MONDAY, MARCH 22

Welcoming Remarks and Keynote Session (Joint) (8am Denver/Mountain Time Start)
*Jay D. Horton*, University of Texas Southwestern Medical Center, USA
*Alphonse E. Sirica*, Virginia Commonwealth University, USA
Helen H. Hobbs, University of Texas Southwestern Medical Center, USA

[NOT AVAILABLE ON DEMAND] PNPLA3’s Role in NAFLD
Hashem B. El-Serag, Baylor College of Medicine, USA
Changing Epidemiological Trends in Non-Alcoholic Fatty Liver Disease versus Viral-Associated Hepatobiliary Cancers

Non-Alcoholic Fatty Liver Disease, Liver Inflammation and Fibrogenesis in the Pathogenesis of Hepatobiliary Cancers (Joint) (9:10am Denver/Mountain Time Start)
*Jay D. Horton*, University of Texas Southwestern Medical Center, USA
*Alphonse E. Sirica*, Virginia Commonwealth University, USA
Lopa Mishra, George Washington University, USA
Maria Rescigno, Humanitas University, Italy
Daniel A. Heller, Memorial Sloan Kettering Cancer Center, USA
Juan R. Sanabria, Marshall University/Case Western Reserve University, USA

Short Talk: The a1-Na/K-ATPase/Src-p/PI3K Pathway Modulates the Survivin-SMAC Apoptotic “Switch” in NASH Related Hepatocellular Carcinoma: A Translational Study
Kendra K. Bence, Pfizer Inc., USA
Augusto Villanueva Rodriguez, Icahn School of Medicine at Mount Sinai, USA
Xin Wei Wang, NCI, National Institutes of Health, USA

Poster Session 1 (Joint) (2pm Denver/Mountain Time Start)

Genetics of NAFLD (3pm Denver/Mountain Time Start) (EK28)
*Jay D. Horton*, University of Texas Southwestern Medical Center, USA
*Henry N. Ginsberg*, Columbia University Vagelos College of Physicians and Surgeons, USA
Elizabeth K. Speliotes, University of Michigan, USA

Use of GWAS to Identify SNPs Associated with NAFLD

Noura S. Abul-Husn, Icahn School of Medicine at Mount Sinai, USA
Genomics and Liver Disease in Diverse Populations: From Biobanks to Patients

Karithmetican Chella Krishnan, University of Cincinnati, USA
Short Talk: Mouse and Human Population Studies Revealed Sex-Specific Roles of Liver Pyruvate Kinase in Promoting NAFLD/NASH

Mohammad Kabbani, Rockefeller University, USA
Short Talk: Human Hepatocyte PNPLA3 148M Exacerbates Rapid Non-Alcoholic Fatty Liver Disease Development in Chimeric Mice

Ester Dohnalkova, Mayo Clinic, USA
Short Talk: Hepatocyte-Specific Deletion of ROCK1 Prevents Liver Inflammation and Fibrosis in Murine Nonalcoholic Steatohepatitis

Neil A. Youngson, Institute of Hepatology, UK
Short Talk: Acetyl-CoA Metabolism Drives Epigenome Change in Steatosis Leading to Widespread Abnormal Transcription and DNA Damage

Tumor Microenvironment and Hepatobiliary Cancers (3pm Denver/Mountain Time Start) (EK29)
*Lopa Mishra*, George Washington University, USA
Silvia Affo, Columbia University, USA
Amaia Lujambio, Icahn School of Medicine at Mount Sinai, USA
Alphonse E. Sirica, Virginia Commonwealth University, USA

Mechanisms of Immune Escape in Hepatocellular Carcinoma
Amaia Lujambio, Icahn School of Medicine at Mount Sinai, USA

Role of Cancer Associated Fibroblasts in Cholangiocarcinoma
Alphonse E. Sirica, Virginia Commonwealth University, USA

