

ASIP 2016 Annual Meeting

Deciphering Disease Mechanisms and the Prevention and Treatment of Disease

at Experimental Biology

April 2 - 6, 2016 - San Diego, CA (USA)

www.asip.org/2016



GUEST SOCIETIES

American College of Veterinary Pathologists (ACVP)

American Physician Scientists Association (APSA)

American Society for Matrix Biology (ASMB)

Association of Pathology Chairs (APC)

The Histochemical Society (HCS)

Società Italiana di Patologia e Medicina Traslazionale (SIPMeT)

Society for Cardiovascular Pathology (SCVP)

Society of Toxicologic Pathology



Join us in San Diego!

The American Society for Investigative Pathology (ASIP) 2016 Annual Meeting will be held April 2-6, 2016, in conjunction with Experimental Biology 2016 at the San Diego Convention Center, San Diego, CA. The Program Committee has assembled a vibrant scientific program encompassing diverse topics relevant to basic biology and the pathobiology of human disease. The theme of the ASIP 2016 Annual Meeting is **Deciphering Disease Mechanisms and the Prevention and Treatment of 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, American College of Veterinary Pathologists, American Physician Scientists Association, Association of Pathology Chairs, The Histochemical Society, Italian Society of Pathology and Translational Medicine (SIPMeT), Society for Cardiovascular Pathology, and Society of Toxicologic Pathology.

This year's scientific program will highlight exciting, timely and emerging research topics relevant to disease pathobiology, prevention, and treatment. Presentation formats will encompass symposia and workshops in addition to educational and professional development sessions. Symposia and workshops by leading scientists will cover highly relevant pathology topics. There will be a **strong emphasis on neoplasia, including Molecular and Cellular Basis of Disease: From Prevention to Cancer Metastasis; Host Pathogen Interactions**; a liver pathobiology workshop on **Liver Injury, Inflammation, and Tumorigenesis: Implications in Cancer Prevention and Treatment**; a symposium on **Molecular Foundation of Glial Oncogenesis: Hints for Prevention and Therapy**; the ASIP Presidential Symposium on **Molecular Pathogenesis of Triple-negative Breast Cancer: Implications for Prevention and Therapy**; as well as two award lectures: the ASIP Outstanding Investigator Awardee, Anirban Maitra, will speak on **Making Progress Against Pancreatic Cancer: Where the Rubber Hits the Road**, and the Rous-Whipple Awardee, Elaine Jaffe, will speak on **The Microscope as a Tool for Disease Discovery: A Voyage through the Eyes of a Hematopathologist**.

The theme of the annual Pathobiology Course for Basic Scientists will be **Metabolism Run Amok: Understanding Biochemical Pathways and their Pathologic Consequences in Cancer and Systems Biology**. The role of metabolism will also be explored by Cotran Early Career Investigator Awardee, Magali Saint-Geniez, who will speak about **Respiration and Vision: How Metabolism Regulates Retinal Function and Implications for Disease Prevention**. The SIPMeT Symposium will be on **Sex Steroid Hormones Action in Metabolism, Differentiation, and Damage Response**.

Inflammation and cell injury are important pathogenetic mechanisms of cancer and other diseases. We have planned sessions on **Host-Pathogen Interactions**; a Cell Injury Workshop on **Proteotoxicity and Cell Injury**; and symposia on **Autophagy: Basic Mechanisms and Pathophysiology**, and **Emerging Strategies to Resolve Inflammation**. The Society for Cardiovascular Pathology Symposium will be on **Cytokine Signaling in the Heart**. The Vascular and Mucosal Pathobiology Scientific Interest Group (SIG) is sponsoring a symposium on **Structure and Regulation of Intracellular Junctions: Quest for New Molecules and Mechanisms**. The Blood Vessel Club™ will cover **Angiogenesis in Organ Development and Function**.

This year's Stowell Symposium (Trends in Experimental Pathology) will be: **The Science of Health Disparities: New Paradigms, Approaches and Impact on Disease Prevention**. The Society of Toxicologic Pathology Symposium will be on **Aquatic Toxicology and Lessons for Prevention of Disease**. In addition, the Gene Expression SIG is sponsoring a workshop on **Long Non-coding RNA** and the Liver Pathobiology SIG is sponsoring a symposium on **Liver Progenitors in Health and Disease**.

Another major theme will be image analysis and computational and digital pathology. The Histochemical Society Symposium will cover **The 3D Brain: From Diffusion MRI to Ultrastructure** and the American College of Veterinary Pathology Symposium will be on **Illuminating Pathobiology: Imaging Across Scale**.

