



# American Society for Investigative Pathology 2010 Annual Meeting at Experimental Biology April 24-28, 2010 - Anaheim, 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)  
*A Division  
of ASIP*



Società Italiana di  
Patologia/Italian  
Pathology Society  
(SIP)  
*An Affiliate Member  
of ASIP*



Society for  
Cardiovascular  
Pathology  
(SCVP)



## Mark Your Calendars!

We invite you to participate in the **2010 Annual Meeting of the American Society for Investigative Pathology**, to be held in Anaheim, CA at the Anaheim Convention Center from **April 24-28, 2010**, in conjunction with Experimental Biology 2010. The scientific meeting will include diverse and exciting programming constituted by symposia, workshops and special sessions. Many of the sessions have been developed in conjunction with our guest societies including the American Society for Matrix Biology, the American College of Veterinary Pathologists, the International Society for Analytical and Molecular Morphology, the International Society for Biological and Environmental Repositories, the Society for Cardiovascular Pathology, and the Italian Pathology Society.

The topics for symposia include Biomarkers in Alzheimer's and Parkinson's Disease, Interplay of Autophagy and the Proteasome in Pathogenesis, Role of Junction Adhesion Molecules in Health and Disease, the Ubiquitin Proteasome Pathway in Disease, Acute Lung Injury, Leukocyte Transmigration, Parkinson's Disease, Molecular Pathways of Tumorigenesis, Genetics and Molecular Biomarkers of Disease and Nanotechnology, and Glycans and Other Factors in Atherosclerosis.



**Dr. Zena Werb** will be delivering the keynote lecture entitled "Of Mice and Women: New Insights into Mammary Development and Breast Cancer." There are award lectures on the topics of cancer epigenetics and mechanobiology and on diseases of mechanotransduction. This year's presidential symposium is entitled "Photonics in Medicine: New Approaches to Cell and Tissue Imaging." In a continuing tradition, the ASIP annual meeting will host the 'Blood Vessel Club' and 'Club Hepatomania'.

In addition, special interest groups have organized workshops and symposia on bioinformatics, breast cancer, and hepatocellular cancer. In collaborations with our guest societies, ASIP will host sessions on the Globalization of Health Threats, Biological Banking, and Mitochondrial Medicine and Longevity.

In keeping with ASIP's commitment to support junior investigators and trainee members, the ASIP program at EB 2010 will also include special sessions such as the career development workshops and "Mentoring the Mentor". There will also be special sessions to showcase trainee research. Finally, a large number of awards will be presented for outstanding trainee research. As in the past, a vital component of the program will include abstract-driven minisymposia and poster sessions. We encourage submission of your abstracts to ASIP topic categories covering a broad range of research areas in experimental pathology. The program committee is looking forward to receiving many abstracts that will contribute to the success of this exciting meeting in Anaheim.

Paul Monga, MD  
ASIP Program Chair

**For a complete list of  
topic categories, visit**

<http://www.asip.org/mtgs/eb10/categories/topics.pdf>

## Important Deadlines!

### November 4, 2009

- Abstract Submission Deadline
- Deadline to submit abstract and \$65 non-refundable abstract processing fee

### November 11, 2009

- Deadline for ASIP Awards Applications

### February 24, 2010

- Latebreaking Abstract Submission Deadline
- **Deadline for Early Registration.** You may register online after this date, however your registration will be at the higher fee.

### March 19, 2010

- Deadline for hotel reservations

## Registration Rates

EB Registration Fees	By Feb 24	After Feb 6
Sponsoring/Participating Society Members*	\$250	\$325
Nonmembers	\$365	\$440
Retired Society Members	\$120	\$135
** Graduate Student Members	\$65	\$75
** Graduate Student Nonmembers	\$85	\$95
*** Undergraduate Students High School Students and Teachers		
On-site registration only - Free		

**\* Members of ASIP, ACVP, ASMB, ISAMM, ISBER, SCVP, & SIP and FASEB participating societies are eligible to register at the "Sponsoring/ Participating Society Member" rate.**

\*\*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 student 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, High School Students and High School Teachers: Registration will not be accepted in advance. To receive complimentary registration on-site, bring a student or teacher ID card or a letter signed by your department head, research advisor, principal or teacher.

**Register online:**

**<http://experimentalbiology.org>**

The registration fee includes entrance to scientific sessions, exhibits, and a copy of the Program. **The abstracts will be published online only as part of The FASEB Journal.** Additional fees for special Society satellite meeting and social activities may be required.

## ASIP Award Application Information & Deadlines

The following awards require submission of an abstract to the 2010 Experimental Biology Meeting. For details on abstract submission, visit:  
<http://www.asip.org/mtgs/eb10/index.htm>

**Abstract Submission Deadline: November 4, 2009**

### 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).

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.

These awards are presented to trainees who have excelled in investigative efforts in studying mechanisms of disease, as evidenced by an abstract submission to the ASIP annual meeting, an extended research report, and a letter of recommendation attesting to the candidate's role in the work and potential as a biomedical research investigator. The awards each include: a certificate of achievement for the winning abstract presented at the ASIP Annual Meeting Awards Presentation 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. 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.

