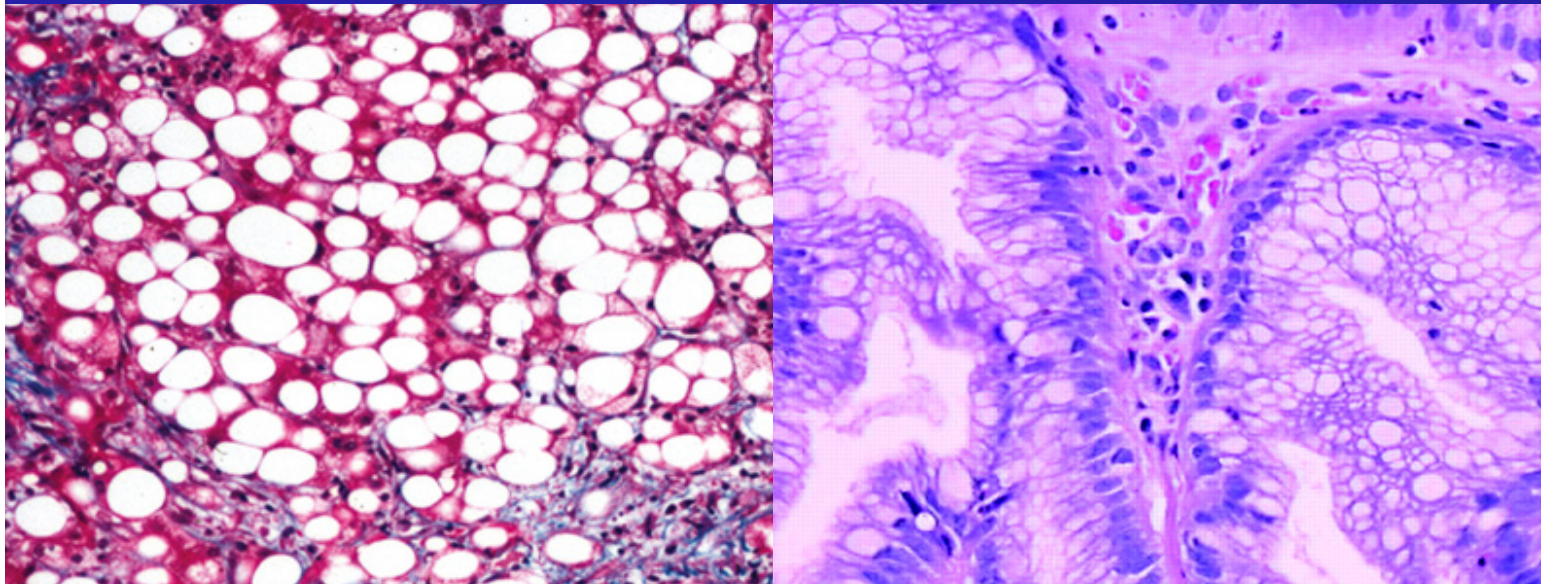


Meeting Program

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



October 20-22, 2018
University of Michigan • Ann Arbor, MI



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Welcome to PISA 2018!



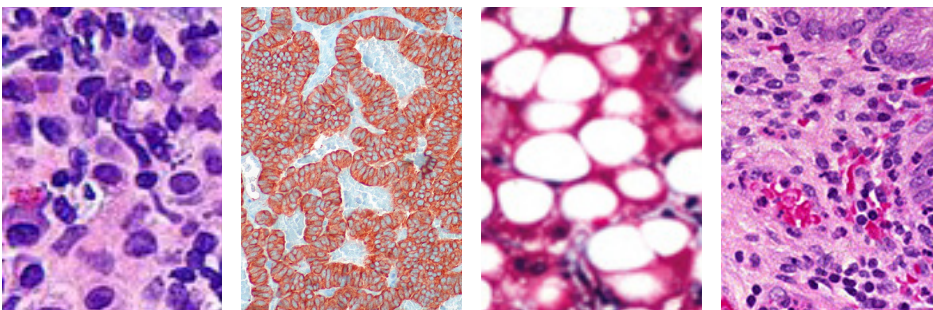
ASIP is proud to host this interactive, abstract-driven, focused scientific conference entitled **Molecular Mechanisms of Disease: Tissue Homeostasis, Immune Responses, and Cancer** at the University of Michigan in Ann Arbor. Timely and innovative technologies have vastly impacted our understanding of 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.