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 provide special opportunities to trainees and junior faculty. The ASIP Young Scientist Leadership Awardee, Christi Kolarcik, will present a lecture on **Approaching Amyotrophic Lateral Sclerosis from Cellular, System, and Technological Angles** as part of the Saturday afternoon session, **Highlights: Graduate Student Research in Pathology**. On Sunday, the ASIP Committee for Career Development and Diversity will sponsor a morning workshop on **Career-Choice Opportunities in Science**, and the annual Mentoring Program and Lunch will continue the theme with an interactive session on **How to Network Efficiently and Choose a Career Path**. The ASIP Education Committee and the Association of Pathology Chairs are sponsoring the **Graduate Education in Pathology Workshop on Integrating Clinical and Anatomic Pathology** into the graduate curriculum. And the Education Committee is sponsoring a special Lunch & Learn session on **Science, Statistics, and Getting it Right: Interactive Discussion of Common Problems** as well as **Scientific Sleuthing of Human Disease** for Undergraduate Students and High School Teachers and Students.

ASIP Trainee members (including Undergraduate Students) and Junior Faculty who submit abstracts to ASIP Topic Categories are eligible to be considered for travel awards. Please see details about the many special award opportunities on page 4 and online (www.asip.org/meetings/2016/awards.cfm).

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 prevention and 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 me or Tara Snethen at the ASIP office. We look forward to your participation in ASIP's scientific program at EB 2016 in San Diego.



Satdarshan Paul S. Monga, MD

ASIP Program Committee Chair



Registration Rates

	On or Before March 1 11:59PM (EST)	After March 1
Sponsoring & Participating Society Members	\$400	\$535
Non-Members	\$590	\$715
Retired Society Members	\$140	\$160
Graduate Student Members*	\$85	\$95
Graduate Student Non-Members*	\$110	\$120
Postdoctoral Trainee Members**	\$335	\$335
Postdoctoral Trainee Non-Members**	\$435	\$435
1-Day Members	\$195	\$195
1-Day Non-Members	\$350	\$350
Undergraduate Student***	\$20	\$30
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.

*****Postdoctoral Trainee:** Trainees have obtained their doctoral degree within the last five years and are currently enrolled in a postdoctoral trainee program. *We are offering postdocs the opportunity to register for this event at a substantially reduced 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 must be provided on-site to receive your badge.

Important Deadlines!

- **Abstract Submission Deadline: November 5, 2015**
- **Trainee & Junior Faculty Travel Award Application Deadline: November 5, 2015**
- **Deadline for Discounted Registration: March 1, 2016**

Register online at ww.asip.org/2016/

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 EB2016 meeting. Details of these and other ASIP events will be posted at http://www.asip.org/meetings/2016/meeting_program.cfm

Sessions that require special registration will be noted:

XVth Annual Workshop on Graduate Education in Pathology: Integrating Clinical and Anatomic Pathology
Saturday, April 2, 2016 at 11:45 AM

Committee for Career Development & Diversity Workshop and Breakfast: Career-Choice Opportunities in Science
Sunday, April 3, 2016 at 7:00 AM

XVth Annual ASIP/AAA Career Development and Mentoring Program and Lunch: How to Network Efficiently and Choose a Career Path
Sunday, April 3, 2016 at 11:45 AM

Lunch and Learn: Science, Statistics, and Getting it Right: Interactive Discussion of Common Problems
Tuesday, April 5, 2016 at 11:45 AM

Scientific Interest Group Networking Sessions & Poster Discussions

Tuesday, April 5, 2016 at (5:30 PM—7:30 pm, held concurrently)

- Biobanking
- Breast Cancer
- Club Hepatomania™ (Liver Pathobiology)
- Der Schadenklub (Cell Injury)
- Digital and Computational Pathology
- Environmental and Toxicologic Pathology
- Gene Expression
- Immunohistochemistry & Microscopy
- Inflammation/Immunopathology
- Molecular Diagnostic Pathology
- Neuropathology
- Regenerative Medicine and Stem Cells
- Vascular and Mucosal Pathobiology
- Veterinary and Comparative Pathobiology

ASIP Trainee Awards

Information & Application Deadlines

The following awards require submission of an abstract to an ASIP topic category at the Experimental Biology 2016 Meeting from an ASIP trainee member (undergraduate student, graduate/medical/veterinary student, pathology resident, postdoctoral fellow). For details on abstract submission, visit: www.asip.org/meetings/2016/abstracts.cfm

IMPORTANT – ALL TRAINEE APPLICANTS MUST FIRST APPLY FOR AN ASIP TRAINEE TRAVEL AWARD!

Once you apply for this award you may apply for other awards depending on your membership category and eligibility.

Abstract Submission Deadline: November 5, 2015

Award Application Deadline: November 5, 2015

■ 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. In addition to general ASIP trainee travel awards there will be an opportunity to apply for trainee travel awards for excellence in liver research, neoplasia, and cardiovascular research, but all applicants must first apply for the (general) ASIP trainee travel award. Abstracts will be selected for presentation in either poster sessions or in minisymposia.

■ 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 stipend, and complimentary meeting registration.

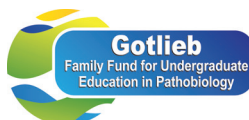
The EPIGT is a prestigious award presented to an ASIP trainee member who is a graduate student in a PhD training program, MD/PhD training program or MD training program who has excelled in investigative efforts in studying mechanisms of disease, as evidenced by an abstract submission to an ASIP topic 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 stipend, and complimentary meeting registration.