**Application Deadline: November 11, 2009**

**Apply online at: [www.asip.org/awds/awds.htm](http://www.asip.org/awds/awds.htm)**

### 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 \$500 each to offset travel expenses to the Experimental Biology 2010 Meeting. Some of these awards are funded by the A.D. Sobel-ASIP Education Fund. The ASIP Program Committee will select the recipients based on the scientific abstracts. Abstracts will be selected for presentation in either poster sessions or in minisymposia. These abstracts need not be submitted strictly to ASIP categories.

**Application Deadline: November 11, 2009**

**Apply online at: [www.asip.org/awds/awds.htm](http://www.asip.org/awds/awds.htm)**

### Minority Trainee Travel Awards

The FASEB Minority Access to Research Careers (MARC) Program has awarded ASIP funding to promote the entry of under-represented minority scientists and minority-serving institutions into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the Annual Meeting. 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 Program Committee will select the recipients based on the

scientific abstracts. Abstracts will be selected for presentation in either poster sessions or in minisymposia (oral sessions). These abstracts need not be submitted strictly to ASIP categories. Awardees will be recognized and presented with this award during the ASIP Awards Presentation and Reception at the meeting.

*The ASIP Minority Trainee Travel Awards are funded by a grant from the National Institute of General Medical Sciences, National Institutes of Health [FASEB MARC Program: T36-GM08059-25].*

**Application Deadline: November 11, 2009**

**Apply online at: [www.asip.org/awds/awds.htm](http://www.asip.org/awds/awds.htm)**

### ICPI Trainee Travel Awards

ASIP Trainees are eligible to apply to the Intersociety Council for Pathology Information (ICPI) for \$500 travel awards to attend the ASIP Annual Meeting at EB 2010. Applications are available online at [www.pathologytraining.org](http://www.pathologytraining.org).

## Continuing Medical Education (CME)

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the Federation of American Societies for Experimental Biology (FASEB) and the American Society for Investigative Pathology (ASIP) only. FASEB is accredited by the ACCME to provide continuing medical education for physicians. The Federation designates this educational activity for a maximum of 36 *AMA PRA Category 1 Credit(s)*<sup>TM</sup>.

CME application forms will be available online beginning April 24, 2010. There will be an application fee, payable upon submission of the form.

### Meeting Objective/Target Audience

The objective of this meeting is to provide a forum for the exchange of new research by scientists and investigators. At the completion of this meeting, participants should be able to:

- 1) discuss the research underway and/or the current topics relevant to their areas of interest in pathology;
- 2) demonstrate a gained level of insight into the methods being used by researchers and practitioners in this field; and
- 3) describe a personal exposure to several stimulating areas of inquiry with speakers in related areas. This meeting is targeted to clinical practitioners, research scientists, and medical education professionals.

## Sponsors

ASIP wishes to express our appreciation to the following companies and organizations for their generous support of the ASIP 2010 Annual Meeting.

Supported by unrestricted educational grants from:



**Robert E. Stowell  
Endowment Fund**

# ASIP 2010 Annual Meeting

## Saturday, April 24, 2010

**8:30AM - 11:30AM** **Biomarkers for Alzheimer's and Parkinson's Disease: Targeted and Unbiased Approaches**  
*Chaired: Jing Zhang (Univ of Washington Sch of Med)*

- **Biomarkers for Alzheimer's Disease: Results of Candidate Approaches**  
Douglas R. Galasko, UCSD Sch of Med
- **Proteomic Discovery of Biomarkers for Parkinson's Disease and Parkinson's Dementia**  
Jing Zhang, Univ of Washington Sch of Med
- **TBD**  
Elaine Holmes, Imperial College London
- **Systemic Plasma Proteins as Potential Biomarkers for Brain Aging and Neurodegeneration**  
Tony Wyss-Coray, Stanford Univ Sch of Med

**8:30AM - 11:30AM** **Breast Cancer Workshop: Molecular Pathobiology of Breast Cancer**  
*Chairs: William B. Coleman (Univ of North Carolina-Chapel Hill Sch of Med), Ashley G. Rivenbark (Univ of North Carolina-Chapel Hill Sch of Med)*  
Sponsored by the ASIP Breast Cancer Scientific Interest Group

Supported by an unrestricted educational grant from:



- **Breast Cancer: Challenges and Unmet Needs**  
Celina G. Kleer, Univ of Michigan
- **Epigenetic Events in Breast Carcinogenesis**  
Ashley G. Rivenbark, Univ of North Carolina-Chapel Hill Sch of Med
- **Molecular Events in Breast Cancer Progression**  
Patricia S. Steeg, NCI/NIH
- **Targeted Disruption of Breast Cancer Growth and Metastasis**  
Deepali Sachdev, Univ of Minnesota
- **Targeting of the Breast Cancer Epigenome**  
William B. Coleman, Univ of North Carolina-Chapel Hill Sch of Med

**11:30AM - 1:30PM** **10th Annual Workshop on Graduate Education in Pathology**  
*Chaired: Linda M. McManus (The Univ of Texas Hlth Sci Ctr at San Antonio)*  
Sponsored by the ASIP Education Committee  
*This session will focus on extramural support for Pathology Graduate Programs, and in particular is intended to provide some insight--particularly to Training Program Directors--about funding opportunities as well as best practices regarding strategies for successful Training Grant applications. The session will be chaired by Dr. Linda McManus, who has a strong track record of extramural funding for such training activities, and the discussion panel will be populated by past and present Program Directors from a number of institutions representing the diversity of the ASIP community. The featured speaker from the NIH will discuss the perspective of the NIH regarding desirable goals and focus of such Training Grants, particularly in light of the NIH Roadmap and Challenge Areas and Topics.*

