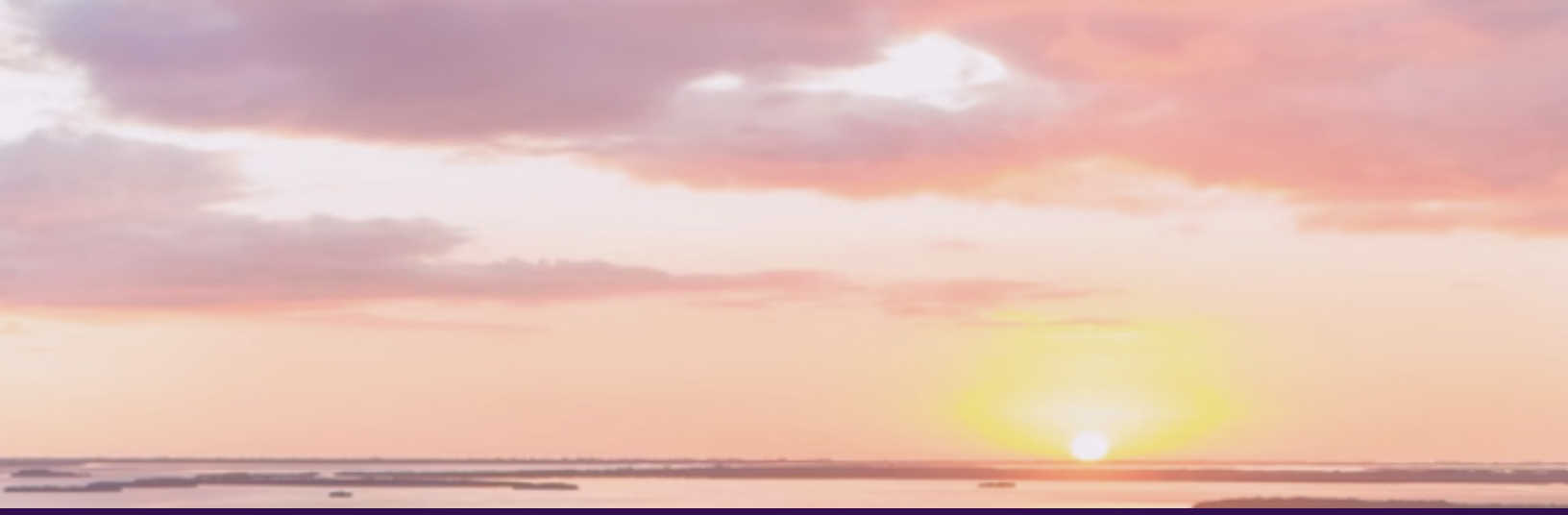


SLAM 2024

Summer Liver Academy Meeting

Meeting Program



June 16–20
Cape Coral, FL

The American Journal of Pathology



2022 Journal Impact Factor*

6.0

**Journal Citation Reports®*
(Clarivate Analytics, 2023)

Official journal of the American Society for Investigative Pathology

The American Journal of Pathology, official journal of the American Society for Investigative Pathology, published by Elsevier, Inc., publishes high-quality original research reports, reviews, and commentaries related to the molecular and cellular basis of disease.

Editor-in-Chief:
Martha Furie, PhD

The Editor welcomes basic, translational, and clinical investigations that directly address mechanisms of pathogenesis or provide a foundation for future mechanistic inquiries. Examples of such foundational investigations include data mining, identification of biomarkers, molecular pathology, and discovery research. Foundational studies that incorporate deep learning and artificial intelligence are also welcome. High priority is given to studies of human disease and relevant experimental models using molecular, cellular, and organismal approaches.

A subscription to *The American Journal of Pathology* is included with membership to the ASIP, and publication fees are discounted for Regular Members.

ajp.amjpathol.org

ELSEVIER

ASIP
American Society for Investigative Pathology

Table of Contents

Awardees.....4
Sponsors.....5
Scientific Program.....7



Junior Faculty Scholar Awardees

Tianliang Sun, PhD
Icahn School of Medicine at Mount Sinai

Maria Moreno-Fernandez, PhD
Cincinnati Children's Hospital Medical Center

Milad Rezvani, MD, PhD
Charité Universitätsmedizin Berlin

Michael Thompson, MD, PhD
Washington University School of Medicine, St. Louis

Trainee Scholar Awardees

Shahrbnoo Keshavarz Aziziraftar, PhD
University of California, San Francisco

Ashley Calder, PhD
University of Michigan

Kenji Ito, PhD
University of Pennsylvania

Yekaterina Krutsenko, BS
University of Pittsburgh

Sachin Sharma, PhD
University of California, San Francisco

Priyanka Banerjee, PhD
Texas A&M Health Science Center

Hannah Hrncir, BS
Emory University

Kendall Kanakanui, BS
Emory University

Brandon Lehrich, BS
University of Pittsburgh

Thank You to Our Sponsors!

American Association for the Study of Liver Diseases

AASLD
AMERICAN ASSOCIATION FOR THE STUDY OF LIVER DISEASES

American Gastroenterological Association

aga American Gastroenterological Association

The American Journal of Pathology

The American Journal of PATHOLOGY
Discoveries in Basic and Translational Pathobiology

