

# PROGRAM DUTCH LIVER RETREAT 2025

**Thursday February 6<sup>th</sup> 2025**

10.00 - 10.30 Registration with coffee/tea

## Opening Dutch Liver Retreat 2025

10.30 - 10.45 Welcome (Hans Jonker)

### Session: Bile acids / FXR

Session Leaders: tba

10.45 - 11.00 Mice with humanized Farnesoid X Receptor exhibit increased sensitivity to obeticholic acid activation

*J. Li<sup>1</sup>, H.D. Vries<sup>1</sup>, S. Falcone<sup>1</sup>, R. Havinga<sup>1</sup>, M.V. Hovingh<sup>1</sup>, N.L. Mulder<sup>1</sup>, E. Weersing<sup>1</sup>, H.J. Verkade<sup>1</sup>, F. Kuipers<sup>1</sup>, J.F. Boer<sup>1</sup>, <sup>1</sup>University Medical Center Groningen (UMCG) Netherlands*

11.00 - 11.15 Exploring the role of biomolecular condensates in FXR activation and metabolic regulation

*M.D. Appelman<sup>1</sup>, N. Sirati<sup>1</sup>, R. Heezik<sup>1</sup>, J. Schuijers<sup>1</sup>, S.W.C. Mill<sup>1</sup>, <sup>1</sup>University Medical Center Utrecht and Utrecht University, Netherlands*

11.15 - 11.30 Inhibition of hepatic bile salt uptake using the anti-HDV drug Bulevirtide attenuates inflammation in mouse models for colitis and diet-induced steatohepatitis

*T.A. Nguyen<sup>1</sup>, C.C.J. Groenen<sup>1</sup>, R.L.P. Roscam Abbing<sup>1</sup>, J.M. Lambooij<sup>2</sup>, P.J. Koelink<sup>1</sup>, D.R. Waart<sup>1</sup>, I. Bolt<sup>1</sup>, E. Vogels<sup>1</sup>, S. Duijst<sup>1</sup>, J. Verheij<sup>1</sup>, B.G.A. Guigas<sup>2</sup>, M.E. Wildenberg<sup>1</sup>, C.C. Paulusma<sup>1</sup>, W. In het Panhuis<sup>1</sup>, S.F.J. Graaf<sup>1</sup>, <sup>1</sup>Amsterdam University Medical Center Netherlands, <sup>2</sup>Leiden University Medical Center Netherlands*

11.30 - 11.45 Activation of peroxisome proliferator-activated receptor alpha ameliorates liver pathology in mice with a human-like bile acid composition by modulating bile acid hydrophobicity independent of Cyp8b1

*L. Ke<sup>1</sup>, E. Verkade<sup>1</sup>, N.L. Mulder<sup>1</sup>, M.V. Hovingh<sup>1</sup>, R. Havinga<sup>1</sup>, E. Weersing<sup>1</sup>, V.W. Bloks<sup>1</sup>, H.J. Verkade<sup>1</sup>, J.F. Boer<sup>1</sup>, F. Kuipers<sup>1</sup>, <sup>1</sup>University Medical Center Groningen Groningen Netherlands*

11.45 – 13.45 **Lunchbreak + optional walk (sponsored by....)**

### Keynote Lecture

Session leader: tba

13.45 – 14.30 “Cholestasis matters - a long way from hepatobiliary basics to clinical breakthroughs”

*Prof. dr. U.H.W. Beuers, Professor of Gastroenterology & Hepatology, Amsterdam UMC*

14.30 – 14.45

**Short Coffee/Tea break**

**Session: NAFLD/NASH**

Session Leader:

*tba*

14.45 – 15.00

Branched-Chain Amino Acids (BCAA) as modulators of inflammation, fibrosis, and mitochondrial function in liver cells in an *in vitro* MASLD model  
*L.M. Martínez Aguilar<sup>1</sup>, M.C. Trillos Almanza<sup>1</sup>, A.J. Moshage<sup>1</sup>, J. Blokzijl<sup>1</sup>, M. Buist-Homan<sup>1</sup>, <sup>1</sup>University Medical Center Groningen Netherlands*

15.00 - 15.15

Next-generation beneficial bacteria combined with fructo-oligosaccharides and fecal microbiota transplantation attenuates diet-induced metabolic dysfunction-associated steatosis in mice

*O.J.J. Augustijn<sup>1</sup>, T. Chen<sup>1</sup>, S. Havik<sup>1</sup>, P. Groen<sup>1</sup>, J. Verheij<sup>1</sup>, A.L. Mak<sup>1</sup>, I. Güll<sup>2</sup>, J.F.M.L. Seegers<sup>2</sup>, W.M. Vos<sup>2</sup>, P. Suenaert<sup>3</sup>, M. Nieuwdorp<sup>1</sup>, H. Herrema<sup>1</sup>, A. Grefhorst<sup>1</sup>, A.G. Holleboom<sup>1</sup>, <sup>1</sup>Amsterdam University Medical Centers, Location AMC Amsterdam Netherlands, <sup>2</sup>Caelus Health Amsterdam Netherlands, <sup>3</sup>The Akkermansia Company Mont-Saint-Guibert Belgium*

