Meeting Program

Molecular Mechanisms of Disease: Tissue Homeostasis, Immune Responses, and Cancer

October 20-22, 2018
University of Michigan • Ann Arbor, MI
Thank you to our meeting sponsors!
Welcome to PISA 2018!

ASIP is proud to host this interactive, abstract-driven, focused scientific conference entitled Molecular Mechanisms of Disease: Tissue Homeostasis, Immune Responses, and Cancer at the University of Michigan in Ann Arbor. Timely and innovative technologies have vastly impacted our understanding of disease pathogenesis in the last decade. This has come from our improved understanding of the fundamental principles of pathology at cellular and molecular levels. Indeed, the fields of cancer biology, molecular pathology, immunity/inflammation, vascular and mucosal pathobiology, microbiome/infectious diseases and tissue injury/repair have undergone unprecedented growth as we reinforce and challenge existing paradigms and discover new ones.

PISA is aimed at delivering attendees the most exciting and up-to-date concepts in pathogenesis and translational medicine. World acclaimed scientists in these areas will deliver lectures, while experienced members of the program committee will moderate discussion during these sessions to generate a cordial, collegial and contemporary environment for learning and networking.

The meeting format will be personal, similar to that of Gordon or FASEB Science Research Conferences. Furthermore, the PISA meeting is a great forum for submitting abstracts, as there are ample opportunities for trainees and junior investigators to give oral poster presentations in the form of short 3-minute talks that will be included between invited lectures as well as multiple opportunities for abstract-driven talks. Poster sessions will be held in an open atrium directly outside of the auditorium, creating an intimate setting for intellectual exchange and constructive comments, especially for trainees and junior faculty.

Attendees of previous PISA meetings have reported that this event exceeded their educational objectives and that this one-of-a-kind format is a valuable addition to the calendar of every researcher interested in the pathogenesis of disease.

We hope you enjoy the meeting and that you gain knowledge that will resonate throughout your professional career.
# Table of Contents

Welcome Letter ................................................................. 1
Meeting & Hotel Map .......................................................... 2
PISA 2018 Highlights ......................................................... 5-9
Submit Your Science .......................................................... 10
PISA 2018 Program ............................................................. 11-17
Award Recipients .............................................................. 18-21
ASIP 2018-2019 Council Roster .......................................... 22
PISA 2018 Planning Committee Roster ................................. 23
Scientific Interest Groups .................................................... 24
Membership Application ..................................................... 25
Welcome to Ann Arbor, Michigan! PISA 2018 is aimed at providing attendees with the most exciting and up-to-date concepts in pathogenesis and translational medicine. World acclaimed scientists will deliver lectures, while members of the PISA 2018 Planning Committee will moderate discussion during these sessions. The major lectures, being held in the Kahn Auditorium, will be interspersed with abstract-driven talks and 3-minute poster blitzes. Additionally, poster sessions will be held in the A. Alfred Taubman Biomedical Science Research Building (BSRB) and will build an intimate setting for intellectual exchange and constructive criticism, especially for trainees and junior faculty.

We hope you will take the opportunity to meet and discuss your science with your fellow attendees and invited speakers, not only during the poster sessions, but during the lunches, breaks, and receptions.

Below, are some meeting highlights. Please be sure to view the full program for specific dates and times for registration, major lectures, breaks, etc.

FRIDAY EVENING, OCTOBER 19

5:00 PM - 7:00 PM - DISPLAY YOUR POSTER
Use Friday evening to hang your poster on your assigned poster boards located in the lobby of the BSRB. All posters MUST be displayed by 8:00 AM, Saturday October 20. Posters have been organized into 12 topic categories:

1. Atherosclerosis and Cardiovascular Disease  ACD1 - ACD4
2. Breast Cancer  BC1 - BC10
3. Cancer  CAN1 - CAN23
4. Cell Injury, Repair, and Signaling Pathways  CIRSP1 - CIRSP8
5. Epithelial and Mucosal Pathobiology  EMP1 - EMP14
6. Gut Microbiome and Disease  GMD1 - GMD8
7. Infectious Diseases  ID1 - ID4
8. Inflammation & Immunity  INIM1 - INIM12
9. Neuropathology  NEURO1 - NEURO5
10. Pathobiology of Liver and Kidney  PLK1 - PLK10
11. Pulmonary Pathobiology  PP1 - PP4
12. Stem Cells and Regenerative Medicine  SCRM1 - SCRM5

SATURDAY MORNING, OCTOBER 20, 2018 - FOCUS ON WOMEN’S CANCERS

9:30 AM - 10:01 AM
3-Minute Poster Blitzes

• 9:30 AM - 9:33 AM  Aaron Lim  - Renal Cell Carcinoma Package Immunosuppressive Cargo into Exosomes (Abstract # CAN1)
• 9:34 AM - 9:37 AM  Jean-Francois Rual  - Characterization of the Role of L3MBTL3 in Breast Cancer (Abstract # BC3)
• 9:38 AM - 9:41 AM  Andrei Ivanov  - Adducins are Multifunctional Regulators of Lung Cancer Cell Migration (Abstract # CAN3)
• 9:42 AM - 9:45 AM  Yuhua Xue  - Glypican 3 (GPC3) Cross Talks with HGF/c-Met Axis in Hepatocytes and Hepatocellular Carcinoma (HCC) by Modulating p-Ezrin Dependent Hippo Pathway (Abstract # PLK6)
• 9:46 AM - 9:49 AM  Qiushu Chen - Chromatin Laser Imaging Reveals Abnormal Nuclear Changes Induced by Dietary Fat for Early Tumor Detection in Colon (Abstract # CAN9)
• 9:50 AM - 9:53 AM  Gozde Uzunalli - Pathology of Blood-Tumor Barrier in Brain Metastasis of Lung Cancer (Abstract # CAN11)
• 9:54 AM - 9:57 AM  Kelvin Jones - Identification of Novel Peptides Against Breast Cancer Cells Undergoing EMT Utilizing Phage Display (Abstract # BC7)
• 9:58 AM - 10:01 AM  Leon Friesen - Regulation of Inflammation and Cancer in the Colon by Dietary Fiber and their Microbial Metabolites: Roles of Barrier Function and Tissue Bacteria (Abstract # CAN17)

