



肝病学分会 Hepatology Division (北美华人肝病研究会 CALS)

Fourth CALS Annual Symposium

October 29-30, 2021, Time zone: EDT (GMT -4)
Online Zoom Meeting

Meeting ID: 607 443 8562 Passcode: CALS2021

Preliminary Program

Friday, October 29, 2021

6:00 – 6:10 pm	Welcome and opening remark Xin Wei Wang, National Cancer Institute
6:10 – 7:15 pm	Session I Liver Physiology Moderators: Xiao-Ming Yin, Tulane University Shannon Glaser, Texas A&M University
6:10 – 6:30 pm	X. Charlie Dong, Indiana University "Sestrins as key signaling regulators in the liver pathophysiology"
6:30 – 6:50 pm	Hongmin Ni, University of Kansas Medical Center "Regulation of VLDL secretion and lipid metabolism by VMP1"
6:50 – 7:00 pm	Short talk from abstracts

Yu An, University of Texas Health Science Center at Houston

"The mitochondrial dicarboxylate carrier prevents hepatic lipotoxicity

bγ	inhibiting	white	adipocyte	lipolysis"
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7:00 - 7:10 pm Short talk from abstracts

Lirui Wang, China Pharmaceutical University

"Hepatocyte-specific cholinergic receptor nicotinic alpha 4 (Chrna4)

promotes nonalcoholic steatohepatitis"

7:10 – 7:20 pm Sponsorship short talk-1

Jia-Yu (Holly) Ke, Research Diets, Inc.

7:20 – 7:50 pm Keynote Lecture I

Moderator: Bin Gao

Speaker: Hao Zhu, Children's Research Institute at UT Southwestern

"Assessing cell fitness and competitiveness in liver disease"

7:50 – 9:05 pm Session II Liver Disease - Basic

Moderators: Huiping Zhou, Virginia Commonwealth University

Chris Lau, UCSF

7:50 – 8:10 pm Ekihiro Seki, Cedars-Sinai Medical Center

"New approach to treat alcohol-associated liver disease by targeting

TLR7"

8:10 – 8:30 pm Cynthia Ju, UT Health Science Center at Houston

"Chitinase 3-like-1 in intrahepatic coagulation and acute liver injury"

8:30 – 8:40 pm Short talk from abstracts

Vik Meadows, Indiana University School of Medicine

"Mast cells regulate enterohepatic bile acid and histamine signaling in

mouse model of primary sclerosing cholangitis (PSC)"

8:40 – 8:50 pm Short talk from abstracts

Shicheng Fan, Sun Yat-Sen University

"Fenofibrate induced-hepatomegaly and liver regeneration is PPARα dependent and partially related to the activation of YAP pathway"

8:50 – 9:00 pm Sponsorship short talk-2

Liver Research Journal

9:00 – 9:10 pm Sponsorship short talk-3

Dan Wang, Biocytogen

9:15 – 10:15 pm Session III Liver disease - translational

Moderators: Xin Chen, UCSF

Huichang Bi, Sun Yat-Sen University

9:15 – 9:35 pm Lanjing Zhang, Rutgers University

"Integration and analysis of high-dimensional clinal and omic data"

9:35 – 9:55 pm Suthat Liangpunsakui, Indiana University

"FK binding protein 5 in the pathogenesis of alcohol induced liver

injury"

9:55 – 10:05 pm Short talk from abstracts

Xinshou Ouyang, Yale University

"m⁶A mRNA methylation directed myeloid cell activation controls

progression of obesity and NAFLD"

10:05 – 10:15 pm Short talk from abstracts

Long Xu, University of Texas Health Sciences Center at Houston

"Hepatic recruitment of eosinophils and their protective function

during acute liver injury"

10:15 – 11:30 pm Session IV Poster Presentation

10:15 - 11:30 pm Parallel session I. Alcoholic Liver Disease

Moderators: Hua Wang, Anhui Medical University

Hyeong-Geug Kim, Indiana University

10:15 – 10:20 pm Lirui Wang, China Pharmaceutical University

"Aryl hydrocarbon receptor deficiency in intestinal epithelial cells

aggravates alcohol-related liver disease"

10:20 – 10:25 pm Xiaowen Ma, University of Kansas Medical Center

"Loss of Drp1-mediated mitochondrial fission accelerates alcohol-

induced liver injury in mice through impaired mitophagy"