**11:30AM - 12:30PM** **ASMB Lecture: Matrix Metalloproteinases: Effectors of Inflammation**  
*Speaker: William Parks*  
Sponsored by the ASIP and the American Society for Matrix Biology

**11:30AM - 1:00PM** **Breast Cancer Scientific Interest Group Lunch/Networking Session**  
*Chaired: Ashley G. Rivenbark (Univ of North Carolina-Chapel Hill Sch of Med)*  
Sponsored by the ASIP Breast Cancer Scientific Interest Group  
*This informal lunch/networking session will take place following the Breast Cancer Workshop and will showcase a number of posters that will be selected for discussion. This event is provided for all ASIP members who are interested in breast cancer research. One of the major objectives of this session is to create a community of breast cancer researchers and to foster collaborations. Additionally, this professional networking outlet will provide new investigators and/or predoctoral students and postdoctoral trainees an opportunity to become acquainted with scientists working in the field. A complimentary light lunch will be provided for all in attendance*

1:30PM - 4:30PM

**Highlights: Graduate Student Research in Pathology**

*Chaired: Anthony Cuneo (Temple Univ)*

Sponsored by the ASIP Committee for Career Development, Women & Minorities

*This session showcases a selection of oral and poster presentations by students, taken from regular sessions. It provides a view of the research excellence among trainees in Pathology. Scout for a postdoctoral fellow and meet colleagues from other pathology research training programs.*

2:00PM - 5:00PM

**Acute Lung Injury**

*Chaired: Timothy Allen (Univ of Texas Hlth Ctr at Tyler) & Philip T. Cagle (Methodist Hospital System)*

■ **Mesenchymal Stem Cells and Acute Lung Injury**

TBD

■ **Novel Signaling Pathways Impacting the Course of Acute Lung Injury**

Anna Kurdowska, Univ of Texas Hlth Sci Ctr at Tyler

■ **The Role of Defensin in Acute Lung Injury**

Khalil Bdeir, Univ of Pennsylvania

■ **Host-Pathogen Interactions of Staphylococcus aureus and Group A Streptococcus in Acute Lung Injury**

Randall Olsen, Methodist Hospital System

3:55PM - 4:10PM\*\*

**Excellence in Science Award Lecture: Cancer Epigenetics: Lessons from Yeast and Humans**

*Award Recipient: ASHLEY G. RIVENBARK (Univ of North Carolina-Chapel Hill Sch of Med)*

Supported by the A.D. Sobel - ASIP Education Fund

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

Ashley Rivenbark is a Lineberger Comprehensive Cancer Center Postdoctoral Fellow in the Department of Biochemistry and Biophysics at the University of North Carolina School of Medicine. She has a PhD in Toxicology from the University of North Carolina School of Medicine. Currently under the direction of Dr. Brian D. Strahl, she is examining the role of histone H3 lysine 36 methylation and demethylation in transcriptional regulation using budding yeast as a model system. Since histone H3 lysine 36 is associated with cancer development, Dr. Rivenbark is going to apply what she has learned in yeast to human cells in order to gain a better understanding of cancer pathogenesis. Dr. Rivenbark's research also includes examining histone methylation patterns in breast tumors, elucidating the modification profile of these tumors in order to help determine if histone modifications are clinically relevant for patient assessment of breast cancer.

5:00PM - 6:00PM

**KEYNOTE LECTURE: Of Mice and Women: New Insights into Mammary Development and Breast Cancer**

*Speaker: ZENA WERB*



## Sunday, April 25, 2010

8:30AM - 11:30AM

**The Role of Junction Adhesion Molecules in Health and Disease**

*Chaired: Asma Nusrat (Emory Univ) & Sussan Nourshargh (William Harvey Research Inst)*

■ **The Role of JAM-C in Cell-Cell Adhesive Interactions in the Vasculature**

Triantafyllos Chavakis, NCI/NIH

■ **JAM Protein-Mediated Signaling and Mucosal Homeostasis**

Charles A. Parkos, Emory Univ

■ **The Many Faces of Junction Adhesion Molecules in Pathologies**

Beat Imhof, Univ De Geneve

■ **Junctional Adhesion Molecule-A and Reovirus Pathogenesis**

Terence S. Dermody, Vanderbilt Univ Med Ctr





**8:30AM - 11:30AM Trends in Experimental Pathology: The Interplay of Autophagy and the Proteasome in Pathogenesis**

*Chaired: Xiao-Ming Yin (Univ of Pittsburgh Med Sch) & Monte S. Willis (Univ of North Carolina)*

Supported by an unrestricted educational grant from the Robert E. Stowell Endowment Fund

■ **Regulation of Cancer Cell Survival by Autophagy During Proteasome Inhibition and ER Stress**

Xiao-Ming Yin, Univ of Pittsburgh Med Sch

■ **Autophagy and UPS in Mallory's Body Turnover in Liver Diseases**

Bishr Omary, Univ of Michigan Sch of Med

■ **Coordinated Regulation of Proteasome and Autophagic Degradation in Muscle Metabolism**

