A Multimodal Imaging Agent for Correlative Investigations: From Whole Body in vivo Imaging to ex vivo Tissue Microscopy**, Jinzi Zheng, STTARR Imaging

### Inflammation and Wound Repair

2:00PM - 5:00PM

Sponsored by the ASIP Cell Injury, Vascular and Mucosal Pathobiology (VAMP), and Inflammation/Immunopathology Scientific Interest Groups

Chairs: Asma Nusrat, MD, Andrei I. Ivanov, PhD

■ **The Function of the Inflammatory System During Breast Development and Regeneration**, Zena Werb, University of California, San Francisco

■ **Wound Healing Signals in the Nematode *C. Elegans***, Andrew D. Chisholm, University of California, San Diego

■ **Mechanisms of Repair in the Injured Epithelium**, Gregory P. Downey, National Jewish Health, Colorado

■ **Adult Mesenchymal Stem Cells: The Control of Innate Regeneration/Repair Capacity**, Arnold I. Caplan, Case Western Reserve University

MERITORIOUS  
AWARD LECTURE

### Young Scientist Leadership Award: David Sullivan *IQGAP1 is a Critical Regulator of Transendothelial Migration*

3:35PM - 3:50PM

Supported by an unrestricted educational grant from the A.D. Sobel – ASIP Education Fund

*Presented during the Highlights: Graduate Student Research in Pathology Session*

**ASIP Trainee Welcome Reception**

4:00PM – 5:00PM

Sponsored by the ASIP Committee for Career Development and Diversity

MERITORIOUS  
AWARD LECTURE**Outstanding Investigator Award Lecture:****Anindya Dutta****High Throughput Sequencing for Discovering New Biology**

5:00PM - 6:00PM

**SUNDAY, MARCH 29, 2015****ASMB Lecture: ADAMTS Proteases, Novel Regulators of the Cellular Microenvironment Implicated in Diverse Pathologies**

8:30AM - 11:30AM

Sponsored by ASIP and the American Society for Matrix Biology  
Suneel S. Apte, Cleveland Clinic Foundation**HCS Symposium: Advanced Imaging Techniques and Systems: Super Resolution Microscopy**

8:30AM - 10:30AM

Sponsored by The Histochemical Society and the ASIP Immunohistochemistry and Microscopy Scientific Interest Group  
Chairs: Paul Goodwin, Douglas Rosene, PhD■ **From Localization Microscopy to Structured Illumination Microscopy**, Ann McEvoy, GE Healthcare/API■ **Amorphous No More: Subdiffraction View of the Pericentriolar Material Architecture**, Laurence Pelletier, Mount Sinai Hospital**Journal of Histochemistry & Cytochemistry Lecture**

10:30AM - 11:30AM

Sponsored by The Histochemical Society and the ASIP Immunohistochemistry and Microscopy Scientific Interest Group  
Chair: John R. Couchman, PhD■ **TBD**, Gauden Danuser, UT Southwestern Medical Center

**Blood Vessel Club™**  
**Macrophages in the Vessel Wall**  
 8:30AM - 11:30AM

Sponsored by the ASIP Vascular and Mucosal Pathobiology (VAMP) Scientific Interest Group  
 Chairs: Jonathon W. Homeister, MD, PhD,  
 James R. Stone, MD, PhD

- **Systems Crosstalk in Atherosclerosis**, Matthias P. Nahrendorf, Harvard Medical School
- **Adventitial Macrophages and Vascular Activation**, James R. Stone, Massachusetts General Hospital, Harvard Medical School
- **Mechanisms of Macrophage Retention in Atherosclerosis**, Kathryn J. Moore, New York University Medical Center
- **Macrophage Origin and Turnover in Atherosclerosis**, Filip K. Swirski, Massachusetts General Hospital, Harvard Medical School
- **CCR7-Dependent Reverse Transmigration of Myeloid Cells from the Intima Protects the Artery from Pathogens**, Myron I. Cybulsky, Toronto General Research Institute

