

# ASIP

American Society for Investigative Pathology

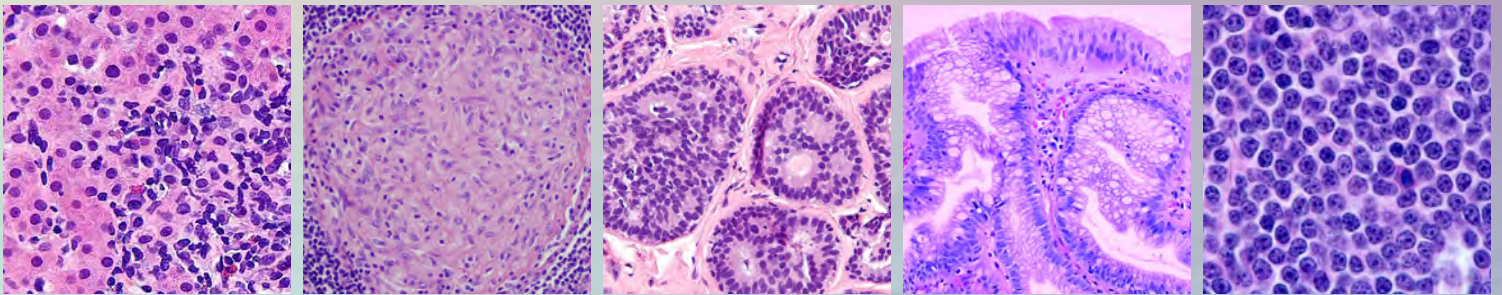
# 2019

## Annual Meeting

at



**Exploring Molecular and Cellular Etiologies  
for the Diagnosis and Treatment of Disease**



**April 6-9, 2019**

**Orlando, FL**

**[asip19.asip.org](http://asip19.asip.org)**

**#ASIP2019**

# ASIP 2019 Annual Meeting

## Information You Can Use...

### EB2018 Mobile App

<http://m.core-apps.com/eb2019>

### EB Registration

Exhibit Halls A and B  
Orange County Convention Center, West Concourse

### EB Registration Hours

- Friday, 1:00 PM - 6:00 PM
- Saturday, 7:00 AM - 8:00 PM
- Sunday - Tuesday, 7:00 AM - 5:00 PM

### Speaker Practice Rooms

- Orange County Convention Center  
Level 1 W-102A and Level 3 W-313

### Speaker Practice Room Hours

- Friday: 12:00 PM - 5:00 PM
- Saturday - Tuesday, 7:00 AM - 5:00 PM

### Exhibits

- Orange County Convention Center, Exhibit Halls A-D  
Sunday - Tuesday, 9:00 AM - 4:00 PM

### ASIP Poster Viewing

- Orange County Convention Center  
Exhibit Hall West Hall B  
Sunday - Tuesday, 10:00 AM - 1:00 PM

### ASIP Meeting Office and Member Networking Lounge

- Orange County Convention Center  
Room W-103 AB  
Friday - Tuesday, 7:00 AM - 6:00 PM  
Phone: (407) 685-4036

### ASIP Scientific Meeting Rooms

- Orange County Convention Center  
Rooms W-101B, W-105 A&B, W-106, W-107, W-108 A&B,  
W-109 A&B, W-110A&B

### Saturday Morning, April 6

Breast Cancer Workshop: Estrogen Receptor-Positive Breast Cancer

- Orange County Convention Center  
8:30 AM - 11:30 AM • Room W-106

ASIP Highlights Session: I Am An ASIP Member and This Is My Science

- Orange County Convention Center  
11:00 AM - 1:30 PM • Room W-109AB

### Saturday Afternoon, April 6

Blood Vessel Club™: Breach of the Vessel: Update on ANCA Vasculitis Pathogenesis

- Orange County Convention Center  
2:00 PM - 5:00 PM • Room W-107

### Saturday Evening, April 6

EB-Wide Tang Prize Award Lecture

- Orange County Convention Center  
6:00 PM - 7:00 PM • Chapin Theater

EB-Wide Welcome Reception

- Orange County Convention Center  
7:00 PM - 8:30 PM • Valencia Ballroom

*The AJP Editorial Board Dinner (By Invitation Only)*

- 6:30 PM - 9:30 PM • Rosen Centre, Salon 12

### Sunday Morning, April 7

XIX<sup>th</sup> Annual Workshop in Graduate Education in Pathology: The Value of the GRE in Graduate Admissions

- Orange County Convention Center  
7:30 AM - 8:30 AM • Room W-105A

Workshop: Cancer Biomarkers

- Orange County Convention Center  
8:30 AM - 11:00 AM • Room W-105B

XIX<sup>th</sup> Annual ASIP/AAA Career Development and Mentoring Program and Lunch: Giving and Responding to Critical Evaluations of Manuscripts and Grants

- Orange County Convention Center  
11:45 AM - 1:45 PM • Room W-110A

### Sunday Afternoon, April 7

ASMB Symposium: ECM in Inflammation/Fibrosis

- Orange County Convention Center  
2:00 PM - 5:00 PM • Room W107

### Sunday Evening, April 7

ASIP Gold-Headed Cane Award Lecture and Presentation

- Orange County Convention Center  
5:00 PM - 6:00 PM • Room W-109B

Scientific Interest Groups (SIG) Interactive Poster Discussions, Networking Sessions, and Reception

- Orange County Convention Center  
6:00 PM - 8:00 PM • Room W-110AB

Club Hepatomania™ Meet the Liver Experts

- Orange County Convention Center  
7:00 PM - 8:00 PM • ASIP DEN

### Monday Morning, April 8

ASIP Town Hall Meeting and Breakfast

- Orange County Convention Center  
7:00 AM - 8:30 AM • Room W-105A

### Monday Afternoon, April 8

EB Wide-Ask An NIH Program Officer Workshop: Tips for New and Early Stage Investigators

- Orange County Convention Center  
2:00 PM - 3:00 PM • Room W-105B

### Monday Evening, April 8

ASIP Business Meeting, Awards Presentations, and Reception

- Orange County Convention Center  
5:15 PM - 6:30 PM • Room W-109AB

### Tuesday Morning, April 9

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

- Orange County Convention Center  
9:30 AM - 2:30 PM • Room W-105A

Lunch and Learn: Science, Dollars, and Outcomes: The Critical Pieces of Budgeting You Can't Work Without

- Orange County Convention Center  
11:45 AM - 1:45 PM • Room W-101B

# American Society for Investigative Pathology

## SYMPOSIA AND WORKSHOP SESSIONS

**SATURDAY, APRIL 6, 2019**

### **Neuropathology Symposium: The Interface Between Neuropathology and Neuroimmunology**

(8:30 AM - 11:30 AM) • **OCCC, Room W-107**

**CME Hours: 3.0**

*Sponsored by the ASIP Neuropathology Scientific Interest Group and the Inflammation/Immunopathology Scientific Interest Group and the American Association of Anatomists (AAA)*

*Supported by an Unrestricted Educational Grant from Fluidigm*

Chairs: José J. Otero, The Ohio State University and Ivana Delalle, Boston University School of Medicine

- (8:30 AM - 9:30 AM)  
*The Role of Glial Cells in Neurodegenerative Diseases*  
Julia Kofler, MD  
University of Pittsburgh
- (9:30 AM - 10:30 AM)  
*Myeloid Cell-Mediated Control of CNS Infection*  
Tajie Harris, PhD  
University of Virginia
- (10:30 AM - 11:30 AM)  
*What Do Reactive Astrocytes Do?*  
Shane Liddelow, PhD  
New York University

### **Breast Cancer Workshop: Estrogen Receptor-Positive Breast Cancer [In Conjunction with the Molecular and Cellular Basis of Cancer Program]**

(8:30 AM - 11:30 AM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Sponsored by the ASIP Breast Cancer Scientific Interest Group*

*Supported by an Unrestricted Educational Grant from Earlier.org*

Chairs: Celina G. Kleer, University of Michigan and William B. Coleman, American Society for Investigative Pathology