Alfred Goldberg, Harvard Med Sch

■ **HDAC6 at the Intersection of the Proteasome and Autophagy in Neurodegenerative Diseases**

J. Paul Taylor, St. Jude Children's Research Hosp

■ **ER Stress, Proteasome Activity and Autophagy in the Pathogenesis of Diabetes**

Allen Volchuk, Toronto General Research Inst

**8:30AM - 11:30AM ASIP Workshop: Non-traditional Career Opportunities in Pathology**

*Chaired: Elizabeth Galbreath (Eli Lilly Laboratories) & Jayne Reuben (Baylor Coll of Dentistry); Sponsored by the ASIP Committee for Career Development, Women & Minorities, the American College of Veterinary Pathologists and the FASEB Minority Access to Research Careers (MARC) Office*

■ **Scientific Writing and Editing**

Audra Cox, *The American Journal of Pathology*

■ **From Training Rats to Training Policy: Adventures in the Life of a Science Policy Analyst**

Jennifer Hobin, FASEB

■ **The Long and Winding Road: A Non-traditional Path to a Non-traditional Role in the Biopharmaceutical Industry**

Wendy Halpern, Genentech

■ **From Lab Rat to Law Geek: Life as a Patent Attorney**

Karen S. Canady, Canady & Lortz, LLP

■ **Panel Discussion**

**11:45AM – 1:45PM 10th Annual Career Development Program & Lunch: Mentoring the Mentors**

*Chaired: Marion C. Cohen (UMDNJ-New Jersey Med Sch) & Stanley Cohen (UMDNJ-New Jersey Med Sch)*

The Career Development Luncheon, "Mentoring the Mentors" offers an opportunity for trainees, mentors, and investigators to hear and discuss the mentoring process as it exists within the global academic framework. Drs. Rivenbark and Monga will provide their insights into the mentoring process as seen through the eyes of the mentored and the mentor, respectively. Following this, Dr. Kumar will describe the role of the department chair as a mentor not only to trainees, but also to his or her entire faculty. Next, Dr. Tykocinski will discuss ways in which the dean, as the academic leader of an institution, can encourage and support the creation of an environment in which mentorship flourishes throughout that institution. Dr. S. Cohen will provide a summary overview that puts into perspective the fact that the mentor and the mentored each gain from the informal partnership, and that this partnership can only flourish in an interactive framework of institutional support. In this way, we will consider the mentoring experience as a kind of "apprenticeship" for development that exists in a continuum of linked relationships. Following the speakers' presentations, there will be a panel discussion for additional interaction between the audience and speakers.

■ **Introduction**

■ **Mentoring Through the Eyes of the Mentored**

Ashley G. Rivenbark, Univ of North Carolina-Chapel Hill Sch of Med

■ **Mentoring Through the Eyes of the Mentor**

S. Paul Monga, Univ of Pittsburgh

■ **The Role of the Chair Both as Mentor, and Mentor to Mentors**

Vinay Kumar, Univ of Chicago Sch of Med

■ **The Dean's "Bully Pulpit": Promoting a Climate of Mentoring**

Mark L. Tykocinski, Thomas Jefferson Univ Med Ctr

■ **Overview: The Systems Approach to Networking**

Stanley Cohen, UMDNJ-New Jersey Med Sch

■ **Panel Discussion**

**Special  
Registration  
Required for the  
10<sup>th</sup> Annual Career  
Development  
Program & Lunch**

**See registration  
form on page 11,  
or register online  
at [www.asip.org](http://www.asip.org)  
Deadline to  
pre-register:  
April 2, 2010**

2:00PM – 5:00PM

**Liver Pathobiology Symposium: Hepatocellular Cancer: At the Crossroads of Liver Injury and Repair**

*Chaired: S. Paul Monga (Univ of Pittsburgh) & Xiao-Ming Yin (Univ of Pittsburgh Med Sch)*

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

■ **The Role of S-adenosyl-L-methionine in Liver Injury and Cancer**  
Shelly C. Lu, Keck Sch of Med of USC

■ **TBD**

Karl G. Sylvester, Stanford Univ Sch of Med

■ **Coupling of Proliferation and Cell Death in Liver Carcinogenesis by Bid, a Bcl-2 Family Protein**

Xiao-Ming Yin, Univ of Pittsburgh Med Sch

■ **Signaling Interactions in Initiation and Termination of Liver Regeneration**

George K. Michalopoulos, Univ of Pittsburgh

■ **New Perspectives on the Regulation of Liver Regeneration and Carcinogenesis**

Nelson Fausto, Univ of Washington

■ **Hepatocellular Carcinoma: Inflammation as a Driver of Carcinogenesis**  
Gregory J. Gores, Mayo Clinic

2:00PM – 5:00PM

**You Only Build Me Up to Tear Me Down: The Ubiquitin Proteasome Pathway in Disease**

*Chaired: Monte S. Willis (Univ of North Carolina) & Stewart H. Lecker (Beth Israel Deaconess Med Ctr and Harvard Med Sch)*

■ **Regulation of Cardiac Hypertrophy and Metabolism by the Ubiquitin Ligase Muscle Ring Finger-1 (MuRF1)**