The American Society for Investigative Pathology

ASIP
American Society for Investigative Pathology

Blue Farey

Blue Faery

Novartis

NOVARTIS

Pittsburgh Liver Institute & Pittsburgh Liver Research Center

PITTSBURGH LIVER INSTITUTE
PITTSBURGH LIVER RESEARCH CENTER
CTM

University of California San Francisco Liver Center

UCSF University of California San Francisco
LIVER CENTER

PATHOBIOLOGY 2025

Mechanisms of Disease



Save the Date!
April 26–29
Portland, OR

ASIP
American Society for Investigative Pathology

MEETING PROGRAM
All Sessions will Take Place in Tarpon Point 4

SUNDAY, JUNE 16, 2024

Welcome Reception
6:00-7:30 PM
Tarpon Foyer

SESSION 001: Opening Plenary

- 7:30-7:40 PM
  Welcome and Introductions from the SLAM Organizers
  Jan Tchorz, PhD ▪ Novartis, Basel, Switzerland
  Jackie Maher, MD ▪ University of California, San Francisco
  Kari Nejak-Bowen, PhD ▪ University of Pittsburgh, Pittsburgh, PA

- 7:40-8:00 PM
  Reflections on the History of the Liver Meeting and Introduction of the Keynote Speaker
  George K. Michalopoulos, MD, PhD ▪ University of Pittsburgh, Pittsburgh, PA

- 8:00-9:00 PM
  Keynote Lecture
  Liver Organoids: Where We Stand and Where We Go
  Meritxell Huch, PhD ▪ Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany

MONDAY, JUNE 17, 2024

Attendee Breakfast
8:00-9:00 AM
Tarpon Point 1-2

SESSION 002: Multicellular Dynamics and Plasticity in Liver Disease
9:00-11:30 AM

Chair: Kirsten Sadler Edepli, PhD ▪ New York University Abu Dhabi, Abu Dhabi, United Arab Emirates
Co-Chair: Kenji Ito, PhD ▪ University of Pennsylvania, Philadelphia, PA

- 9:00-9:30 AM
  Epigenetic Regulation of Liver Development and Regeneration
  Kirsten Sadler Edepli, PhD ▪ New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

- 9:30-10:00 AM
  Niche Factors Regulating Cholangiocyte Identity
  Stacey S. Huppert, PhD ▪ Cincinnati Children's Hospital Medical Center, Cincinnati, OH

- 10:00-10:30 AM
  Senescence and Cholangiocyte Plasticity
  Stuart Forbes, PhD ▪ The University of Edinburgh, Edinburgh, Scotland

- 10:30-11:00 AM
  Unraveling the Molecular Mechanisms of the Conversion Between Hepatocytes and Cholangiocytes During Regeneration Using Zebrafish
  Donghun Shin, PhD ▪ University of Pittsburgh School of Medicine, Pittsburgh, PA

- 11:00-11:15 AM
  ABSTRACT 1: *Sox9 Inhibits Activin A to Promote Biliary Maturation and Branching Morphogenesis*
  Hannah R. Hrncir, BS ▪ Emory University, Atlanta, GA

- 11:15-11:30 AM
  ABSTRACT 2: *Histone Demethylases KDM4A/4B/4C Maintain H3K9me3 Domains and Cellular Identity by Inhibiting H3K9me3 Spreading in Differentiated Cells*
  Kenji Ito, PhD ▪ University of Pennsylvania, Philadelphia, PA

Attendee Lunch

11:15 AM-12:30 PM
Tarpon Point 1-2

SESSION 003: Meet-the-Experts Luncheon I

11:30 AM-1:00 PM

The Meet-the-expert luncheon will afford trainees and young investigators the opportunity to network with invited speakers from the meeting. While the size of this meeting will be fairly small, these meet-the-expert luncheons will ensure that the trainees and young investigators have adequate opportunities to meet the leaders in the field of liver research and begin to establish personal relationships that may benefit the research community.

Topic	Experts
Administrative Session: Developing Academia-Industry Partnerships	Dr. Jan Tchorz, Dr. Satdarshan Paul Monga
Scientific Session (Pick Your Brain): Animal Models of Liver Disease	Dr. Hao Zhu, Dr. Robert Schwabe, Dr. Chunyue Yin
Scientific session (Pick Your Brain): Profiling Technologies	Dr. Sonya MacParland, Dr. Takanori Takebe

Session 004: Liver Injury and Repair

1:00-3:30 PM

Chair: Pau Sancho-Bru, PhD ▪ IDIBAPS, Clinic Barcelona, Barcelona, Spain
Co-Chair: Youngmin Lee, MD, PhD ▪ Vanderbilt University Medical Center, Nashville, TN

- 1:00-1:30 PM
  Use of Nucleoside Modified mRNA in Lipid Nanoparticles to Treat Acute and Chronic Liver Diseases
  Valerie Gouon-Evans, PharmD, PhD ▪ Boston University Chobanian & Avedisian School of Medicine, Boston, MA

- 1:30-2:00 PM
  Cell-Molecule Circuitry of Liver Regeneration
  Satdarshan Paul Singh Monga, MD ▪ University of Pittsburgh School of Medicine, Pittsburgh, PA

- 2:00-2:30 PM
  Ductular Reaction-associated Neutrophils in Liver Injury and Repair
  Pau Sancho-Bru, PhD ▪ IDIBAPS, Clinic Barcelona, Barcelona, Spain

- 2:30-3:00 PM
  Essential Role of KLF5 in Regulating Biliary Epithelial Tissue Remodeling Against Cholestatic Liver Diseases
  Tohru Itoh, PhD ▪ University of Tokyo, Tokyo, Japan

- 3:00-3:15 PM
  ABSTRACT 3: *High Fructose Diet Inhibits Liver Regeneration*
  Ivan Moya, PhD ▪ Universidad de las Américas (UDLA), Mexico City, Mexico

- 3:00-3:30 PM
  ABSTRACT 4: *Hepatic Stellate Cells Maintain Metabolic Liver Zonation and Promote Hepatocyte Proliferation in Carbon Tetrachloride Induced Liver Fibrosis*
  Ting-Fang Lee, MD, PhD ▪ Vanderbilt University Medical Center, Nashville, TN