- (8:30 AM - 9:15 AM)  
*Molecular Subtypes Among Estrogen Receptor-Positive Breast Cancers*  
William B. Coleman, PhD  
American Society for Investigative Pathology
- (9:15 AM - 10:00 AM)  
*ER-Positive Breast Cancer: Histopathology, Precursors, and the Role of Mesenchymal Stromal Cells in Tumor Progression*  
Celina G. Kleer, MD  
University of Michigan
- (10:00 AM - 10:45 AM)  
*Crosstalk Between mTORC1 and Estrogen Signaling in Breast Cancer*  
Marina Holz, PhD  
New York Medical College
- (10:45 AM - 11:30 AM)  
*Targeted Therapy for Metastatic Hormone Receptor-Positive Breast Cancer – Beyond ER*  
Carey Anders, MD  
Duke University

### **Minisymposium: Inflammation and Inflammatory Mediators**

(8:30 AM - 11:30 AM) • **OCCC, Room W-105B**

**CME Hours: 0.0**

Chairs: Veronica Azcutia, University of Michigan and Rheinalt Jones, Emory University School of Medicine

- Abstract-Driven Short Talks (15-minutes each)
  - 8:30 AM - 8:45 AM - Hayley Gorman (34.1)
  - 8:45 AM - 9:00 AM - Katlyn Richardson (34.2)
  - 9:00 AM - 9:15 AM - Xiaoyuan (Sherry) Yang (34.3)
  - 9:15 AM - 9:30 AM - Matthias Kelm (34.4)
  - 9:30 AM - 9:45 AM - Nicholas Schlegel (34.5)
  - 9:45 AM - 10:00 AM - Joshua Owens (34.6)
  - 10:00 AM - 10:15 AM - Ashfaquul Alam (34.7)
  - 10:15 AM - 10:30 AM - Ian Cartwright (34.8)
  - 10:30 AM - 10:45 AM - Erica Alexeev (34.9)
  - 10:45 AM - 11:00 AM - Ronen Sumagin (34.10)
  - 11:00 AM - 11:15 AM - Anu Autio (34.11)
  - 11:15 AM - 11:30 AM - Jean-Luc Jogleux (34.12)

**ASIP Highlights Session: I Am An ASIP Member and This Is My Science**

(11:00 AM - 1:30 PM) • **OSCC, Room W-109AB**

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

**CME Hours: 1.25**

Chairs: Titus A. Reaves, Medical University of South Carolina and Edward A. Medina, University of Texas Health Science Center at San Antonio and Morgan Preziosi, University of Pennsylvania

- (11:00 AM - 11:30 AM)  
Lunch, Networking, and Poster Viewing  
**Graduate Students:**  
Hayley Gorman, Suzan Alharbi, Ramón Castellanos, Patrick Wilkinson, Mohammed Khurshed, Valerie Zabala, Qingfan Liu, Jeana Owens, Maximillian Woodall, Triet Bui, Fuping Zhang, Kelsey Hirschi, Joshua Owens, Sanauallah Sajib, Joshua Owens, Asma Almazyad  
**Post-Doctoral Fellows:**  
Matthias Kelm, Luwen Wang, Koteswara Nalamolu, Amanda Lin, Paul Hanson, Tsung-Ching Lai, Pauline Labbé, Jean-Luc Jogleux, Shengmin Yan, Allison Gartung, Erica Alexeev  
**Medical Students:**  
Ruju Chen, Prarthana Dalal, Samantha Snow, Yu-Chan Chang

- (11:30 AM - 12:15 PM)

**ASIP's Trailblazing Women**

- (11:30 AM - 11:35 AM)  
*A Satisfying Career in Science: Paying Forward & Giving Back*  
Linda McManus, PhD  
University of Texas Health Science Center
- (11:35 AM - 11:40 AM)  
*Mechanisms of Exercise Oncology, Shaping the Face of Cancer Care*  
Traci Lee Parry, PhD  
University of North Carolina
- (11:40 AM - 11:45 AM)  
*New Approaches to Lick Lymphoma: Release the Hounds!*  
Nora Springer, DVM  
Kansas State University
- (11:45 AM - 11:50 AM)  
*Emerging Approaches in the Diagnosis of Lung Disease*  
Dani Zander, MD  
University of Cincinnati

- (11:50 AM - 11:55 AM)  
*The Intersection of Liver Development, Hepatic Carcinogenesis and Cell-Based Therapy for Liver Injury*  
Jennifer Sanders, PhD  
Brown University
- (11:55 AM - 12:00 PM)  
*Cancer: Block all Exits!*  
Diane Bielenberg, PhD  
Boston Children's Hospital
- (12:00 PM - 12:05 PM)  
*Immunomodulation of Cardiac Inflammation in Heart Failure*  
Maria Pilar Alcaide, PhD  
Tufts University
- (12:05 PM - 12:10 PM)  
*Mucosal Homeostasis: Insights into Regulation of Epithelial Barrier and Repair*  
Asma Nusrat, MD  
University of Michigan
- (12:10 PM - 12:45 PM)  
Lunch, Networking, and Poster Viewing
- (12:45 PM - 1:30 PM)

**ASIP's Trailblazing Men**

- (12:45 PM - 12:50 PM)  
*An Immunologist in Remission: How I Learned to Embrace Artificial Intelligence*  
Stanley Cohen, MD  
Rutgers New Jersey Medical School
- (12:50 PM - 12:55 PM)  
*QGAP1 and the Transmigration of Leukocytes, Biochemists, and Postdocs*  
David Sullivan, PhD  
Northwestern University
- (12:55 PM - 1:00 PM)  
*Understanding Breast Cancer from the Inside-Out: My Journey From the Bench to the Bedside*  
Kevin Gardner, MD, PhD  
Columbia University Medical Center
- (1:00 PM - 1:05 PM)  
*Wnt'er in Liver: My Pathway*  
Satdarshan Paul Singh Monga, MD  
University of Pittsburgh
- (1:05 PM - 1:10 PM)  
*Developmental Mechanisms of Congenital Hypoventilation*  
José Otero, MD, PhD  
The Ohio State University
- (1:10 PM - 1:15 PM)  
*My Journey: From Bench Scientist to My Commission to Serve and Protect Public Health*  
Prince Awuah, PhD  
US Food and Drug Administration
- (1:15 PM - 1:20 PM)  
*Living the Best of Both Worlds*  
Gregory J. Tsongalis, PhD  
Dartmouth-Hitchcock Medical Center and Norris Cotton Cancer Center
- (1:20 PM - 1:25 PM)  
*What We're Missing When We Think About Personalized Medicine, Multi-Omics, Biomarkers, and Big Data Analysis*  
Monte Willis, MD, PhD, MBA  
University of Indiana School of Medicine

- (1:30 PM)  
Session Photo

**Blood Vessel Club™**  **Breach of the Vessel: Update on ANCA Vasculitis Pathogenesis**

(2:00 PM - 5:00 PM) • **OCCC, Room W-107**

**CME Hours: 3.0**

*Sponsored by the ASIP Inflammation/Immunopathology Scientific Interest Group and the Vascular and Mucosal Pathobiology Scientific Interest Group*

Chairs: Jonathon W. Homeister, University of North Carolina at Chapel Hill and Denuja Karunakaran, University of Ottawa Heart Institute

- (2:00 PM - 3:00 PM)  
*Insights into the Immunopathogenesis of ANCA Vasculitis*  
Meghan Free, PhD  
University of North Carolina Kidney Center
- (3:00 PM - 4:00 PM)  
*Beyond Autoantibodies – Genetics and Epigenetics in ANCA Vasculitis*  
Dominic Ciavatta, PhD  
University of North Carolina Kidney Center
- (4:00 PM - 5:00 PM)  
*Common Cellular Mechanisms for Breaching Blood Vessels*  
William A. Muller, MD, PhD  
Northwestern University, Feinberg School of Medicine

**Symposium: Hypoxia Signaling in Pathogenesis of Cancer**

(2:00 PM - 5:00 PM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Sponsored by the ASIP Neoplasia and Growth Regulation Scientific Interest Group*

*Supported by Unrestricted Educational Grants from Peloton Therapeutics, Inc., Coy Lab, and Baker Ruskinn*