10:25 – 10:30 pm Guanna Li, University of Texas HSC at San Antonio

"Serine-Arginine Protein Kinase 2 Acts as a Novel Regulator of

Lipogenesis in Hepatocytes and Promotes the Progression of

Alcohol-Associated Liver Disease"

10:30 – 10:35 pm	Yudian Zhang, Southwest Medical University, Luzhou, China "Regulation of cellular senescence of activated hepatic stellate cells in alcohol-associated hepatitis"
10:35 – 10:40 pm	Chunbao Sun, Tulane University "Overexpression of microRNA133b inhibits hepatic stellate cell activation and alcoholic fibrosis in mice"
10:40 – 10:45 pm	Mallika Mathur, School of Medicine, University of Maryland "Adipose lipolysis is essential for alcohol to induce fatty liver in the NIAAA model of chronic and binge ethanol feeding"
10:45 – 10:50 pm	Mengwei Jiang, University of Louisville "Probiotic Lactobacillus rhamnosus GG -Derived Exosome-Like Nanoparticles (LDNPs) Protect Against Alcohol-Associated Liver Disease through Regulation of the Intestinal miR194- FXR-FGF15- mediated Bile Acid Synthesis Pathway in Mice"
10:50 – 10:55 pm	Shengyi Lai, Virginia Commonwealth University "The transcriptomic analysis of sphingosine kinase 2 deficiency-mediated alcoholic liver injury"
10:55 – 11:00 pm	Tianhao Zhou, Indiana University School of Medicine "Depletion of Secretin Receptor Ameliorates Steatosis and Neutrophil Infiltration in a Mouse Model of Alcoholic Liver Disease"
11:00 – 11:05 pm	Hyeong-Geug Kim, Indiana University School of Medicine "PNPLA3 148M Promotes Ductular Reaction on Combine Treatment of High-Fat diet and Multiple Ethanol Binge Mice Model"
11:05 – 11:10 pm	Xiaojuan Chao, University of Kansas Medical Center "Loss of Hepatic Transcription Factor EB Attenuates Alcohol- Associated Liver Carcinogenesis"
11:10 – 11:30 pm	Q & A
10:15 - 11:30	Parallel session II. Non-alcoholic Steatohepatitis-1 Moderators: Ling Yang, University of Iowa Rongya Tao, Harvard Medical School
10:15 – 10:20 pm	Tian Lan, Guangdong Pharmaceutical University

10:20 – 10:25 pm	Steatohepatitis by Suppressing ASK1 Signaling" Konstantina Kyritsi, Indiana University School of Medicine
	"Inhibition of the Substance P/Neurokinin Receptor (SP/NK1R) Signaling Axis Ameliorates Liver Phenotypes in Non-Alcoholic Fatty Liver Disease (NAFLD)"
10:25 – 10:30 pm	Rongya Tao, Harvard Medical School "Hepatic insulin resistance promotes diet-dependent fatty liver diseases through FoxO1-induced Follistatin"
10:30 – 10:35 pm	Yingdong Zhu, Northeast Ohio Medical University "Hepatocyte miR-34a is a key regulator in the development and progression of NAFLD"
10:35 – 10:40 pm	Menghao Huang, Indiana University School of Medicine "SIRT6 controls hepatic lipogenesis by suppressing LXR, ChREBP, and SREBP1"
10:40 – 10:45 pm	Fathima Nafrisha Cassim Bawa, Northeast Ohio Medical University "Retinoic acid receptor alpha mediates the retinoid signaling to protect against diet-induced hepatosteatosis and obesity in mice"
10:45 – 10:50 pm	Qingwen Qian, University of Iowa Carver College of Medicine "Disruption of Pituitary-Liver UPR Interaction Contributes to NAFLD"
10:50 – 10:55 pm	Lirui Wang, China Pharmaceutical University "Amlodipine, an anti-hypertensive drug, alleviates non-alcoholic fatty liver disease by modulating gut microbiota"
10:55 – 11:00 pm	Lili Ding, Shanghai University of Traditional Chinese Medicine "Notoginsenoside Ft1 acts as a TGR5 agonist but FXR antagonist to alleviate high fat diet-induced obesity and insulin resistance in mice"
11:00 – 11:05 pm	Xiaoxiao Jiang, University of Kentucky Medical Center "Role of VMP1 in the progression of Non-alcoholic Steatohepatitis"
11:05 – 11:30 pm	Q & A
10:15 - 11:30	Parallel session III Non-alcoholic Steatohepatitis-2 Moderators: Wen Xie, University of Pittsburgh