Attendee Dinner
6:00-7:00 PM
Tarpon Point 1-2

Session 005: Lightning Fire Talks
7:00-9:00 PM

- 7:00-7:05 PM
  ABSTRACT 18: *DNA Hypomethylation Activates Cdk4/6 Aand ATR to Cause Dormant Origin Firing and Cell Cycle Arrest That Restricts Liver Outgrowth in Zebrafish*
  Bhavani Madakashira, PhD ▪ New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

- 7:05-7:10 PM
  ABSTRACT 19: *Sex Differences in Biliary Epithelial Cell-to-Hepatocyte Transdifferentation*
  Haitao Nan ▪ Center for Excellence in Molecular Cell Science, CAS, Shanghai, China

- 7:10-7:15 PM
  ABSTRACT 20: *The Essential Role of HNF1B in Hepatic Fate*
  Carla Martinez-Morant, BS ▪ Medical University of South Carolina, Charleston, SC

- 7:15-7:20 PM
  ABSTRACT 21: *Short Telomeres Do Not Impact Liver Injury in Mice*
  Melissa Rowe, BS ▪ University of Pennsylvania, Philadelphia, PA

- 7:20-7:25 PM
  ABSTRACT 22: *Regulation of TM6SF2 By MicroRNA-432: An Unusual Exon-MicroRNA Interaction*
  Aras Mattis, MD, PhD ▪ University of California San Francisco, San Francisco, CA

- 7:25-7:30 PM
  ABSTRACT 51: *Histone Deacetylase Inhibitor MS-275 Reduces Liver Injury, Inflammation, and Fibrosis in a Mouse Model of Cholestatic Liver Disease*
  Tony Chiang, MD ▪ University of Pittsburgh, Pittsburgh, PA

- 7:30-7:35 PM

ABSTRACT 53: *Improving in Vivo Function and Differentiation of Reprogrammed Hepatic Cells*
Claire Makowski, BS ▪ University of Pennsylvania, Philadelphia, PA

- 7:35-7:40 PM
  ABSTRACT 54: *In Vivo CRISPRi Screen Identifies NEURL1B is Required for Hepatocytes Repopulation and Tumorigenesis as a Regulator of Microtubule Organizing Center*
  Dingzi Yin, PhD ▪ Mayo Clinic, Rochester, MN

- 7:40-7:45 PM
  ABSTRACT 55: *Interrogating the Necessity of Active Viral Infection for Hepacivirus-Associated Hepatocellular Carcinoma in a Chronic Infectious Murine Model*
  Hsuan-An Chen, PhD ▪ Rockefeller University, New York, NY

- 7:45-7:50 PM
  ABSTRACT 56: *Identification of a Critical Amino Acid Interaction for Novel Carboxylesterase 1 Inhibitors to Treat Homozygous Familial Hypercholesterolemia*
  Josef Blaszkiewicz, BS ▪ The Medical University of South Carolina, Charleston, SC

- 7:50-7:55 PM
  ABSTRACT 57: *Microporous Collagen-Coated Polycaprolactone as a Blood Vessel Mimic to Support Human Induced Pluripotent Stem Cell-Derived Liver Organoid Assembly*
  Yun Weng, PhD ▪ University of California, San Francisco, San Francisco, CA

- 7:55-8:00 PM
  ABSTRACT 27: *Hepatocellular Carcinoma Initiation is Regulated by Metabolic Zonation*
  Jason Guo, BS ▪ UT Southwestern, Dallas, TX

- 8:00-8:05 PM
  ABSTRACT 59: *Tumor-Derived Glutamine Influences Myeloid Cell Phenotype and Function in Beta-Catenin-Mutated Hepatocellular Carcinomas*
  Evan Delgado, PhD ▪ University of Pittsburgh, Pittsburgh, PA

The ASIP helps coach the next generation of researchers.

"The investment of the ASIP in career and professional development activities geared towards trainees and junior faculty is unparalleled and no one should miss out on these benefits!"



Satdarshan (Paul) Singh Monga, MD

Director, Pittsburgh Liver Research Center
Pathologist focusing on the cellular and molecular mechanisms of liver pathophysiology and liver regeneration

ASIP member since 2003

Learn more about membership at asip.org/membership

ASIP

TUESDAY, JUNE 18, 2024

Attendee Breakfast
8:00-9:00 AM
Tarpon Point 1-2

SESSION 006: Liver Metabolism and MASLD
9:00-11:30 AM

Chair: Anna Mae Diehl, MD ▪ Duke University School of Medicine, Durham, NC
Co-Chair: Tianliang Sun, PhD ▪ Icahn School of Medicine at Mount Sinai, New York, NY

- 9:00-9:30 AM
  Dissection of Metabolic Zonation in Homeostasis and Disease
  Jan Tchorz, PhD ▪ Novartis, Basel, Switzerland

- 9:30-10:00 AM
  Re-Activation of Morphogenic Pathways as Causal to Metabolic and Neoplastic Liver Disease
  Utpal B. Pajvani, MD, PhD ▪ Columbia University, New York, NY

- 10:00-10:30 AM
  Morphogenic Modulation of Metabolism Mediates Susceptibility to MASLD
  Anna Mae Diehl, MD ▪ Duke University School of Medicine, Durham, NC

- 10:30-11:00 AM
  Impact of Organelle Architectural Remodeling in the Development of MASLD
  Ana P. Arruda, PhD ▪ University of California Berkeley, Berkeley, CA

- 11:00-11:15 AM
  ABSTRACT 5: *Targeting Liver Regeneration to Attenuate MASH*
  Tianliang Sun, PhD ▪ Icahn School of Medicine at Mount Sinai, New York, NY

- 11:15-11:30 AM
  ABSTRACT 6: *Cholesterol Forms Liquid and Solid Crystals in the Liver and Regulates Tissue Stiffness*
  Rebecca Wells, MD ▪ University of Pennsylvania, Philadelphia, PA

Attendee Lunch
11:15 AM-12:30 PM
Tarpon Point 1-2

SESSION 007: Meet-the-Experts Luncheon II
11:30 AM-1:00 PM

The Meet-the-expert luncheon will afford trainees and young investigators the opportunity to network with invited speakers from the meeting. While the size of this meeting will be fairly small, these meet-the-expert luncheons will ensure that the trainees and young investigators have adequate opportunities to meet the leaders in the field of liver research and begin to establish personal relationships that may benefit the research community.