Monte S. Willis, Univ of North Carolina

■ **The Role of Atrogin-1 in Muscle Wasting and Damage**

Stewart H. Lecker, Beth Israel Deaconess Med Ctr and Harvard Med Sch

■ **Short presentations selected from abstract submissions**

Abstracts will be selected from the following topic categories:

4027-ASIP Apoptosis/Necrosis

4034-ASIP The Role of the Proteasome in Disease

4035-ASIP ER Stress and Autophagy in Disease

4036-ASIP Ubiquitin-like Proteins in Diseases (SUMO, Nedd, others)

4059-ASIP Cardiac Metabolism in Health and Disease

4062-ASIP Ischemic Heart Disease and Cardiac Ischemia Reperfusion Injury

3:00PM – 5:00PM



**Blood Vessel Club: Are Proteases Accelerating or Braking Inflammation?**

*Chaired: Elaine W. Raines (Univ of Washington - Harborview Med Ctr) & William C. Parks (Univ of Washington)*

■ **Evidence for MMPs in Action: Pro and Anti-inflammatory Properties**

Farrah Kheradmand, Baylor Coll of Med

■ **TBD**

Elaine W. Raines, Univ of Washington - Harborview Med Ctr

■ **In addition to invited speakers, talks will be included from abstract submissions**

5:00PM - 6:00PM

**Rous-Whipple Award Lecture: Mechanobiology and Diseases of Mechanotransduction**

*Award Recipient: DONALD E. INGBER (Harvard Med Sch/Children's Hosp Boston)*

6:00PM - 7:30PM

**Club Hepatomania**

*Chaired: S. Paul Monga (Univ of Pittsburgh)*

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

*This informal social event is geared towards all ASIP members with an interest in Liver Biology. The program will include a select number of posters that will be selected for discussion. More importantly, this will be a social networking session and a great opportunity to make new friends or talk to old ones. Another purpose of this session is to bring all the folks who share a passion for liver research under the same roof for additional discussions and an incentive to our new collaborations. Complimentary wine and cheese will be available to all in attendance. We will also highlight the liver specific programs of our next ASIP meeting at EB 2011 in Washington, DC.*



## Monday, April 26, 2010

- 
- 8:30AM - 11:30AM** **ACVP Symposium: One Health: Globalization of Health Threats**  
*Chaired: Mark McArthur (Univ of Texas MD Anderson Cancer Center) & Wendy G. Halpern (Genentech, Inc)*  
Sponsored by ASIP and the American College of Veterinary Pathologists
- **A Tapestry of Travel and Trade: An Overview of One Health in the Age of Globalization**  
Corrie Brown, Univ of Georgia Coll of Vet Med
  - **"Biodefense - How "Global" is Global?**  
Gary D. Coleman, Defense Threat Reduction Agency
  - **Bugs Behaving Badly**  
James Mallory Musser, Methodist Hospital Research Institute
  - **Global Foodborne Threats or "Where Did That Mouthful of Food Come From?"**  
Robert H. Poppenga, UC Davis Sch of Vet Med
- 8:30AM - 11:30AM** **Dynamic Changes in Cellular and Molecular Events in Leukocyte Transmigration**  
*Chaired: Sussan Nourshargh (William Harvey Research Inst) & Francis W. Luscsinkas (Brigham & Women's Hosp)*
- **Cytoskeletal Regulation of Leukocyte Transmigration and Endothelial Integrity**  
Christopher V. Carman, Beth Israel Deaconess Med Ctr
  - **Endothelial Adhesive Platforms and Docking Structures: Molecular Composition, Biophysical Properties, Dynamics and Involvement in Leukocyte Transmigration**  
Olga Barreiro, Natl Ctr of Cardiovascular Res
  - **Organ-damaging Heterotypic Blood Cell Interactions Mediated by Neutrophil Microdomains**  
Paul S. Frenette, Mount Sinai School of Med
  - **Short Presentations selected from Abstract Submissions**  
\*\*Abstracts will be selected from amongst the Inflammation and Immunopathology and Vascular Biology and Pathology topics\*\*
  - **New Advances in PECAM-1 Function and Regulation During Leukocyte Transmigration**  
Zahra Mamdouh, Northwestern Univ Sch of Med
- 8:30AM - 11:30AM** **Molecular Pathways of Tumorigenesis**  
*Chaired: Michael L. Cleary (Stanford University Med Ctr) & Kathleen R. Cho (Univ of Michigan)*
- **TBD**  
Michael L. Cleary, Stanford Univ Medical Center
  - **Pancreatic Cancer Genome Project**  
James R. Eshleman, Johns Hopkins Univ
  - **TBD**  
Stephen B. Baylin, Johns Hopkins Univ Sch of Med
  - **Dynamic Linkages Between Histone Modification and Transcriptional Elongation in Leukemia/Lymphoma**  
Kevin Gardner, NCI/NIH
  - **Wnt/ $\beta$ -catenin and PI3K/Akt Signaling Pathway Defects Underlie Ovarian Endometrioid Adenocarcinoma Development in Humans and Mice**  
Kathleen R. Cho, Univ of Michigan
- 11:30AM - 12:30PM** **Outstanding Investigator Award Lecture: Parkinson's Disease: Converging Insights from Toxin and Genetic Models**  
*Award Recipient: CHARLEEN CHU (Univ of Pittsburgh Sch of Med)*  
Dr. Chu is Associate Professor of Pathology and Ophthalmology, Director of the Ophthalmic Pathology Service, and co-director of the Pathologist Investigator Residency-Research Training (PIRRT) program at the University of Pittsburgh School of Medicine. Dr. Chu obtained her A.B. (Biology) from Harvard University, followed by M.D., Ph.D. (Pathology-Biochemistry) and post-graduate training (Anatomic Pathology, Neuropathology, Ophthalmic Pathology) at Duke University. Dr. Chu's research centers on the role of kinases in age-related neurodegenerative diseases with an emphasis on mitochondrial dysfunction and macroautophagy. For more information and links, <http://path.upmc.edu/personnel/Faculty/Chu.htm>.