The Desmoplastic Reaction and Intrahepatic Cholangiocarcinoma Progression: CAFs, Select Molecular Drivers, and Prognostic Implications
*Gregory J. Gores*, Mayo Clinic, USA

Targeting the Tumor Microenvironment for Cholangiocarcinoma Therapy
Yuhua Xue, University of Pittsburgh, USA

Short Talk: p-Ezrin (Thr567) Synergizes with Akt Signaling to Accelerate Yap Mediated Cholangiocarcinogenesis but Correlates with a Favorable Prognosis in Human Intrahepatic Cholangiocarcinoma(ICC) Patients

Wen-Xing Ding, University of Kansas Medical Center, USA
Short Talk: SQSTM1/p62 Inhibits whereas Nrf2 Promotes Tumorigenesis by Inducing Cell Population Remodeling and Metabolic Reprograming in Mouse Livers with mTORC1 Activation and Defective Autophagy

Haichuan Wang, University of California, San Francisco, USA
Short Talk: Requirement of Hippo Signaling Cascade during AXIN1 Mutation Driven Hepatocarcinogenesis

Juan Pablo Unfried, University of Navarra, Spain
Short Talk: Long Non-Coding RNA NIHCOLE Promotes the DNA Damage Repair of Hepatocellular Carcinoma Cells

* Session Chair † Invited but not yet accepted  Program current as of August 2, 2021. For the most up-to-date details, visit https://www.keystonesymposia.org.
NAFLD and CVD (5:10pm Denver/Mountain Time Start) (EK28)
*Henry N. Ginsberg, Columbia University Vagelos College of Physicians and Surgeons, USA
The AAA ATPase Torsin A, a New, Potent Player in VLDL Secretion, NAFL, and NASH
*Jay D. Horton, University of Texas Southwestern Medical Center, USA
Molecular Mediators of NAFLD and Hyperlipidemia

TUESDAY, MARCH 23
Role of Lipids in NAFLD (8am Denver/Mountain Time Start) (EK28)
Mitchell A. Lazar, Perelman School of Medicine, University of Pennsylvania, USA
Circadian Contributions to NAFLD
*Catherine Postic, INSERM Institut Cochin, France
Effects of Genetic Risk Factors for NAFLD on Hepatic Lipid Metabolism
Eran Elinav, Weizmann Institute of Science, Israel
Host Microbiome Interactions in Health and Disease
HongMin Ni, University of Kansas Medical Center, USA
Short Talk: Lack of VMP1 Impairs Hepatic Lipoprotein Secretion and Promotes Nonalcoholic Steatohepatitis in Mice
Joanne Hsieh, Columbia University, USA
Short Talk: Sexually Dimorphic Mechanisms of Action of TTC39B in Hepatic Lipogenic Gene Expression
Xiao-Wei Chen, Peking University, China
Short Talk: An ER Lipid Scramblase (ELS) Safeguards Lipoprotein Biosynthesis and Lipid Homeostasis
Zhao Yue Zhang, Princeton University, USA
Short Talk: Sestrin Catabolism Generates NADPH to Support Hepatic Lipogenesis

Hepatobiliary Cancer Biomarkers and Molecular Subtypes (8am Denver/Mountain Time Start) (EK29)
*Gregory J. Gores, Mayo Clinic, USA
*Alphonse E. Sirica, Virginia Commonwealth University, USA
Yujin Hoshida, UT Southwestern Medical Center, USA
Liver Cancer Risk-Predictive Molecular Biomarkers Specific to Clinico-Epidemiological Contexts
Augusto Villanueva Rodriguez, Icahn School of Medicine at Mount Sinai, USA
Liquid Biopsy in Hepatobiliary Cancers