BLOOD VESSEL CLUB™

**Liver Pathobiology Workshop: Cellular and Molecular Mechanisms of Liver Injury: Implications in Disease Pathogenesis**

8:30AM - 11:30AM

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

Chairs: Kari Nejak-Bowen, MBA, PhD, Bryan L. Cople, PhD

■ **Secretin Regulation of Biliary Damage**, Gianfranco Alpini, Texas A&M Health Science Center■ **Beta-catenin in Cholestatic Liver Disease**,

Kari Nejak-Bowen, University of Pittsburgh

■ **Regulation of Hepatic Inflammation During Cholestasis**, Bryan L. Cople, Michigan State University■ **Stellate Cell-Kupffer Cell Communication in Hepatic Inflammation and Injury**, Chandrashekhar R. Gandhi,

University of Cincinnati

■ **Understanding the Therapeutic Implication of Novel Nutrient Sensors in Non-Alcoholic Fatty Liver Disease**,

Mengwei Zang, Boston University School of Medicine

■ **Coagulation Protease Activity and NALFD/NASH Pathogenesis**, James P. Luyendyk, Michigan State University

**XVth Annual ASIP/AAA Career Development & Mentoring Program and Lunch: Fundamentals of Success: How to Give an Award Winning Presentation**  
 11:45AM - 1:45PM  
**Please register for this event when you register for the Experimental Biology Meeting.**  
 Sponsored by the ASIP Committee for Career Development and Diversity  
 Supported by an unrestricted educational grant from the FASEB Maximizing Access to Research Careers (MARC) Office  
 Chairs: Jayne Reuben, PhD, Edward A. Medina, MD, PhD

**Environmental and Toxicologic Pathology Symposium: Air Pollution and Health Effects: Cognition, Neuropathology, Cardiovascular, and Metabolic Disease - What You Ought to Know by Now!**

2:00PM - 5:00PM

Sponsored by the ASIP Environmental and Toxicologic Pathology Scientific Interest Group and the Society of Toxicologic Pathology  
Chairs: Lilian O. Calderon-Garciduenas, MD, PhD, Elizabeth Galbreath, PhD, DVM■ **Inhaled Ozone and Particulate Matter and the Metabolic System Response: Diabetes and Obesity**, Jack R. Harkema, Michigan State University■ **Microglia as Central Nervous System Sentinels & the Detection of Air Pollution**, Michelle L. Block, Virginia Commonwealth University■ **Developmental Cognitive Neuroscience, Air Pollution and Social Inequality**, Amedeo D'Angiulli, Carleton University■ **Overview of Air Pollution and Detrimental Effects in Children**, Lilian O. Calderon-Garciduenas, University of Montana

### Signaling Through the Matrix in Inflammation, Autophagy, and Angiogenesis

2:00PM - 5:00PM

Sponsored by the ASIP Inflammation/Immunopathology Scientific Interest Group

Chairs: Renato V. Iozzo, MD, PhD, Liliana Schaefer, MD

■ **HAS2 as a Master Regulator of Severe Pulmonary Fibrosis**, Paul W. Noble, Cedars-Sinai Medical Center

■ **Reciprocal Interactions between Matrix and Angiogenic Factors in Health and Disease**, Bjorn R. Olsen, Harvard Medical School

■ **Ubiquitin and Autophagy Networks in Human Diseases**, Ivan Dikic, Goethe University

■ **The Inflammasome Components and Role in Innate Immunity**, Vishva M. Dixit, Genentech

MERITORIOUS  
AWARD LECTURE

Rous-Whipple Award Lecture: Charles Parkos  
*Leukocyte-Epithelial Interactions: A Double-Edged Sword*

