

Program overview

Wednesday, September 24, 2025

11:00 – 12:15 Registration and Lunch

12:15 – 12:30 Welcome by the ECLCB-9 Committee

12:30 – 14:45 SESSION 1: LIVER CELL BIOLOGY

Speakers and moderators: Neil Henderson (UK), Prakash Ramachandran (UK), Ruchi Bansal (Netherlands)

12:30-12:50 Mapping human liver fibrosis using spatial genomics, Neil Henderson (UK)

12:50-13:05 Cystathionine gamma-lyase (CTH) inhibition impairs Liver Sinusoidal Endothelial Cells (LSEC) angiogenic capacity, fenestration and eNOS signaling, Turtushikh Damba (Denmark)

13:05-13:20 A single-cell atlas of the developing murine extrahepatic bile duct, Iris de Jong (Netherlands)

13:20-13:40 A Human Liver Single-cell Atlas Identifies Pro-Inflammatory Scar-associated Macrophages as a Target for Hepatic Fibrosis, Prakash Ramachandran (UK)

13:40-13:55 Lipid nanoparticle mediated delivery of antimir-155 ameliorates liver inflammation and fibrosis in CCl₄-induced liver injury mouse model, Vishal Tuli (Netherlands)

13:55-14:15 Targeting hepatic stellate cells and beyond, Ruchi Bansal (Netherlands)

14:15-14:30 Integrated Metabolic and Gene Expression Remodeling in Hepatic Stellate Cell Activation, Shanthini Kannan (Belgium)

14:30-14:45 Beta-arrestin-2-mediated hepatocyte-HSC interaction promotes HSC activation and fibrogenesis, Robert Schierwagen (Germany)

14:45 – 15:05 Coffee Break, Networking and Posters

15:05 – 17:20 SESSION 2: LIVER MOLECULAR BIOLOGY

Speakers and Moderators: Fabio Marra (Italy), Han Moshage (Netherlands), Zeinab Abdullah (Germany)

15:05-15:25 Molecular signaling in chronic liver disease: From injury to fibrosis, Fabio Marra (Italy)

15:25-15:40 STARD1-dependent mitochondrial cholesterol trafficking activates the NLRP3 inflammasome complex in MASH, Sandra Torres Núñez (Spain)

15:40-15:55 The endothelial FoxO1 pathway in decompensated liver cirrhosis and acute-on-chronic liver failure, Fabian Schachteli (Germany)

15:55-16:15 Apoptosis and inflammation in liver diseases: Molecular mechanisms and therapeutic implications, Han Moshage (Netherlands)

16:15-16:30 Targeting neutrophils recruitment/signaling attenuates biliary disease in a mouse model of Caroli Disease, Anna Palmiotti (USA)

16:30-16:45 A Type IV Autotaxin inhibitor, Cambritaxestat (IOA-289), mitigates steatosis and fibrosis in MASLD and MASLD-HCC mouse models by blocking LPAR1 and LPAR6 signaling, Vishal Tuli (Netherlands)

16:45-17:05 Liver Regeneration in Fatty Liver Disease: Molecular mechanisms and therapeutic targets, Zeinab Abdullah (Germany)

17:05-17:20 Detoxification of LPS attenuates its pro-inflammatory and lipogenic effects in *in-vitro* models of MASLD, Eman D. Mohammed (Netherlands)

17:20 – 17:40 Coffee Break, Networking and Posters

17:40 – 18:10 PITCH-YOUR-POSTER SESSION (P1) Pitch 1-10 from selected abstracts (2 minutes each)

1. Plasma extracellular vesicles contain protein biomarkers for capturing stages of metabolic dysfunction-associated steatotic liver disease, Yakun Li (Netherlands)
2. Genetic correction of Wilson's disease H1069Q mutation in iPSCs using CRISPR/Cas9 technology, Vanessa Sandfort (Germany)
3. Constitutive MAS1 G protein-coupled receptor participates in the pathogenesis of liver fibrosis, Sabine Klein (Germany)
4. Time-resolved hepatic single cell sequencing during liver fibrosis regression identifies distinct 'regressive' macrophage sub-populations, Katharina Bonitz (Austria)
5. Inhibition of ATGL shapes cholangiocyte inflammatory response in vitro, Tanmoy Chakma (Austria)
6. Image-Based Deep Profiling of Primary Liver Cells for Disease Phenotyping and Compound Screening Using Machine Learning, Arkajyoti Sarkar (Belgium)
7. Clonality analysis of circulating T cells reveals non-epitope-driven clonal expansion in metabolic-associated steatotic liver disease, Xinlei Zhao (Germany)
8. GDF15 ameliorates palmitate-induced hepatocyte steatosis by restoring impaired mitochondrial fusion, Jia Li (Netherlands)
9. Development of Platelet Derived Growth Factor β Receptor-selective Liposomes, Adam Fajriawan (Netherlands)
10. Impaired branched chain amino acid metabolism alters inflammatory and oxidative responses in Kupffer cells in a model of Metabolic dysfunction Associated Steatotic Liver Disease (MASLD), Lizbeth Magnolia Martinez Aguilar (Netherlands)