10:15 AM - 10:30 AM  
Abstract-Driven Short Talk - RON-Targeted Antibody-Drug Conjugate Therapy Ablates Cancer Stem Cells and Induces Long-Term Tumor Regressions in Preclinical Models of Triple Negative Breast Cancer Sreedhar Reddy Suthe, B.Pharm (Texas Tech University Health Sciences Center) (Abstract # BC6)

11:00 AM - 11:15 AM  
Abstract-Driven Short Talk - Rac1 as a Driver in Ovarian Cancer Metastasis Melanie Rivera, BS (University of New Mexico) (Abstract # CAN5)

12:00 PM - 1:25 PM  
Lunch Session - Biospecimens in Research  
ABC Seminar Room

SATURDAY AFTERNOON - FROM INVESTIGATION TO TRANSLATION: THE GROWING ROLE OF MOLECULAR PATHOLOGY IN CLINICAL DIAGNOSTICS

2:10 PM - 3:01 PM  
3-Minute Poster Blitzes

• 2:30 PM - 2:33 PM  Maria Gonzalez - DDR2-Depleted Mesenchymal Stem Cells Attenuate the Tumor-Promoting Effect of Breast Cancer Cell Engulfment (Abstract # BC1)
• 2:34 PM - 2:37 PM  Triet Bui - Neutrophils Promote Non-Homologous End-Joining (NHEJ)-Mediated Survival of Tumor Cells in Inflammation-Driven Tumorigenesis (Abstract # CAN2)
• 2:38 PM - 2:41 PM  Diane Bielenberg - Investigating the Neuropilin-2/Semaphorin-3F Pathway in Melanoma (Abstract # CAN13)
• 2:42 PM - 2:45 PM  Benoit Niclou - Semaphorin3F as a Novel Targeted Therapy Against PDAC (Abstract # CAN10)
• 2:46 PM - 2:49 PM  Jacqueline Jones- FOXI3: It’s a "Bone" Attraction to Promoting Cancer Progression (Abstract # CAN12)
• 2:50 PM - 2:53 PM  Sabra Djomehri - A Scaffold-Free 3D Organoid Model to Study Neoplastic Progression in Breast Cancer (Abstract # BC8)
• 2:54 PM - 2:57 PM  Wenyi Liu - Detecting Bladder Cancer Through Urinary Survivin by Automated Microfluidic ELISA (Abstract # CAN15)
2:58 PM - 3:01 PM  
*Moloy Goswami* - Identification and Characterization of TPRKB Dependency in p53-Deficient Cancers  
(Abstract # CAN19)

3:15 PM - 3:30 PM  
**Abstract-Driven Short Talk** - Development of a Whole Urine, Next Generation Sequencing-Based Assay for Early Detection of Aggressive Prostate Cancer  
*Andi Cani, MS (University of Michigan)*  
(Abstract # CAN16)

4:10 PM - 5:45 PM  
**Poster Session** (includes refreshments, beer & wine). Please bring your government issued identification if you plan to drink as you will be asked to show it to the bartenders before being served. The minimum legal drinking age is 21.

**Poster Topic Categories**

<table>
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<th>Breast Cancer</th>
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<td>Neuropathology</td>
<td>NEURO1 - NEURO5</td>
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**SUNDAY MORNING, OCTOBER 21, 2018 - INFLAMMATION: THE NEXUS OF INNATE AND ADAPTIVE IMMUNITY**

9:30 AM - 10:01 AM  
3-Minute Poster Blitzes

- **9:30 AM - 9:33 AM**  
  *Heather Grifka-Walk* - Discovery of a Protective and Transmissible Microbiome that Alters Intestinal and Systemic Inflammatory Responses  
  (Abstract # GMD4)

- **9:34 AM - 9:37 AM**  
  *Prarthana Dalal* - Calmodulin and CaMKII Play a Role in Leukocyte Transmigration  
  (Abstract # INIM2)

- **9:38 AM - 9:41 AM**  
  *Yang Mei* - Diaphanous-Related Formin Protein mDia2 Regulates Hematopoietic Stem and Progenitor Cell Functions Through SRF-Integrins Pathway  
  (Abstract # SCRM1)

- **9:42 AM - 9:45 AM**  
  *Atsushi Hayashi* - Impaired IL-22 Production by RORyt+ILC3s in Crohn’s Disease  
  (Abstract # EMP3)

- **9:46 AM - 9:49 AM**  
  *Vicky Garcia-Hernandez* - Stem Cell Factor Inhibition Enhances Recovery from Colitis  
  (Abstract # EMP5)