Chair: Qing Zhang, University of North Carolina at Chapel Hill

- (2:00 PM - 2:35 PM)  
*Hypoxia, Inflammation, and Cancer Program*  
M. Celeste Simon, PhD  
University of Pennsylvania
- (2:35 PM - 3:10 PM)  
*Targeting Ubiquitin Signaling Pathways for Cancer Therapies*  
Wenyi Wei, PhD  
Beth Israel Deaconess Medical Center, Harvard Medical School
- (3:10 PM - 3:45 PM)  
*Targeting HIF-2 in Renal Cancer*  
James Brugarolas, MD, PhD  
University of Texas Southwestern Medical Center
- (3:45 PM - 4:20 PM)  
*Novel Substrate of VHL in Hypoxia Signaling in Cancer*  
Qing Zhang, PhD  
University of North Carolina at Chapel Hill
- (4:20 PM - 4:55 PM)  
*Spatiotemporal Dissection of HIF Function in the Tumor Microenvironment with Genetically Engineered Mice*  
Cullen Taniguchi, MD, PhD  
University of Texas MD Anderson Cancer Center

## Minisymposium: Pathobiology of Bacterial, Viral and Parasitic Diseases

(2:00 PM - 5:00 PM) • **OCCC, Room W-105B**

**CME Hours: 0.0**

Chairs: Natalie Wall Fowlkes, MD Anderson Cancer Center and A. Sally Davis, Kansas State University College of Veterinary Medicine

- Abstract-Driven Short Talks (15-minutes each)
  - 2:00 PM - 2:15 PM - Ganesh Anand (38.1)
  - 2:15 PM - 2:30 PM - Jeana Owens (38.2)
  - 2:30 PM - 2:45 PM - Thibault Allain (38.3)
  - 2:45 PM - 3:00 PM - Mark Ackermann (38.4)
  - 3:00 PM - 3:15 PM - Natalie Fowlkes (38.5)
  - 3:15 PM - 3:30 PM - Trevor Darby (38.6)
  - 3:30 PM - 3:45 PM - Aurélien Fouillen (38.7)
  - 3:45 PM - 4:00 PM - Dennis Jones (38.8)
  - 4:00 PM - 4:15 PM - Genesis Julyus Agcaoili (38.9)
  - 4:15 PM - 4:30 PM - Elena Fekete (38.10)

## EB-Wide Tang Prize Award Lecture

(6:00 PM - 7:00 PM) • **OCCC, Chapin Theatre**

**CME Hours: 1.0**

The Tang Prize in Biopharmaceutical Science recognizes original biopharmaceutical or biomedical research that has led to significant advances towards preventing, diagnosing and/or treating major human diseases to improve human health.

- *Imatinib as a Paradigm of Targeted Cancer Therapies*  
Brian J. Druker, MD  
Oregon Health Science University, Knight Cancer Institute

## The AJP Editorial Board Dinner

(6:30 PM - 9:30 PM) • **Rosen Centre Hotel, Salon 12**

**CME Hours: 0.0**

*By Invitation Only*

## EB Welcome Reception

(7:00 PM - 8:30 PM) • **OCCC, Valencia Ballroom**

**CME Hours: 0.0**

Join your fellow attendees at the conference-wide reception to meet, greet, and mingle. Appreciate the power and energy of the EB Meeting as all career levels come together for fun, socialization, and networking.



**Why Should You**

**SUBMIT YOUR SCIENCE?**

The American Journal of **PATHOLOGY**  
Discoveries in Basic and Translational Pathobiology

Top cited pathology Journal with almost 40,000 citations annually

>1.4 million article downloads in 2018

2017 Impact Factor: 4.069

5-Year Impact Factor: 4.583

**AJP.AMJPATHOL.ORG**

## SUNDAY, APRIL 7, 2019

### **XIX<sup>th</sup> Annual Workshop in Graduate Education in Pathology: The Value of the GRE in Graduate Admissions**

(7:30 AM - 8:30 AM) • **OCCC, Room W-105A**

**CME Hours: 1.0**

*Sponsored by the ASIP Education Committee*

Chair: Wendy Mars, University of Pittsburgh Medical School

- (7:30 AM - 7:35 AM)  
Welcome and Introductions
- (7:35 AM - 7:50 AM)  
*GRE Scores in Biomedical PhD Graduate Admissions*  
Jean Cook, PhD  
University of North Carolina at Chapel Hill
- (7:50 AM - 8:10 AM)  
*Biomedical Graduate Admissions With and Without the GRE: the University of Pittsburgh Experience*  
Andrew W. Duncan, PhD  
University of Pittsburgh
- (8:10 AM - 8:30 AM)  
*The Michigan Experiment: Engaging with Faculty and the Literature for Admissions Policy Reform*  
Scott Barolo, PhD  
University of Michigan

### **Minisymposium: Vascular Biology and Pathology**

(8:30 AM - 11:30 AM) • **OCCC, Room W-107**

**CME Hours: 0.0**

Chairs: Diane Bielenberg, Boston Children's Hospital and Roberto Mota Alvidrez, University of North Carolina at Chapel Hill

- Abstract-Driven Short Talks (15-minutes each)
  - 8:30 AM - 8:45 AM - Meghna Naik (120.1)
  - 8:45 AM - 9:00 AM - Aura Zea-Robles (120.2)
  - 9:00 AM - 9:15 AM - Shyanne Page (120.3)
  - 9:15 AM - 9:30 AM - Pauline Labbé (120.4)
  - 9:30 AM - 9:45 AM - Orlane Destin (120.5)
  - 9:45 AM - 10:00 AM - Ashley Petrone (120.6)
  - 10:00 AM - 10:15 AM - Julie Dillard (120.7)
  - 10:15 AM - 10:30 AM - Valerie Zabala (120.8)
  - 10:30 AM - 10:45 AM - Ruiwen Mao (120.9)
  - 10:45 AM - 11:00 AM - Akiko Mammoto (120.11)
  - 11:00 AM - 11:15 AM - Jeff Arni Valisno (120.12)
  - 11:15 AM - 11:30 AM Roberto Mota Alvidrez (120.10)

### **Symposium: Tissue Cross-Talk Signaling in Alcohol-Induced Tissue Damage**

(8:30 AM - 11:30 AM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Supported by an Unrestricted Educational Grant from Samsara Sciences*

Chairs: Wen-Xing Ding, University of Kansas Medical Center and Mark Czaja, Emory University

- (8:30 AM - 8:55 AM)  
*Effects of Acetaldehyde Dehydrogenase 2 Deficiency in Alcoholic Liver Disease and Cancer in Mice and Humans*  
Bin Gao, PhD  
National Institute on Alcohol Abuse and Alcoholism
- (8:55 AM - 9:20 AM)  
*The Role of the Secretin/Secretin Receptor Axis in the Modulation of Alcohol Induced Biliary Damage and Liver Fibrosis*  
Gianfranco Alpini, PhD  
Texas A&M University

- (9:20 AM - 9:45 AM)  
*Autophagy and Lysosomal Biogenesis in Alcohol-Induced Pancreatitis*  
Wen-Xing Ding, PhD  
University of Kansas Medical Center
- (9:45 AM - 10:10 AM)  
*Yap Signaling-Mediated Liver Regeneration in Alcoholic Liver Disease*  
Liya Pi, PhD  
University of Florida
- (10:10 AM - 10:35 AM)  
*The Role of Sphingosine Kinase 2 in Alcohol-induced Liver Injury*  
Huiping Zhou, PhD  
Virginia Commonwealth University
- (10:35 AM - 11:00 AM)  
*Autophagy Regulates Hepatic Inflammation and Alcohol-Induced Tissue Injury*  
Mark Czaja, MD  
Emory University
- (11:00 AM - 11:25 AM)  
*Crosstalk of Alcohol and Autophagy in Hepatocytes*  
Xiao-Ming Yin, MD, PhD  
University of Indiana
- (11:25 AM - 11:30 AM)  
Closing Remarks  
Wen-Xing Ding, MD, PhD and Mark Czaja, MD

#### Workshop: Cancer Biomarkers

(8:30 AM - 11:00 AM) • **OCCC, Room W-105B**

**CME Hours: 2.5**

*Sponsored by the ASIP Molecular and Diagnostic Pathology Scientific Interest Group and the Association for Molecular Pathology (AMP)  
Supported by an Unrestricted Educational Grant from Fluidigm*

Chairs: Gregory J. Tsongalis, Dartmouth-Hitchcock Medical Center and Norris Cotton Cancer Center and William B. Coleman, American Society for Investigative Pathology