Topic	Experts
Administrative Session: Postdoc-to-Faculty Transition: What Do I Need to Get a Job?	Dr. Kirsten Sadler Edepli, Dr. Amaya Lujambio Goizeta,
Scientific Session (Pick Your Brain): Cell Culture Models of Liver Disease	Dr. Robert Schwartz, Dr. Pau Sancho-Bru, Dr. Meritxell Huch

SESSION 008: Liver Inflammation and Fibrosis

1:00-3:30 PM

Chair: Mathias F. Heikenwälder, PhD ▪ German Cancer Research Center (DKFZ), Heidelberg, Germany
Co-Chair: Wei-Yu Lu, PhD ▪ University of Edinburgh, Edinburgh, United Kingdom

- 1:00-1:30 PM
  Investigating the Functional Heterogeneity of Hepatic Macrophages in Disease
  Charlotte Scott, PhD ▪ VIB Center for Inflammation Research, Ghent, Belgium

- 1:30-2:00 PM
  Identification of an ER Stress-inducing Oncoprotein Metabolically Restricting Immunosurveillance
  Mathias F. Heikenwälder, PhD ▪ German Cancer Research Center (DKFZ), Heidelberg, Germany

- 2:00-2:30 PM
  Multi-Modal Comparison of Human Hepatic Stellate Cells (HSCs) From Normal, MASL, and MASH to Identify Novel Therapeutic Targets
  Tatiana Kisseleva, MD, PhD ▪ University of California, San Diego, San Diego, CA

- 2:30-3:00 PM
  Hepatic Stellate Cells in the Normal and Diseased Liver – The Good, the Bad and the Ugly
  Robert F. Schwabe, MD, PhD ▪ Columbia University, New York, NY

- 3:00-3:15 PM
  ABSTRACT 7: *Resolving Fibrosis by Stimulating HSC-Dependent Extracellular Matrix Remodeling*
  Sachin Sharma, PhD ▪ University of California San Francisco, San Francisco, CA

- 3:15-3:30 PM
  ABSTRACT 8: *Regulatory T-Cells (Tregs) Influence How Biliary Epithelial Cells Respond Against Cholestatic Liver Injury*
  Wei-Yu Lu, PhD ▪ University of Edinburgh, Edinburgh, United Kingdom

Attendee Dinner

6:00-7:00 PM
Tarpon Point 1-2

SESSION 009: Poster Session 1

7:00-9:00 PM
Tarpon Point 3

- ABSTRACT 18: *DNA Hypomethylation Activates Cdk4/6 Aand ATR to Cause Dormant Origin Firing and Cell Cycle Arrest That Restricts Liver Outgrowth in Zebrafish*
  Bhavani Madakashira, PhD ▪ New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

- ABSTRACT 19: *Sex Differences in Biliary Epithelial Cell-to-Hepatocyte Transdifferentation*
  Haitao Nan ▪ Center for Excellence in Molecular Cell Science, CAS, Shanghai, China

- ABSTRACT 20: *The Essential Role of HNF1B in Hepatic Fate*
  Carla Martinez-Morant, BS ▪ Medical University of South Carolina, Charleston, SC

- ABSTRACT 21: *Short Telomeres Do Not Impact Liver Injury in Mice*
  Melissa Rowe, BS ▪ University of Pennsylvania, Philadelphia, PA

- ABSTRACT 22: *Regulation of TM6SF2 By MicroRNA-432: An Unusual Exon-MicroRNA Interaction*
  Shahrbanoo Aziziraftar, MD, PhD ▪ University of California, San Francisco, San Francisco, CA

- ABSTRACT 23: *Hepato-Biliary Transdifferentiation Contributes to Liver Repair During Cholestatic Injury Caused by Acute Loss of Adherens junctions from Cholangiocytes*
  Yekaterina Krutsenko, BS ▪ University of Pittsburgh, Pittsburgh, PA

- ABSTRACT 24: *To Form a Stable Bile Duct Network, Mice Require at Least One Allele of Both Yap and Taz*
  Laura Molina, MD, PhD ▪ University of Pittsburgh, Pittsburgh, PA

- ABSTRACT 25: *Protease-Mediated Regulation of TGFβ Signaling abrogates Ciliogenesis in Biliary Progenitors*
  Soumili Sarkar, MSc ▪ University of Toronto, Toronto, ON Canada

- ABSTRACT 26: *Metalloprotease Inhibitors Regulate Biliary Progenitor Cell Dynamics Through sDLK1 Bioavailability Within the Portal Niche*
  Virginie Defamie, PhD ▪ Ontario Cancer Institute, Ontario, Canada

- ABSTRACT 27: *Hepatocellular Carcinoma Initiation is Regulated by Metabolic Zonation*
  Jason Guo, BS ▪ UT Southwestern, Dallas, TX

- ABSTRACT 28: *Sexual Dimorphism in the Liver: Interaction Between Local and Systemic Signals in Establishing Hepatocytes Functional Heterogeneity*
  Aris Taychameekiatchai, MD, PhD ▪ University of California, San Francisco

- ABSTRACT 29: *First Responders in Liver Regeneration: A Spatiotemporal Perspective*
  Tyler Yasaka, BS ▪ University of Pittsburgh, Pittsburgh, PA