- **9:50 AM - 9:53 AM**  
  *Zachary Wilson* - Vinculin Accumulates Pulmonary Interstitial Neutrophils in a Murine Model of Acute *P. aeruginosa* Pneumonia  
  (Abstract # INIM9)

- **9:54 AM - 9:57 AM**  
  *Jennifer Bermick* - Neonates Are Uniquely Susceptible to *Escherichia coli* K1 Sepsis Due to Excess Iron  
  (Abstract # ID2)

- **9:58 AM - 10:01 AM**  
  *Alexander Dowdell* - HIF-Dependent Regulation of Salmonella-Induced Autophagy in Intestinal Epithelia  
  (Abstract # EMP9)
10:15 AM - 10:30 AM
Abstract-Driven Short Talk - RocA is an Important Regulator with Serotype-Specific Pathogenesis Functions in Serotype M28 Group A Streptococcus
Paul Bernard, BS (Texas A&M College of Medicine)
(Abstract # ID1)

11:00 AM - 11:15 AM
Abstract-Driven Short Talk - Maternal Microbiota Exposure Regulates Colonic Erdr1 Expression in Offspring
Hirohito Abo, PhD (Georgia State University)
(Abstract # GMD2)

11:20 AM - 12:00 PM
Rous-Whipple Award Lecture & Presentation
Role of the Microbiota in Host Defense and Inflammatory Disease
Gabriel Nuñez, MD (University of Michigan)

12:00 PM - 1:25 PM
Lunch Session - Mechanisms of Organ Fibrosis
ABC Seminar Room

SUNDAY AFTERNOON - CELL DEATH, TISSUE INJURY AND REPAIR

2:30 PM - 3:01 PM
3-Minute Poster Blitzes

   ● 2:30 PM - 2:33 PM  Roberto Mota Alvidez - Development of the First Animal Model of Dyslipidemia, Atherosclerosis, and Diabetes in Mutant apoE-Deficient/ZDF Rats
   (Abstract # ACD1)

   ● 2:34 PM - 2:37 PM  Matthias Kelm - Targeting Epithelial Expressed Sialyl Lewis A Increases Intestinal Barrier Integrity, Improves Mucosal Wound Healing and Protects Against Colitis
   (Abstract # EMP1)

   ● 2:38 PM - 2:41 PM  Shengmin Yan - Autophagy Regulation of Ethanol-Induced Liver Injury Is Affected by Multiple Factors
   (Abstract # PLK3)

   ● 2:42 PM - 2:45 PM  Bejan Saeedi - Regulation of Oxidative Liver Injury by the Probiotic Lactobacillus Rhamnosus GG
   (Abstract # GMD1)

   ● 2:46 PM - 2:49 PM  Xiaojiaoyang Li - Cholangiocyte-Derived Exosomal IncRNA H19 Activates Hepatic Stellate Cells Under Cholestatic Conditions
   (Abstract # PLK4)

   (Abstract # CIRSP7)

3:15 PM - 3:30 PM
Abstract-Driven Short Talk - CAR-Like Membrane Protein (CLMP) is a New Regulator of Intestinal Mucosal Homeostasis and Repair After Injury
Anny-Claude Luissint, PhD (University of Michigan)
(Abstract # EMP7)
3:30 PM - 4:10 PM
Outstanding Investigator Award Lecture & Presentation
The Unfolded Protein Response: Cancer Friend or Foe?
Scott Oakes, MD (University of California, San Francisco)

4:10 PM - 5:30 PM
Poster Session (includes refreshments, beer & wine). Please bring your government issued identification if you plan to drink as you will be asked to show it to the bartenders before being served. The minimum legal drinking age is 21.

Poster Topic Categories

Atherosclerosis and Cardiovascular Disease
Cell Injury, Repair, and Signaling Pathways
Epithelial and Mucosal Pathobiology
Gut Microbiome and Disease
Infectious Diseases
Inflammation & Immunity
Pulmonary Pathobiology

ACD1 - ACD4
CIRSP1 - CIRSP8
EMP1 - EMP14
GMD1 - GMD8
ID1 - ID4
INIM1 - INIM12
PP1 - PP4

6:30 PM - 10:30 PM
An Evening at the Jack Roth Stadium Club at Michigan Stadium ("The Big House")
1201 S. Main Street, Ann Arbor, MI 48104
Roundtrip bus transportation will be provided. Please gather in the lobby of the Graduate Hotel by 6:00 PM.
Buses will leave PROMPTLY at 6:15 PM. PLEASE REMEMBER TO BRING YOUR STADIUM TICKET AND YOUR COLORED ENTRÉE CARD.

Stadium Ticket & Meal Entrée Card: Tucked inside of your meeting badge is a “Stadium Ticket” and a colored “Entrée Card.” The “Stadium Ticket” will contain information regarding the dinner and reception at the Big House and a perforated ticket stub which contains your name and your pre-selected dinner entrée. Once you are seated at your preferred table, the wait staff will come to each table to collect ticket stubs.

When your ticket stub is collected, please place your colored “Entrée Card” near your place setting. This card will be used by the wait staff to identify and serve your pre-selected entrée.

NOTE: Beer and wine will be served. Please bring your government issued identification if you plan to drink, as you will be asked to show it to the bartenders before being served. The minimum legal drinking age is 21.

