



American Society for Investigative Pathology

at



## 2018 Annual Meeting

April 21-25, 2018 | San Diego, CA

### SYMPOSIA AND WORKSHOP SESSIONS

#### SATURDAY, APRIL 21, 2018

##### Meet the Mentor Breakfast

(7:30 AM - 8:30 AM)

*Sponsored by the ASIP Committee for Career Development and Diversity*

Chaired: T. Parry, University of North Carolina

##### NextGen Science: New Discoveries of Graduate Students and Post-Doctoral Fellow Rising Stars

(8:30 AM - 11:30 AM)

*Sponsored by the ASIP Committee for Career Development and Diversity*

Chaired: T.A. Reaves, Medical University of South Carolina and E. Medina, University of Texas Health Science Center at San Antonio

##### Molecular and Cellular Basis of Cancer Symposium: EMT, An Ever-Changing Process of Cancer Progression

(8:30 AM - 11:30 AM)

Chaired: D. Stairs

- *Epithelial-Mesenchymal Plasticity in Carcinoma Metastasis*  
Jing Yang, PhD  
Moore's University of California, San Diego Cancer Center
- *Liver Microenvironment Regulates Metastasis and Chemoresistance*  
Alan Wells, MD, PhD  
University of Pittsburgh
- *NFκB Controls Twist2 in Esophageal Squamous Cancer*  
Douglas Stairs, PhD  
Penn State College of Medicine
- *Kaiso as a Master Regulator of EMT in Breast and Prostate Cancers*  
Clayton Yates, PhD  
Tuskegee University
- *Selective Autophagy in Mammary Carcinoma Differentiation and Metastasis*  
Jayanta Debnath, MD  
University of California, San Francisco

**XVIIIth Annual Workshop on Graduate Education in Pathology: Wellness for Students and Faculty**

(11:45 AM - 1:45 PM)

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

Chaired: W. Mars, University of Pittsburgh and B. Ducatman, Oakland University William Beaumont School of Medicine

- *Concepts in Wellness and Mindfulness in Training Programs*  
Rhonda Mason, LCSW  
San Diego, CA
- *Lessons Learned from Wellness Programs in Residency and Clinical Fellowships*  
Wesley Y. Naritoku, MD, PhD  
USC/LAC+USC Medical Center
- *Wellness in Research Training Programs*  
Alana Iglewicz, MD  
University of California, San Diego

**Molecular and Cellular Basis of Cancer: Breast Cancer and Gene Regulation Workshop: Ductal Carcinoma *In Situ* - Discerning Aggressive Versus Benign Disease Using Molecular Features**

(2:00 PM - 5:00 PM)

Chaired: P. Iannaccone, Northwestern University, D. Williams, University of North Carolina and Q. Yan, Yale School of Medicine

- *Transcription-Based Approaches to Identify Regulatory Networks in Cancer*  
Michael Green, MD, PhD  
University of Massachusetts Medical School
- *Chromatin Regulation of p53 in Cancer*  
Shannon Lauberth, PhD  
University of California, San Diego
- *Long-Range Chromatin Interactions in the Mammalian Genome*  
Bing Ren, PhD  
University of California, San Diego
- *Targeting Gene Transcription in Cancer*  
W. Lee Kraus, PhD  
University of Texas Southwestern Medical Center

**Blood Vessel Club™: Inflammation, Survival, and Death in Atherosclerosis**

(2:00 PM - 5:00 PM)

Chaired: J. Homeister, University of North Carolina and D. Karunakaran, University of Ottawa Heart Institute

- *Inflammation and Human Atherosclerosis*  
James R. Stone, MD, PhD  
Massachusetts General Hospital
- *Understanding Atherosclerosis Using Genetic Approaches in Mice*  
Aldons J. Lusis, PhD  
University of California, Los Angeles
- *RIP Kinases in Cardiometabolic Diseases*  
Denuja Karunakaran, PhD  
University of Ottawa Heart Institute
- *Regulation of T Cells in Cardiovascular Disease*  
Andrew Lichtman, MD, PhD  
Brigham & Women's Hospital