Candidates for the EPIT and EPIGT Awards are also considered for ASIP Merit Awards (\$1,250 stipend 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 International Trainee Travel Award*

ASIP members who are citizens of Group A Hinari countries will also be considered for the newly established ASIP International Trainee Travel Award, which is supported by the A. D. Sobel - ASIP Education Fund. Please identify yourself as a citizen of a Group A Hinari country during the ASIP Trainee Travel Award application process and you will automatically be considered.



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

The Gottlieb Family Fund for Undergraduate Education in Pathobiology will support an undergraduate student with a \$750 travel award to attend the ASIP 2016 Annual Meeting. Like the other ASIP trainee Travel Awards, an abstract must be submitted to an ASIP topic category at the annual meeting. Applicants must be Undergraduate Student Members of ASIP.



■ Under-Represented Groups (URG) Trainee Travel Awards

The FASEB MARC grant that funds Under-represented Group (URG) Trainee Travel Awards expires this year. We are reasonably confident that the funding will be extended, but at this time there is no guarantee. You will have an opportunity to identify yourself as a member of an Under-represented Group during the Trainee Travel Award application process. You must be a member of an NIH-recognized under-represented group to be eligible. If funding for URG becomes available, you will be considered. To expedite the processing of the URG Trainee Travel Award by FASEB, you must submit an extended abstract with your application.



■ 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.

ASIP Junior Faculty Awards

■ ASIP Junior Faculty Travel Award*

To promote the participation of early career investigators in scientific meetings and conferences, the American Society for Investigative Pathology is pleased to offer the ASIP Junior Faculty Travel Award. The Award recognizes the outstanding research being conducted by ASIP Regular and Next Century members who are employed as Junior Faculty (or equivalent) at institutions around the world.

Awards continued on next page

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

Awards, continued from page 4

Other Awards

■ 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

■ The ASIP-APSA Partnership Trainee Travel Award to attend the ASIP Annual Meeting at Experimental Biology

To promote the entry of young physician-scientists into the mainstream of the basic science community and to encourage the participation of young investigative pathologists in the ASIP Annual Meeting, ASIP is offering a special American Society for Investigative Pathology-American Physician Scientists Association

Partnership Trainee Travel Award of \$750 for trainee members of APSA to attend the Experimental Biology Meeting. The ASIP Program Committee will select the recipient based on the submitted scientific abstract to an ASIP topic category. The abstract will be selected for presentation in either poster sessions or in minisymposia.

■ Histochemical Society Awards

The Histochemical Society will offer a variety of awards to attend Experimental Biology. Full details of these awards will be available in the October 2015 issue of *ASIP Pathways* and will be on the Immunohistochemistry & Microscopy SIG webpage (<http://www.asip.org/SIGs/IHM/>).

EDUCATIONAL SESSIONS

Saturday, April 2, 2016, 8:30 AM - 11:30 AM

Course: Pathobiology for Basic Scientists: Metabolism Run Amok: Understanding Biochemical Pathways and their Pathologic Consequences in Cancer and Systems Biology

Chaired by Wendy Mars, PhD, Richard N. Mitchell, MD, PhD

Saturday, April 2, 2016, 11:45 AM - 1:45 PM

XVIth Annual Workshop on Graduate Education in Pathology: Integrating Clinical and Anatomic Pathology

Chaired by Donald Karcher, MD, Monte Willis, MD, PhD

Tuesday, April 5, 2016, 9:30 AM - 2:30 PM

High School Teacher Session: Scientific Sleuthing of Human Disease for Undergraduate Students and High School Teachers and Students

Chaired by Kari Nejak-Bowen, MBA, PhD, Martha B. Furie, PhD

Tuesday, April 5, 2016, 11:45 AM - 1:45 PM

Lunch and Learn: Science, Statistics, and Getting it Right: Interactive Discussion of Common Problems

Chaired by Danny A. Milner, Jr., MD

Scientific Program

SATURDAY, APRIL 2, 2016

Molecular and Cellular Basis of Disease: From Prevention to Cancer Metastasis: The Biology and Therapy of Breast Cancer Metastasis

8:30 AM - 11:30 AM

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

- **Targeting the Tumor Microenvironment in Breast Cancer**, Dipak Panigrahy, Beth Israel Deaconess Medical Center
- **Breast Cancer Brain Metastasis: Molecular Subtypes and Prognosis**, Shi Wei, University of Alabama at Birmingham School of Medicine
- **Mechanisms of Breast Cancer Metastasis and Opportunities for Intervention**, Brunhilde H. Felding, The Scripps Research Institute
- **Metabolism in Breast Cancer Brain Metastasis**, Santosh Kesari, University of California, San Diego School of Medicine



Course: Pathobiology for Basic Scientists: Metabolism Run Amok: Understanding Biochemical Pathways and their Pathologic Consequences in Cancer and Systems Biology

8:30 AM - 11:30 AM

Sponsored by the ASIP Education Committee
Chairs: Wendy Mars, PhD, Richard N. Mitchell, MD, PhD