- (8:30 AM - 9:00 AM)  
*Cancer Biomarkers - The Search for the Holy Grail*  
William B. Coleman, PhD  
American Society for Investigative Pathology
- (9:00 AM - 9:30 AM)  
*Implementing a Next-Generation Sequencing Service for Somatic Mutation Testing*  
Andrea Ferreira Gonzalez, PhD  
Virginia Commonwealth University
- (9:30 AM - 10:00 AM)  
*ASIP Robbins Distinguished Educator Lecture and Award Presentation – Moving Beyond Next-Generation Sequencing:  
The Role of STAT DNA Testing*  
Gregory J. Tsongalis, PhD  
Dartmouth-Hitchcock Medical Center and Norris Cotton Cancer Center
- (10:00 AM - 10:30 AM)  
*Circulating Tumor DNA in the Detection and Diagnosis of Cancer*  
A. John Iafrate, MD  
Harvard Medical School, Massachusetts General Hospital
- (10:30 AM - 11:00 AM)  
*PreCancer Atlas: Implications for Biomarker Discovery and Development*  
Sudhir Srivastava, PhD, MPH  
National Cancer Institute

### ASIP Poster Viewing

(10:00 AM - 1:00 PM) • **OCCC Exhibit Hall, West Hall B**

**CME Hours: 0.0**

- Neoplasia I
- Inflammation and Disease
- Liver Pathobiology
- Blood and Vascular Disease

### XIX<sup>th</sup> Annual ASIP/AAA Career Development and Mentoring Program and Lunch: Giving and Responding to Critical Evaluations of Manuscripts and Grants

(11:45 AM - 1:45 PM) • **OCCC, Room W-110A**

**CME Hours: 2.0**

*Sponsored by the ASIP Education Committee and the American Association of Anatomists (AAA)*

Chairs: Andrew W. Duncan, University of Pittsburgh, Nakisha S. Rutledge, Northwestern University, and Roberto I. Mota Alvidrez, University of North Carolina at Chapel Hill

- (11:45 AM - 11:55 AM)  
Welcome and Introductions  
Andrew W. Duncan, University of Pittsburgh
- (11:55 AM - 12:20 PM)  
*Giving and Responding to Criticism of Your Manuscript: Perspectives from an Editor*  
Martha Furie, PhD  
Editor-in-Chief, *The American Journal of Pathology (AJP)*  
Stony Brook University
- (12:20 PM - 12:45 PM)  
*Giving and Responding to Criticism of Your Grant: Perspectives from a Study Section Chair*  
Daniel Remick, MD  
Boston University School of Medicine
- (12:45 PM - 1:15 PM)  
Interactive Table Discussions with experts in publishing, grants, career development, etc. Examples of critical evaluations will be provided to participants at each table for discussion and response.
- (1:15 PM - 1:45 PM)  
Group Discussions  
Participants at select tables will describe their responses to critical evaluations.

### ASMB Symposium: ECM in Inflammation/Fibrosis [In Conjunction with the Symposium: The Great Debate - Fibrosis Across Organs: Triggers, Pathways and Cellular Plasticity]

(2:00 PM - 5:00 PM) • **OCCC, Room W-107**

**CME Hours: 3.0**

*Supported by an Unrestricted Educational Grant from Fluidigm*

Chair: Pyong Park, Children's Hospital Boston and Harvard Medical School

- (2:00 PM - 2:45 PM)  
*New Role for Syndecans in Matrix Assembly and Gram-Positive Infections*  
Pyong Park, PhD  
Children's Hospital Boston and Harvard Medical School
- (2:45 PM - 3:30 PM)  
*Mouse Models to Study Kidney Fibrosis: An Acute and Chronic Perspective*  
Ambra Pozzi, PhD  
Vanderbilt University School of Medicine
- Abstract-Driven Short Talks (15-minutes each)
  - 3:30 PM - 3:45 PM - Dana Julian **(802.83)**
  - 3:45 PM - 4:00 PM - Suzan Allharbi **(123.1)**
  - 4:00 PM - 4:15 PM - Huilei Wang **(802.84)**
  - 4:15 PM - 4:30 PM - Richard Nho **(802.85)**

- (4:30 PM - 5:00 PM)  
Questions and Answers

**Symposium: The Environment and Gene Expression, Role of the Epigenome**

(2:00 PM - 5:00 PM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Sponsored by the ASIP Environmental and Toxicologic Pathology Scientific Interest Group, the ASIP Gene Expression Scientific Interest Group and the American Society for Biochemistry and Molecular Biology (ASBMB)*

Chairs: Philip M. Iannaccone, Northwestern University Medical School, Qin Yan, Yale University School of Medicine, and David Williams, University of North Carolina at Chapel Hill

- (2:00 PM - 2:30 PM)  
*Developmental Reprogramming of the Epigenome by Early Life Environmental Exposures*  
Cheryl Walker, PhD  
Baylor College of Medicine
- (2:30 PM - 2:55 PM)  
*Role of Xenobiotic Receptor PXR in Linking Endocrine Disruptor Exposure and Cardiovascular Disease*  
Changcheng Zhou, PhD  
University of Kentucky
- (2:55 PM - 3:20 PM)  
*Adult Effects of in-utero Exposure to di(2-ethylhexyl) Phthalate: The Epigenome Does Not Forget*  
Daniel Martinez-Arguelles, MD, PhD  
The Research Institute of the McGill University Health Center
- (3:20 PM - 3:45 PM)  
*Single-Cell RNA-Seq and Single-Cell ATAC-Seq of Lead-exposed Drosophila Brains from a Population Resource Identifies Lead-Dependent Cellular and Regulatory QTLs*  
Douglas Ruden, PhD  
Wayne State University
- (3:45 PM - 4:10 PM)  
*Molecular and Epigenetic Mechanisms of the Developmental Origins of Toxicity of the Endocrine Disrupting Herbicide Atrazine*  
Jennifer Freeman, PhD  
Purdue University
- Abstract-Driven Short Talks (15-minutes each)
  - 4:10 PM - 4:25 PM - K. YF Tsai **(802.81)**
  - 4:25 PM - 4:40 PM - Qiao Yang **(802.82)**
  - 4:40 PM - 4:55 PM - Bernadette Zwaans **(366.1)**

**Pathobiology Course for Research Scientists: Lipid Mediators in Vascular Biology [In Conjunction with the Molecular and Cellular Basis of Cancer Program]**

*Sponsored by the ASIP Education Committee*

(2:00 PM - 5:00 PM) • **OCCC, Room W-105B**

**CME Hours: 3.0**

*Supported by the Stowell Fund*

Chairs: Dipak Panigrahy, Beth Israel Deaconess Medical Center and Roberto I. Mota Alvidrez, University of North Carolina at Chapel Hill

- (2:00 PM - 2:45 PM)  
*Cancer Progression: Failure of Resolution of Inflammation*  
Dipak Panigrahy, PhD  
Beth Israel Deaconess Medical Center
- (2:45 PM - 3:30 PM)  
*Role of Pro-Resolving Lipid Mediators in Immunity and Vascular Biology*  
Matthew Spite, PhD  
Harvard Medical School/Brigham and Women's Hospital

- (3:30 PM - 4:15 PM)  
*Role of Cytochrome P450-Derived Fatty Acids in the Ischemic Heart*  
Darryl Zeldin, MD  
National Institutes of Health/National Institute of Environmental Health Sciences
- (4:15 PM - 5:00 PM)  
*Designing and Interpreting Clinical Studies with Blood-Derived Measurements of Lipid Mediators*  
Ann Skulas-Ray, PhD  
University of Arizona

#### **Minisymposium: Liver Pathobiology**

(2:00 PM - 5:00 PM) • **OSCC, Room W-108A**

**CME Hours: 0.0**

Chairs: Kari Nejak-Bowen, University of Pittsburgh and Xiao-Ming Yin, University of Indiana

- Abstract-Driven Short Talks (15-minutes each)
  - 2:00 PM - 2:15 PM - Satdarshan Paul Singh Monga **(126.1)**
  - 2:15 PM - 2:30 PM - Thirtadipa Pradan-Sundd **(126.2)**
  - 2:30 PM - 2:45 PM - Bilon Khambu **(126.3)**
  - 2:45 PM - 3:00 PM - Na Jiao **(126.4)**
  - 3:00 PM - 3:15 PM - Shengmin Yan **(126.5)**
  - 3:15 PM - 3:30 PM - Narendra Kumar **(126.6)**
  - 3:30 PM - 3:45 PM - Karis Kosar **(126.7)**
  - 3:45 PM - 4:00 PM - Akanksha Sharma **(126.8)**
  - 4:00 PM - 4:15 PM - Morgan Preziosi **(126.9)**
  - 4:15 PM - 4:30 PM - Jinqiang Zhang **(126.10)**
  - 4:30 PM - 4:45 PM - Kelly Koral **(126.11)**
  - 4:45 PM - 5:00 PM - Junyan Tao **(126.12)**