- 12:45PM - 1:45PM** **Veterinary Pathology Special Interest Group Lunch/Networking Session**  
*Chaired: Elizabeth Galbreath (Eli Lilly Laboratories)*  
Sponsored by the ASIP Veterinary Pathology Scientific Interest Group
- 2:00PM – 5:00PM** **Presidential Symposium: Photonics in Medicine: New Approaches to Cell and Tissue Imaging**  
*Chaired: Stanley Cohen (UMDNJ-New Jersey Med Sch)*
- **Introduction**  
Stanley Cohen, UMDNJ-New Jersey Med Sch
  - **Multispectral Pathology: The Merger of Molecular and Morphological Detail**  
Richard R. Levenson, CRI Incorporated
  - **Optical Spectroscopy and Low-coherence Interferometry for Cancer Detection and Analysis**  
Adam P. Wax, Duke Univ
  - **Applications of Optical Coherence Tomography for Biomedical Research and Clinical Diagnosis**  
Stephen Boppart, Univ of Illinois at Urbana-Champaign
  - **Magnetic Resonance Histology**  
Alexandra Badea, Duke Univ Med Ctr
  - **Surface Plasmon Resonance and Cellular Impedance as Complementary Probes of Intracellular Dynamics**  
Stanley Cohen, UMDNJ-New Jersey Med Sch
- 5:00PM - 6:00PM** **ASIP Awards Presentation and Membership Business Meeting**  
*Chaired: Stanley Cohen (UMDNJ-New Jersey Med Sch)*
- 6:00PM - 8:00PM** **ASIP Awards Reception**  
Open to ALL attendees of Experimental Biology 2010

## Tuesday, April 27, 2010

- 8:30AM – 5:00PM** **Molecular and Cellular Basis of Disease: Mitochondrial Medicine and Longevity**  
*Chaired: Sebastiano Andò (Università degli studi della Calabria)*  
Sponsored by ASIP and Società Italiana di Patologia (Italian Society of Pathology).  
In addition to invited speakers, talks will be included from abstract submissions
- SESSION I**  
*Chaired: Claudio Franceschi (Università degli studi di Bologna ) & Gerald S. Shadel (Yale Univ Sch of Med)*
- **Pharmacological Correction of Mitochondrial Diseases**  
Paolo Bernardi, Univ of Padova
  - **Oxidative Stress and Mitochondrial DNA Mutations**  
Carlos T. Moraes, Univ of Miami
  - **Mitochondrial DNA Mutations and Cancer**  
Douglas C. Wallace, Univ of California, Irvine College of Med
  - **Involvement of Mitochondria in HIV Infection and Therapy**  
Andrea Cossarizza, Modena and Reggio Emilia Univ Sch Med
- SESSION II**  
*Chaired: Sebastiano Andò (Università degli studi della Calabria)*
- **Mitochondria, Calcium and Regulation of Apoptosis and Autophagy**  
Rosario Rizzuto, Università degli studi di Ferrara
  - **NO, Mitochondrial Biogenesis and the Metabolic Syndrome**  
Salvador Moncada, Univ College London
  - **Mitochondrial Fission and Neurodegeneration**  
Stuart Lipton, Burnham Center for Neuroscience
  - **Centenarian Studies as Novel Pharmacogenetic Tools**  
Calogero Caruso, Università degli studi di Palermo
  - **Mediterranean Diet and Longevity**  
Emilio Jirillo, Università degli studi di Bari