15.15 – 15.30

Liver sinusoidal endothelial cell-derived extracellular vesicles contain catalase that induces senescence of activated hepatic stellate cells

*J. Wang<sup>1</sup>, J. Li<sup>1</sup>, M.C. Harmsen<sup>1</sup>, H. Moshage<sup>1</sup>, M. Buist-Homan<sup>1</sup>, J.C. Wolters<sup>1</sup>, V. Meijer<sup>1</sup>, TransplantLines Investigators<sup>1</sup>, H. Blokzijl<sup>1</sup>, K.N. Faber<sup>1</sup>, <sup>1</sup>University Medical Center Groningen Netherlands*

15.30 – 15.45

CRISPR/Cas9-mediated gene editing in adult mice identifies hepatic KLB as a regulator of bile acid synthesis and hepatic lipid metabolism

*A.S. Aaldijk<sup>1</sup>, D. Struik<sup>1</sup>, M. Hovingh<sup>1</sup>, C.R.C. Verzijl<sup>1</sup>, H. Havinga<sup>1</sup>, N.C.A. Huijkman<sup>1</sup>, M. Smit<sup>1</sup>, A.J.A. Sluis<sup>1</sup>, J.W. Jonker<sup>1</sup>, <sup>1</sup>University Medical Center Groningen (UMCG) Groningen Netherlands*

15.45 – 16.00

**Short Coffee/Tea break**

**AI Session**

Session leaders:

*tba*

16.00 – 16.45

To be determined

16.45 – 18.30      **Drinks and Poster Science**

### **Evening program**

18.30 – 20.00	Dinner
20.00 – 21.00	Social programme
21.00 - 00.00	Dance

**Friday February 7<sup>th</sup> 2025**

07.00 – 09.00      Breakfast

### **Session: Fibrosis/HCC**

Session Leaders:      tba

09.00 – 09.15	The endosomal protein sorting complex Retromer plays an essential role in postnatal liver development and liver cancer development <u>M.G. Barbosa<sup>1</sup>, D.Y. Vos<sup>1</sup>, C. Verzijl<sup>1</sup>, N. Kloosterhuis<sup>1</sup>, D. Struik<sup>1</sup>, U. Tharehalli<sup>1</sup>, M. Koster<sup>1</sup>, M. Smit<sup>1</sup>, H. Jonker<sup>1</sup>, R. Thomas<sup>2</sup>, J.A. Kuivenhoven<sup>1</sup>, B. van de Sluis<sup>1</sup>, <sup>1</sup>University Medical Center Groningen Netherlands, <sup>2</sup>Utrecht University Netherlands</u>
09.15 – 09.30	DNA methylation of tumor tissues and circulating tumor DNA in early detection of hepatocellular carcinoma <u>S. Fu<sup>1</sup>, A. Boonstra<sup>1</sup>, R.G. Boers<sup>1</sup>, J.B. Boers<sup>1</sup>, M. Doukas<sup>1</sup>, S.M. Wilting<sup>1</sup>, J. Gribnau<sup>1</sup>, D. Sprengers<sup>1</sup>, B. Hansen<sup>1/2</sup>, J.D. Debes<sup>1/3</sup>, <sup>1</sup>Erasmus MC Rotterdam Netherlands, <sup>2</sup>Toronto Centre for Liver Disease, University of Toronto Canada, <sup>3</sup>Department of Medicine, University of Minnesota Minneapolis United States</u>
09.30 – 09.45	Exploring the effects of bile salts on hepatic stellate cell activation in vitro and liver fibrosis in a metabolic dysfunction-associated steatohepatitis mouse model <u>C.C.J. Groenen<sup>1</sup>, T. Nguyen<sup>1</sup>, D.R. De Waart<sup>1</sup>, I. Bolt<sup>1</sup>, E. Vogels<sup>1</sup>, D. Terlouw-Tolenaars<sup>1</sup>, S. Duijst<sup>1</sup>, J. Verheij<sup>2</sup>, C.C. Paulusma<sup>1</sup>, W. In het Panhuis<sup>1</sup>, S.F.J. van de Graaf<sup>1</sup>, <sup>1</sup>Tytgat Institute for Liver and Intestinal Research Amsterdam UMC Netherlands, <sup>2</sup>Amsterdam UMC, location AMC, Dept of Pathology, University of Amsterdam Netherlands</u>
09.45 – 10.00	Extracellular cathepsin B is a promising therapeutic target for hepatocellular carcinoma <u>J. Steeghs<sup>1</sup>, H. Mourik<sup>1</sup>, A. Westheim<sup>1</sup>, C.V. Schneider<sup>2</sup>, L. Stoffels<sup>1</sup>, E. Wieczerek<sup>3</sup>, K.M. Schneider<sup>2</sup>, L. Temmerman<sup>1</sup>, E. Biessen<sup>1/2</sup>, R. Godschalk<sup>1</sup>, J. Theys<sup>1</sup>, R. Shiri-Sverdlov<sup>1</sup>, <sup>1</sup>Maastricht University Maastricht Netherlands, <sup>2</sup>Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen Germany, <sup>3</sup>University of Gdansk Poland</u>
10.00 – 10.30	<b>Coffee/Tea break</b>