Jessica Zucman-Rossi, University Paris Descartes-HEGP, France
Mechanisms of Liver Carcinogenesis Define Specific Molecular and Phenotypic HCC Subgroups
Jesper Boje Andersen, University of Copenhagen, Denmark
Defining Distinct Subtypes of Intrahepatic Cholangiocarcinoma by Molecular Profiling: Diagnostic, Prognostic, and Therapeutic Applications
Robert F. Schwabe, Columbia University, USA
Discovery of Subgroup-Specific HCC Master Regulators by Systems Biology Approaches
Kerstin Seidel, Genentech, USA
Short Talk: Notch Inhibition Regresses Progenitor-Like HCCs by Inducing Hepatocyte Differentiation through Controlling C/EBPα Expression and HNF4α Activity
Sungjin Ko, University of Pittsburgh, USA
Short Talk: NOTCH-YAP1/TEAD-DNMT1 Axis Drives Hepatocyte Reprogramming into Intrahepatic Cholangiocarcinoma

Meet the Editors (Joint) (12:30pm Denver/Mountain Time Start)
Elena Bellafante, Med - Cell Press, UK
Francesco Giovinazzo, Frontiers Journals, Italy
Xin (Cindy) Sun, Journal of Experimental Medicine at Rockefeller University Press, USA

Poster Session 2 (Joint) (2pm Denver/Mountain Time Start)
Pathways to NASH (3pm Denver/Mountain Time Start) (EK28)
*Morris J. Birnbaum, Pfizer Inc., USA
Mark A. McNiven, Mayo Clinic, USA
Lipid Droplet Formation and Lipophagy in Fatty Liver Disease
*Tobias Walther, Harvard/HHMI, USA
Lipid Droplet Biology in NAFLD
Annelise Poss, University of Utah, USA
Short Talk: Ceramides as Mediators of Endoplasmic Reticulum Stress in NASH
Choolsoon Jang, University of California, Irvine, USA
Short Talk: The Small Intestine Shields the Liver from Fructose-Induced Steatosis
Kahealani Uehara, University of Pennsylvania, USA
Short Talk: Activation of Hepatic mTORC1 Protects Against NASH via Dual Regulation of VLDL- TAG Secretion and De Novo Lipogenesis
Sabine Daemen, Washington University in St. Louis, USA
Short Talk: The Hepatic Crown-like Structure in NASH: A Nexus between Monocyte-Derived Macrophages, Hepatic Stellate Cells, and Tissue Fibrosis
Emerging Therapies for NASH (8am Denver/Mountain Time Start) (EK28)

Scientific Organizers: Jay D. Horton, Morris J. Birnbaum and Hannele Yki-Järvinen

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Hepatobiliary Cancers: Pathobiology and Translational Advances (EK29)

Scientific Organizers: Alphonse E. Sirica, Gregory J. Gores and Lopa Mishra

March 22-24, 2021 • Virtual at your computer

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Samar Ibrahim, Mayo Clinic, USA
Short Talk: Lipid-Induced Endothelial Vascular Cell Adhesion Molecule 1 Promotes Nonalcoholic Steatohepatitis Pathogenesis

Wenke Jonas, German Institute of Human Nutrition, Germany
Short Talk: Immunity-Related GTase IFGGA2 Induces Degradation of Hepatic Lipids by Lipophagy

Genomics, Molecular Heterogeneity, and Precision Medicine in Hepatobiliary Cancers (3pm Denver/Mountain Time Start) (EK29)

*Lopa Mishra, George Washington University, USA
+Alphonse E. Sirica, Virginia Commonwealth University, USA
Irene Oi Lin Ng, University of Hong Kong, Hong Kong
Molecular Biomarkers in Hepatocellular Carcinoma

Xin Wei Wang, NCI, National Institutes of Health, USA
Causes and Functional Intricacies of Intertumor and Intra-tumor Heterogeneity in Primary Hepatobiliary Cancers

Renamuthy Dhanasekaran, Stanford University, USA
Implications of Genetic Heterogeneity in Hepatocellular Carcinoma (HCC)

Teh Bin Tean, Duke-NUS Medical School, Singapore
Genomic and Epigenomic Studies of Cholangiocarcinoma and their Clinical Implications