18:15 – 19:15 Parallel Workshops

Moderators and speakers: Prakash Ramachandran (UK) and Ruchi Bansal (Netherlands)

OMICS enabling understanding, diagnosis and treatment of liver diseases

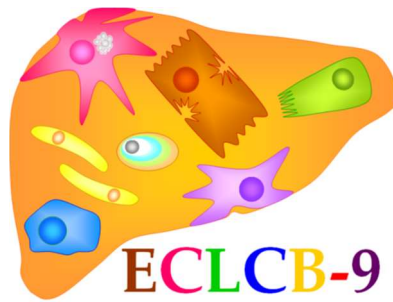
Moderators and speakers: Ralf Weiskirchen (Germany) and Peter Olinga (Netherlands)

Human-mimic liver disease models

Moderators and speakers: Klaas Poelstra (Netherlands) and Ruchi Bansal (Netherlands)

(Nano) Delivery systems for liver diseases

19:30 NETWORKING DINNER



Thursday, September 25, 2025

08:30 – 09:55 SESSION 3: LIVER MODELS-I

Speakers and moderators: Leo van Grunsven (Belgium) and Krista Rombouts (UK)

08:30-08:50 Studying liver fibrosis using primary mouse liver cells, Leo van Grunsven (Belgium)

08:50-09:05 Establishment of a hiPSC-derived liver-on-a-chip model system for personalized drug metabolism studies, Isabel Tamargo (Netherlands)

09:05-09:20 Combined stem cell and predictive models reveal flavin cofactors as targets in metabolic liver dysfunction, Julian Weihs (Germany)

09:20-09:40 The biology of gastrointestinal fibrogenesis in 3D: does ECM matter? Krista Rombouts (UK)

09:40-09:55 Ion-specific hydrogel microcarriers with biomimetic niches for bioartificial liver system, Xiang Lin (Finland)

09:55 – 10:15 Coffee Break, Networking and Posters

10:15 – 12:00 SESSION 3: LIVER MODELS-II

Speakers and moderators: Peter Olinga (Netherlands) and Volker Lauschke (Sweden)

10:15-10:35 Precision-cut liver slices: Cutting-edge model for liver disease research, Peter Olinga (Netherlands)

10:35-10:50 Activation of the Bile Acid Receptor FXR Reduces Fibrosis in Mouse Kidney Slices, Whereas TGR5 Agonism Induces Nephrotoxicity, Sandra Maria Hansen (Denmark)

10:50-11:05 Proteomic Landscape of Liver ECM in Health and Disease and Its Functional Crosstalk with Organoids, Fuchen Dong (Netherlands)

11:05-11:25 Patient-derived 3D liver culture systems for the chemogenomic interrogation of complex physiological processes, Volker Lauschke (Sweden)

11:25-11:40 Precursor of chemically expanded hepatocytes (pre-cHep) with 1-million-fold expansion potential and liver repopulation capacity, Keisuke Kaji (UK)

11:40-11:55 Metabolic Reprogramming in MASH-Related HCC: The Emerging Role of G6PD as a Biomarker and Target, Jessica Nurcis (Italy)

12:00 – 13:00 Lunch and Posters

13:00 – 13:30 PITCH-YOUR-POSTER SESSION (P2) Pitch 11-20 from selected abstracts (2 minutes each)

11. A Comparative Analysis of HepG2 and Fa2N-4 Hepatocyte Models for Steatotic Liver Disease: Implications for Lipid Metabolism and Drug Response, Victoria Palasantzas (Netherlands)
12. Metabolic Dysfunction-Associated Steatohepatitis Sensitizes to Acetaminophen Hepatotoxicity, Laura Fàbrega Jiménez (Spain)
13. A scalable human primary liver model to study cell-cell interactions, Luuk de Haan (Netherlands)
14. The stiffness of liver-derived extracellular matrix hydrogels regulates hepatic stellate cell activation, Qi Zhou (Netherlands)