- **How the Microbiome Influences Human Metabolism**, Gary Siuzdak, The Scripps Research Institute
- **Obesity, Metabolic Syndrome, and Non-Alcoholic Steatohepatitis**, David E. Cohen, Harvard Medical School
- **Tumor Metabolic Pathways; Warburg Effect (Glioblastoma as a Model)**, Paul S. Mischel, UC - San Diego School of Medicine

XVth Annual Workshop on Graduate Education in Pathology: Integrating Clinical and Anatomic Pathology
11:45AM - 1:45PM

Sponsored by the ASIP Education Committee
Chairs: Donald Karcher, MD, Monte S. Willis, MD, PhD

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

Highlights: Graduate Student Research in Pathology

1:30PM - 4:00PM

Sponsored by the ASIP Committee for Career Development and Diversity

Chairs: Chad Walesky, PhD, Titus A. Reaves, PhD

MERITORIOUS AWARD LECTURE

ASIP YOUNG SCIENTIST LEADERSHIP AWARD

LECTURE: Approaching Amyotrophic Lateral Sclerosis from Cellular, System and Technological Angles

3:35 PM - 3:50 PM (presented during the Highlights: Graduate Student Research in Pathology Session)

Awardee: **Christi Kolarcik, PhD**

Molecular and Cellular Basis of Disease: From Prevention to Cancer Metastasis

2:00 PM - 4:45 PM

Sponsored by the ASIP Tumor Microenvironment & Metastasis Scientific Interest Group

Chairs: Piyali Dasgupta, PhD, Mary J.C. Hendrix, PhD

- **Biology and Therapy of Cancer Metastasis**, Isaiah J. Fidler, University of Texas/MD Anderson Cancer Center
- **Origin and Evolution of Metastatic Traits in Breast Cancer**, Yibin Kang, Princeton University
- **Getting Across the Endothelial Gate: Mechanisms and Opportunities to Prevent Metastasis**, Luisa Iruela-Arispe, University of California, Los Angeles
- **Targeting the Plasticity of Aggressive Tumor Cells**, Mary J.C. Hendrix, Northwestern University Feinberg School of Medicine

ASIP Trainee & Student Welcome Reception

4:00 PM - 4:45 PM

Sponsored by the ASIP Committee for Career Development & Diversity

MERITORIOUS AWARD LECTURE

ASIP OUTSTANDING INVESTIGATOR AWARD

LECTURE: Making Progress Against Pancreatic Cancer – Where the Rubber Hits the Road

5:00 PM - 6:00 PM

Awardee: **Anirban Maitra, MBBS**

SUNDAY, APRIL 3, 2016

SIGN UP!

Committee for Career Development & Diversity Workshop and Breakfast: Career-Choice Opportunities in Science

7:00 AM - 9:00 AM

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

Sponsored by the ASIP Committee for Career Development & Diversity

Chairs: Christi Kolarcik, PhD, Joseph Arboleda-Velasquez

- **Introduction**, Christi Kolarcik, University of Pittsburgh
- **Technology/Entrepreneur/Start-Ups**, Charles A. Parkos, University of Michigan
- **Scientific Publishing**, Audra Cox, *The American Journal of Pathology*
- **Science Administration (Non-profits, Government, For-profits)**, Mark E. Sobel, American Society for Investigative Pathology
- **Science Public Policy**, Yvette Seger, Federation of American Societies for Experimental Biology
- **Molecular Diagnostics/Clinical Chemistry**, Gregory J. Tsongalis, Dartmouth-Hitchcock Medical
- **Closing Remarks**, Joseph Arboleda-Velasquez, Schepens Eye Research Institute



SCVP Symposium: Cytokine Signaling in the Heart

8:30 AM - 11:30 AM

Sponsored by ASIP and the Society for Cardiovascular Pathology

Chairs: James R. Stone, MD, PhD, Jonathan Homeister, MD, PhD

■ **NLRP3 in Inflammasome Inhibition in Acute Myocardial Injury**, Antonio Abbate, Virginia Commonwealth University Medical Center

■ **Inflammatory Cytokines Induce a Novel Cardioprotective Zing Finger Protein, MCPIP**, Pappachan E. Kolattukudy, University of Central Florida

■ **The Role of TGF-beta Signaling in Cardiac Remodeling**, Nikolaos G. Frangogiannis, Albert Einstein Medical Center

■ **The Role of Cardiac Innate Immunity in Cardiac Injury and Repair**, Douglas L. Mann, Washington University in St. Louis School of Medicine

Liver Pathobiology Workshop: Liver Injury, Inflammation, and Tumorigenesis: Implications in Cancer Prevention and Treatment

8:30 AM - 11:30 AM

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

Chairs: Satdarshan Paul S. Monga, MD, Xin Chen, PhD

■ **Hepatic Ploidy**, Andrew Duncan, University of Pittsburgh

■ **FXR/HNF4a and Cancer**, Udayan M. Apte, University of Kansas Medical Center

■ **Cholangiocarcinoma**, Tong Wu, Tulane University Health Sciences Center

■ **Adherens Junction Defects and Cancer**, Satdarshan Paul S. Monga, University of Pittsburgh