5:00PM - 6:00PM

### The Histochemical Society (HCS) Member Awards Presentation, Business Meeting and Reception

6:00PM – 8:00PM

## MONDAY, MARCH 30, 2015

### ACVP Symposium: Intestinal Microbiome: Lessons From Comparative Medicine

8:30AM - 11:30AM

Sponsored by the American College of Veterinary Pathologists and the ASIP Veterinary Pathology Scientific Interest Group

Chairs: Melissa M. Schutten, DVM, PhD, Ruth Sullivan, VMD, PhD

■ **Predicting and Manipulating Cardiac Drug Inactivation by the Human Gut Microbes**, Emily Balskus, Harvard University

■ **Microbial Endocrinology and the Interactions Between the Microbiome and the Neuroendocrine System**, Mark Lyte, Texas Tech University Health Sciences Center

■ **Microbiome and Metabolome Changes in Dogs with IBD**, Jan S. Suchodolski, Texas A&M University

■ **Comparative Microbiomes in Nature: People, Primates, and Domestic Animals**, Tony L. Goldberg, University of Wisconsin-Madison

### Programmed Non-Apoptotic Cell Death in Tissue Injury

8:30AM - 11:30AM

Sponsored by the ASIP Cell Injury Scientific Interest Group

Chairs: Wen-Xing Ding, PhD, Wei-Xing Zong, PhD

■ **Blocking Caspase Activation Switched TNF- $\alpha$ -induced Apoptosis to Programmed Necrosis in Hepatocytes**, Wen-Xing Ding, University of Kansas Medical Center

■ **Caspase 1 Activation and Inflammasome in Hypoxia and Hemorrhagic Shock**, Melanie J. Scott, University of Pittsburgh

■ **Programmed Necrosis in Cancer Therapy**, Wei-Xing Zong, Stony Brook University

■ **Small Molecule Inhibitors to Suppress Rip1-Mediated Necroptosis**, Alexei Degterev, Tufts University

■ **Role of Rip3 in Acetaminophen-Induced Necrosis and Liver Injury**, Hartmut Jaeschke, University of Kansas Medical Center

■ **Programmed Necrosis in Virus-Induced Inflammation**, Francis Ka Ming Chan, University of Massachusetts Medical School

### Workshop: Lessons From TCGA

8:30AM - 11:30AM

Sponsored by the ASIP Neoplasia/Growth Regulation Scientific Interest Group

Chairs: Thomas J. Giordano, MD, PhD, Matthew Meyerson, MD, PhD

■ **Genome Alterations and Targeted Therapies in Lung Cancer**, Matthew L. Meyerson, Dana-Farber Cancer Institute

■ **Lessons From TCGA: Gliomas**, Daniel J. Brat, Emory University School of Medicine

■ **Lessons from TCGA**, Gad Getz, Broad Institute of MIT and Harvard

■ **Lessons From TCGA: Endocrine Tumors**, Thomas J. Giordano, University of Michigan

MOLECULAR AND CELLULAR  
BASIS OF DISEASE

### Molecular and Cellular Basis of Disease: Neuropathology as a Paradigm for Disease Processes: Advances in the Understanding of Neural Development and Disease: Cells and Circuits

8:30AM - 11:30AM

Sponsored by the ASIP Neuropathology Scientific Interest Group

Chairs: Jose J. Otero, MD, PhD, Anne F. Buckley, MD, PhD

■ **Progranulin and Microglia Activation: The Interface of Neurodegeneration and Neurodevelopmental Diseases**, Eric J. Huang, University of California, San Francisco

■ **Daam2-PIP5K is a Novel Regulatory Pathway for Wnt Signaling and Therapeutic Target for Remyelination in the CNS**, Benjamin Deneen, Baylor College of Medicine

■ **Reprogramming Neuronal Diversity in the Central Nervous System**, Paola Arlotta, Harvard University

■ **Developmental Transcription Factors in Gliomas**, Keith L. Ligon, Dana-Farber Cancer Institute

MOLECULAR AND CELLULAR  
BASIS OF DISEASE

### Molecular and Cellular Basis of Disease: Neuropathology as a Paradigm for Disease Processes: President's Symposium: Advances in Investigative Neuropathology