15. Effect of potentially therapeutic bile acids on reactive cholangiocyte phenotype in human biliary organoids, Fabian Heinrichsberger (Austria)
16. Advanced drug testing with a 3D in vitro model of human liver fibrosis combining human hepatic cells and biomaterials, Ana Margarida Carvalho (Portugal)
17. Fructose and glucose drive the MASLD phenotype and disturb CYP450 regulation in preclinical liver models, Laura Cools (Belgium)
18. Human iPSC-derived Liver Fibrosis Model to Study Monocyte Activation and Recruitment, Burak Toprakhisar (Belgium)
19. Modulation of the Gut-Liver Axis and Immune Responses in Experimental Liver Fibrosis, Katja Sommer (Austria)
20. Somatic CRISPR/Cas9-mediated gene editing in adult mice identifies hepatic KLB as a regulator of bile acid synthesis and hepatic lipid metabolism, Alexandra Aaldijk (Netherlands)
21. Transcriptomic profiling of epigenetic regulators and metabolic reprogramming in human cholangiocarcinoma, Amaya Lopez-Pascual (Spain)

13:30 – 15:15 SESSION 4: INTERORGAN COMMUNICATION

Speakers and moderators: Romina Fiorotto (USA), Bart Staels (France), Gabriela Schiattarella (Germany)

13:30-13:50 Dialogues across the Liver-Gut axis, Romina Fiorotto (USA)

13:50-14:05 Low fiber intake alleviates liver pathology via hepatoprotective UDCA produced by gut microbiota, Wenqiang Shen (Netherlands)

14:05-14:25 Cardio-Hepatic crosstalk in metabolic disease, Bart Staels (France)

14:25-14:40 Lack of CFTR in mice causes liver vascular abnormalities similar to non-cirrhotic portal hypertension, Anna Palmiotti (USA)

14:40-15:00 The Liver–Heart Connection in Heart Failure and Cardiometabolic Diseases, Gabriele Schiattarella (Germany)

15:00-15:15 Understanding sex-dependent hepatic cholesterol handling by studying the lysosomal proteome and interactome, Cristy Verzijl (Netherlands)

15:15 – 15:35 Coffee Break, Networking and Posters

15:35 – 17:50 SESSION 5: CLINICAL SESSION

Speakers and Moderators: Onno Holleboom (Netherlands), Matias Avila (Spain), Joanne Verheij (Netherlands)

15:35-15:55 A clinical perspective on MASLD, Onno Holleboom (Netherlands)

15:55-16:10 Circulating Bacteria-Derived Extracellular Vesicles Carrying Virulence Factors Contribute to Hepatic Injury in Autoimmune Hepatitis, Sukriti Baweja (India)

16:10-16:25 Lipid–Neutrophil Axis Drives Systemic Inflammation and Organ Injury in Acute-on-Chronic Liver Failure, Pragyan Acharya (India)

16:25-16:45 Epigenetic mechanisms and targets in liver tumors, Matias Avila (Spain)

16:45-17:00 Understanding the impact of the liver microenvironment on regulatory T cells, Maegen Fleming (UK)

17:00-17:15 Targeting SLU7 against cancer, Carla Rojo González (Spain)

17:15-17:35 A clinical perspective on Cholangiocarcinoma, Joanne Verheij (Netherlands)

17:35-17:50 Extracellular Matrix Remodeling in the Progression of Primary Sclerosing Cholangitis to Cholangiocarcinoma: Insights from an Animal Model, Camilla Venturin (USA)

17:50 – 18:30 SESSION 6: INDUSTRY SESSION

18:30 – 19:30 NETWORKING DINNER

19:30 – 22:30 SOCIAL EVENT



Friday, September 26, 2025

08:30 – 10:30 SESSION 7: LIVER DISEASES

Speakers and moderators: Saskia van Mil (Netherlands), Minneke Coenraad (Netherlands)

08:30-08:50 Molecular and cellular implications of FXR alternative splicing in liver physiology and disease, Saskia van Mil (Netherlands)

08:50-09:05 Decreased glycine in hepatic steatosis alters methylation capacity through dysregulation of the methionine cycle, Inbal Mor (Israel)

09:05-09:20 CD4 T helper cells influence the fate decision of facultative liver stem cells, Wei-Yu Lu (UK)

09:20-09:40 Pathophysiology of Acute-on-chronic liver failure, Jonel Trebicka (Germany)