#### **Minisymposium: Lung Pathobiology**

(2:00 PM - 5:00 PM) • **OSCC, Room W-108B**

**CME Hours: 0.0**

Chairs: Mary Sunday, Duke University Medical Center and Piyali Dasgupta, Marshall University

- Abstract-Driven Short Talks (15-minutes each)
  - 2:00 PM - 2:15 PM - Mary Sunday **(127.1)**
  - 2:15 PM - 2:30 PM - Joanna Goral **(127.2)**
  - 2:30 PM - 2:45 PM - Wei-Min Chang **(127.3)**
  - 2:45 PM - 3:00 PM - Kelsey Hirschi **(127.4)**
  - 3:00 PM - 3:15 PM - Jean Chiou **(127.5)**
  - 3:15 PM - 3:30 PM - Tadmori Mammoto **(127.6)**
  - 3:30 PM - 3:45 PM - Stephen Carson **(127.7)**
  - 3:45 PM - 4:00 PM - Gillian Kelly **(127.8)**
  - 4:00 PM - 4:15 PM - Emma Carroll **(127.9)**
  - 4:15 PM - 4:30 PM - James Reihill **(127.10)**
  - 4:30 PM - 4:45 PM - Carsten Ehrhardt **(127.11)**
  - 4:45 PM - 5:00 PM - Israr Ahmad **(127.12)**

#### **ASIP Gold-Headed Cane Award Lecture and Presentation**

(5:00 PM - 6:00 PM) • **OSCC, Room W-109B**

**CME Hours: 1.0**

- *The Accidental Pathologist — A Curiosity Driven Journey from Plant Evolution to Natural Immunity*  
Vinay Kumar, MBBS, MD, FRCPath  
University of Chicago School of Medicine

#### **Scientific Interest Groups (SIGs) Interactive Poster Discussions, Networking Sessions, and Reception**

(6:00 PM - 8:00 PM) • **OSCC, Room W-110AB**

**CME Hours: 0.0**

*Interactive discussions of invited posters representing the Scientific Interest Groups (SIGs) of the ASIP*

**Club Hepatomania™ - Meet the Liver Experts**

(7:00 PM - 8:00 PM) • **OCCC, The ASIP DEN (seating area outside of W-110AB Ballrooms)**

**CME Hours: 0.0**

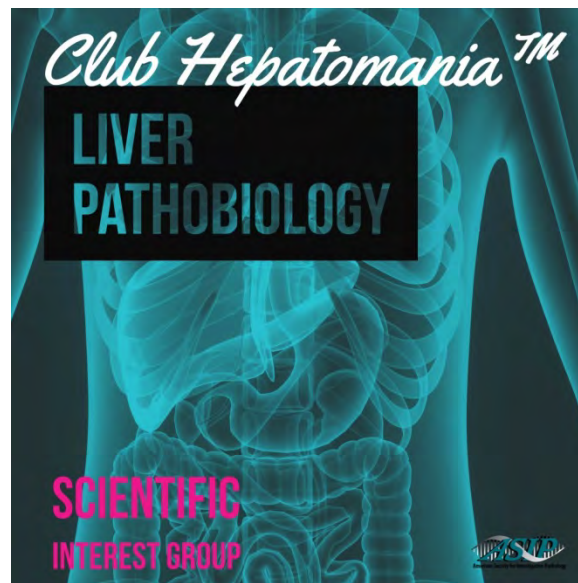
Chairs: Satdarshan Paul Singh Monga and Kari Nejak-Bowen, University of Pittsburgh

- Stacey Huppert, PhD  
Cincinnati Children's Hospital
- Mark Czaja, MD  
Emory University

**Histochemical Society Business Meeting, Awards Presentations, and Reception**

(7:00 PM - 9:00 PM) • **OCCC, Room W-105A**

**CME Hours: 0.0**



**ASIP Town Hall Meeting and Breakfast**

(7:00 AM - 8:30 AM) • **OCCC, Room W-105A**

**CME Hours: 0.0**

Chairs: Asma Nusrat, University of Michigan and William B. Coleman, American Society for Investigative Pathology

**Histochemical Society Workshop on Immunohistochemistry - New Tools for Dissecting Disease: Big Data Analytics**

(8:30 AM - 10:30 AM) • **OCCC, Room W-107**

**CME Hours: 2.0**

*Sponsored by the ASIP Immunohistochemistry & Microscopy Scientific Interest Group and the Histochemical Society (HCS)*

Chairs: Paul Goodwin, AppliedPrecision/GE and Stephen Hewitt, National Cancer Institute/National Institutes of Health

- (8:30 AM - 9:10 AM)  
*Immunocytochemistry: Challenging Paradigms to Illuminate New Discoveries in the Pituitary*  
Gwen V. Childs, PhD, FAAA  
University of Arkansas for Medical Sciences
- (9:10 AM - 9:50 AM)  
*Deep Learning (and Deep Learning?) in Histopathology: Risks and Rewards*  
Richard M. Levenson, MD  
University of California, Davis Health
- (9:50 AM - 10:30 AM)  
*Single-Cell Transcriptomics*  
Peter A. Sims, PhD  
Columbia University

**Symposium: Gene Regulation of Immune Response in Cancer**

(8:30 AM - 11:30 AM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Sponsored by the ASIP Inflammation/Immunopathology Scientific Interest Group, the ASIP Gene Expression Scientific Interest Group and the ASIP Neoplasia/Growth Regulation Scientific Interest Group*

*Supported by an Unrestricted Educational Grant from Fluidigm*

Chairs: Philip M. Iannaccone, Northwestern University Medical School, David Williams, University of North Carolina at Chapel Hill, and Qin Yan, Yale School of Medicine

- (8:30 AM - 9:10 AM)  
*Epigenetic Silencing of TH1-Type Chemokines Shapes Tumor Immunity and Immunotherapy*  
Weiping Zou, MD, PhD  
University of Michigan Medical School
- (9:10 AM - 9:40 AM)  
*Multiple Tumor Suppressors in Kidney Cancer Converge on Tumor Immunity*  
Haifeng Yang, PhD  
Thomas Jefferson University
- (9:40 AM - 10:20 AM)  
*Suppression of STING Signaling Through Epigenetic Silencing in Cancer*  
Glen Barber, PhD  
University of Miami School of Medicine
- (10:20 AM - 11:00 AM)  
*LSD1 Ablation Stimulates Anti-Tumor Immunity and Enables Checkpoint Blockade*  
Yang Shi, PhD  
Boston Children's Hospital
- (11:00 AM - 11:30 AM)  
*Regulation of Anti-Tumor Immune Responses by KDM5 Histone Demethylases*  
Qin Yan, PhD  
Yale School of Medicine

### **Liver Workshop - The Promiscuous Ways of Prometheus: Liver Repair and Beyond**

(8:30 AM - 11:30 AM) • **OCCC, Room W-105B**

**CME Hours: 3.0**

*Sponsored by the ASIP Liver Pathobiology Scientific Interest Group and the ASIP Regenerative Medicine and Stem Cells Scientific Interest Group*

*Supported by an Unrestricted Educational Grant from Samsara Sciences*

Chairs: Kari Nejak-Bowen, University of Pittsburgh and Satdarshan Paul Singh Monga, University of Pittsburgh

- (8:30 AM - 9:00 AM)  
*Hepatocyte to Cholangiocyte Transdifferentiation*  
Kari Nejak-Bowen, PhD, MBA  
University of Pittsburgh
- (9:00 AM - 9:30 AM)  
*Building a Functional Biliary System from Hepatocytes*  
Stacey Huppert, PhD  
Cincinnati Children's Hospital
- (9:30 AM - 10:00 AM)  
*Cholangiocyte to Hepatocyte Transdifferentiation*  
Donghun Shin, PhD  
University of Pittsburgh
- (10:00 AM - 10:30 AM)  
*iPS-Derived Hepatocytes*  
Stephen Duncan, PhD  
Medical University of South Carolina
- (10:30 AM - 11:00 AM)  
*Generation of Human Fatty Liver Using Custom-Engineered iPS Cells with Modified Metabolism*  
Alexandra Collin de l'Hortet, PhD  
University of Pittsburgh
- (11:00 AM - 11:30 AM)  
*Liver-on-Chip*  
Ashutosh Agarwal, PhD  
University of Miami