MONDAY MORNING, OCTOBER 22, 2018 - VASCULAR PATHOBIOLOGY: DISCOVERY AT THE BLOOD-TISSUE INTERFACE

9:45 AM - 10:00 AM
Abstract-Driven Short Talk - Molecular Basis for the Cardiomyopathy of Sepsis and How It May Be Averted
Fatemeh Fattahi, MD, PhD (University of Michigan)
(Abstract # INIM8)

10:15 AM - 10:30 AM
Abstract-Driven Short Talk - The Angiogenic Capability of Mesenchymal Stem Cells Coupled with Tenascin-C Under Hypoxic Conditions
Amritha Justin, BS (University of Pittsburgh)
(Abstract # SCRMS5)

11:00 AM - 11:40 AM
Cotran Early Career Investigator Award Lecture & Presentation
Protein Degradation and the Pathologic Basis of Disease
John Hanna, MD, PhD (Brigham and Women's Hospital)

11:45 AM - 1:00 PM
Awards Presentations
Submit Your Science

Reduced ASIP membership fee for ALL co-authors of accepted AJP manuscripts led by a current ASIP Regular Member!*

Why you should submit to The American Journal of Pathology

- Reduced flat rate of $185 for ASIP Regular Members
- No separate fees for color figures and supplemental data
- Open Access program - $500 discount for ASIP Regular Members
- Almost 40,000 citations annually
- #1 Eigen Factor (pathology journals)
- Top cited pathology journal
- ePub online ahead of print - your article made available as soon as possible!
- Indexing in PubMed, MEDLINE, and SCOPUS

*contact ajp@asip.org for more details
SATURDAY, OCTOBER 20, 2018

7:00 AM - 5:30 PM  Registration

8:15 AM - 8:25 AM  Welcome & Introductions
Asma Nusrat, MD and Charles Parkos, MD, PhD (University of Michigan)

8:25 AM - 8:30 AM  Focus on Women’s Cancers
Co-sponsored by the ASIP Breast Cancer Scientific Interest Group, the ASIP
Neoplasia/Growth Regulation Scientific Interest Group, and the ASIP Tumor
Microenvironment and Metastasis Scientific Interest Group
Introductions - Kathleen Cho, MD
Co-Chairs - Kathleen Cho, MD and Peter Lucas, MD, PhD

8:30 AM - 9:00 AM  Aberrant GPCR Signaling Mechanisms Driving Unique Subsets of Breast Cancer
Peter Lucas, MD, PhD (University of Pittsburgh)

9:00 AM - 9:30 AM  Investigating Mechanisms of the Matrix Protein CCN6 as a New Determinant of
Metaplastic Breast Cancer
Celina Kleer, MD (University of Michigan)

9:30 AM - 10:01 AM  Poster Blitzes (3-minute poster presentations)

- 9:30 AM - 9:33 AM  Aaron Lim - Renal Cell Carcinoma Package Immunosuppressive Cargo into Exosomes
(Abstract # CAN1)

- 9:34 AM - 9:37 AM  Jean-Francois Rual - Characterization of the Role of L3MBTL3 in Breast Cancer
(Abstract # BC3)

- 9:38 AM - 9:41 AM  Andrei Ivanov - Adducins are Multifunctional Regulators of Lung Cancer Cell Migration
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- 9:42 AM - 9:45 AM  Yuhua Xue - Glypican 3 (GPC3) Cross Talks with HGF/c-Met Axis in Hepatocytes and
Hepatocellular Carcinoma (HCC) by Modulating p-Ezrin Dependent Hippo Pathway
(Abstract # PLK6)

- 9:46 AM - 9:49 AM  Qiushu Chen - Chromatin Laser Imaging Reveals Abnormal Nuclear Changes Induced by
Dietary Fat for Early Tumor Detection in Colon
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| 10:15 AM - 10:30 AM | **Abstract-Driven Short Talk** - RON-Targeted Antibody-Drug Conjugate Therapy Ablates Cancer Stem Cells and Induces Long-Term Tumor Regressions in Preclinical Models of Triple Negative Breast Cancer  
*Sreedhar Reddy Suthe, B.Pharm (Texas Tech University Health Sciences Center)*  
(Abstract # BC6) |
| 10:30 AM - 11:00 AM | **Modeling “Ovarian” Cancers in the Mouse: Progress, Pitfalls and Potential New Platforms for Translational Applications**  
*Kathleen Cho, MD (University of Michigan)* |
| 11:00 AM - 11:15 AM | **Abstract-Driven Short Talk** - Rac1 as a Driver in Ovarian Cancer Metastasis  
*Melanie Rivera, BS (University of New Mexico)*  
(Abstract # CAN5) |
| 11:15 AM - 11:45 AM | **A miRNA-Mediated Approach to Dissect the Complexity of Ovarian Tumor-Initiating Cells and Identify miRNA-Targeting Drugs**  
*Analisa DiFeo, PhD (University of Michigan)* |
| 12:00 PM - 1:25 PM  | **Lunch Session - Biospecimens in Research**  
*ABC Seminar Room*  
*Co-sponsored by the ASIP Biobanking Scientific Interest Group, the ASIP Education Committee, and the ASIP Committee for Career Development and Diversity*  
*Moderator - Diane Bielenberg, PhD (Harvard Medical School, Boston Children’s Hospital)* |
| 12:00 PM - 1:00 PM  | **Maximizing Biospecimen Resources**  
*Kelsey Dillehay McKillip, PhD (University of Cincinnati)* |
| 1:00 PM - 1:25 PM   | **Q & A with Panelists:**  
*Kelsey Dillehay McKillip, PhD (University of Cincinnati)*  
*Daniel Remick, MD (Boston University)*  
*Mark Sobel, MD, PhD (American Society for Investigative Pathology)* |
| 1:25 PM - 1:30 PM   | **From Investigation to Translation: The Growing Role of Molecular Pathology in Clinical Diagnostics**  
*Co-sponsored by the ASIP Molecular Diagnostic Pathology Scientific Interest Group*  
*Introductions - David Williams, MD, PhD*  
*Co-Chairs - David Williams, MD, PhD and Nathan Montgomery, MD, PhD* |
| 1:30 PM - 2:00 PM   | **New Insights into HIV-Associated Lymphomagenesis**  
*Nathan Montgomery, MD, PhD (University of North Carolina)* |
| 2:00 PM - 2:30 PM   | **The Application of Integrative Sequencing for Precision Oncology**  
*Arul Chinnaiyan, MD, PhD (University of Michigan)* |
| 2:30 PM - 3:01 PM   | **Poster Blitzes (3-minute poster presentations)**  
*2:30 PM - 2:33 PM*  
*Maria Gonzalez - DDR2-Depleted Mesenchymal Stem Cells Attenuate the Tumor-Promoting Effect of Breast Cancer Cell Engulfment*  
(Abstract # BC1)  
*2:34 PM - 2:37 PM*  
*Triet Bui - Neutrophils Promote Non-Homologous End-Joining (NHEJ)-Mediated Survival of Tumor Cells in Inflammation-Driven Tumorigenesis*  
(Abstract # CAN2)  
*2:38 PM - 2:41 PM*  
*Diane Bielenberg - Investigating The Neuropilin-2/Semaphorin-3F Pathway In Melanoma*  
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Andi Cani, MS (University of Michigan)  
(Abstract # CAN16)