■ **Progenitors and Cancer**, Ekihiro Seki, University of California, San Diego School of Medicine

■ **Hepatic Fibrosis and Cancer**, Bernd Schnabl, University of California, San Diego



HCS Symposium: The 3D Brain: From Diffusion MRI to Ultrastructure

8:30 AM - 11:30 AM

Sponsored by the ASIP Immunohistochemistry & Microscopy Scientific Interest Group and

The Histochemical Society

Chair: Douglas Rosene, PhD



ASMB Lecture: The Matricellular Protein Thrombospondin 1 in the Myeloma Microenvironment

8:30 AM - 9:30 AM

Sponsored by ASIP and the American Society

for Matrix Biology

■ **The Matricellular Protein Thrombospondin 1 in the Myeloma Microenvironment**, Joanne E. Murphy-Ullrich, University of Alabama at Birmingham

XVth Annual ASIP/AAA Career Development and Mentoring Program and Lunch: How to Network Efficiently and Choose A Career Path

11:45 AM - 1:45 PM

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



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

Chairs: Diane Bielenberg, PhD, Jacqueline Jones-Triche, PhD

■ **Introduction**, Diane Bielenberg, Harvard Medical School, Children's Hospital

■ **Tips and Tools for Effective Networking**, Linda McManus, University of Texas Health Science Center

■ **Speed Networking Format**, Jacqueline Jones-Triche, University of Michigan

Speed Networking

Table 1: Technology/Entrepreneur/Start-Ups, Charles A. Parkos, MD, PhD

Table 2: Scientific Editor, Audra Cox, PhD

Table 3: Science Administration, Mark E. Sobel, MD, PhD

Table 4: Public Policy, Yvette Seger, PhD

Table 5: Molecular Diagnostics/Clinical Chemistry, Gregory J. Tsongalis, PhD

Table 6: Scientific Consulting, Cecelia Yates, PhD

Table 7: Biotechnology, Cary Austin, MD, PhD

Table 8: Contract Research Organization, TBD

Table 9: Government Positions, Elizabeth Unger, MD, PhD

Table 10: Teaching/Academic Administration, Vallie Holloway, PhD

Host Pathogen Interactions

2:00 PM - 5:00 PM

Chairs: Danny A. Milner, Jr., MD, MSc, Asma Nusrat, MD

Molecular and Cellular Foundations of Glial Oncogenesis: Hints for Prevention and Therapy

2:00 PM - 5:00 PM

Chairs: Warren Tourtellotte, MD, PhD,

Elizabeth Whitley, DVM, PhD

■ **Targeting Developmental Pathways in Glioblastoma**, Santosh Kasari, University of California, San Diego

■ **Neuronal Activity Promotes Glioma Growth**, Michelle Monje Deiseroth, Stanford School of Medicine

■ **Hide and Seek: A Surprising Role for Extrachromosomal EGFR Mutations in Glioblastoma Pathogenesis**, Paul Mischel, University of California, San Diego

■ **Therapeutic Hypothesis Testing With Patient Derived Brain Tumor Xenograft Models**, C. David James, Northwestern University Feinberg School of Medicine

Cell Injury Workshop: Proteotoxicity and Cell Injury

2:00 PM - 4:45 PM

Sponsored by the ASIP Cell Injury Scientific Interest Group

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

■ **Proteotoxicity and Cell Injury**, Monte S. Willis, MD, PhD

■ **Proteotoxicity and the Role of the Unfolded Protein Response**, Luke Wiseman, The Scripps Research Institute

■ **Role of Amylin in Neuron Proteotoxicity**, Florin Despa, University of Kentucky

■ **The Interplay Between Autophagy and the Ubiquitin-Proteasome System in Cardiac Proteotoxicity**,

Xuejun Wang, University of South Dakota

■ **Short invited talks selected from abstract submissions!**

ROUS-WHIPPLE AWARD LECTURE: The Microscope as a Tool for Disease Discovery: A Voyage Through the Eyes of a Hematopathologist
5:00PM - 6:00PM
Awardee: Elaine Jaffe, MD

MONDAY, APRIL 4, 2016

Membership Town Hall

7:00 AM - 8:00 AM

Sponsored by the ASIP Membership Committee

Join us for an informal discussion on the future of ASIP. Come and share your thoughts and ideas with the leadership of ASIP!