- 8:30AM - 11:30AM Heart Valve Pathobiology, Cells, Matrix and Development**  
*Chaired: Avrum I. Gottlieb (Univ of Toronto)*  
Sponsored by ASIP and the Society for Cardiovascular Pathology
- **The Response to Valve Injury: A Paradigm to Understand the Pathogenesis of Heart Valve Disease**  
Avrum I. Gottlieb, Univ of Toronto
  - **Transcriptional Regulation of Heart Valve Development and Disease**  
Katherine E. Yutzey, Cincinnati Children's Med Ctr
  - **Biophysical Regulation of Aortic Valve Pathology**  
Craig Simmons, Univ of Toronto
  - **Osteoblastogenesis in Aortic Valve Disease: The Potential for Medical Therapy**  
Nalini Rajamannan, Northwestern Univ
- 8:30AM - 11:30AM ISBER Symposium: Biological Banking: The Foundation for Translational Research**  
*Chaired: Rajiv Dhir (UPMC Shadyside) & Cheryl Michels (Dataworks Development, Inc.)*  
Sponsored by ASIP and the International Society for Biological and Environmental Repositories
- **Operational Aspects of a Tissue Bank**  
Rajiv Dhir, UPMC Shadyside
  - **Informatics Issues and Biobanks**  
Cheryl Michels, Dataworks Development, Inc.
  - **Medico-legal Aspects of Tissue Banking: Who Owns the Tissues; MTA Related Issues**  
Roger L. Aamodt, Aamodt Enterprises
  - **Searching for the Right Tissues: The TCGA Experience**  
Carolyn C. Compton, NCI/OD
  - **Patient Advocacy and Empowering Research**  
Paula Kim, Translating Research Across Communities (TRAC)
- 2:00PM – 5:00PM Bioinformatics Workshop**  
*Chaired: Arul M. Chinnaiyan (Univ of Michigan) & Christopher Maher (Univ of Michigan)*  
Sponsored by the ASIP Informatics Scientific Interest Group
- **TBD**
  - **Recurring Mutations Found by Sequencing an Acute Myeloid Leukemia Gene**  
Elaine R. Mardis, Washington Univ
  - **Gene Fusion Discovery in Human Cancers Using Next generation Transcriptome Sequencing**  
Christopher Maher, Univ of Michigan
  - **Genetic Variation in an Individual Human Exome**  
Robert L. Strausberg, J. Craig Venter Institute
- 2:00PM – 5:00PM Mending Broken Hearts: From Pathogenesis to Treatment of Cardiac Infection and Inflammation**  
*Chaired: David M. Engman (Northwestern Univ)*
- **Pathogenesis of Autoimmune Myocarditis**  
Noel R. Rose, Johns Hopkins Med Inst
  - **Molecular Mimicry, Autoimmunity and Infection: From Viral myocarditis to Cardiomyopathy**  
Madeleine Cunningham, Univ of Oklahoma Hlth Sci Ctr
  - **Molecular Pathogenesis of Chagas Heart Disease.**  
David M. Engman, Northwestern Univ
  - **Cardiac and Renal Allograft Rejection and Vascular Inflammation**  
William Baldwin, III, Cleveland Clinic Foundation
  - **Autophagy in Cardiac Health and Disease**  
Roberta Gottlieb, San Diego State Univ

## Wednesday, April 28, 2010

- 8:30AM - 11:30AM Genetics and Molecular Biomarkers of Disease and Nanotechnology**  
*Chaired: Daniel Remick (Boston Univ Sch Med)*
- **Adventures in Translational Pathology**  
Arul M. Chinnaiyan, Univ of Michigan

- **Molecular Genetics of Pancreatic Carcinogenesis and Progression**  
Christine A. Iacobuzio-Donahue, The Johns Hopkins Univ Sch of Med
- **Multifunctional Nanoparticles for Theranostics**  
Brij Moudgil, Univ of Florida
- **Integrating the Physical/Life Sciences and Engineering**  
Travis M. Earles, Executive Office of the President

8:30AM - 11:30AM

**Glycans and Other Factors in Atherosclerosis**

*Chaired: Jonathon W. Homeister (Univ of North Carolina) & Alfonso Pompella (Università degli studi di Pisa)* Sponsored by ASIP and Società Italiana di Patologia (Italian Society of Pathology)

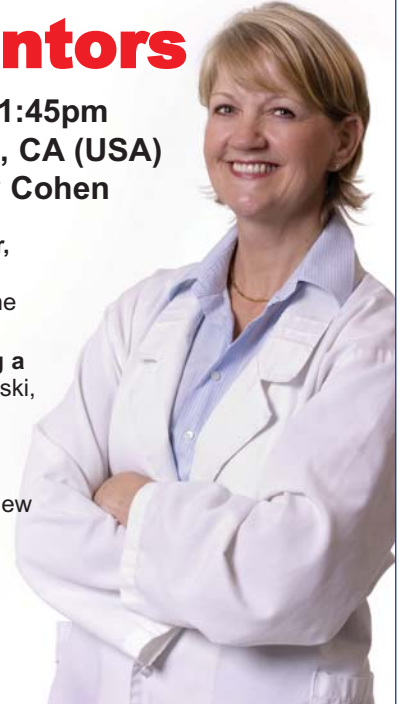
- **Gamma-glutamyltransferase and Atherosclerosis**  
Alfonso Pompella, Università degli studi di Pisa
- **Selectins and Selectin Ligands Mediate and Modulate Leukocyte Recruitment in Atherosclerosis**  
Klaus Ley, La Jolla Institute for Allergy & Immunology
- **A Human-specific Diet-mediated Xeno-auto-antibody Response Against Vascular Endothelium**  
Ajit Varki, UCSD
- **Fucosylated Glycan-dependent Mechanisms of Atherothrombosis**  
Jonathon W. Homeister, Univ of North Carolina
- **Cholesterol Oxidation Products in the Pathogenesis of Atherosclerosis**  
Giuseppe Poli, Univ of Turin at San Luigi Hospital





**10th Annual Career Development Program & Lunch at Experimental Biology 2010**  
**Mentoring the Mentors**

**Sunday, April 25, 2010 - 11:45am - 1:45pm**  
**Anaheim Convention Center, Anaheim, CA (USA)**  
**Chairs: Marion C. Cohen & Stanley Cohen**



The Career Development Luncheon will offer an opportunity for trainees, mentors, and investigators to hear and discuss the mentoring process as it exists within the global academic framework.