3:30 PM - 4:10 PM  
The Trek from Lebanon to Honduras: The Impact of Near Patient Testing in an LMIC  
Gregory Tsongalis, PhD (Dartmouth-Hitchcock Medical Center)

4:10 PM - 5:45 PM  
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  PLK1 - PLK10
- Stem Cells and Regenerative Medicine  
  SCRM1 - SCRM5
- Neuropathology  
  NEURO1 - NEURO5

5:45 PM  
Free Night - Visit Michigan
SUNDAY, OCTOBER 21, 2018

7:00 AM - 5:30 PM Registration

8:15 AM - 8:25 AM Welcome & Introductions
Asma Nusrat, MD and Charles Parkos, MD, PhD (University of Michigan)

8:25 AM - 8:30 AM Inflammation: The Nexus of Innate and Adaptive Immunity
Co-sponsored by the ASIP Inflammation/Immunopathology Scientific Interest Group
Introductions - Pilar Alcaide, PhD
Co-Chairs - Pilar Alcaide, PhD and Tanya Mayadas, PhD

8:30 AM - 9:00 AM Acute Host Responses to Infection and Inflammation at Mucosal Barriers
Mark Miller, PhD (Washington University School of Medicine)

9:00 AM - 9:30 AM Neutrophil FcgRs in the Regulation of Immune Responses
Tanya Mayadas, PhD (Brigham and Women's Hospital)

9:30 AM - 10:01 AM Poster Blitzes (3-minute poster presentations)

- 9:30 AM - 9:33 AM Heather Grifka-Walk - Discovery of a Protective and Transmissible Microbiome that Alters Intestinal and Systemic Inflammatory Responses (Abstract # GMD4)
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- 9:54 AM - 9:57 AM Jennifer Bermick - Neonates Are Uniquely Susceptible to Escherichia coli K1 Sepsis Due to Excess Iron (Abstract # ID2)
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10:15 AM - 10:30 AM Abstract-Driven Short Talk - RocA is an Important Regulator with Serotype-Specific Pathogenesis Functions in Serotype M28 Group A Streptococcus
Paul Bernard, BS (Texas A&M College of Medicine) (Abstract # ID1)

10:30 AM - 11:00 AM Intestinal Epithelial Allergen Sampling and Food Allergy
Simon Hogan, PhD (University of Michigan)

11:00 AM - 11:15 AM Abstract-Driven Short Talk - Maternal Microbiota Exposure Regulates Colonic Erdr1 Expression in Offspring
Hirohito Abo, PhD (Georgia State University) (Abstract # GMD2)
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**Rous-Whipple Award Lecture & Presentation**  
*Role of the Microbiota in Host Defense and Inflammatory Disease*  
*Gabriel Nuñez, MD (University of Michigan)*

12:00 PM - 1:25 PM  
**Lunch Session - Mechanisms of Organ Fibrosis**  
**ABC Seminar Room**  
*Co-sponsored by the ASIP Liver Pathobiology Scientific Interest Group*

12:20 PM - 12:25 PM  
**Introductions - Satdarshan (Paul) S. Monga, MD (University of Pittsburgh)**

12:25 PM - 12:40 PM  
**Herpes Virus and IL-17 Drive Pneumonitis and Fibrosis Post-Stem Cell Transplant**  
*Bethany Moore, PhD (University of Michigan)*

12:40 PM - 12:55 PM  
**Molecular Dissection of the Fibrogenic Niche in Kidney Fibrosis**  
*Youhua Liu, PhD (University of Pittsburgh)*

12:55 PM - 1:10 PM  
**Targeting Activated Myofibroblasts in Liver Fibrosis**  
*Satdarshan (Paul) S. Monga, MD (University of Pittsburgh)*