- ABSTRACT 30: *Divergent Roles of MET and EGFR in Acetaminophen Hepatotoxicity and Compensatory Liver Regeneration Revealed by Hepatocyte-Specific Knockout Models in Mice*
  Siddhi Jain, PhD ▪ University of Pittsburgh, Pittsburgh, PA

- ABSTRACT 31: *Role of Cholangiocyte β-Catenin in Murine Models of Cholestatic Liver Diseases*
  Matthew Carson, PhD ▪ University of Pittsburgh, Pittsburgh, PA

- ABSTRACT 32: *A Spatiotemporal Atlas of Cholestatic Injury and Repair in Mice*
  Baihua Wu ▪ CAS Center for Excellence in Molecular Cell Science, Shanghai, China

- ABSTRACT 33: *Phosphorylation of Ubiquitin Conjugating Enzyme 9 Promotes Lipid Accumulation in Alcohol-Associated Liver Disease*
  Swati Chandla, PhD ▪ Cedars-Sinai Medical Center, Los Angeles, CA

- ABSTRACT 34: *A Novel Role of Stard10 in ERBB2-Mediated Lipogenesis in Alcohol-Associated Liver Disease*

Manisha Dagar, PhD ▪ Cedars-Sinai Medical Center, Los Angeles, CA

- ABSTRACT 35: *Biliatresone Treatment of Neonatal Mice Leads to Marked Clinical Heterogeneity as Well as Recovery*
  Iris de Jong, PhD ▪ University of Pennsylvania, Philadelphia, PA
- ABSTRACT 36: *Aryl Hydrocarbon Receptor Maintains Mitochondrial Homeostasis by Regulating Mitophagy*
  Mi Jeong Heo, PhD ▪ UT Health, Houston, TX
- ABSTRACT 37: *Essential Role of KLF5 in Regulating Biliary Epithelial Tissue Remodeling Against Cholestatic Liver Diseases*
  Tohru Itoh, PhD ▪ The University of Tokyo, Tokyo, Japan
- ABSTRACT 38: *WNT Signaling Regulates Proliferation in Human Cholangiocytes and Mouse Models of Biliary Injury*
  Ashley Calder, PhD ▪ University of Michigan, Ann Arbor, MI
- ABSTRACT 39: *Tumor Necrosis Factor-Inducible Gene 6 Protein Promotes Liver Regeneration by Enhancing Lipid Uptake in Mice with Partial Hepatectomy*
  Hayeong Jeong, BS ▪ Pusan National University, Republic of Korea
- ABSTRACT 40: *Regulation of Hepatic Zonation, Injury and Regeneration by Hepatic Stellate Cells*
  Atsushi Sugimoto, MD, PhD ▪ Columbia University, New York, NY
- ABSTRACT 41: *Bile Acid Regulation of Xenobiotic Nuclear Receptors*
  Ji Ho Suh, PhD ▪ University of Texas Health Science Center at Houston, Houston, TX
- ABSTRACT 42: *Compensatory Role of ERBB2 and ERBB3 Receptors in the Absence of Hepatocyte EGFR in Murine MASLD*
  Shehnaz Bano, PhD ▪ University of Pittsburgh, Pittsburgh, PA
- ABSTRACT 43: *Male LEW.1WR1 Rats Develop Metabolic Dysfunction and Metabolic-dysfunction Associated Steatohepatitis (MASH)*
  Moses David, PhD ▪ University of Alabama, Birmingham, AL
- ABSTRACT 44: *Copper Deficiency Causes Lipid Metabolism Disorder and Diet-Induced Steatotic Liver Disease in Mice*
  Tomasz Bednarski, PhD ▪ University of Nebraska, Lincoln, NE
- ABSTRACT 45: *Beyond the Unfolded Protein Response: Uncovering Novel Functions of Activating Transcription Factor 6 (Atf6) in Zebrafish Development and Hepatic Lipid Metabolism Using Zebrafish*
  Nouf Abdulaziz Khan, BS ▪ New York University Abu Dhabi, Abu Dhabi, United Arab Emirates
- ABSTRACT 46: *Establishing Reference Diets and Feeding Regimens to Induce MAFLD*
  Sammi Chung, MS ▪ Albert Einstein College of Medicine, Bronx, NY

- ABSTRACT 47: *Nanoplastics Accelerate the Progression of Metabolic Dysfunction-Associated Steatotic Liver Disease*
  Chanbin Lee, PhD ▪ Pusan National University, Republic of Korea

- ABSTRACT 48: *Role of IL-21 Axis in the Progression of Metabolic-Associated Steatotic Liver Disease (MASLD)*
  Maria Moreno-Fernandez, PhD ▪ Cincinnati Children's Hospital Medical Center, Cincinnati, OH

- ABSTRACT 49: *miR-432 and miR-136 Levels are Elevated in the Presence of the TM6SF2 rs58542926 SNP*
  Mohammad Mehraban, PhD ▪ University of California, San Francisco, San Francisco, CA

- ABSTRACT 50: *SUGP1 Contributes to Lipid Accumulation in MASLD Pathogenesis*
  Shahrbnoo Aziziraftar, PhD ▪ University of California, San Francisco, San Francisco, CA

WEDNESDAY, JUNE 19, 2024

Attendee Breakfast
8:00-9:00 AM
Tarpon Point 1-2

SESSION 010: Cellular Models and Functional Screening in Liver Disease Research
9:00-11:30 AM

Chair: Hao Zhu, MD ▪ UT Southwestern Medical Center, Dallas, TX
Co-Chair: Milad Rezvani, MD ▪ Charité Universitätsmedizin, Berlin, Germany

- 9:00-9:30 AM
  Zonal Regulation of Liver Carcinogenesis
  Hao Zhu, MD ▪ UT Southwestern Medical Center, Dallas, TX