**SUNDAY, APRIL 22, 2018**

**Committee for Career Development & Diversity Workshop and Breakfast: Mentor/Mentee Relationship: a Two-Way Street**

(7:00 AM - 8:15 AM)

*Sponsored by the ASIP Committee for Career Development and Diversity*

Chaired: M. Preziosi, University of Pittsburgh and V. Contreras-Shannon, St. Mary's University

- *Introduction of the Mentor/Sponsor/Mentee Dynamics by the Moderator*  
Cecelia C. Yates, PhD  
University of Pittsburgh School of Nursing
- *Panel Discussion: Panelists Will Introduce Themselves with Attending Mentor/Mentee for 3-5 Minutes Followed by Q&A Session:*
  - Diane R. Bielenberg, PhD  
Harvard Medical School, Children's Hospital
  - Patricia A. D'Amore, PhD  
Schepens Eye Research Institute
  - Monte S Willis, MD, PhD, MBA  
University of North Carolina at Chapel Hill
  - Alan Wells, MD, PhD  
University of Pittsburgh
- *Concluding Remarks by the Moderator*  
Cecelia C. Yates, PhD

**Liver Pathobiology Workshop: Hepatobiliary Disease**

(8:30 AM - 11:30 AM)

Chaired: K. Nejak-Bowen, University of Pittsburgh

- *Adiponectin-FGF15/19 Signaling in Alcoholic Fatty Liver Disease*  
Min You, PhD  
Northeast Ohio Medical University
- *Neuroendocrine Regulation of Biliary Damage and Liver Fibrosis*  
Gianfranco Alpini, PhD  
Texas A&M Health Science Center
- *Polypliod Hepatocytes in Liver Injury and Repair*  
Andrew W. Duncan, PhD  
University of Pittsburgh
- *Bile Acids and Sphingosine-1 Phosphate Receptor 2 in Cholestatic Liver Injury*  
Huiping Zhou, PhD  
Virginia Commonwealth University
- *Mechanisms Underlying Fatty Liver Disease*  
Jacquelyn Maher, MD  
University of California, San Francisco
- *Endogenous Mechanisms Limiting Liver Fibrosis*  
Chandrashekhar R. Gandhi, PhD  
Cincinnati Children's Hospital Medical Center

**Molecular and Cellular Basis of Cancer: Pathobiology Course for Research Scientists: Infectious Pathogens and Cancer**

(8:30 AM - 11:30 AM)

*Sponsored by the ASIP Education Committee*

Chaired: W.B. Coleman, University of North Carolina and D. Bielenberg, Boston Children's Hospital

- *Role of MyD88 in Helicobacter Infection-Driven Gastric Carcinogenesis*  
Marygorret Obonyo, PhD  
University of California, San Diego
- *Human Papillomavirus in Oropharyngeal Cancer*  
Kathryn Gold, MD  
University of California, San Diego
- *Viral Mechanisms in Primary Liver Cancer*  
Satdarshan Paul P. Monga, MD  
University of Pittsburgh
- *Hepatitis C Virus Vaccine Development*  
Mansun Law, PhD  
Scripps Research Institute

**VAMP Symposium: Inflammation, Immunopathology, and Mucosal Disease Mechanisms**

(8:30 AM - 11:30 AM)

Chaired: A. Nusrat, University of Michigan and F.W. Luscinskas, Brigham & Women's Hospital

- *Monocyte Subsets in Cancer Metastasis*  
Catherine C. Hedrick, PhD  
La Jolla Institute for Allergy and Immunology
- *Microbiome and Immune Function*  
Nicholas W. Lukacs, PhD  
University of Michigan
- *Understanding CD47 – SIRP $\alpha$  Interaction in Adaptive Immune Cell Function*  
Francis W. Luscinskas, PhD  
Brigham & Women's Hospital
- *Annexin A1 Paradigm in Resolving Inflammation and Promoting Repair*  
Mauro Perretti, PhD  
Queen Mary University of London