09:40-09:55 Development and characterization of novel rodent ACLF models, Sabine Klein (Germany)

09:55-10:15 Pathophysiology of decompensated cirrhosis, Minneke Coenraad (Netherlands)

10:15-10:30 Plasma-derived extracellular vesicles identify protein signatures (HP, CFHR4, and CNDP1) for decompensated cirrhosis in chronic liver diseases, Lizbeth Magnolia Martinez Aguilar (Netherlands)

10:30 – 10:45 Coffee Break and Posters

10:45 – 11:15 PITCH-YOUR-POSTER SESSION (P3)

22. Single-cell analysis uncovers preliminary evidence for a shifted myeloid progenitor landscape in ACLD, Katharina Bonitz (Austria)
23. Impact of thermoneutral housing in Acute-On-Chronic Alcohol Related Liver Disease, Monica Barrios López (Spain)
24. The Role of Tartaric Acid in the Gut–Liver Axis mediated Decompensation of liver Cirrhosis, Sara Zarei (Germany)
25. Generation of an improved murine model for progressive familial intrahepatic cholestasis type 3 (PFIC3), Lixin Ke (Netherlands)
26. Role of the NADPH oxidase in the regulation of endoplasmic reticulum (ER) stress in liver tumor cells, Gemma Gonfaus-Ortiz (Spain)
27. The role of the NADPH oxidase nox4 in regulating mitophagy and oxidative metabolism in liver tumor cells, Paula Segalés (Spain)
28. Metabolic syndrome as a Central Driver of Metastatic Progression in CRC and PDAC, Xiaoyue Chen (Netherlands)
29. A Multifunctional Magnetic-Fluorescent Composite Nanoprobe for the Efficient Capture and Real-Time Monitoring of Circulating Tumor Cells in Hepatocellular Carcinoma, Dawei Yang (Netherlands)
30. Involvement of the ERG1 potassium channel in cholangiocarcinoma cell biology, Giada Alla Viligiardi (Italy)

11:15 – 13:30 SESSION 8: LIVER-RELATED MALIGNANCIES

Speakers and moderators: Nabil Djouder (Spain), Robert Schwabe (USA), Mathias Heikenwalder (Germany)

11:15-11:35 Metabolic dysfunctions in HCC development, Nabil Djouder (Spain)

11:35-11:50 α -KG–Driven Immune Escape in Hypoxic MASLD-HCC: Amino Acid Metabolism at the Crossroads, Beatrice Foglia (Italy)

11:50-12:10 Uncovering the druggable “master regulators” in HCC and CCA, Robert Schwabe (USA)

12:10-12:25 A Novel Approach for the Isolation and Selection of Tumor-Infiltrating B-cells from Resected Tumors of Hepatocellular Carcinoma Patients, Ashmit Mittal (Netherlands)

12:25-12:40 The endosomal protein sorting complex retromer plays an essential role in postnatal liver development and liver cancer development, Bart van de Sluis (Netherlands)

12:40-13:00 The role of the liver micro-environment in driving chronic inflammation and cancer: Lessons to learn for therapeutic approaches, Mathias Heikenwalder (Germany)

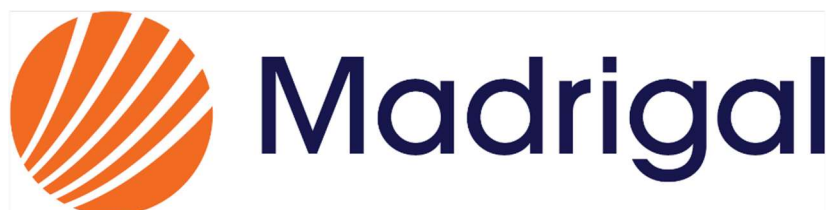
13:00-13:15 Oncostatin M modulates the biology of cholangiocarcinoma cells and the tumor microenvironment, Nunzia Porro (Italy)

13:15-13:30 Caspase-8 is a gender-specific inhibitory modulator of cholestasis-induced liver fibrosis and hepatocarcinogenesis in female mice, Christian Penners (Germany)

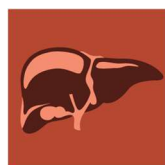
13:30 – 14:30 Closing Remarks with Presentation (3) and Pitch-Your-Poster (3) awards (with Farewell lunch)

***15:00 – 17:00 Optional Lab Tour (RUG/UMCG) Contact Peter Olinga and Han Moshage (if interested)**

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