ACVP Symposium: Illuminating Pathobiology: Imaging Across Scale

8:30 AM - 11:30 AM

Sponsored by the ASIP Veterinary and Comparative Pathology Scientific Interest Group

and the American College of Veterinary Pathologists
Chairs: Ruth Sullivan, VMD, PhD, Stacey Fossey, DVM, PhD, Robert Johnson, DVM, PhD, DACVP

- **Translational Imaging Techniques**, Mike Rosol, Novartis AG
- **In Vivo Metabolic Imaging to Discern Tumor and Stromal Cells in the Breast Tumor Microenvironment**, Joseph Szulczewski, University of Wisconsin - Madison
- **Living Imaging of the Mouse Bone Marrow by Intravital Microscopy**, Charles Lin, Harvard University
- **Multiscale Imaging of Cellular Microenvironments**, Kevin Eliceiri, University of Wisconsin - Madison
- **Manual Pathology Scoring - The Gold-Standard Paradox**, Famke Aeffner, Flagship Biosciences

ASIP COTRAN EARLY CAREER INVESTIGATOR AWARD LECTURE: How Metabolism Regulates Retinal Function: Implications for Prevention of Disease

8:30 AM - 9:30 AM (Presented during the Blood Vessel Club™ Session)

Awardee: Magali Saint-Geniez, PhD



Blood Vessel Club™: Angiogenesis in Organ Development and Function

8:30 AM - 11:30 AM

Chairs: Diane Bielenberg, PhD, Karen Moulton, MD

- **ASIP COTRAN EARLY CAREER INVESTIGATOR AWARD LECTURE: How Metabolism Regulates Retinal Function: Implications for Prevention of Disease**, Magali Saint-Geniez, Schepens Eye Research Institute
- **Molecular Regulation of Vascular Permeability**, Calvin Kuo, Stanford University School of Medicine
- **Notch Signaling in Arteriovenous Differentiation and Disease**, Rong Wang, University of California, San Francisco
- **Short invited talks selected from abstract submissions!**



SIPMeT Symposium: Sex Steroid Hormones Action in Metabolism, Differentiation, and Damage Response

8:30 AM - 11:30 AM

Sponsored by ASIP and the Società Italiana di

Patologia e Medicina Traslazionale /Italian Society of Pathology and Translational Medicine

Chairs: Antimo Migliaccio, MD, Arlin Rogers, DVM, PhD

Stowell Symposium/Trends in Experimental Pathology: The Science of Health Disparities: New Paradigms, Approaches and Impact on Disease Prevention

8:30 AM - 11:30 AM

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

Chairs: Kevin Gardner, MD, PhD, Clayton Yates, PhD

- **KEYNOTE LECTURE: What Creates Health Disparities?** Paula Braveman, University of California, San Francisco
- **Analysis of Tumor Biology to Advance Cancer Health Disparity Research**, Stefan Ambs, NCI/NIH
- **Epigenetics in Cancer Health Disparities**, Clayton Yates, Tuskegee University
- **Can Genome Sciences Help Increase Our Understanding of the Role of Biology in Cancer Health Disparities? Towards Improvements in Clinical Management of Cancer Through Precision Medicine**, John Carpten, Translational Genomics Research Institute

ASIP Presidential Symposium: Molecular Pathogenesis of Triple-Negative Breast Cancer: Implications for Prevention and Therapy

2:00 PM - 4:45 PM

Chair: William B. Coleman, PhD, ASIP President

- **Target Discovery Through Next-Gen Sequencing of Triple-Negative Breast Cancer**, Gregory J. Tsongalis, Dartmouth-Hitchcock Medical
- **Identification of Drivers of Triple-Negative Breast Cancer**, Jorge S. Reis-Filho, Memorial Sloan Kettering Cancer Center
- **Exploitation of Molecular Features to Personalize Therapeutic Approaches in Triple-Negative Breast Cancer**, Carey K. Anders, University of North Carolina Lineberger Comprehensive Cancer Center

ASIP Membership Business Meeting & Awards Presentation

5:00 PM - 6:30 PM

Chair: William B. Coleman, PhD

ASIP Awards Reception

6:30 PM - 8:00 PM

TUESDAY, APRIL 5, 2016

Autophagy: Basic Mechanisms and Pathophysiology

8:30 AM - 11:30 AM

Chairs: Wen-Xing Ding, PhD, Mark J. Czaja, MD

- **Cellular Nutrient Signaling and Cell Growth Regulation**, Kun-Liang Guan, University of California, San Diego School of Medicine
- **Mechanisms of Selective Autophagy of Subcellular Organelles**, Suresh Subramani, University of California, San Diego School of Medicine
- **Autophagy in Innate Immunity and NASH**, Mark Czaja, Albert Einstein College of Medicine
- **Autophagy in Pancreatitis**, Anna S. Gukovskaya, University of California, Los Angeles
- **Autophagy and Drug-Induced Liver Injury**, Wen-Xing Ding, University of Kansas Medical Center
- **Autophagy in Cardiovascular Diseases**, Roberta A. Gottlieb, Cedars-Sinai Heart Institute

Structure and Regulation of Intercellular Junctions: Quest for New Molecules and Mechanisms

8:30 AM - 11:30 AM

Supported by an unrestricted educational grant from *Tissue Barriers*, a Taylor and Francis Publication

Chairs: Andrei Ivanov, PhD, Asma Nusrat, MD

■ **Tension and the Regulation of Endothelial Junctions**,

Asrar B. Malik, University of Illinois at Chicago

■ **Regulation of Adherens Junction Protein Assemblies by Mechanical Force**, William Weis, Stanford University School of Medicine

■ **Desmogleins as Signaling Hubs to Integrate Cell Adhesion and Cell Behavior**, Jens Waschke, Anatomical Institute of the University of Munich