### **VAMP Symposium - New Ways to Build and Cross Mucosal and Vascular Barriers**

(8:30 AM - 11:30 AM) • **OCCC, Room W-108A**

**CME Hours: 3.0**

*Sponsored by the ASIP Vascular and Mucosal Pathobiology Scientific Interest Group*

Chairs: Francis W. Luscinskas, Brigham & Women's Hospital and Andrei I. Ivanov, Cleveland Clinic Foundation

- (8:30 AM - 9:15 AM)  
*Regulation of Gut Permeability by Long Noncoding RNAs (lncRNAs) and RNA-Binding Proteins (RBPs)*  
Jian-Ying Wang, MD, PhD  
University of Maryland School of Medicine
- (9:15 AM - 10:00 AM)  
*Push-and-Pull Balance Maintains Adherens Junctions in Endothelial Cells*  
Tatyana Svitkina, PhD  
University of Pennsylvania
- (10:00 AM - 10:45 AM)  
*Regulators of MUC2 Mucin Secretion in Innate Host Defense in the Gut*  
Kris K. Chadee, PhD  
University of Calgary
- (10:45 AM - 11:30 AM)  
*Identifying the Role of IQGAP1 in Leukocyte Transendothelial Migration: From In-Vitro Characterization to In-Vivo Imaging*  
David P. Sullivan, PhD  
Northwestern University

### Minisymposium: New Horizons in Biomarker Development and Cancer Therapy

(8:30 AM - 11:30 AM) • **OCCC, Room W-108B**

**CME Hours: 0.0**

Chairs: Kevin Gardner, Columbia University Medical Center and Dipak Panigrahy, Beth Israel Deaconess Medical Center

- Abstract-Driven Short Talks (15-minutes each)
  - 8:30 AM - 8:45 AM - Andrew Mariassy (250.1)
  - 8:45 AM - 9:00 AM - Katherine Gibson-Corley (250.2)
  - 9:00 AM - 9:15 AM - Edward Medina (250.3)
  - 9:15 AM - 9:30 AM - Victoria Hallisey (250.4)
  - 9:30 AM - 9:45 AM - Jacalyn Green (250.5)
  - 9:45 AM - 10:00 AM - Daniela Furrer (250.6)
  - 10:00 AM - 10:15 AM - Brad Amendt (250.7)
  - 10:15 AM - 10:30 AM - Mohammed Khurshed (250.8)
  - 10:30 AM - 10:45 AM - Daniela Furrer (250.9)
  - 10:45 AM - 11:00 AM - Hsing Fang Tsai (250.10)
  - 11:00 AM - 11:15 AM - Emily Bontekoe (250.11)
  - 11:15 AM - 11:30 AM - Patricia Mendonca (250.12)

### ASIP Poster Viewing

(10:00 AM - 1:00 PM) • **OCCC Exhibit Hall, West Hall B**

**CME Hours: 0.0**

- Diabetes and Metabolic Disease
- Infectious Agents and Disease
- Liver Pathobiology II
- Neuropathology I
- Pathobiology of Heart Disease
- Regulation of Epithelial Barrier and Intercellular Junctions

### The Journal of Histochemistry & Cytochemistry Lecture

(10:30 AM - 11:30 AM) • **OCCC, Room W-107**

**CME Hours: 1.0**

Chair: Stephen Hewitt, Editor, Journal of Histochemistry and Cytochemistry, National Cancer Institute/National Institutes of Health

- (10:30 AM - 11:30 AM)  
*Multiplex Immunohistochemistry to Explore the Complexity of Tumor: Immune Interactions*  
Janis Marie Taube, MD, MSc  
Johns Hopkins University

### EB Wide - Ask An NIH Program Officer Workshop: Tips for Early Stage Investigators

(2:00 PM - 3:00 PM) • **OCCC, Room W-105B**

**CME Hours: 1.0**

Chair: Norbert Tavares, National Cancer Institute

- (2:00 PM - 2:15 PM)  
Norbert Tavares, PhD  
National Cancer Institute
- (2:15 PM - 3:00 PM)  
**Panelist Discussions - Questions and Answers**
  - Christine Maric-Bilkan, PhD  
National Institute of Diabetes and Digestive and Kidney Diseases
  - Xenia Tigno, PhD  
National Heart Blood and Lung Institute

### **Presidential Symposium: Epithelial Dynamics, Mucosal Inflammation and Repair**

(2:00 PM - 5:00 PM) • **OCCC, Room W-109AB**

**CME Hours: 3.0**

Chairs: Charles A. Parkos, University of Michigan and Francis W. Luscinskas, Brigham & Women's Hospital

- (2:00 PM - 2:45 PM)  
*Rho Flares Locally Reinforce the Tight Junction Barrier*  
Ann Miller, PhD  
University of Michigan
- (2:45 PM - 3:30 PM)  
*Geometry of Cell Jamming: New Biology, Surprising Physics, and Useful Ideas About Epithelial Layers*  
Jeffrey J. Fredberg, PhD  
Harvard T.H. Chan School of Public Health
- (3:30 PM - 4:15 PM)  
*Microbial-Derived Mediators Influencing Mucosal Inflammation*  
Sean P. Colgan, PhD  
University of Colorado
- (4:15 PM - 5:00 PM)  
*Plasticity of the Mucosal Barrier: Insights into Regulation of Epithelial Repair*  
Asma Nusrat, MD  
University of Michigan

### **ACVP-ASIP Symposium: Non-Traditional Laboratory Animal Models for Neuropathology**

(2:00 PM - 5:00 PM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Sponsored by the ASIP Veterinary and Comparative Pathology Scientific Interest Group and the American College of Veterinary Pathologists (ACVP)*

Chair: A. Sally Davis and Nora L. Springer, Kansas State University College

- (2:00 PM - 3:00 PM)  
*The Dog as a Naturally Occurring Model of Intracranial Neoplasia*  
Andrew D. Miller, DVM, DACVP  
Cornell University
- (3:00 PM - 4:00 PM)  
*The Benefit and Value of Canine and Feline Models of Neuropathic Lysosomal Storage Diseases*  
N. Matthew Ellinwood, DVM, PhD  
Iowa State University
- (4:00 PM - 5:00 PM)  
*Zoonotic Natural Neurotropic Infections as Models for the Equivalent Human Diseases*  
Fabio Del Piero, DVM, PhD, DACVP  
Louisiana State University

### **ASIP Business Meeting & Awards Presentations & Reception**

(5:15 PM - 6:30 PM) • **OCCC, Room W-109AB**

**CME Hours: 0.0**

### **ASIP President's Reception • Rosen Centre Hotel**

(6:30 PM - 8:30 PM)

**CME Hours: 0.0**

*(By Invitation Only)*

**Symposium: The Great Debate - Fibrosis Across Organs: Triggers, Pathways, and Cellular Plasticity**

(8:30 AM - 11:30 AM) • **OCCC, Room W-107**

**CME Hours: 3.0**

*Co-Sponsored by the American Society for Matrix Biology*

*Supported by an Unrestricted Educational Grant from Samsara Sciences*

Chair: Titus Reaves, Medical University of South Carolina

- (8:30 AM - 9:05 AM)  
*New Concepts in the Cellular and Molecular Pathogenesis of Liver Fibrosis*  
Don C. Rockey, MD  
Medical University of South Carolina
- (9:05 AM - 9:40 AM)  
*Innate Immunity in Lung Fibrosis*  
Erica Herzog, MD, PhD  
Yale School of Medicine
- (9:40 AM - 9:55 AM)  
*Synergy of Scleraxis and CD36 in the Activation of Fibroblasts "Potential Role in Fibrosis"*  
Titus A. Reaves, PhD  
Medical University of South Carolina
- (9:55 AM - 10:30 AM)  
*Cardiomyocyte Regulation of Fibrosis and the Extracellular Matrix*  
Monte Willis, MD, PhD, MBA  
Indiana University School of Medicine
- (10:30 AM - 11:05 AM)  
*Mouse Models to Study Kidney Fibrosis: An Acute and Chronic Perspective*  
Ambra Pozzi, PhD  
Vanderbilt University School of Medicine
- (11:05 AM - 11:20 AM)  
Abstract-Driven Short Talk (15 minutes)
  - Bernadette Zwaans **(366.1)**
- (11:20 AM - 11:30 AM)  
State of Science Debate Panel