- 9:30-10:00 AM
  Tumor Extracellular Vesicles and Particles Induce Liver Metabolic Dysfunction
  Robert E. Schwartz, MD, PhD ▪ Cornell University, New York, NY

- 10:00-10:30 AM
  Injury-Induced Hepatocyte Dedifferentiation in Liver Regeneration and Tumorigenesis
  Lijan Hui, PhD ▪ Center for Excellence in Molecular Cell Science, CAS, Shanghai, China

- 10:30-11:00 AM
  Unraveling Novel Genes and Mechanisms for Chronic Intrahepatic Cholestasis
  Chunyue Yin, PhD ▪ Cincinnati Children's Hospital Medical Center, Cincinnati, OH

- 11:00-11:15 AM
  ABSTRACT 9: *Loss of TBX3 Leads to Transcriptional De-Repression of VLDL Secretion, MASLD Driven Hepatocyte Expansion, and Protection Against Fatty Liver*
  Gregory C. Mannino, BS ▪ UT Southwestern Medical Center, Dallas, TX

- 11:15-11:30 AM
  ABSTRACT 10: *T and B Cells Generated from Syngeneic Fetal Liver-Like Organoids with A Multipotent and Directable Hematopoietic System*
  Milad Rezvani, MD ▪ Charité Universitätsmedizin, Berlin, Germany

Attendee Lunch
11:15 AM-12:30 PM
Tarpon Point 1-2

SESSION 011: Meet the Experts Luncheon III
11:30 AM-1:00 PM

The Meet-the-expert luncheon will afford trainees and young investigators the opportunity to network with invited speakers from the meeting. While the size of this meeting will be fairly small, these meet-the-expert luncheons will ensure that the trainees and young investigators have adequate opportunities to meet the leaders in the field of liver research and begin to establish personal relationships that may benefit the research community.

Topic	Experts
Facultative Liver Stem Cells	Dr. Stuart Forbes, Dr. Stacey Huppert, Dr. Donghun Shin
Cutting Edge Research in Liver Cancer	Dr. Lars Zender, Dr. Klaus Kaestner

SESSION 012: Translational Hepatology
1:00-3:30 PM

Chair: Sonya MacParland, PhD ▪ Toronto General Research Institute, Toronto, ON, Canada
Co-Chair: Carla Frau, PharmD, PhD ▪ Berlin Institute of Health-Charité, Berlin, Germany

- 1:00-1:30 PM
  Multi-Omic Approaches to Study the Cellular Drivers of Liver Disease
  Sonya MacParland, PhD ▪ Toronto General Research Institute, Toronto, ON, Canada
- 1:30-2:00 PM
  Protection Against Alcohol Intoxication by the FGF21 Liver-Brain Axis
  Steven Kliewer, PhD ▪ UT Southwestern Medical Center, Dallas, TX
- 2:00-2:30 PM
  AAV Capsid Prioritization in Machine-Perfused Human Livers
  Holger Willenbring, MD, PhD ▪ University of California, San Francisco, San Francisco, CA
- 2:30-3:00 PM
  Gene Therapy Using Machine Perfusion
  Fotios Sampaziotis, PhD ▪ University of Cambridge, Cambridge, United Kingdom
- 3:00-3:15 PM
  ABSTRACT 11: *Glutamine Metabolism as a Rheostat of CD4+ T-Cell Inflammatory Function in Metabolic Dysfunction-Associated Steatotic Liver Disease*
  Senad Divanovic, PhD ▪ Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 3:15-3:30 PM
  ABSTRACT 12: *Molecular Mechanisms of Human Ductular Reaction During Progression of Chronic Liver Disease and Liver Cancer*
  Carla Frau, PharmD, PhD ▪ Berlin Institute of Health-Charité, Berlin, Germany

Attendee Dinner
6:00-7:00 PM
Tarpon Point 1-2

SESSION 013: Poster Session 2
7:00-9:00 PM
Tarpon Point 3

- ABSTRACT 51: *Histone Deacetylase Inhibitor MS-275 Reduces Liver Injury, Inflammation, and Fibrosis in a Mouse Model of Cholestatic Liver Disease*
  Tony Chiang, MD ▪ University of Pittsburgh, Pittsburgh, PA
- ABSTRACT 52: WITHDRAWN
- ABSTRACT 53: *Improving in Vivo Function and Differentiation of Reprogrammed Hepatic Cells*
  Claire Makowski, BS ▪ University of Pennsylvania, Philadelphia, PA
- ABSTRACT 54: *In Vivo CRISPRi Screen Identifies NEURL1B is Required for Hepatocytes Repopulation and Tumorigenesis as a Regulator of Microtubule Organizing Center*
  Dingzi Yin, PhD ▪ Mayo Clinic, Rochester, MN
- ABSTRACT 55: *Interrogating the Necessity of Active Viral Infection for Hepacivirus-Associated Hepatocellular Carcinoma in a Chronic Infectious Murine Model*
  Hsuan-An Chen, PhD ▪ Rockefeller University, New York, NY
- ABSTRACT 56: *Identification of a Critical Amino Acid Interaction for Novel Carboxylesterase 1 Inhibitors to Treat Homozygous Familial Hypercholesterolemia*
  Josef Blaszkiewicz, BS ▪ The Medical University of South Carolina, Charleston, SC
- ABSTRACT 57: *Microporous Collagen-Coated Polycaprolactone as a Blood Vessel Mimic to Support Human Induced Pluripotent Stem Cell-Derived Liver Organoid Assembly*
  Yun Weng, PhD ▪ University of California, San Francisco, San Francisco, CA
- ABSTRACT 58: *Candidate Metagenes Define Transcriptional Heterogeneity in Intrahepatic Biliary Epithelium*
  Kendall Kanakanui, BS, BA ▪ Emory University, Atlanta, GA
- ABSTRACT 59: *Tumor-Derived Glutamine Influences Myeloid Cell Phenotype and Function in Beta-Catenin-Mutated Hepatocellular Carcinomas*
  Evan Delgado, PhD ▪ University of Pittsburgh, Pittsburgh, PA
- ABSTRACT 60: *Inhibition of PKN Rescues the HNF4A Transcriptional Network in Primary Hepatocytes Stimulated with Extracellular Matrix Calibrated to Fibrotic Liver Rigidity*
  Jessica Herrera, BS ▪ University of California, San Francisco, San Francisco, CA
- ABSTRACT 61: WITHDRAWN
- ABSTRACT 62: *TSG-6 Alleviates Alcohol-Related Liver Disease by Inhibiting CD44 Cleavage in Hepatic Stellate Cells*
  Jinsol Han, BS ▪ Pusan National University, Republic of Korea