1:10 PM - 1:25 PM  
**Meet the Experts - Open Discussions**

1:25 PM - 1:30 PM  
**Cell Death, Tissue Injury and Repair**  
*Co-sponsored by the ASIP Cell Injury Scientific Interest Group*  
**Introductions - Jennifer Brazil, PhD**  
**Co-Chairs- Jennifer Brazil, PhD and Andrei Ivanov, PhD**

1:30 PM - 2:00 PM  
**Microbial Modulation of Mucosal Restitution**  
*Andrew Neish, PhD (Emory University)*

2:00 PM - 2:30 PM  
**Organoids as Tools to Understand Human Development and Organ Homeostasis**  
*Jason Spence, PhD (University of Michigan)*

2:30 PM - 3:01 PM  
**Poster Blitzes (3-minute poster presentations)**

- **2:30 PM - 2:33 PM**  
  *Roberto Mota Alvidez* - Development of the First Animal Model of Dyslipidemia, Atherosclerosis, and Diabetes in Mutant apoE Deficient/ZDF Rats  
  *(Abstract # ACD1)*

- **2:34 PM - 2:37 PM**  
  *Matthias Kelm* - Targeting Epithelial Expressed Sialyl Lewis A Increases Intestinal Barrier Integrity, Improves Mucosal Wound Healing and Protects Against Colitis  
  *(Abstract # EMP1)*

- **2:38 PM - 2:41 PM**  
  *Shengmin Yan* - Autophagy Regulation of Ethanol-Induced Liver Injury Is Affected By Multiple Factors  
  *(Abstract # PLK3)*

- **2:42 PM - 2:45 PM**  
  *Bejan Saeedi* - Regulation of Oxidative Liver Injury by the Probiotic *Lactobacillus rhamnosus* GG  
  *(Abstract # GMD1)*

- **2:46 PM - 2:49 PM**  
  *Xiaojiayang Li* - Cholangiocyte-Derived Exosomal IncRNA H19 Activates Hepatic Stellate Cells Under Cholestatic Conditions  
  *(Abstract # PLK4)*

- **2:50 PM - 2:53 PM**  
  *Rachel Zemans* - Single Cell RNA-Seq Identifies TGF-beta as a Critical Regulator of Lung Regeneration  
  *(Abstract # CIRSP7)*

3:02 PM - 3:15 PM  
**Break**
3:15 PM - 3:30 PM  **Abstract-Driven Short Talk - CAR-Like Membrane Protein (CLMP) is a New Regulator of Intestinal Mucosal Homeostasis and Repair After Injury**
*Anny-Claude Luissint, PhD (University of Michigan)*
(Abstract #EMP7)

3:30 PM - 4:10 PM  **Outstanding Investigator Award Lecture & Presentation**
*The Unfolded Protein Response: Cancer Friend or Foe?*
*Scott Oakes, MD (University of California, San Francisco)*

4:10 PM - 5:30 PM  **Poster Session** (includes refreshments, beer & wine). Please bring your government issued identification if you plan to drink as you will be asked to show it to the bartenders before being served. The minimum legal drinking age is 21.

Poster Topic Categories:

- Atherosclerosis and Cardiovascular Disease: ACD1 - ACD4
- Cell Injury, Repair, and Signaling Pathways: CIRSP1 - CIRSP8
- Epithelial and Mucosal Pathobiology: EMP1 - EMP14
- Gut Microbiome and Disease: GMD1 - GMD8
- Infectious Diseases: ID1 - ID4
- Inflammation & Immunity: INIM1 - INIM12
- Pulmonary Pathobiology: PP1 - PP4

6:30 PM - 10:30 PM  **An Evening at the Jack Roth Stadium Club at Michigan Stadium ("The Big House")**
1201 S. Main Street, Ann Arbor, MI 48104
Roundtrip bus transportation will be provided. Please gather in the lobby of the Graduate Hotel by 6:00 PM. **Buses will leave PROMPTLY at 6:15 PM. PLEASE REMEMBER TO BRING YOUR STADIUM TICKET AND YOUR COLORED MEAL CARD.**

NOTE: Beer and wine will be served. Please bring your government issued identification if you plan to drink as you will be asked to show it to the bartenders before being served. The minimum legal drinking age is 21.
7:00 AM - 12:00 PM  
Registration

8:15 AM - 8:25 AM  
Welcome & Introductions  
Asma Nusrat, MD and Charles Parkos, MD, PhD (University of Michigan)

8:25 AM - 8:30 AM  
Vascular Pathobiology: Discovery at the Blood-Tissue Interface  
Co-sponsored by the ASIP Vascular and Mucosal Pathobiology Scientific Interest Group and the ASIP Regenerative Medicine and Stem Cells Scientific Interest Group  
Introductions - Richard Mitchell, MD, PhD  
Co-Chairs - Richard Mitchell, MD, PhD and Denuja Karunakaran, PhD

8:30 AM - 9:00 AM  
New Insights into Flow-Dependent Vascular Endothelial Cell Function and Dysfunction  
Guillermo Garcia-Cardeña, PhD (Brigham and Women’s Hospital)

9:00 AM - 9:30 AM  
Border Crossings: Leukocyte/Endothelial Cell Interactions During Inflammation  
William Muller, MD, PhD (Northwestern University)

9:30 AM - 9:45 AM  
RIPK1: A Novel Therapeutic Target to Treat Cardiometabolic Diseases  
Denuja Karunakaran, PhD (University of Ottawa Heart Institute)