**SCVP Symposium: Immune Checkpoints: From Basic Immunology to Cardiovascular Complications**

(8:30 AM - 11:30 AM) • **OCCC, Room W-106**

**CME Hours: 3.0**

*Sponsored by the ASIP Inflammation/Immunopathology Scientific Interest Group and the Society for Cardiovascular Pathology (SCVP)*

*Supported by an Unrestricted Educational Grant from Fluidigm*

Chairs: James R. Stone, Massachusetts General Hospital and Jonathon W. Homeister, University of North Carolina at Chapel Hill

- (8:30 AM - 9:05 AM)  
*Myocardium and Inflammation Don't Mix: From Myocarditis to Immune Checkpoint Blockade*  
Richard N. Mitchell, MD, PhD  
Brigham and Women's Hospital, Harvard Medical School
- (9:05 AM - 9:40 AM)  
*PD-1 Cancer Immunotherapy*  
Gordon Freeman, PhD  
Dana-Farber Cancer Institute, Harvard Medical School
- (9:40 AM - 10:15 AM)  
*Regulation and Deregulation of T-Cells in the Myocardium*  
Andrew Lichtman, MD, PhD  
Brigham and Women's Hospital, Harvard Medical School

- (10:15 AM - 10:50 AM)  
*Immune Checkpoint Inhibitors-Associated Myocarditis: Defining a New Clinical Syndrome*  
Javid Moslehi, MD  
Vanderbilt University Medical Center
- (10:50 AM - 11:25 AM)  
*Immune Checkpoint Deficiency in Large Vessel Vasculitis*  
Cornelia Weyand, MD, PhD  
Stanford University, School of Medicine

**Minisymposium: Mechanisms of Carcinogenesis**

(8:30 AM - 11:30 AM) • **OCCC, Room W-108B**

**CME Hours: 0.0**

Chairs: Diane Bielenberg, Boston Children's Hospital and Douglas Stairs, Penn State College of Medicine

- Abstract-Driven Short Talks (15-minutes each)
  - 8:30 AM - 8:45 AM - Jamie Friedman (368.1)
  - 8:45 AM - 9:00 AM - Alexander Sougiannis (368.2)
  - 9:00 AM - 9:15 AM - Lindsey Miles (368.3)
  - 9:15 AM - 9:30 AM - Tsung-Ching Lai (368.4)
  - 9:30 AM - 9:45 AM - Ramòn Castellanos (368.5)
  - 9:45 AM - 10:00 AM - Vashendriya Hira (368.6)
  - 10:00 AM - 10:15 AM - Benoit Niclou (368.7)
  - 10:15 AM - 10:30 AM - Emily Wingrove (368.8)
  - 10:30 AM - 10:45 AM - Sanallah Sajib (368.9)
  - 10:45 AM - 11:00 AM - Loredana Mauro (368.10)
  - 11:00 AM - 11:15 AM - Treit Bui (368.11)
  - 11:15 AM - 11:30 AM - Gilles Robichaud (368.12)

**Minisymposium: Liver Injury and Repair**

(8:30 AM - 11:30 AM) • **OCCC, Room W-108A**

**CME Hours: 0.0**

Chairs: Andrew W. Duncan, University of Pittsburgh and Udayan Apte, University of Kansas Medical Center

- Abstract-Driven Short Talks (15-minutes each)
  - 8:30 AM - 8:45 AM - Patrick Wilkinson (369.1)
  - 8:45 AM - 9:00 AM - Jacquelyn Russell (369.2)
  - 9:00 AM - 9:15 AM - Egle Juskeviciute (369.3)
  - 9:15 AM - 9:30 AM - Chad Walesky (369.4)
  - 9:30 AM - 9:45 AM - Bejan Saeedi (369.5)
  - 9:45 AM - 10:00 AM - Bharat Bhushan
  - 10:00 AM - 10:15 AM - Nicole Martucci
  - 10:15 AM - 10:30 AM - Jeanna Strickland (369.8)
  - 10:30 AM - 10:45 AM - Asmita Pant (369.9)
  - 10:45 AM - 11:00 AM - Ian Huck (369.10)
  - 11:00 AM - 11:15 AM - Lindsey Kennedy (369.11)
  - 11:15 AM - 11:30 AM - Leila Gobejishvili (369.12)

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

(9:30 AM - 2:30 PM) • **OCCC, Room W-105A**

**CME Hours: 2.5**

*Sponsored by the ASIP Education Committee*

Chairs: Kari Nejak-Bowen, University of Pittsburgh and Martha B. Furie, Stony Brook University

- (10:00 AM - 10:25 AM)  
*Welcome and Introductions*  
Kari Nejak-Bowen, MBA, PhD  
University of Pittsburgh

- (10:25 AM - 11:15 AM)  
*Menacing Microbes: Emerging Infectious Diseases*  
Martha B. Furie, PhD  
Stony Brook University
- (11:15 AM - 11:25 AM)  
*Break*
- (11:25 AM - 12:10 PM)  
*Smoking-Related Lung Disease in 3D: Not Your Standard Lecture*  
Dani S. Zander, MD  
University of Cincinnati Medical Center
- (12:10 PM - 12:40 PM)  
Specimen Viewing
- (12:40 PM - 1:30 PM)  
*Stem Cells: A Case of Dr. Jekyll and Mr. Hyde*  
Satdarshan Paul Singh Monga, MD  
University of Pittsburgh
- (1:30 PM - 2:30 PM)  
Visit the Exhibit Hall

#### **ASIP Poster Viewing**

(10:00 AM - 1:00 PM) • **OCCC Exhibit Hall, West Hall B**

**CME Hours: 0.0**

- Advancing Research Technologies
- Autoimmune Disease
- Cell Injury
- Extracellular Matrix Pathobiology
- Forensic Pathology
- Gene Expression
- Lung Pathobiology
- Neoplasia II
- Neuropathology II
- Pathobiology of Aging
- Pathology Education
- Renal Pathology
- Steroid Hormones
- Toxicology
- Toxins and Disease

#### **Lunch and Learn: Science, Dollars, and Outcomes: The Critical Pieces of Budgeting You Can't Work Without**

(11:45 AM - 1:45 PM) • **OCCC, Room W-101B**

**CME Hours: 2.0**

*Sponsored by the ASIP Education Committee and the American Society for Clinical Pathology (ASCP)*

Chair: Dan Milner, Jr., MD, MSc, American Society for Clinical Pathology

*An interactive lunch session covering aspects of budgeting in case studies including an academic lab and a hospital clinical lab budget*

- (11:45 AM - 12:00 PM)  
Welcome and Introductions  
Dan Milner, Jr., MD, MSc  
American Society for Clinical Pathology
- (12:00 PM - 12:40 PM)  
*Success in Grant Funding: Those That Have the Gold Make the Rules*  
Gary Ostrander, PhD  
Florida State University

- (12:40 PM - 1:20 PM)  
*Clinical Lab Budgeting - Achieving Goals for You and Your Organization*  
Philip Chen, MD, PhD  
Sonic Healthcare, USA
- (1:20 PM - 1:45 PM)  
Group Exercises/Group Discussions  
Gary Ostrader and Philip Chen

**Symposium: Sepsis 2019: Clinical Issues and Research Initiatives**

(2:00 PM - 5:00 PM) • **OCCC, Room W-107**

**CME Hours: 3.0**

*Sponsored by the ASIP Inflammation/Immunopathology Scientific Interest Group*

Chair: Daniel G. Remick, Boston University School of Medicine

- (2:00 PM - 2:45 PM)  
*The Other Golden Hour: Timely Interventions in the Recognition and Treatment of Sepsis*  
Marie-Carmelle Elie, MD  
University of Florida College of Medicine
- (2:45 PM - 3:30 PM)  
*Evolving Concepts Regarding the Pathology of Sepsis*  
Lyle Moldawer, PhD  
University of Florida College of Medicine
- (3:30 PM - 4:15 PM)  
*Endothelial Barrier Injury in Sepsis*  
Sarah Yuan, MD, PhD  
University of South Florida Morsani College of Medicine
- (4:15 PM - 5:00 PM)  
*Neuroscience Mechanisms in Sepsis: Bioelectronic Medicine*  
Kevin Tracey, MD  
Zucker School of Medicine at Hofstra