- ABSTRACT 63: *Influenza Virus Infection Exacerbates Hepatocellular Damage in Obesity*
  Cassidy Ulanowicz, BS ▪ Cincinnati Children's Hospital Medical Center, Cincinnati, OH

- ABSTRACT 64: *Extracellular Matrix Protein 1: A Potent Antifibrotic Agent Against Liver Fibrosis and Ductular Reaction in Multiple Experimental Models*
  Liya Pi, PhD ▪ Tulane University, New Orleans, LA

- ABSTRACT 65: *Identification of Novel Hepatic Stellate Cell Populations in a Murine Fibrogenic Memory Model*
  Álvaro González Domínguez, PhD ▪ Icahn School of Medicine at Mount Sinai, New York, NY

- ABSTRACT 66: *MAFB Expression in LPS-Induced Exosomes: Revealing the Connection to Sepsis-Triggered Hepatic Injury*
  Gizaw Mamo Gebeyehu, MSc ▪ University of Pecs, Pecs, Hungary

- ABSTRACT 67: *REGEN-HEPS: Expandable and Functional Hepatocytes Derived from Primary Cells*
  Timothy Norman, Jr., PhD ▪ Satellite Bio, Watertown, MA

- ABSTRACT 68: *Integrative Computed Predictions Identify Mitochondrial-Potentiating Drugs Alleviating Steatotic Injury in a Human iPSC-Based Steatohepatitis Model*
  Milad Rezvani, MD ▪ Charité Universitätsmedizin, Berlin, Berlin, Germany

- ABSTRACT 69: *Application of 3D Cellular Models to Test Therapeutic Options for Cyclooxygenase (COX)-2*
  Marina Fuertes-Agudo, PhD ▪ Instituto de Biomedicina de Valencia (IBV-CSIC), Valencia, Spain

- ABSTRACT 70: *PPARA and FXR Coordinately Regulate Hepatic Secretome at Transcriptional Level*
  Sungwoo Choi, PhD ▪ UC Berkeley, Berkeley, CA

- ABSTRACT 71: *Using Spatial Transcriptomics to Illuminate Human Liver Zonation and Cellular Iron Dynamics at Single-Cell Resolution*
  Carolyn Sangokoya, MD, PhD ▪ University of California, San Francisco, San Francisco, CA

- ABSTRACT 72: *PPARA and FXR Coordinately Regulate Hepatic Secretome at Transcriptional Level*
  Jinse Kim ▪ UC Berkeley, Berkeley, CA

- ABSTRACT 73: *Needle Biopsy-Derived Liver Organoids Enable Alcohol-Associated Liver Disease Modelling and Drug Response*
  Silvia Ariño Mons, MSc ▪ Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

- ABSTRACT 74: *Maternal Obesogenic Diet Programs Offspring Liver Disease in Mice via Shifts in the Microbiome with Associated Changes in Bile Acid Metabolism and Intestinal Barrier Permeability*
  Michael Thompson, MD, PhD ▪ Washington University School of Medicine, St. Louis, MO

- ABSTRACT 75: *Senotherapeutic Strategies Revert Chemotherapy Mediated Activation of Cellular Senescence in Liver Cancer*
  Jahannavi Nikkam ▪ Texas A&M University Health Science Center, Bryan, TX

- ABSTRACT 76: *Immune-Mediated Drug-Induced Liver Injury in a Human iPSC-Derived Isogenic Liver Co-Culture Model*
  Kirk Twaroski, PhD ▪ FUJIFILM Cellular Dynamics, Inc., Madison, WI

- ABSTRACT 77: *Molecular Testing in Addition to Current Criteria May Enhance Diagnostic Accuracy in Immune-Mediated Liver Diseases*
  Esteban Arroyave, MSc, PhD ▪ University of Texas Medical Branch, Galveston, TX
- ABSTRACT 78: *Tissue Orb: An Autonomous Perfused Bioreactor for the Generation and Cryopreservation of Vascularized Bioengineered Liver Tissues*
  Juan Carlos Reyna, MD ▪ University of California, San Francisco, San Francisco, CA
- ABSTRACT 79: *Preservation Solution and Duration are Important Factors in Determining Hepatic Spheroid Viability After Isochoric Supercooling Preservation*
  Marie Dicker, BS ▪ University of California, San Francisco, San Francisco, CA
- ABSTRACT 80: *Disparate Oncogenic Functions of Myc in Mice in FVB Versus C57BL/6 Background*
  Junyan Tao, PhD ▪ University of Pittsburgh, Pittsburgh, PA
- ABSTRACT 81: *Emergence of Multidrug Resistance in Pre-Clinical Three-Dimensional Model of Cholangiocarcinoma Induced by Factors Derived from Lymphatic Endothelial Cells*
  Priyanka Banerjee, PhD ▪ Texas A&M Health Science Center, Bryan, TX
- ABSTRACT 82: *TEAD Inhibition as Tumor Cell-Targeted Therapy for Hepatocellular Carcinoma*
  Marcella Steffani, MD ▪ Columbia University, New York, NY
- ABSTRACT 83: *The Role of Connective Tissue Growth Factor (CTGF) in Liver Regeneration After Acetaminophen Overdose*
  Udayan Apte, PhD ▪ University of Kansas Medical Center, Kansas City, KS



aga research foundation

Fund your future with AGA

AGA Pilot Research Awards
Applications due Sept. 12
Six awards provide $40,000 to investigators researching new directions in GI and hepatology-related areas including awards specific to IBD.