2:00PM - 5:00PM

Sponsored by the ASIP Neuropathology Scientific Interest Group

Chair: Kevin A. Roth, MD, PhD

■ **To Eat or Not to Eat? Fine-Tuning Mitochondrial Homeostasis in Parkinson's Disease**, Charleen T. Chu MD, University of Pittsburgh Medical School

■ **Precision Medicine for Diseases that Cause Dementia**, Thomas J. Montine, Harborview Medical Center, University of Washington

■ **Good Things in a Small Package: Cancer Genomics and Therapeutics in Mouse Models of Nervous System Neoplasia**, Steven L. Carroll, Medical University of South Carolina

■ **WHOs Next: An Update on the Incorporation of Molecular Diagnostics into Brain Tumor Classification**, David N. Louis, Massachusetts General Hospital

## ASIP Membership Business Meeting and Awards Presentation

5:00PM – 6:00PM

Chair: Kevin A. Roth, MD, PhD

## ASIP Awards Reception

6:00PM – 8:00PM

Open to all EB2015 attendees

Beverages and light refreshments will be served.

## TUESDAY, MARCH 31, 2015

### Cell Injury Workshop: Scars and Souvenirs: Inflammation and Fibrosis in the Heart, Lung, and Skin

8:30AM - 11:30AM

Sponsored by the ASIP Cell Injury Scientific Interest Group

Chairs: Cecelia C. Yates, PhD, Monte S. Willis, MD, PhD,

■ **Scars on My Heart: Understanding the Molecular Pathogenesis of Cardiac Fibrosis as a Therapeutic Target**, Monte S. Willis, University of North Carolina School of Medicine

■ **Skin and Scars: Discovery, Disappointment, and the Pursuit of Perfect Epithelial Repair**, Luisa A. DiPietro, University of Illinois, College of Dentistry

■ **Student Abstracts**

### MOLECULAR AND CELLULAR BASIS OF DISEASE

#### Molecular and Cellular Basis of Disease: Neoplasia Mornings: Crossroads of Cancer Genetics and Epigenetics

8:30AM - 11:30AM

Sponsored by the ASIP Neoplasia/Growth Regulation Scientific Interest Group

Chairs: Jonathan Pollack, MD, PhD, William M. Puszyk, PhD

■ **Altered SWI/SNF Chromatin Remodeling Complexes in Cancer**, Jonathan Pollack, Stanford University

■ **Disrupted Cytosine Methylation in Leukemogenesis: Linking Metabolism to Epigenetics**, Maria E. Figueroa, University of Michigan

■ **Targeting Histone Methylation in Cancer**, Scott A. Armstrong, Memorial Sloan Kettering Cancer Center

■ **Histone Mutations as Cancer Drivers**, Peter W. Lewis, University of Wisconsin

### Liver Pathobiology Symposium: Hepatic Regenerative Medicine: De-Liver-ing the Promethean Promise!

8:30AM - 11:30AM

Sponsored by the ASIP Liver Pathobiology and Regenerative Medicine Scientific Interest Groups

Chair: Satdarshan Paul S. Monga, MD

■ **iPS Cells to Hepatocytes: Novel Innovations in Stem Cell Differentiation and Tissue Engineering**, Sangeeta N. Bhatia, MIT

■ **Hepatic Tissue Engineering: From Bench to Bedside**, Scott L. Nyberg, Mayo Clinic

■ **Liver Regeneration in Zebrafish: A Model Delivering Novel Discoveries**, Wolfram Goessling, Harvard Stem Cell Institute

■ **Systems Biology Approach to Liver Regeneration**, Ursula Klingmuller, German Cancer Research Center

■ **Liver Regeneration: Adult Liver Cells as Facultative Progenitors**, George K. Michalopoulos, University of Pittsburgh