■ **New Insights into Functional Coupling of Actin to the Tight Junction Barrier**, James M. Anderson, NIH



Society of Toxicologic Pathology Symposium: Aquatic Toxicology and Lessons for Prevention of Disease

8:30 AM - 11:30 AM

Sponsored by the ASIP Environmental and

Toxicologic Scientific Interest Group and the Society of Toxicologic Pathology

Chair: Elizabeth Galbreath, PhD, DVM

■ **Oval Cells**, Bryon Petersen, University of Florida

■ **Hepatocyte-to-Biliary Transition, and Vice Versa**,

George K. Michalopoulos, University of Pittsburgh

■ **Beta-catenin in Transdifferentiation**, Kari Nejak-Bowen, University of Pittsburgh

■ **Lineage Tracing**, Holger Willenbring, University of California, San Francisco

■ **Progenitors in Fibrosis and Cancer**, Tatiana Kisseleva,

University of California, San Diego

Emerging Strategies to Resolve Inflammation

2:00 PM - 5:00 PM

Chairs: Charles N. Serhan, PhD, Karsten Gronert, PhD

■ **Novel Mediators and Mechanisms in Resolution of Inflammation**, Charles N. Serhan, Brigham & Women's Hospital

■ **Sex Specific Regulation of Tissue PMN and Lipid Mediator Circuits Controls T Cell Responses in the Eye**,

Karsten Gronert, University of California - Berkeley

■ **Mesenchymal Stem Cells May Promote the Resolution of Acute Lung Injury**,

Michael A. Matthay, University of California, San Francisco

■ **Resolving Vascular Injury: Translational Implications for Cardiovascular Intervention**,

Michael S. Conte, University of California, San Francisco

Lunch and Learn: Science, Statistics, and Getting it Right: Interactive Discussion of Common Problems

11:45AM - 1:45PM

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

Sponsored by the ASIP Education Committee

Chair: Danny A. Milner, Jr., MD

An interactive lunch session will include an opportunity for participants to review one of 5 case vignettes featuring a common problem in scientific research statistics followed by a presentation and discussion with statistical faculty. The Dos, Don'ts, and Pitfalls of these methods will be highlighted and discussed.

SIGN UP!

Scientific Interest Group Networking Sessions and Poster Discussions

Tuesday, April 5, 2016

5:30 PM - 7:30 PM

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)
- Digital and Computational Pathology
- Environmental and Toxicologic Pathology
- Gene Expression
- Immunohistochemistry & Microscopy
- Inflammation/Immunopathology
- Molecular Diagnostic Pathology
- Neuropathology
- Regenerative Medicine and Stem Cells
- Vascular and Mucosal Pathobiology
- Veterinary and Comparative Pathobiology

SIGN UP!

Scientific Sleuthing of Human Disease for Undergraduate Students and High School Teachers and Students

9:30 AM - 2:30 PM

Sponsored by the ASIP Education Committee

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

Liver Pathobiology Symposium: Liver Progenitors in Health and Disease

2:00 PM - 5:00 PM

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

Chairs: Kari Nejak-Bowen, MBA, PhD, Holger Willenbring, MD, PhD

WEDNESDAY, APRIL 6, 2016

Workshop: Long Non-Coding RNA

8:30 AM - 11:30 AM

Chairs: Thomas Giordano, MD, PhD, Anindya Dutta, MBBS, PhD

PathFinders – A Meeting Mentoring Program from ASIP!

The ASIP Committee for Career Development and Diversity has created PathFinders, a mentoring opportunity for first-time attendees to the ASIP Annual Meeting (at Experimental Biology). This program was created to offer guidance and build camaraderie between ASIP trainees and regular members and offer guidance to trainees who attend the meeting without their institutional advisor. By leveraging the guidance and expertise of current ASIP members, this program will allow trainees to be introduced to the Society on a more personal level, and to maximize their conference experience.

Trainees will be matched with an ASIP mentor (a Junior or Senior level ASIP member who is actively engaged with the organization), based on their interests and/or availability. In return, program participants will be asked to participate in the graduate trainee session reception and have official pictures taken, which will be included in the trainee newsletter.

If you are interested in participating in this program because you will be a first-time or less-experienced attendee at the ASIP 2016 Annual Meeting in San Diego, please take a moment to contact Constanza Gonzalez (cgonzalez@asip.org) and she will send you a short questionnaire. The results will help us make a suitable match to ensure your optimal guidance and participation. More in-depth information will be sent once pairing has been completed with your mentor.

What can you expect from your mentor?

- You will be notified about the mentor pairing and will be given your mentor's contact information
- You will have a certain time frame to contact your mentor before the annual meeting
- You and your mentor can decide how frequent or in what way (via phone or e-mail, etc.) communication will occur before the annual meeting; at least one e-mail communication prior to the meeting is required
- You and your mentor are required to meet at least once face-to-face at the meeting
- Attendance at the graduate reception/session with your mentor will be required as well so we can take a picture
- You will also be asked to complete a write-up of your experience to be published in the Trainee Newsletter after the annual meeting

Looking for a Few Good Mentors!