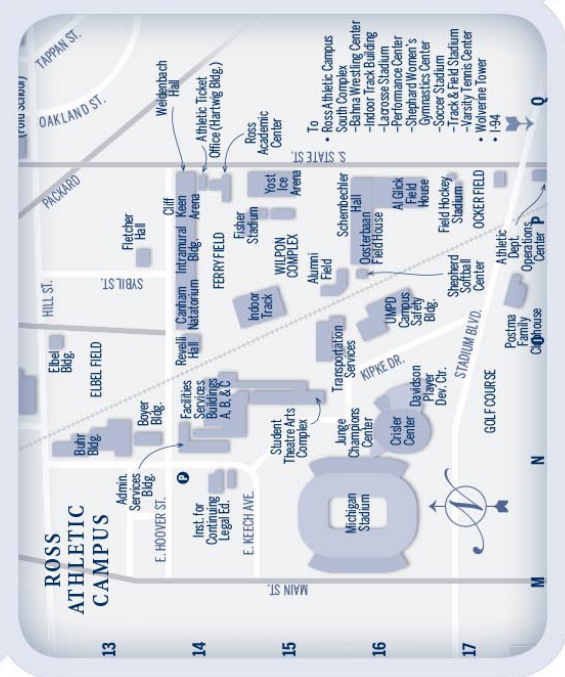
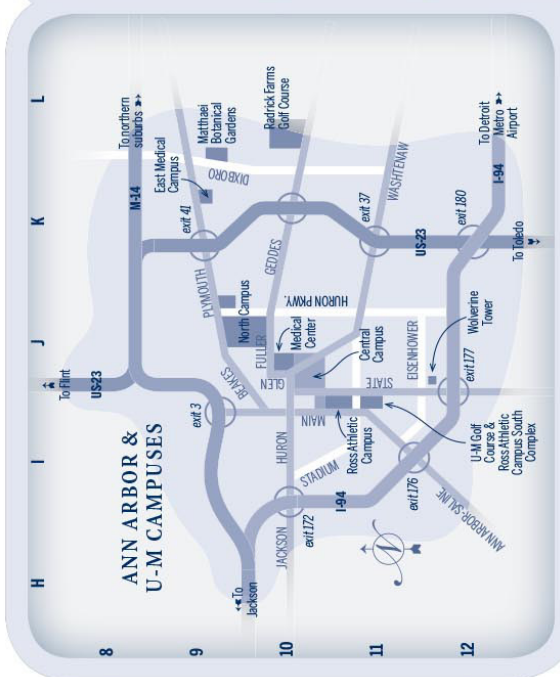
PISA is aimed at delivering attendees the most exciting and up-to-date concepts in pathogenesis and translational medicine. World acclaimed scientists in these areas will deliver lectures, while experienced members of the program committee will moderate discussion during these sessions to generate a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







Pathobiology for Investigators, Students and Academicians

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

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PISA 2018 PROGRAM HIGHLIGHTS

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 Suthre, 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

Breast Cancer	BC1 - BC10
Cancer	CAN1 - CAN23
Pathobiology of Liver and Kidney	PLK1 - PLK10
Stem Cells and Regenerative Medicine	SCRM1 - SCRM5
Neuropathology	NEURO1 - NEURO5

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 ROR γ t+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 *Xiaojiayang Li* - Cholangiocyte-Derived Exosomal lncRNA 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 Liver Regeneration
(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	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 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 # SCRM5)

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

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PISA 2018 MEETING PROGRAM

All sessions are being held in the Kahn Auditorium at the University of Michigan Medical School in the A. Alfred Taubman Biomedical Science Research Building (BSRB) unless otherwise noted.

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
(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)

10:02 AM - 10:15 AM

Break

- 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 Sutha, 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*
(Abstract # CAN13)

- 2:42 PM - 2:45 PM *Benoit Niclou* - Semaphorin3F as a Novel Targeted Therapy Against PDAC
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- 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
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- 2:58 PM - 3:01 PM *Moloy Goswami* - Identification and Characterization of TPRKB Dependency in p53-Deficient Cancers
(Abstract # CAN19)

3:02 PM - 3:15 PM

Break

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)

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

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

- | | |
|--------------------------------------|-----------------|
| Breast Cancer | BC1 - BC10 |
| Cancer | CAN1 - CAN23 |
| Pathobiology of Liver and Kidney | 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 FcγRs 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)

● 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 # SCR11)

● 9:42 AM - 9:45 AM

Atsushi Hayashi - Impaired IL-22 Production by RORγt+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)

10:02 AM - 10:15 AM

Break

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 *Erd1* Expression in Offspring

Hirohito Abo, PhD (Georgia State University)

(Abstract # GMD2)