9:45 AM - 10:00 AM  
Abstract-Driven Short Talk - Molecular Basis for the Cardiomyopathy of Sepsis and How It May Be Averted  
Fatemeh Fattahi, MD, PhD (University of Michigan)  
(Abstract # INIM8)

10:00 AM - 10:15 AM  
Break

10:15 AM - 10:30 AM  
Abstract-Driven Short Talk - The Angiogenic Capability of Mesenchymal Stem Cells Coupled with Tenascin-C Under Hypoxic Conditions  
Amritha Justin, BS (University of Pittsburgh)  
(Abstract # SCRM5)

10:30 AM - 11:00 AM  
A Novel Role for the Endothelial Glycocalyx in the Regulation of Vascular Inflammation and Angiogenesis  
Patricia D’Amore, PhD (Schepens Eye Institute)

11:00 AM - 11:40 AM  
Cotran Early Career Investigator Award Lecture & Presentation  
Protein Degradation and the Pathologic Basis of Disease  
John Hanna, MD, PhD (Brigham and Women's Hospital)

11:45 AM - 1:00 PM  
Awards Presentations

1:15 PM  
Closing Remarks  
Box lunches will be available at the conclusion of the meeting.

Thank you for attending PISA 2018 and making it a tremendous success! At the conclusion of the meeting, please complete the online PISA 2018 Meeting Evaluation. Your input will be of value as we plan the scientific program and activities for future meetings.

Navigate to: https://www.surveymonkey.com/r/PISA18EVAL
2019 Meritorious Award Winners

**ASIP 2019 Rous-Whipple Award Recipient**

**Gabriel Nuñez, MD**  
University of Michigan

The ASIP Rous-Whipple Award is presented to a senior scientist with a distinguished career in research who has advanced the understanding of disease and has continued productivity at the time of this award.

**ASIP 2019 Cotran Early Career Investigator Award Recipient**

**John Hanna, MD, PhD**  
Brigham and Women’s Hospital

The ASIP Cotran Early Career Investigator Award recognizes early career investigators with demonstrated excellence as an investigator who have recently established independence and a research focus leading to an improved understanding of the conceptual basis of disease.

**ASIP 2019 Outstanding Investigator Award Recipient**

**Scott Oakes, MD**  
University of California, San Francisco

The ASIP Outstanding Investigator Award recognizes mid-career investigators with demonstrated excellence in research in experimental pathology.
2018 Junior Faculty and Trainee Travel Awards

George K. Michalopoulos  
Junior Faculty Award Recipients

Jacqueline Jones, PhD, MBA  
Troy University

Miguel Quiros, PhD  
University of Michigan

ASIP Experimental Pathologist-In-Graduate Training (EPIGT) Award Recipient

Prarthana Dalal, BA  
Northwestern University

ASIP Merit Award Recipient

Shyanne Page-Hefley, BS  
Texas Tech University Health Sciences Center

A. D. Sobel Scholar Trainee Travel Award Recipients

Paul Bernard, BS  
Houston Methodist Research Institute

Triet Bui, BS  
Northwestern University

Alexander Dowdell, PhD  
University of Colorado Anschutz

Michelle LeBlanc, PhD  
Schepens Eye Research Institute
A. D. Sobel Scholar Trainee Travel Award Recipients, continued

Benoit Niclou, MS
Boston Children’s Hospital

Bejan Saeedi, BS
Emory University

ASIP Trainee Travel Award Recipient

Andi Cani, MS
University of Michigan

Vicky Garcia-Hernandez, PhD
University of Michigan

Matthias Kelm, MD
University of Michigan

Larry and Marion Muller Memorial Fund for Excellence in Inflammation Research Award Recipient

Heather Grifka-Walk, PhD
Montana State University

GALL Trainee Travel Award for Excellence in Cardiovascular Research Award Recipient

Francisco Carrillo-Salinas, PhD
Tufts University
ASIP Promoting Diversity in Science Travel Award Recipients

Kelvin Jones, MS, BS
Tuskegee University

Roberto Mota Alvidrez, MD
University of North Carolina, Chapel Hill

Melanie Rivera, BS
University of New Mexico

Summer Research Opportunity Program in Pathology (SROPP) Travel Awards Recipients

Dana Julian
University of Pittsburgh

Ellah Nzikoba
Boston Children’s Hospital

ASIP International Trainee Travel Award

Michael Nweke, MBBS
University College Hospital, Nigeria
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Rockville, MD

**Richard Mitchell, MD, PhD**  
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Brigham & Women’s Hospital  
Boston, MA

**David Williams, MD, PhD**  
Member  
University of North Carolina  
Chapel Hill, NC
2018 Scientific Interest Groups and Leaders