■ **Role of Non-Parenchymal Cells in Hepatic Homeostasis and Regeneration: Wnt/ $\beta$ -catenin Perspective**, Satdarshan Paul S. Monga, University of Pittsburgh

### Modulators of Endothelial Cell Inflammation and Angiogenesis

8:30AM - 11:30AM

Sponsored by the ASIP Vascular and Mucosal Pathobiology (VAMP) Scientific Interest Group

Chairs: Tanya N. Mayadas, PhD, Pilar Alcaide, PhD,

■ **The Endothelium as a Target for Controlling Inflammation and Immunity by RNAi**, Jordan S. Pober, Yale University School of Medicine

■ **Mechanisms of miR-mediated Endothelial KLF4 and NF $\kappa$ B Regulation by Hemodynamics in vivo and in vitro**, Peter F. Davies, University of Pennsylvania - Institute for Medicine & Engineering

■ **MiRNA Regulation of NF- $\kappa$ B and Insulin Signaling in Endothelial Inflammation**, Mark W. Feinberg, Brigham and Women's Hospital

■ **Regulation of Angiogenic Functions of Endothelial Cells by microRNAs**, Yajaira Suarez, Yale University School of Medicine

### High School Teacher Session: Scientific Sleuthing of Human Disease for High School Teachers

9:30AM - 2:30PM

Sponsored by the ASIP Education Committee

Chairs: Kari Nejak-Bowen, MBA, PhD, Martha B. Furie PhD,

■ **Check In and Light Snack**

■ **Welcome and Introductions**, Kari Nejak-Bowen, University of Pittsburgh

■ **Menacing Microbes: The Threat of Bioterrorism**, Martha B. Furie, Stony Brook University

■ **Smoking-Related Lung Disease in 3D: Not Your Standard Lecture**, Dani S. Zander, Pennsylvania State College of Medicine

■ **Stem Cells: A Case of Dr. Jekyll and Mr. Hyde**, Satdarshan Paul S. Monga, University of Pittsburgh

■ **Tour the Exhibits at the Boston Convention and Exhibition Center**

SIGN UP!

### Lunch and Learn: The Ethics of Personalized Medicine: Quandaries Among the Possibilities

11:45AM - 1:45PM

**Please register for this event when you register for the Experimental Biology Meeting.**

Sponsored by the ASIP Education Committee

Chairs: Wendy Marsm PhD, Danny A. Milner, MD, MSc, Richard N. Mitchell, MD, PhD

■ **Introduction**

■ **Personalized Medicine: Can We Distinguish the Hope and the Hype?** David S. Jones, Harvard Medical School

■ **Identity Crisis-Helping Trainees Manage the Tension Between Patient Privacy and the Promise of Personalized Medicine**, John P. Horn, University of Pittsburgh

■ **Legal and Ethical Considerations with Personalized Medicine**, I. Glenn Cohen, Harvard Law School

■ **Round Table Discussion**

SIGN UP!

**Cotran Early Career Investigator Award Lecture:****Dipak Panigraphy****Cancer Progression: The Failure to Resolve?**

2:00PM - 3:00PM

Sponsored by the ASIP Neoplasia/Growth Regulation Scientific Interest Group

**Epithelial Junctions, Polarity and Cancer**

2:00PM - 5:00PM

Sponsored by the ASIP Vascular and Mucosal Pathobiology (VAMP) Scientific Interest Group

Chairs: Andrei I. Ivanov, PhD, Asma Nusrat, MD

- **Unexpected Crosstalk Between Adhesion Complexes and the RNAi Machinery in Polarized Epithelial Cells and Cancer**, Panos Z. Anastasiadis, Mayo Clinic

- **Tumor Suppressor Function of Alpha-Catenin in Squamous Cell Carcinoma**, Valeri Vasioukhin, Fred Hutchinson Cancer Research Center

- **Polarity Proteins Suppress Tumorigenesis Through Spatial Restriction of Signaling**, Ian G. Macara, Vanderbilt University Medical Center

- **Control of Malignant Behavior By Claudins**, Stephen B. Howell, University of California, San Diego

**SCVP Symposium: Protein Misfolding in the Heart: Conformation Cardiomyopathies**

2:00PM - 5:00PM

Sponsored by the Society for Cardiovascular Pathology

Chairs: James R. Stone, MD, PhD, Monte S. Willis, MD, PhD,

- **Tafamidis, a Pharmacological Chaperone Therapy for Transthyretin Amyloidosis**, Christine Bulawa, Pfizer, Inc.