Lindsey Kennedy, Indiana University

10:15 – 10:20 pm	Nan Wu, Indiana University School of Medicine "Down-regulation of the melatonin receptor MT1 ameliorates liver phenotypes of the cholestatic mouse models of bile duct ligated (BDL) and Mdr2-/- mice by reducing orphan GPR50 receptor-promoted constitutive TGF-β1 receptor signaling"
10:20 – 10:25 pm	Lindsey Kennedy, Indiana University School of Medicine "Prolonged secretin treatment restores cholangiocyte function and ameliorates biliary damage and liver fibrosis in a model of late-stage primary biliary cholangitis (PBC)"
10:25 – 10:30 pm	Hung-Chun Tung, University of Pittsburgh "Inhibition of heme-thiolate monooxygenase CYP1B1 prevents hepatic stellate cell activation and liver fibrosis"
10:30 – 10:35 pm	Yeni Ait Ahmed, NIAAA, NIH "Kupffer cell restoration after partial hepatectomy is mainly driven by their local cell proliferation in autocrine and paracrine IL-6-dependent manners"
10:35 – 10:40 pm	Keisaku Sato, Indiana University School of Medicine "Extracellular vesicles secreted from cholangiocytes induce ductular reaction and liver fibrosis during primary sclerosing cholangitis"
10:40 – 10:45 pm	Wen Xie, University of Pittsburgh "The anti-fibrotic drug pirfenidone inhibits liver fibrosis by targeting the small oxidoreductase glutaredoxin-1"
10:45 – 10:50 pm	Lixian Chen, Indiana University School of Medicine "Free fatty acids induce cholangiocyte α-calcitonin gene-related peptide (αCGRP) secretion via TLR4 in nonalcoholic fatty liver disease (NAFLD)"
10:50 – 10:55 pm	Chiung-Kuei Huang, Alpert Medical School of Brown University "TET1 promotes non-alcoholic fatty liver development through altering lipid metabolism"
10:55 – 11:00 pm	Ming Yang, University of Missouri

11:00 – 11:05 pm	Chaodong Wu, Texas A&M University "Intestinal inflammation is increased in methionine- and choline-deficient diet-induced non-steatohepatitis"
11:05 – 11:30 pm	Q & A
10:15 - 11:30	Parallel session IV Liver Injury Moderators: Zhi Zhong, Medical University of South Carolina Zhihong Yang, Indiana University School of Medicine
10:15 – 10:20 pm	Zhihong Yang, Indiana University School of Medicine "Disruption of Rev-Erb α and ω -oxidation of fatty acid in the pathogenesis of alcohol-induced liver injury (ALD)"
10:20 – 10:25 pm	Yong He, NIAAA, NIH "Interleukin-20 exacerbates acute hepatitis and bacterial infection by downregulating IkB ζ target genes in hepatocytes"
10:25 – 10:30 pm	Priyanka Ghosh, University of Kansas Medical Center "Disruption of hepatic small heterodimer partner protects mice against acetaminophen hepatotoxicity through Nrf2 activation"
10:30 – 10:35 pm	Fengyuan Li, University of Louisville School of Medicine "Deficiency of Antimicrobial Peptide Cathelicidin Attenuated High Fat Diet plus Alcohol-induced Liver Injury through Regulation of FGF21/Adiponectin Signaling and Lipolysis in Adipose Tissue in Mice"
10:35 – 10:40 pm	Mark Li, University of Iowa "Hepatic IRE1-mediated Metabolic Adaption Protects Against Cardiac Dysfunction in Sepsis"
10:40 – 10:45 pm	Zhi Zhong, Medical University of South Carolina "Role of TGF-β Signaling and miR23a in Mitochondrial Biogenesis (MB) Suppression after Small-for-Size Liver Transplantation"
10:45 – 10:50 pm	Ludovica Ceci, Indiana University School of Medicine "Prolonged administration of melatonin improved primary sclerosis cholangitis (PSC) phenotypes through clock genes/miR200b/MASPIN/GST signaling pathway"