**SIPMeT Symposium: Endothelium in Pathophysiology**

(2:00 PM - 5:00 PM) • **OCCC, Room W-106**

**CME Hours: 3.0**

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

Chairs: Francesco Curcio, University of Udine and Massimiliano M. Corsi Romanelli, University of Milan

- (2:00 PM - 3:00 PM)  
*The Pathophysiology of the Endothelium: Moving from 2D to 3D Culture and Beyond*  
Jeanette Maier, MD  
University of Milan, Italy
- (3:00 PM - 4:00 PM)  
*Flow-Dependent Endothelial Functional Phenotypes*  
Guillermo García-Cardeña, PhD  
Harvard Medical School
- (4:00 PM - 5:00 PM )  
*Role of the Glycocalyx in Endothelial Cell Function*  
Patricia D'Amore, PhD, MBA, FARVO  
Schepens Eye Research Institute/ Harvard Medical School

**Minisymposium: Pathobiology of Cardiac Disease**

(2:00 PM - 5:00 PM) • **OCCC, Room W-105B**

**CME Hours: 0.0**

Chairs: Maria Pilar Alvaide, Tufts University and Jonathon W. Homeister, University of North Carolina at Chapel Hill

- Abstract-Driven Short Talks (15-minutes each)
  - Nijabulo Ngwenyama (374.1)
  - Francisco Carrillo-Salinas (374.2)
  - Nataliia Shults (374.3)
  - Paul Hanson (374.4)
  - Marina Anastasiou (374.5)
  - Huan-Xin Chen (374.6)
  - Camilla Schinner (374.7)
  - Sonia Borodzicz (374.8)
  - Tzyy-Yue Wong (374.9)
  - Timothy Bryson (374.10)

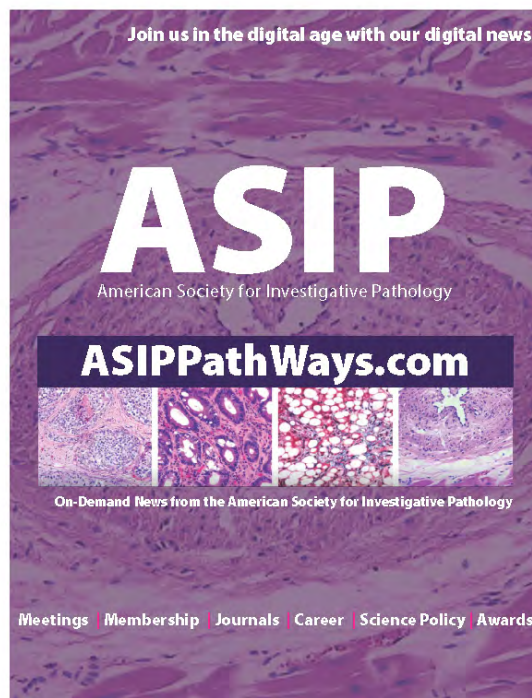
**Minisymposium: Leukocyte Pathobiology**

(2:00 PM - 5:00 PM) • **OCCC, Room W-108A**

**CME Hours: 0.0**

Chairs: Asma Nusrat, University of Michigan and Francis Luscinskas , Brigham & Women's Hospital

- Abstract-Driven Short Talks (15-minutes each)
  - Stephan Holtkamp (375.1)
  - Francisco Velazquez (375.2)
  - Jasmin Weber (375.3)
  - Monique O'Leary (375.4)
  - Prarthana Dalal (375.5)
  - Anny-Claude Luissint (375.6)
  - Veronica Azcutia (375.7)
  - Jia Wei (375.8)
  - Sophia Hergenhan (375.9)
  - Jessica Brocos (375.10)
  - Arnaud Mansart (375.11)



# ASIP

American Society for Investigative Pathology

# 2019

Annual Meeting

at



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**April 6-9, 2019**

**Orlando, FL**

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# Healthy and Diseased Primary Human Liver Cells

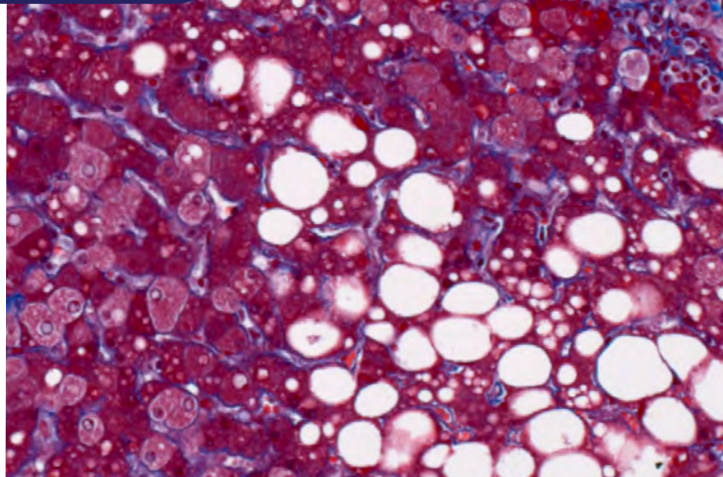
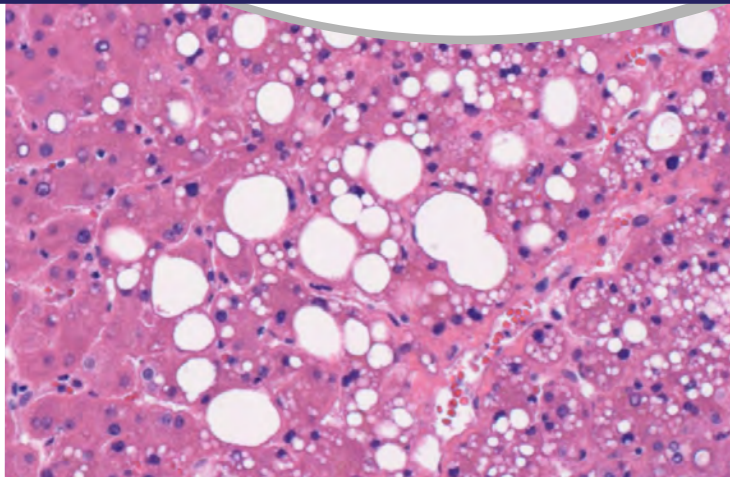
**Human Biology is Complex.** Researchers today are challenged to conduct experiments that reveal the key pathways and mechanisms that drive function and disease at the cellular level. **There's no choice more important than the source and quality of the cells used to study these biological questions.**

Samsara Sciences is committed to supplying high-quality, well-characterized primary human liver cells and tissue for use in research applications. Our extensive cell inventory includes a wide range of donor options from healthy and diseased tissues, providing researchers with the tools they need to obtain physiologically relevant results.

Learn more at [SamsaraSciences.com/ASIP](https://SamsaraSciences.com/ASIP)



*Know your cells. Trust your data.*





*This Chocolate Lab named 'Sherlock' saved my life...*



**Earlier.org - Friends for an Earlier Breast Cancer Test®** has as its mission, finding a new and innovative biological test to detect breast cancer far earlier than is now possible. Since most breast cancer is in the body five to eight years before it can be detected through current methods, there is a window of opportunity for a test that would offer earlier detection, thereby changing the picture of breast cancer treatment and prognosis.



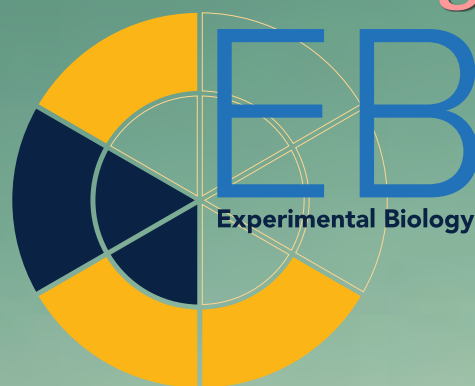
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application deadline  
is December 1<sup>st</sup>.  
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# Save the Date

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- Machine Learning Approaches in  
Modern Neuropathology
- Deep Learning and Artificial Intelligence  
in Pathology
- Clonal Hematopoiesis: Impact on  
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- Coagulation and Fibrinolytic Factors in  
Innate Immunity
- Fixing Fatty Liver
- New Regulatory Mechanisms and  
Functions of Epithelial Junctions
- Drinking From the Firehose: Progress in  
the Practical Uses of Big Data
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