AGA Research Scholar Awards
Applications due Dec. 4
Six career development awards provide $300,000 over three years to early career investigators, including an award for pancreatic cancer research.

AGA Fellowship-to-Faculty Transition Awards
Applications due Sept. 12
One award will provide $130,000 over two years to a clinical or postdoctoral fellow preparing to transition to an academic research career as an independent investigator.

AGA Summer and Academic Year Undergraduate Research Fellowships
Applications due Jan. 30, 2025
12 awards support undergraduate students from groups traditionally underrepresented in biomedical research to perform mentored research.

Learn more and apply at **gastro.org/research-funding**.

Funding for these awards is provided by donors to AGA Giving Day and the AGA Research Foundation Endowment Fund; the Aman Armaan Family; the Bern Schwartz Family Fund; the Dr. Harvey Young Education & Development Foundation; and Pfizer, Inc.

FND24-003

THURSDAY, JUNE 20, 2024

Attendee Breakfast
8:00-9:00 AM
Tarpon Point 1-2

SESSION 014: Emerging Technologies for Liver Disease Research
9:00-11:30 AM

Chair: Lars Zender, MD ▪ University Hospital Tubingen, Tubingen, Germany
Co-Chair: Hailey V. Goldberg, BS, MS ▪ Memorial Sloan Kettering Cancer Center, New York, NY

- 9:00-9:30 AM
  Massively Parallel in Vivo Screen Identifies MicroRNAs That Act Synergistically With Combinatorial Immunotherapy For The Treatment of Liver Cancer
  Klaus H. Kaestner, PhD ▪ University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

- 9:30-10:40 AM
  Engineering the Microbiome to Regulate Liver Metabolism
  Amir Zarrinpar, MD, PhD ▪ University of California, San Diego, San Diego, CA

- 10:00-10:30 AM
  Organoid-Guided Precision Hepatology
  Takanori Takebe, MD, PhD ▪ Cincinnati Children's Hospital Medical Center, Cincinnati, OH

- 10:30-11:00 AM
  Novel Roles of Cellular Senescence in Primary Liver Cancer Metastasis
  Lars Zender, MD ▪ University Hospital Tubingen, Tubingen, Germany

- 11:00-11:15 AM
  ABSTRACT 13: *A Nanoparticle-Based Platform for the Treatment of Senescence-Related Pathologies*
  Hailey V. Goldberg, BS, MS ▪ Memorial Sloan Kettering Cancer Center, New York, NY

- 11:15-11:30 AM
  ABSTRACT 14: *Engineering a Perfusable Biomimetic Vascularized Liver on a Chip*
  Duc-Huy Tran Nguyen, PhD ▪ Weill Cornell Medical College, New York, NY

SESSION 015: Networking Lunch
11:30 AM-1:00 PM

SESSION 016: Liver Cancer
1:00-3:45 PM

Chair: Amaya Lujambio Goizueta, PhD ▪ Icahn School of Medicine at Mount Sinai, New York, NY
Co-Chair: Brandon M. Lehrich, BS ▪ University of Pittsburgh, Pittsburgh, PA

- 1:00-1:30 PM
  Precision Therapies for Hepatocellular Carcinoma
  Amaya Lujambio Goizueta, PhD ▪ Icahn School of Medicine at Mount Sinai, New York, NY

- 1:30-2:00 PM
  Role of MASH and Hippo Signaling in Liver Cancer Initiation

Georg Halder, PhD ▪ VIB-KU Leuven Center for Cancer Biology, Leuven, Belgium

- 2:00-2:30 PM
  Discovering Novel Immunotherapeutic Opportunities for Intrahepatic Cholangiocarcinoma
  Daniela Sia, PhD ▪ Icahn School of Medicine at Mount Sinai, New York

- 2:30-3:00 PM
  CD133+ Intercellsome for Cell-Cell Communication in Liver Regeneration and Cancer
  Gen-Sheng Feng, PhD ▪ University of California, San Diego, San Diego, CA

- 3:00-3:15 PM
  ABSTRACT 15: *Transcriptional Master Regulator Analysis Identifies TEADs as Therapeutic Targets for Intrahepatic Cholangiocarcinoma*
  Qiuyan Sun, MS ▪ Columbia University, New York, NY

- 3:15-3:30 PM
  ABSTRACT 16: *Steatotic Hepatocyte-Tumor Crosstalk Remodels Cancer Epigenome to Promote Liver Metastasis*
  Changyu Zhu, PhD ▪ Memorial Sloan Kettering Cancer Center, New York, NY

- 3:30-3:45 PM
  ABSTRACT 17: *RNAi-Mediated ß-Catenin Inhibition Synergizes with Immunotherapy Through Reprogramming of Hepatic and Immune Microenvironments in CTNNB1-Mutated Hepatocellular Carcinoma*
  Brandon M. Lehrich, BS ▪ University of Pittsburgh, Pittsburgh, PA

SLAM Awards Ceremony and Closing Remarks
4:00-4:30 PM

Attendee Dinner
6:00-7:00 PM

Networking and Informal Discussions
7:00 PM
Take advantage of this free time to informally network with your friends and colleagues

NOTES_____

NOTES_____

ASIP

American Society for Investigative Pathology