- **Introduction**, Marion C. Cohen, UMDNJ-New Jersey Medical School
- **Mentoring Through the Eyes of the Mentored**, Ashley G. Rivenbark, University of North Carolina School of Medicine
- **Mentoring Through the Eyes of the Mentor**, Paul Monga, University of Pittsburgh School of Medicine
- **The Role of the Chair Both as Mentor, and Mentor to Mentors**, Vinay Kumar, University of Chicago School of Medicine
- **The Dean's "Bully Pulpit": Promoting a Climate of Mentoring**, Mark L. Tykocinski, Jefferson Medical College
- **Overview: The Systems Approach to Networking**, Stanley Cohen, UMDNJ-New Jersey Medical School
- **Panel Discussion**

**REGISTRATION FORM: ASIP 10th Annual Career Development Program and Lunch**  
**Sunday, April 25, 2010 - 11:45 AM - 1:45PM**

**Trainee and Student Members - FREE if Registered by April 2, 2010!**

- ASIP Trainee & Student Members - FREE
- AAA Student - FREE
- Faculty/Staff/Other \$20.00 - Deadline to pre-register: April 2, 2010

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Department \_\_\_\_\_

Institution \_\_\_\_\_

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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: \_\_\_\_\_

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Register online at [www.asip.org](http://www.asip.org) or Mail/Fax/Email Registration Form by April 2, 2010 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](mailto:meetings@asip.org)

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

After April 2, 2010:  
 Please register onsite - all tickets will be \$20



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

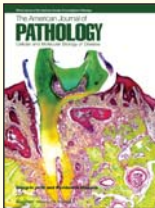


# American Society for Investigative Pathology

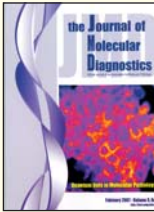
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## Scientific Interest Groups

*Please check all that apply.*

- Analytical and Molecular Morphology  
 Breast Cancer  
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 Gene Expression  
 Inflammation/Immunopathology  
 Informatics  
 Molecular Markers of Disease  
 Neoplasia/Growth Regulation  
 Organ Specific:  
     1. Pulmonary Pathobiology  
     2. Liver Pathobiology  
     3. Neuropathology  
     4. Other: \_\_\_\_\_  
 Tissue Banking  
 Vascular Pathobiology  
 Veterinary Pathology

## 2010 Annual Dues

**Regular Membership Categories:**

**Online AJP/JMD**

- USA & International (one year) \$177 US  
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- USA (one year) \$227 US  
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 Can/Mex (one year) \$302 US  
 Can/Mex (two years) \$590 US  
 International (one year) \$322 US  
 International (two years) \$630 US

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- Print/Online AJP/JMD (one year) \$135 US  
 Print/Online AJP/JMD (two years) \$260 US  
 Online AJP/JMD (one year) \$85 US  
 Online AJP/JMD (two years) \$160 US

**Trainee Membership Categories:**

- Print/Online AJP/JMD (one year) \$100 US  
 Print/Online AJP/JMD (two years) \$195 US  
 Online AJP/JMD (one year) \$50 US  
 Online AJP/JMD (two years) \$95 US

## 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)

\_\_\_\_\_  
 Signature

**Submit application and CV to** (Please note: Application will not be processed without the submission of a CV):  
 American Society for Investigative Pathology, 9650 Rockville Pike, Bethesda, MD 20814-3993 (USA)  
 www.asip.org, Phone: (301) 634-7130, Fax: (301)-634-7990, or Email: asip@asip.org

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**Molecular Mechanisms**  
**of Human Disease:**  
**Injury, Inflammation, Stem Cells**  
**and Tissue Repair**

**Directors**

Martha B. Furie, PhD,  
Stony Brook University,

Richard N. Mitchell, MD, PhD,  
Harvard Medical School and Brigham & Women's Hospital

**Preliminary Program**  
**Saturday, June 26, 2010**

- Mechanisms of cell injury and cell death
- Autophagy
- Apoptosis
- Neuroprotective and neuroregenerative strategies to limit brain injury

**Sunday, June 27, 2010**

- Leukocyte activation
- Leukocyte-mediated tissue injury
- Leukocyte recruitment
- Inflammasome-mediated inflammation
- Resolution of inflammation

**Monday, June 28, 2010**

- Stem cells in tissue regeneration
- Atherosclerosis: inflammation and wound healing in the vessel wall

**Faculty**

*Charleen Chu, MD, PhD, University of Pittsburgh*

*Martha B. Furie, PhD, Stony Brook University*

*Bruce Levy, MD, Harvard Medical School and Brigham & Women's Hospital*

*Andrew Lichtman, MD, PhD, Harvard Medical School and Brigham & Women's Hospital*

*Richard N. Mitchell, MD, PhD, Harvard Medical School and Brigham & Women's Hospital*

*Scott Oakes, MD, University of California*

*Kevin Roth, MD, PhD, University of Alabama - Birmingham*

*Kenneth L. Rock, MD, University of Massachusetts School of Medicine*

*Amy Wagers, PhD, Harvard Medical School*

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