**XVIIIth Annual ASIP/AAA Career Development and Mentoring Program and Lunch: The IDP: Highway to Success**

(11:45 AM - 1:45 PM)

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

Chaired: A. Duncan, University of Pittsburgh and N. Rutledge, Northwestern University

- *Introduction*  
Andrew W. Duncan, PhD  
University of Pittsburgh
- *How to Write, Revise and Adapt Your Most Effective IDP*  
Elaine L. Bearer, MD, PhD  
University of New Mexico Health Science Center
- *Testimonials: Senior Trainees Share Personal Experiences with their IDP*
  - Nakisha S. Rutledge, BSc  
Northwestern University

- Zariel Johnson, PhD  
University of Pittsburgh
- Chad M. Walesky, PhD  
Brigham and Women's Hospital/Harvard Medical School
- *Interactive Table Sessions: Attendees will rotate through tables hosted by mentors who will help attendees write their first IDP or edit/improve an existing IDP*
- *Wrap-Up*  
Andrew W. Duncan, PhD  
University of Pittsburgh

### **Symposium: Cellular Adaptive Response in Tissue Injury, Tumorigenesis and Cancer Progression**

(2:00 PM - 5:00 PM)

Chaired: W-X. Ding, University of Kansas Medical Center and L. Wang, University of Connecticut

- *Role of p62 in NASH-Mediated Liver and Pancreatic Tumorigenesis*  
Michael Karin, PhD  
University of California, San Diego
- *Autophagy and mTOR in Liver Tumorigenesis*  
Wen-Xing Ding, PhD  
University of Kansas Medical Center
- *Role of SHP2/PTPN11 in Liver Metabolism and Tumorigenesis*  
Geng-Sheng Feng, PhD  
University of California, San Diego
- *Mitochondria Metabolic Reprogramming in Hepatic Apoptosis and Injury*  
Li Wang, PhD  
University of Connecticut
- *ER Stress in Pancreatitis*  
Aurelia Lugea, PhD  
University of California, Los Angeles
- *Mitochondrial Stress in Drug-Induced Liver Injury*  
Neil Kaplowitz, MD  
University of Southern California

### **Presidential Symposium: Inflammation Knows No Borders**

(2:00 PM - 5:00 PM)

Chaired: D. Remick, Boston University School of Medicine

- *Host — Pathogen Interactions in the Nematode C. elegans*  
Emily Troemel, PhD  
University of California, San Diego
- *Mild Traumatic Brain Injury Augments Innate Immunity*  
Daniel G. Remick, MD  
Boston University School of Medicine

### **ASIP Rous-Whipple Award Lecture**

(4:00 PM - 5:00 PM)

- *Decoding Novel Resolution Mediators & Mechanisms in Infectious Inflammation and Tissue Regeneration*  
Charles N. Serhan, PhD  
Brigham & Women's Hospital

## **MONDAY, APRIL 23, 2018**

### **ASIP Town Hall Meeting and Breakfast**

(7:00 AM - 8:30 AM)

Chaired: L. McFadden, ASIP

### **HCS Symposium: Imaging Biometals in Disease**

(8:30 AM - 10:30 AM)

*Sponsored by ASIP Immunohistochemistry & Microscopy Scientific Interest Group and The Histochemical Society*

Chaired: M. Barroso, Albany Medical Center

- *Three-Dimensional Primary Enteroids as an Experimental System to Study Copper Homeostasis in the Intestine*  
Svetlana Lutsenko, PhD  
Johns Hopkins University
- *Moving Metals*  
Marianne Wessling-Resnick, PhD  
Harvard T.H. Chan School of Public Health
- *Heme Trafficking from the Ground-Up*  
Iqbal Hamza, PhD  
University of Maryland

### **Cell Injury Workshop: Tumor-Associated Parallels with Fibrosis**

(8:30 AM - 11:30 AM)