We are also recruiting Mentors for the 2016 Program! If you would like to participate, contact Constanza Gonzalez (cgonzalez@asip.org).

F-Troop...2.0: The Fellowship Grant Mentor Program

Did you enjoy ASIP's Program, F-Troop? Are you looking for guidance on the Fellowship Grant writing process? We can help! ASIP is offering an opportunity at the ASIP 2016 Annual Meeting at Experimental Biology for you to get personalized feedback from an established researcher. One-on-one meetings will be conducted at the ASIP 2016 Annual Meeting in San Diego. You will have the opportunity beforehand to communicate with your assigned Fellowship Grant Mentor to decide what assistance would be most valuable on-site. Fellowship Grant Mentors can assist with you with a grant you are currently writing or provide general insight into the process of preparing your fellowship grant application. If you would like to be assigned a mentor and a time to meet with them at the ASIP 2016 Annual Meeting, please contact Constanza Gonzalez (cgonzalez@asip.org).

Are you an ASIP Member with Fellowship Grant Experience? We Need You!

If you consider yourself to be an expert on Fellowship Grant preparation and would like to participate in F-Troop...2.0 as a Fellowship Grant Mentor, please contact Constanza Gonzalez (cgonzalez@asip.org).

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 formats. Members receive online access with an option to add a print subscription at a substantially reduced rate. ASIP Regular member corresponding

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■ **The Journal of Molecular Diagnostics (JMD)** Published six times/year in print and online formats. Members receive online access with an option to add a print subscription at a substantially reduced rate. ASIP Regular

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■ **Peer Networking**

■ Eligibility for Awards and Honors

■ Eligibility to apply for FREE CME credit at the ASIP Annual Meeting

■ **Exclusive FREE Access to the ASIP Digital Web Library**, featuring presentations and educational materials from previous ASIP Meetings and Courses!

■ Career Opportunities & Job Listings at: 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 120,000 members of the 27 FASEB member societies

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

*Author must be an ASIP Regular member in good standing at the time of article submission. Please consult the AJP and/or JMD Instructions for Authors for more information. This benefit is not available to Next Century, Trainee, Associate, or Emeritus members.

PERSONAL PROFILE

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:
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 DVM Other _____

Gender (Optional Information):
 Male Female

Ethnicity (Optional Information):
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 Black/African American Caucasian
 Hispanic or Latino Pacific Islander or Alaska Native
 Do not wish to Disclose
 Other _____

Scientific Interest Groups

Please check all that apply:
 Biobanking
 Breast Cancer
 Cell Injury
 Digital and Computational Pathology
 Environmental and Toxicologic Pathology
 Gene Expression
 Immunohistochemistry and Microscopy
 Inflammation/Immunopathology
 Liver Pathobiology
 Molecular Diagnostic Pathology
 Neoplasia/Growth Regulation
 Neuropathology
 Pulmonary Pathobiology
 Regenerative Medicine and Stem Cells
 Tumor Microenvironment and Metastasis
 Vascular and Mucosal Pathobiology
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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 Print (2015)

The American Journal of Pathology (AJP)

\$50 - Print Upgrade (USA)
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The Journal of Molecular Diagnostics (JMD)

\$40 - Print Upgrade (USA & International)

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
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Exp Date _____

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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, web: www.asip.org/apply/

Applications are reviewed and subject to approval in accordance with the ASIP Bylaws. Your membership benefits will commence on the first day of the month following approval of your application. Your membership will be valid for 12 months from the date of commencement. Please complete and return this application to the ASIP Membership Department.

Have questions about this application? Email membership@asip.org

EBCMAILER



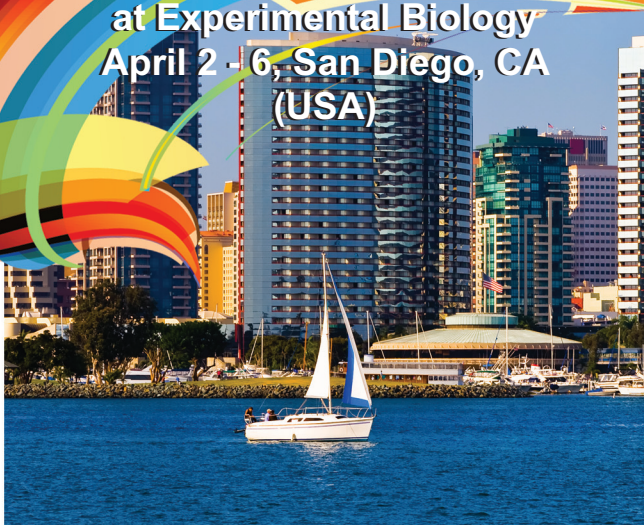
American Society for
Investigative Pathology

9650 Rockville Pike

Bethesda, MD 20814-3993 (USA)

ASIP 2016 Annual Meeting

at Experimental Biology
April 2 - 6, San Diego, CA
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www.asip.org/meetings/2016/awards.cfm

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