- **The Translational Science of Transthyretin-Associated Cardiomyopathies**, Lawreen H. Connors, Boston University School of Medicine

- **Cardiac Disease: An Unfolding Story**, Jeffrey Robbins, Cincinnati Childrens Hospital Medical Center

- **Novel Mechanisms of Cardioprotection: Discovery and Clinical Translation**, Joseph A. Hill, University of Texas SW Medical Center Dallas

- **From Heart to Brain - Chemical and Genetic Modifiers of Protein Aggregation**, Isabella A. Graef, Stanford School of Medicine

**Scientific Interest Group Networking Sessions and Poster Discussions**

5:30PM - 7:30PM

**Please register for this event when you register for the Experimental Biology Meeting.**

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.

- Biobanking
- Breast Cancer
- Club Hepatomania™(Liver Pathobiology)
- Der Schadenklub (Cell Injury)
- Environmental and Toxicologic Pathology
- Immunohistochemistry & Microscopy
- Neuropathology
- Vascular and Mucosal Pathobiology
- Veterinary Pathobiology

**WEDNESDAY, APRIL 1, 2015****Histones, Inflammasomes, NETs and Cell/Organ Injury**

8:30AM - 11:30AM

Sponsored by the ASIP Cell Injury Scientific Interest Group

Chairs: Peter A. Ward, MD, Charles T. Esmon, PhD

- **Overview**, Charles T. Esmon, Oklahoma Medical Research Foundation

- **Histopathological Features of NETs**, Paul Kubers, University of Calgary Medical Center

- **Histone Mediation of Acute Lung and Cardiac Injury**, Peter A. Ward, University of Michigan Medical School

- **NETs and Endothelial Cell Injury**, Denisa D. Wagner, Harvard Medical School

- **Activation of the Inflammasome by Histones**, Arturo Zychlinsky, Max Planck Institute for Infection Biology

**Molecular and Cellular Basis of Disease: Neoplasia Mornings: SIPMeT Symposium: Cancer Stem Cells**

8:30AM - 11:30AM

Sponsored by the Società Italiana di Patologia e

Medicina Traslazionale (SIPMeT) and the ASIP

Neoplasia/Growth Regulation and Regenerative

Medicine Scientific Interest Groups

Chairs: Sebastiano Andò, MD, Kevin Gardner, MD, PhD

- **Therapeutic Strategies Based on Cancer Stem Cell Targeting**, Ruggero De Maria, Regina Elena National Cancer Institute

- **Asymmetric Cancer Cell Division: Mechanisms & Models**, Sridhar Ramaswamy, Massachusetts General Hospital Cancer Center

- **Connecting the Machinery of Fate Determination and Tumor Suppression in the Breast Stem Cell Compartment**, Pier Paolo Di Fiore, University of Milan - Health Sciences

- **Epigenetic Regulation of Epithelial Phenotypic Transitions and Self-Renewal in Breast Cancer by a Metabolic Switch**, Kevin Gardner, NIH

**Save \$185  
On Your  
Registration!**

**Did you know?**

**Not currently a member of ASIP and want to attend the ASIP 2015 Annual Meeting?**

Apply for membership (application on page 11, or apply online at [www.asip.org/apply](http://www.asip.org/apply)) and **save \$185 on your ASIP 2015 Annual Meeting Registration!**\*

Non-Member Meeting Registration **\$575\***

"Regular" Member Meeting Registration **\$390!\***

**Not an ASIP member and want to apply for an ASIP Trainee Travel Award?**

Apply for membership (application on page 11 or apply online at [www.asip.org/apply](http://www.asip.org/apply)) **no later than November 6, 2014** to be eligible to apply for an ASIP Trainee Travel Award!