10:50 – 10:55 pm	Hui Qian, University of Kansas Medical Center "Dual role of p62/SQSTM1 in acetaminophen-induced early acute injury and late recovery in mice"
10:55 – 11:00 pm	Shi-Yu Sun, Nanjing Medical University "Lansoprozole Activated IP3/Ca2+-Induced ERK1/2 And STAT-3 Pathway to Lead to Intrahepatic Blie Duct Injury"
11:00 – 11:05 pm	Mingjie Fan, Beckman Research Institute of City of Hope "Bile acid-mediated activation of brown fat protects from alcohol- induced steatosis and liver injury in mice"
11:05 – 11:10 pm	Bilon Khambu, Tulane University School of Medicine "NRF2 transcriptionally regulates Caspase-11 expression to activate HMGB1 release by hepatocytes"
11:10 – 11:30 pm	Q & A
10:15 - 11:30	Parallel session V Metabolism and Liver Diseases
	Moderators: Junkai Yan, Shanghai Jiaotong University Shengmin Yan, Tulane University
10:15 – 10:20 pm	
10:15 – 10:20 pm 10:20 – 10:25 pm	Shengmin Yan, Tulane University Junkai Yan, Shanghai Jiaotong University "Non-canonical IGF2BP1-FGF19 signaling drives metabolic disturbance in a neonatal piglet model of parenteral nutrition-
	Shengmin Yan, Tulane University Junkai Yan, Shanghai Jiaotong University "Non-canonical IGF2BP1-FGF19 signaling drives metabolic disturbance in a neonatal piglet model of parenteral nutrition-associated liver disease" Derrick Zhao, Virginia Commonwealth University "Dysregulated sphingolipid metabolism is associated with brain
10:20 – 10:25 pm	Shengmin Yan, Tulane University Junkai Yan, Shanghai Jiaotong University "Non-canonical IGF2BP1-FGF19 signaling drives metabolic disturbance in a neonatal piglet model of parenteral nutrition-associated liver disease" Derrick Zhao, Virginia Commonwealth University "Dysregulated sphingolipid metabolism is associated with brain dysfunction in Mdr2 knock out mice" David Fluharty, Virginia Commonwealth University "The role of IncRNAH19 in regulating miRNA profile in Mdr2 knock

	"Pyrrolizidine Alkaloids Cooperates with Gut Microbiota to Promote Hepatic Sinusoidal Obstruction Syndrome through Disrupting Gut Barrier"
10:40 – 10:45 pm	Gang Liu, Tulane University School of Medicine "Hepatic Autophagy Deficiency Leads to Increased Production of Extracellular Vesicles"
10:45 – 10:50 pm	Yan Liang, University of California, San Diego "Temporal Analyses of Postnatal Liver Development and Maturation by Single Cell Transcriptomics"
10:50 – 10:55 pm	Shengmin Yan, Tulane University School of Medicine "BID-deficiency alters hepatic metabolome and leads to resistance to diet-induced hepatic steatosis"
10:55 – 11:00 pm	Jianing Tian, Sun Yat-Sen University "PXR promotes liver enlargement in mice via the regional induction of hepatocyte enlargement/proliferation"
11:00 – 11:05 pm	Yuchen Liu, Harvard School of Dental Medicine "Regulation of bile acid metabolism by hepatic Yap"
11:05 – 11:30 pm	Q & A
10:15 - 11:30	Parallel session VI Liver Cancer Moderators: Liqin Zhu, St. Jude Children's Research Hospital Lichun Ma, NCI, NIH
10:15 – 10:20 pm	Lichun Ma, NCI, NIH "A multiregional single-cell landscape of tumor cell communities in liver cancer"
10:20 – 10:25 pm	Man Hsin Hu, NCI, NIH "Reprogramming of methionine metabolism drives T-cell exhaustion in hepatocellular carcinoma"
10:25 – 10:30 pm	Xiaojuan Chao, University of Kansas Medical Center "Hepatic p62/Sqstm1 Suppresses Ductular Reaction and Tumorigenesis in Mouse Livers with mTORC1 Activation and