Chaired: A. Wells, University of Pittsburgh

- *Tumors: The Wounds that Won't Stop Healing*  
Alan Wells, MD, PhD  
University of Pittsburgh  
*Targeting CD109 in Fibrosis and Cancer Metastasis*  
Anie Philip, PhD  
McGill University
- *An Evolutionarily Conserved Pathway for Epithelial Repair*  
Bogi Andersen, MD  
University of California, Irvine

### **Journal of Histochemistry & Cytochemistry Lecture**

(10:30 AM - 11:30 AM)

*Sponsored by ASIP Immunohistochemistry & Microscopy Scientific Interest Group and The Histochemical Society* Chaired: S. Hewitt, National Cancer Institute, NIH

- *Targeting Neonatal Fc Receptor (FcRn) to Modulate IgG Dynamics*  
E. Sally Ward, PhD  
Texas A&M Health Science Center

### **Symposium: The Bridge Between Liver Injury and Regeneration**

(2:00 PM - 5:00 PM)

Chaired: U. Apte, University of Kansas Medical Center

- *Liver Injury and Regeneration: Two Sides of the Same Coin*  
Udayan M. Apte, PhD  
University of Kansas Medical Center
- *Role of Coagulation System in Liver Injury and Regeneration*  
James Luyendyk, PhD  
Michigan State University

- *Mechanisms of Liver Regeneration*  
George K. Michalopoulos, MD, PhD  
University of Pittsburgh
- *Mechanisms of Injury and Regeneration in Fibrotic Livers*  
Tatiana Kisseleva, MD, PhD  
University of California, San Diego
- *Injury-Regeneration Dynamics in NASH*  
Ariel E. Feldstein, MD  
University of California, San Diego
- *The Role of the HDC/Histamine/HR Axis during Biliary Regeneration and Liver Repair*  
Heather Francis, PhD  
Texas A&M Health Science Center

### **Symposium: Contributions of Inflammation and Gliosis to Neurological Dysfunction**

(2:00 PM - 5:00 PM)

Chaired: C. Kolarcik, University of Pittsburgh and J. Otero, Ohio State University

- *Placental Pathology and Brain Inflammation*  
Mana Parast, MD, PhD  
University of California, San Diego
- *Astrocyte Regulation of Autonomic Function*  
Jose Otero, MD, PhD  
Ohio State University
- *Blood Brain Barrier and Inflammation/Gliosis*  
Richard Daenman, PhD  
University of California, San Diego
- *Glial Biology*  
Nikola Allen, PhD  
Salk Institute

### **TUESDAY, APRIL 24, 2018**

#### **ASIP Cotran Early Career Investigator Award Lecture**

(8:30 AM - 9:30 AM)

- *T-cell Immune Responses and Cardiotropism in Heart Failure*  
Pilar Alcaide, PhD  
Tufts University School of Medicine Medical School

#### **SCVP Symposium: Non-Conventional Players in Heart Disease**

(8:30 AM - 11:30 AM)

*Sponsored by ASIP and the Society for Cardiovascular Pathology*

Chaired: J.R. Stone, Massachusetts General Hospital and T. Parry, University of North Carolina

- *Cardiomyocytes Initiate Inflammation and Contribute to Remodeling in Non-ischemic Heart Disease through the Activity of CaM Kinase II*  
Joan Heller Brown, PhD  
University of California, San Diego
- *Differential Cellular Impact of BAR signaling on Cardiac Function and Repair*  
Douglas Tilley, PhD  
Temple University
- *Mitochondrial Quality Control in Heart Failure*  
Asa Gustafsson, PhD  
University of California, San Diego

### **ACVP Symposium: Vector-Borne Diseases: Bridging Scale**

(8:30 AM - 11:30 AM)

*Sponsored by ASIP and the American College of Veterinary Pathologists*

Chaired: A.S. Davis, Kansas State University and N. Gottdenker, University of Georgia College of Veterinary Medicine