**Want to network with other ASIP members in your area of scientific research?**

ASIP members can join as many ASIP Scientific Interest Groups as they want! See [www.asip.org/SIGs](http://www.asip.org/SIGs) for a list of current SIGs. Then plan to participate in the SIG events at the ASIP 2015 Annual Meeting and throughout the year. \*\*

\* If regular member registering for the meeting by February 2, 2015.

\*\*Not all SIG's have programmed sessions at the Annual Meeting. Participation in the ASIP SIGs is available for ASIP members only.



## What is new and different at EB 2015?

ASIP is pleased to announce the following changes that we hope will enhance your EB experience!

**1.) Trainee Award Applications will be submitted DURING the abstract submission process.** The deadline will be the same day as the abstract submission deadline (*November 6*). You will need to submit your supporting documentation (including letter from your supervisor) at that time. Be prepared to submit your award application at the same time that you submit your abstract (**NOT a week later, as has been the previous practice**).

**2.) Special discounted rate for postdoctoral fellows this year.** This year postdoctoral fellows who are members of a participating society can save up to \$195 off the regular registration rate (non-members can save up to \$95).

**3.) Special one-day registration rate.** You asked and we listened! You can now join us at EB for just one day.

**4.) Shuttle buses to the Boston Convention Center** at the seaport will be available at select times from downtown hotels as an alternative to the public metro (T) system.

We are working hard to accommodate the needs of our attendees! If you have a suggestion for a change you would like to see at EB, make sure you submit the meeting evaluation following the event and tell us what you think!

## New Application Process for ASIP Trainee Travel Awards to Attend the ASIP Annual Meeting at Experimental Biology

The following applications will now be received through the Experimental Biology abstract submission system! In the past, trainee award applications were submitted separately and one week after the abstract submission deadline. This year, for the first time, applications will be submitted during the abstract submission process and you need to be prepared with all your support documentation ahead of time. **Remember to get a letter of support from your supervisor BEFORE submitting your abstract!**

Deadline for submitting applications and supporting documents is 11:59pm EST November 6, 2014 – **SAME DAY AS THE ABSTRACT DEADLINE!**

The following awards are impacted by this new application process:

- **ASIP Experimental Pathologist-in-Training Award (EPIT)**
- **ASIP Experimental Pathologist-in-Graduate-Training Award (EPIGT)**
- **ASIP Trainee Travel Award**
- **ASIP Under-Represented Groups (URG) Trainee Travel Awards (Funded by the FASEB MARC Office)**
- **A. D. Sobel - ASIP Education Fund Scholar Award** (Candidates for the A. D. Sobel - ASIP Education Fund Scholar 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.)
- **Marcos Rojkind - ASIP Trainee Travel Award** (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.)
- **Gotlieb Undergraduate Student Travel Award**

Select the award(s) you would like to apply for as you proceed through the abstract submission process!

**Please make sure you have the following documents ready when you submit your abstract; all documents will be required as you apply for the award:**

- Letter of support from supervisor (ALL awards)
- EPIT/EPIGT – CV and extended abstract in addition to the letter of support
- Under-Represented Groups - CV and proof of residency/citizenship in addition to the letter of support

If you require assistance as you submit your abstract please contact Tara Snethen, Director of Meetings, at [tsnethen@asip.org](mailto:tsnethen@asip.org) or +1 301-634-7950!