11:20 AM - 12:00 PM	<p>Rous-Whipple Award Lecture & Presentation Role of the Microbiota in Host Defense and Inflammatory Disease <i>Gabriel Nuñez, MD (University of Michigan)</i></p>
12:00 PM - 1:25 PM	<p>Lunch Session - Mechanisms of Organ Fibrosis ABC Seminar Room <i>Co-sponsored by the ASIP Liver Pathobiology Scientific Interest Group</i></p>
12:20 PM - 12:25 PM	<p>Introductions - Satdarshan (Paul) S. Monga, MD (University of Pittsburgh)</p>
12:25 PM - 12:40 PM	<p>Herpes Virus and IL-17 Drive Pneumonitis and Fibrosis Post-Stem Cell Transplant <i>Bethany Moore, PhD (University of Michigan)</i></p>
12:40 PM - 12:55 PM	<p>Molecular Dissection of the Fibrogenic Niche in Kidney Fibrosis <i>Youhua Liu, PhD (University of Pittsburgh)</i></p>
12:55 PM - 1:10 PM	<p>Targeting Activated Myofibroblasts in Liver Fibrosis <i>Satdarshan (Paul) S. Monga, MD (University of Pittsburgh)</i></p>
1:10 PM - 1:25 PM	<p>Meet the Experts - Open Discussions</p>
1:25 PM - 1:30 PM	<p>Cell Death, Tissue Injury and Repair <i>Co-sponsored by the ASIP Cell Injury Scientific Interest Group</i> Introductions - <i>Jennifer Brazil, PhD</i> Co-Chairs- <i>Jennifer Brazil, PhD and Andrei Ivanov, PhD</i></p>
1:30 PM - 2:00 PM	<p>Microbial Modulation of Mucosal Restitution <i>Andrew Neish, PhD (Emory University)</i></p>
2:00 PM - 2:30 PM	<p>Organoids as Tools to Understand Human Development and Organ Homeostasis <i>Jason Spence, PhD (University of Michigan)</i></p>
2:30 PM - 3:01 PM	<p>Poster Blitzes (3-minute poster presentations)</p>
• 2:30 PM - 2:33 PM	<p><i>Roberto Mota Alvidez - Development of the First Animal Model of Dyslipidemia, Atherosclerosis, and Diabetes in Mutant apoE Deficient/ZDF Rats</i> (Abstract # ACD1)</p>
• 2:34 PM - 2:37 PM	<p><i>Matthias Kelm - Targeting Epithelial Expressed Sialyl Lewis A Increases Intestinal Barrier Integrity, Improves Mucosal Wound Healing and Protects Against Colitis</i> (Abstract # EMP1)</p>
• 2:38 PM - 2:41 PM	<p><i>Shengmin Yan - Autophagy Regulation of Ethanol-Induced Liver Injury Is Affected By Multiple Factors</i> (Abstract # PLK3)</p>
• 2:42 PM - 2:45 PM	<p><i>Bejan Saeedi - Regulation of Oxidative Liver Injury by the Probiotic <i>Lactobacillus rhamnosus</i> GG</i> (Abstract # GMD1)</p>
• 2:46 PM - 2:49 PM	<p><i>Xiaojaoyang Li - Cholangiocyte-Derived Exosomal lncRNA H19 Activates Hepatic Stellate Cells Under Cholestatic Conditions</i> (Abstract # PLK4)</p>
• 2:50 PM - 2:53 PM	<p><i>Rachel Zemans - Single Cell RNA-Seq Identifies TGF-beta as a Critical Regulator of Lung Regeneration</i> (Abstract # CIRSP7)</p>
3:02 PM - 3:15 PM	<p>Break</p>

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.

MONDAY, OCTOBER 22, 2018

- 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-Cardena, 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 Recipients

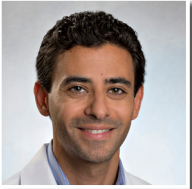
ASIP 2019 Rous-Whipple Award Recipient



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



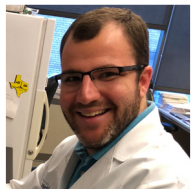
Prarthana Dalal, BA
Northwestern University

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



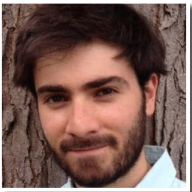
Pathobiology for Investigators, Students and Academicians

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

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

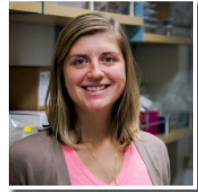


Vicky Garcia-Hernandez, PhD
University of Michigan



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



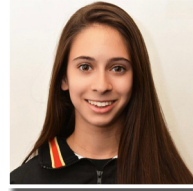
Melanie Rivera, BS
University of New Mexico

ASIP International Trainee Travel Award



Michael Nweke, MBBS
University College Hospital, Nigeria

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



Dana Julian
University of Pittsburgh



Ellah Nzikoba
Boston Children's Hospital



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University of Michigan

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Pathobiology for Investigators, Students and Academicians

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

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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. Kolarcik, 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. Lusinskas, 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

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.
 
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- 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**
 ASIP 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 ASIP Bylaws. Your membership benefits will commence on the first day of the month following approval of your application. Your membership will be valid for 12 months from the date of commencement.

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

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 Institution _____
 Department _____
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 Suite/Floor _____
 City, State, Zip or Postal Code _____
 Country _____
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 Cell Phone _____
 Email _____
 Date of Birth (Month/Day/Year) _____
 Certifications (Please List) _____

Degrees:
 PhD DVM
 MD DO
 MD/PhD Other _____

Gender (Optional Information):
 Male Female

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

Scientific Interest Groups

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

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PhD DVM In _____
 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)
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The Journal of Molecular Diagnostics (JMD)
 \$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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AMERICAN SOCIETY FOR INVESTIGATIVE PATHOLOGY

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April 6-9
2019
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Submit your abstract to an ASIP Topic Category:

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- Vascular Biology and Pathology
- Veterinary and Comparative Pathology

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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