10:30 – 10:35 pm	Wendy S. Chen, University of California at San Diego "Single Cell Transcriptomics Reveals Opposing Roles of Shp2 in Myc-driven Liver Tumor Cells and Microenvironment"
10:35 – 10:40 pm	Ningning Liu, University of Minnesota "MicroRNA-15a/16-1 Prevent Hepatocellular Carcinoma by Disrupting the Communication between Kupffer Cells and Tregs"
10:40 – 10:45 pm	Ningning Liu, University of Minnesota "A c-Myc-YY1-miR-206 Axis Promotes Hepatocellular Carcinoma Progression by Enhancing TGFβ1-mediated Immunosuppression"
10:45 – 10:50 pm	Yisheng He, The Chinese University of Hongkong "Dark side of natural products: pyrrolizidine alkaloids and human liver cancer"
10:50 – 10:55 pm	Xing Liu, Harvard University "Association of whole grains and dietary fiber intake with risk of liver cancer and chronic liver diseases in the NIH-AARP Diet and Health Study"
10:55 – 11:00 pm	Taojian Tu, University of Southern California "Role of CXCL5 in Hepatocellular Carcinoma"
11:00 – 11:05 pm	Mario Alba, University of Southern California "PTEN loss regulates SOX9 signal and liver cancer development"
11:05 – 11:10 pm	Liqin Zhu, St. Jude Children's Research Hospital "Temporal and Spatial Dynamics of Hepatic Stellate Cell Activation in Intrahepatic Cholangiocarcinoma"
11:10 – 11:30 pm	Q & A

Saturday, October 30, 2021

9:00 – 9:50 am	Session V Liver cancer - basic Moderators: Bingning Dong, Baylor College of Medicine Lisa Zhang, University of Kansas Medical Center
9:00 – 9:20 am	Wei-Xing Zong, Rutgers University "Glutamine anabolism in pancreatic and liver cancers"
9:20 – 9:40 am	Bangyan Stiles, University of Southern California "Heterogenous liver cancer development promoted by PTEN- regulated liver steatosis"
9:40 – 9:50 am	Short talk from abstract Zhihui Li, University of Maryland School of Pharmacy "Human constitutive androstane receptor represses liver cancer development and hepatoma cell proliferation via erythropoietin signaling"
9:40 – 9:50 am	Short talk from abstracts Amanda Jean Craig, NCI, NIH "Identifying underlying epigenetic regulatory elements in primary liver cancer cell lineage commitment using single cell ATAC sequencing"

9:50 - 10:20 am Keynote Lecture II

Moderator: Cynthia Ju (UT Houston)
Speaker: Anna Lok, University of Michigan

"Prevention and Early Detection of Hepatocellular Carcinoma"

10:20 - 11:20 am Session VI Liver cancer - translational

Moderators: Yingzi Yang, Harvard University
Guisheng Song, University of Minnesota

10:20 – 10:40 am Shi-Mei Zhuang, Sun Yat-Sen University

"Vessels encapsulating tumor clusters (VETC) and its clinical $\,$

significance for HCC"

10:40 – 12:00 pm Guangfu Li, University of Missouri

"Development of immune-based therapeutic strategies for liver

cancer"

12:00 – 12:10 pm Short talk from abstracts

Yaojie Fu, NIAAA, NIH

"microRNA-223 prevents hepatocellular carcinoma development by

limiting hypoxia-mediated tumor immunosuppression and

angiogenesis"

12:10 – 12:20 pm Short talk from abstracts

Dan Li, NCI, NIH

"A novel PD-L1-targeted shark VNAR single domain-based CAR-T

strategy for treating breast cancer and liver cancer"

12:20 – 12:30 pm Break

12:30 – 12:45 pm Session VII Award Presentation

Moderator: Xin Wei Wang, Cynthia Ju, Huiping Zhou, Bin Gao, Xiao-Ming Yin

12:45 – 1:30 pm Session VIII Business Reports

Moderator: Xin Wei Wang

Treasurer's report, Wen-Xing Ding, Yuxia Zhang

Secretary's report, Yanqiao Zhang

Introduction of the next President: Cynthia Ju

Wrap-Up led by Conference Organizers: Xin Wei Wang, Wen-Xin Ding, Charlie Dong, Grace Guo, Cynthia Ju, Lisa Zhang, Yanqiao

Zhang

1:30 - 2:30 pm Virtual 'Happy Hour'