Josep Llovet, Icahn School of Medicine at Mount Sinai, USA
Immune Therapies for HCC: is NASH-HCC Responding Different

Bangyan Stiles, University of Southern California, USA
Short Talk: Heterogeneous Liver Cancer Development Promoted by PTEN Regulated beta-Catenin and SOX9 Signal

Chungui Xu, National Cancer Center/National Clinical Research Center for Cancer/Cancer Hospi, China
Short Talk: Gender Distinct in Genomic Features of HBV-Related Hepatocellular Carcinoma

WEDNESDAY, MARCH 24

Emerging Therapies for NASH (8am Denver/Mountain Time Start) (EK28)

+Hannele Yki-Järvinen, University of Helsinki, Finland
+Morris J. Birnbaum, Pfizer Inc., USA
DGAT2 Inhibition for NASH

Chuhan Chung, Gilead Sciences, USA
Combination Therapies for NASH Cirrhosis

Greg Steinberg, McMaster University, Canada
Role of ATP Citrate Lyase (ACLY) in NASH and HCC

Kendra K. Bence, Pfizer Inc., USA
Inhibition of Fructose Metabolism for the Treatment of NALFD

Lei Ling, NGM Biopharmaceuticals, USA
Therapeutic FGF19 in Non-Alcoholic Steatohepatitis

Aimee L. Edinger, University of California, Irvine, USA
Short Talk: A Drug-Like Sphingolipid Opposes Mitochondrial Fragmentation and Corrects the Metabolic Sequelae of Obesity

Brian Rady, Janssen R&D, USA
Short Talk: Inhibition of Hepatocyte Inflammases Improves Features of NASH in fozfoz Mice

Haresh Sajii, University of Queensland - Mater Research Institute, Australia
Short Talk: Development of Liver-Targeted Interleukin-22 for Fatty Liver Disease

Madhulika Tripathi, Duke-NUS Medical School Singapore, Singapore
Short Talk: HHcy is a Feature and Mediator of NASH that Permits B12 and Folate to be an Effective Therapy for NASH

Advances in Molecular and Immune Targeting of Hepatobiliary Cancers (8am Denver/Mountain Time Start) (EK29)

+Gregory J. Gores, Mayo Clinic, USA
+Lopa Mishra, George Washington University, USA

Tim F. Greten, NCI, National Institutes of Health, USA
Immunotherapies for Hepatobiliary Cancers: Current Status and Future Perspectives

R. Kate Kelley, University of California, San Francisco, USA
Developing Clinical Trials of Novel Therapeutic Agents and Treatment Combinations for Intrahepatic Cholangiocarcinoma

Bruno Sangro, Clinica Universidad de Navarra,Spain
Targeted Agent and Immune-Based Therapies for Hepatocellular Carcinoma

Miryam Müller, CRUK Beatson Institute, UK
Short Talk: Identifying Effective Subtype-Specific Treatment Responses in Hepatocellular Carcinoma in Genetically Engineered Mouse Models

Jonathan M. Hernandez, NCI, National Institutes of Health, USA
Short Talk: A Cytosolic Complex Between the Nuclear Export Protein XPO7 and Sterile 20-like Kinase (SLK) Drives Cholangiocarcinoma, and Reveals a Translatable Therapeutic Target

Massimiliano Cadamuro, University of Padua, Italy
Short Talk: Inhibition of YAP Activation Induces Cell Senescence and Autophagy while Blocking Cell Proliferation in Cholangiocarcinoma (CCA)

Man Hsin Cindy Hung, NCI, National Institutes of Health, USA
Short Talk: Overcoming HCC Drug Resistance byTargeting Metabolic Flexibility Conferred by p53

Closing Remarks (10:50am Denver/Mountain Time Start) (EK28)

Closing Remarks (Organizers) (10:55am Denver/Mountain Time Start) (EK29)

Networking Lounge (Joint) (11am Denver/Mountain Time Start)