- *Tissue and Cellular Tropism of Rift Valley Fever Virus in Sheep*  
Lieza Odendaal, BVSc, BVSc (Hons), MSc (Vet Sc)  
University of South Pretoria
- *Virus - Vector - Host Interactions in Vector-Borne Diseases*  
Barbara Drolet, PhD  
Agricultural Research Service, USDA
- *Local Scale Transmission and Control of Zika Virus in Brazil*  
Fernando Abad-Franch  
FIOCRUZ, Belo Horizonte, Brazil
- *Socioeconomic and Ecological Interactions at the Landscape Scale Impacting American Cutaneous Leishmaniasis Transmission in Central America*  
Luis Fernando Chaves  
Instituto Conmemorativo Gorgas de Estudios de la Salud and University of Costa Rica
- *Experimental Approaches to Studying Impacts of Global Climate Change on Mosquito Borne Disease Transmission*  
Courtney Murdock, PhD  
University of Georgia College of Veterinary Medicine

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

(9:30 AM - 2:30 AM)

*Sponsored by the ASIP Education Committee*

Chaired: K. Nejak-Bowen, University of Pittsburgh and M.B. Furie, Stony Brook University

- *Welcome and Introductions*  
Kari Nejak-Bowen, MBA, PhD  
University of Pittsburgh
- *Menacing Microbes: The Threat of Bioterrorism*  
Martha B. Furie, PhD  
Stony Brook University
- *Smoking-Related Lung Disease in 3D: Not Your Standard Lecture*  
Dani S. Zander, MD  
University of Cincinnati Medical Center
- *Stem Cells: A Case of Dr. Jekyll and Mr. Hyde*  
Satdarshan Paul P. Monga, MD  
University of Pittsburgh

### **Lunch and Learn: Science, Statistics and Getting It Right**

(11:45 AM - 1:45 PM)

*Sponsored by the ASIP Education Committee*

An interactive lunch session will include an opportunity for participants to review case vignettes featuring common problems in scientific research statistics followed by a presentation and discussion with statistical faculty.

- Danny A. Milner, MD, MSc(Epi)  
American Society for Clinical Pathology



**SIPMET Symposium: Immunopathogenesis of Cancer - From Basic Knowledge to Markers for Cancer Diagnosis and Therapeutics**

(2:00 PM - 5:00 PM)

*Sponsored by ASIP and the Società Italiana di Patologia e Medicina Traslazionale /Italian Society of Pathology and Translational Medicine*

Chaired: M. Locati, University of Milan

- *Leveraging the Immune System in the War on Cancer*  
Donna E. Hansel, MD, PhD  
University of California, San Diego
- *Immune Editing and Surveillance in Breast Cancer*  
Jack Bui, MD, PhD  
University of California, San Diego
- *Activation and Biological Properties of Tumor Associated Macrophages*  
Massimo Locati, MD  
University of Milan

**ASIP Outstanding Investigator Award Lecture**

(2:00 PM - 3:00 PM)

- *Integrative Molecular Pathological Epidemiology: Creating Scientific Frontiers for Discovery from Large-Scale Pathobiological Studies*  
Shuji Ogino, MD, PhD  
Brigham & Women's Hospital, Dana-Farber Cancer Institute, Harvard School of Public Health

**What's the Big Deal About Big Data: Mining Molecular Epidemiology for Insights into Pathogenesis**

(2:00 PM - 5:00 PM)

Chaired: R.N. Mitchell, Brigham & Women's Hospital and M.E. Sobel, ASIP

- *Divining the 'Om' in 'Omics': Making Actionable Sense out of a Mountain of Data*  
Arul M. Chinnaiyan, MD, PhD  
University of Michigan
- *Computational Biology and the Microbiome: Predicting Therapeutic Responses to Infectious Assaults*  
Georg Gerber, MD, PhD  
Harvard University

**SCIENTIFIC INTEREST GROUP (SIG) INTERACTIVE POSTER DISCUSSIONS**

(5:30 PM - 7:30 PM)

Interactive poster discussions of invited posters representing the SIGs of ASIP