**Biobanking**
Daniel Remick, MD
Liliana Guedez, PhD

**Breast Cancer**
William B. Coleman, PhD
Ashley G. Rivenbark, PhD

**Cell Injury**
Monte S. Willis, MD, PhD
Cecelia C. Yates, PhD

**Digital and Computational Pathology**
Stanley Cohen, MD
John Tomaszewski, MD

**Environmental and Toxicologic Pathology**
Elizabeth Galbreath, DVM, PhD

**Gene Expression**
Philip Iannaccone, MD, PhD
David Williams, MD, PhD
Qin Yan, PhD

**Immunohistochemistry and Microscopy**
Stephen M. Hewitt, MD, PhD
Charles W. Frevert, DVM, ScD

**Inflammation/Immunopathology**
Jonathan Lin, MD, PhD
Nissi Varki, MD

**Liver Pathobiology**
Satdarshan Paul S. Monga, MD
Kari Nejak-Bowen, MBA, PhD

**Molecular Diagnostic Pathology**
Gregory Tsongalis, PhD
Andrei Turtoi, PhD

**Neuropathology**
Warren G. Tourtellotte, MD, PhD, FCAP
Christi L. Kolarck, PhD

**Neoplasia/Growth Regulation**
Kevin Gardner, MD, PhD
Qing Zhang, PhD

**Pulmonary Pathobiology**
Dani Zander, MD

**Regenerative Medicine and Stem Cells**
Jose Javier Otero, MD, PhD
Bryon Petersen, PhD

**Tumor Microenvironment and Metastasis**
William Stetler-Stevenson, MD, PhD
Anirban Maitra, MBBS
Piyali Dasgupta, PhD

**Vascular and Mucosal Pathobiology**
Francis W. Luscinskas, PhD
Asma Nusrat, MD
Dan Milner, MD, MSc
Michael Schnoor, PhD, MSc
David P. Sullivan, PhD

**Veterinary and Comparative Pathology**
A. Sally Davis, DVM, PhD
Elizabeth Whitley, DVM, PhD

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Attending PISA 2018
MEMBERSHIP APPLICATION

Member Benefits

- Scientific Meetings & Courses
  Reduced registration rates for ASIP members to attend PISA and the ASIP Annual Meeting at Experimental Biology.

- 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.

- 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.

- Reduced Author Charges:
  ASIP Regular Members in good standing (at the time of article submission) who are Corresponding Authors of an accepted article in AJP or JMD receive a discount on author page charges (member rate for AJP: $185 per page, member rate for JMD: $90 per page). This benefit does not apply to Next-Generation-Scientist, Trainee, Associate, or Emeritus members.

- ASP Regular Members can also take advantage of a $500 discount on AJP Open Access fees. This benefit does not apply Next-Generation-Scientist, Trainee, Associate or Emeritus members, nor does it apply to manuscripts published in JMD.

- Reduced subscription rate to the JMD Journal CME Program in Molecular Diagnostics

- Eligibility for ASIP Awards and Honors

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

- The Society newsletter, ASIP Pathways, features science policy reports on current issues affecting biomedical researchers, as well as news from Committees and members, and other articles of interest.

- FASEB Directory of Members
  ASP member names and contact information included in the online FASEB Directory of Members, including 130,000 scientists and engineers of the 31 represented FASEB member societies

Please submit your application to:
American Society for Investigative Pathology
Attn: Membership Department
1801 Rockville Pike • Suite 350
Rockville, MD 20852 (USA)
Phone: 240.283.9712, Fax: 301.984.4047
Email: membership@asip.org
web: www.asip.org/apply/
Applications are reviewed and subject to approval in accordance with the ASP 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.

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City, State, Zip or Postal Code
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Certiﬁcations (Please List)

Degrees:
- PhD
- DVM
- MD
- DO
- MD/PhD
- Other

Gender (Optional Information):
- Male
- Female

Ethnicity (Optional Information):
- Asian
- Black/African American
- Caucasian
- Hispanic or Latino
- Native American
- 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 Musculoskeletal Pathobiology
- Veterinary and Comparative Pathology

Annual Dues

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All APPLICANTS FOR TRAINEE MEMBERSHIP CATEGORIES LISTED ABOVE MUST COMPLETE THE FOLLOWING:
(A) I expect to receive the following degree:
- PhD
- DVM
- MD
- DO (year conferred)
- MD/PhD
- Other

(B) 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.

Supervisor’s Name (Please print)
Supervisor’s Email (Please print)
Supervisor’s Signature

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- $50 - Print Upgrade (USA & International)

Curriculum Vitae (CV) / Biographical Sketch
I will mail, fax, or email my CV or Biographical Sketch to the ASIP Office at the address below. I understand that my application for membership will NOT be processed without my CV/Sketch. Preferred if you are registered with eRA Commons, submit your NIH Biographical Sketch*. Undergraduate Students, Pre-Doctoral and Post-Doctoral Trainees not yet registered with eRA Commons may use the ASIP Biographical Sketch templates available at www.asip.org/apply.

*OMB No. 0925-0001 and 0925-0002 (Rev. 10/15 Approved Through 10/31/2018)

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Submit your abstract to an ASIP Topic Category:

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- Inflammation and Immunopathology
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- Lung Pathobiology
- Metabolic Disorders and Metabolics
- Molecular Diagnostics
- Mucosal Inflammation, Epithelial-Leukocyte Interactions and Epithelial Pathobiology
- Neoplasia
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- Non-Neoplastic Tissue and Organ Pathobiology
- Pathobiology of Aging
- Pathobiology of Infectious Disease
- Regenerative Medicine and Stem Cells
- Translational Research
- Vascular Biology and Pathology
- Veterinary and Comparative Pathology

For a full listing of abstract topic categories, complete scientific program, information on travel awards for trainees and junior faculty, meritorious award lectures, major symposia, workshops, career development sessions, and educational events, see: ASIP19.ASIP.org

Important Deadlines

- Abstract Deadline
  November 14, 2019
- Early Meeting Registration Deadline
  February 5, 2019
- Late-Breaking Abstract Submission Site Opens
  November 28, 2018
- Late-Breaking Abstract Submission Deadline
  January 30, 2019
- Advance Registration Deadline
  March 13, 2019
- Housing Block Closes
  March 22, 2019

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