# 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 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.

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](http://www.PathologyJobsToday.org)**

- The Society newsletter, **ASIP Pathways**, features government affairs reports on current issues effecting 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 26 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

Please print or type:

Candidate Name \_\_\_\_\_

Position \_\_\_\_\_

Institution \_\_\_\_\_

Department \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip or Postal Code \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

Date of Birth (Month/Day/Year) \_\_\_\_\_

#### Certifications (Please List)

#### 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  
 Environmental and Toxicologic Pathology  
 Gene Expression  
 Immunohistochemistry and Microscopy  
 Inflammation/Immunopathology  
 Informatics  
 Liver Pathobiology  
 Molecular Markers of Disease  
 Neoplasia/Growth Regulation  
 Neuropathology  
 Pulmonary Pathobiology  
 Regenerative Medicine  
 Vascular and Mucosal Pathobiology  
 Veterinary Pathology

### 2014 ANNUAL DUES

#### Regular Membership

- \$195 (Includes Online AJP & JMD)

#### Next Century Membership

- \$101 (Includes Online AJP & JMD)

#### Associate Membership

- \$85 (Includes Online AJP & JMD)

#### Postdoctoral Trainee Membership

- \$25 (Includes Online AJP & JMD)

#### Predoctoral Trainee Membership

- \$25 (Includes Online AJP & JMD)

#### Undergraduate Trainee Membership

- \$10 (Includes Online AJP & JMD)

#### Trainee Applicants: Please have your supervisor or head of educational unit complete the following:

I verify that this applicant is a student, fellow, or resident in my training program.

Name (Please print) \_\_\_\_\_

Email (Please print) \_\_\_\_\_

Signature \_\_\_\_\_

#### Upgrade Journal Subscriptions to Include 2014 Print The American Journal of Pathology (AJP)

- \$50 - Print Upgrade (USA)  
 \$125 - Print Upgrade (International)

#### The Journal of Molecular Diagnostics (JMD)

- \$40 - Print Upgrade (USA & International)

#### Journal CME Programs

- Please process my **FREE** subscription to the ASIP 2014 AJP CME Program in Pathogenesis  
 JMD 2014 CME Program in Molecular Diagnostics - \$150 (U.S. & 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

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Exp Date \_\_\_\_\_

Name on Card (Please Print) \_\_\_\_\_

Signature \_\_\_\_\_



Please submit your application to: American Society for Investigative Pathology

9650 Rockville Pike, Suite E133, Bethesda, MD 20814-3993 (USA), Phone: (301) 634-7130, Fax: (301) 634-7990

Email: [membership@asip.org](mailto:membership@asip.org), web: [www.asip.org/apply/](http://www.asip.org/apply/)

Applications are reviewed and subject to approval in accordance with the ASIP Bylaws. ASIP 2014 membership benefits will be valid through December 31, 2014. Please complete and return this application to the ASIP Membership Department.

Have questions about this application? Email [membership@asip.org](mailto:membership@asip.org)



American Society for  
Investigative Pathology

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

# ASIP 2015 Annual Meeting

at Experimental Biology  
March 28 - April 1, 2015  
Boston, MA (USA)



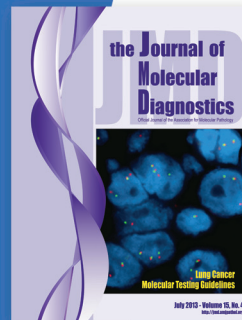
## Trainees...

Apply for an ASIP,  
HCS, or ICPI Trainee  
Award to attend the  
ASIP 2015 Annual  
Meeting!

Last year, ASIP, HCS, and  
ICPI presented **45** Trainee  
Travel Awards to attend the  
ASIP 2014 Annual Meeting!  
So start polishing YOUR  
abstract - and don't miss this  
opportunity!

Trainee awards require submission of an abstract to the  
2015 Experimental Biology Meeting.  
For details on abstract submission, visit: [www.asip.org/2015/](http://www.asip.org/2015/)  
**Abstract Submission Deadline: November 6, 2014**  
**Award Application Deadline: November 6, 2014**  
**NOTE: Deadline is ONE WEEK EARLIER than last year!**

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