## Session: Diseases of the Liver

Session leaders: tba

10.30 – 10.45	HBV cccDNA: The molecular reservoir of hepatitis B persistence and challenges in eradication <i>G Sari<sup>1</sup>, J. Kreeft-Voermans<sup>1</sup>, H.L.A. Janssen<sup>1</sup>, A.A. Van der Eijk<sup>1</sup>, A. Boonstra<sup>1</sup>, <sup>1</sup>Erasmus MC Rotterdam Netherlands</i>
10.45 – 11.00	Identifying transporters of the solute carrier (SLC) group involved in cholangiocyte defense against toxic bile acids <i>Q. Li<sup>1/2/3</sup>, D.C. Trampert<sup>1/2/3</sup>, R. Kersten<sup>1/2/3</sup>, S.F.J. van de Graaf<sup>1/2/3</sup>, U.H.W. Beuvers<sup>1/2/3</sup>, <sup>1</sup>Amsterdam UMC Netherlands, <sup>2</sup>Amsterdam Gastroenterology Endocrinology Metabolism (AGEM) Netherlands, <sup>3</sup>Tytgat Institute for Liver and Intestinal Research Amsterdam Netherlands</i>
11.00 – 11.15	Targeting translational control to reduce stemness and promote differentiation in cholangiocarcinoma organoids <i>M. Wunan<sup>1</sup>, <sup>1</sup>Erasmus MC Rotterdam Netherlands</i>
11.15 – 11.30	Developing Prime Editing Strategies for Gene Repair: Targeting Int Deletion <i>Y. Chen<sup>1</sup>, K. Wojczuk<sup>1</sup>, L. Bloemendaal<sup>1</sup>, P. Bosma<sup>1</sup>, <sup>1</sup>Amsterdam UMC, University of Amsterdam Netherlands</i>

11.30 – 12.30      **Lunch Break**

## Session: Trilogy on Crigler-Najjar

Session leader: tba

12.30 – 12.50	Patient perspective (TBD)
12.50 – 13.10	Doctor perspective ( <b>Rob de Knegt</b> )
13.10 – 13.30	Research perspective ( <b>Piter Bosma</b> )

13.30 – 14.00      **Coffee/Tea break**

## Session: New liver models

Session leader: tba

14.00 – 14.15	Bovine intrahepatic cholangiocyte organoids (ICOs) for food safety and animal welfare <i>M.D. Delemarre<sup>1</sup>, B. Spee<sup>1</sup>, M. Strikwold<sup>2</sup>, R. Gehring<sup>1</sup>, <sup>1</sup>Utrecht University Netherlands, <sup>2</sup>Van Hall Larenstein University of Applied Sciences Leeuwarden Netherlands</i>
14.15 – 14.30	Albumin as a therapeutic target for endothelial dysfunction in patients with decompensated cirrhosis <i>S.E. Fischer<sup>1</sup>, R.J. Postma<sup>1</sup>, J.C. Kerbert<sup>1</sup>, R. Bijkerk<sup>1</sup>, V. Duinen<sup>1/2</sup>, A.J. Zonneveld<sup>1</sup>, M.J. Coenraad<sup>1</sup>, <sup>1</sup> Leiden University Medical Center Netherlands, <sup>2</sup> MIMETAS B.V. Oegstgeest Netherlands</i>
14.30 – 14.45	Finding the optimal sterilization method of human decellularized livers for clinical applications <i>E.V.A. Hengel<sup>1</sup>, <sup>1</sup>Erasmus MC Rotterdam Netherlands</i>
14.45 – 15.00	Characterization of a novel in vitro rhesus macaque liver model to study malaria infection <i>L. Uden<sup>1</sup>, Y. Tao<sup>1</sup>, I. Nieuwenhuis<sup>2</sup>, N. Werff<sup>2</sup>, A. Zeeman<sup>2</sup>, B. Spee<sup>1</sup>, <sup>1</sup>Utrecht University Netherlands, <sup>2</sup>Biomedical Primate Research Centre Rijswijk Netherlands</i>
15.00 – 15.15	<b>Short Coffee/Tea break</b>
15.15 – 15.30	<b>Poster and presentation award</b>
15.30 – 15.45	<b>Final remarks, questionnaire &amp; closure</b>