



NASL

NETHERLANDS
ASSOCIATION FOR THE
STUDY OF THE LIVER

Dutch Liver Retreat 2022 Online

Opening Dutch Liver Retreat Online

08.45 - 09.00 Opening (Bart van de Sluis)

Session: FXR / Bile acids

Session Leader: **Bart van de Sluis**

- 09:00 - 09:20 Role of bile acid signalling via FXR in the development and function of brown adipose tissue
J. Yang¹, H.D. Vries¹, A. Mayeuf-Louchar², J.H. Stroeve¹, V.W. Bloks¹, M. Koehorst¹, H. Duez², B. Staels², F. Kuipers¹, T. Zutphen¹. ¹University Medical Center Groningen Groningen; ²Institut Pasteur de Lille, Lille, France.
- 09:20 - 09:40 Identification of pruriceptor activating bile and plasma compounds in cholestatic itch
F. Wolters, Tytgat Institute, Amsterdam, the Netherlands.
- 09:40 - 10:00 Serum autoantibodies against annexin A1 I may weaken the biliary bicarbonate umbrella in IgG4-related cholangitis
R.H.J. Kersten¹, T. Herta¹, J.C. Chang¹, L. Hubers¹, S. Go¹, D. Tolenaars¹, C.C. Paulusma¹, M.H. Nathanson², R. Oude Elferink¹, S.F.J. van de Graaf¹, U.H.W. Beuers¹. Tytgat Institute for Liver and Intestinal Research, AGEM, Amsterdam UMC Amsterdam, the Netherlands; ²Yale University, New Haven, United States
- 10:00 - 10:20 A screening approach to identify novel therapeutic targets for immune-mediated cholestatic liver diseases
D.C. Trampert¹, R. Kersten¹, R.O. Elferink¹, S.F.J. van de Graaf¹, U. Beuers². ¹Tytgat Institute for Liver and Intestinal Research, Amsterdam UMC Amsterdam, ²Dept. of Gastroenterology & Hepatology, Amsterdam UMC Amsterdam Netherlands
- 10:20 - 10:40 Short break

Session: NAFLD/NASH

Session Leader: **Cristy Verzijl**

- 10:40 - 11:00 MicroRNA-26b protects against NASH development by ameliorating hepatic lipid levels, inflammation and fibrosis in mice
L.J.F. Peters¹, E.P.C. Van der Vorst¹, L. Rakateli¹, K. Bidzhekov², C. Weber², T. Houben³. ¹Uniklinikum Aachen, Aachen, ²Institute for cardiovascular prevention Munich, Germany. ³Maastricht University, Maastricht, Netherlands.
- 11:00 - 11:20 Pneumococcal immunization against oxLDL decreases tumor burden in NASH-derived hepatocellular carcinoma
L.M. Stoffels¹, A.J.F. Westheim¹, A.V. Bitorina¹, J. Verbeek², T. Hendriks³, J. Theys¹, R. Shiri-Sverdlov¹, ¹Maastricht University, Maastricht, Netherlands, ²KU Leuven, Leuven, Belgium, ³Medical University of Vienna, Vienna, Austria.

11:20 - 11:40	Low production of 12α-hydroxylated bile acids prevents hepatic steatosis in Cyp2c70-knockout mice by reducing fat absorption <i>R. Li, A. Palmiotti, H.D.E. Vries, M. Hovingh, M. Koehorst, N. Mulder, Y. Zhang, K. Kats, V. Bloks, J. Fu, H. Verkade, J. de Boer, F. Kuipers. University Medical Center Groningen, Groningen, Netherlands.</i>
11:40 - 12:00	RXR heterodimerization to FXR inhibits FXR binding to the everted repeat-2 DNA binding element <i>S.W. Veen¹, J.M. Ramos Pittol², M.D. Appelman¹, J.J. Dijkstra³, E.C.L. Willemsen¹, M. Vermeulen³, S.W.C. Mil¹, ¹University Medical Center Utrecht Utrecht, ²University of Innsbruck Innsbruck, Austria, ³Radboud University, Nijmegen, Netherlands</i>
12:00 - 12:40	Lunch break

Session: New Models

Session Leader: **Louis Penning**

12:40 - 13:00	Induction of branching morphogenesis in cholangiocarcinoma organoids in vitro improves similarity with the original tumor <i>G.S. Tienderen¹, K. Monfils², F.J.M. Roos², L.J.W. Laan², M.M.A. Verstegen², ¹Erasmus MC Transplant Institute, Rotterdam, Netherlands; ²Dept. of Surgery, Erasmus MC Transplant Institute, Erasmus MC Rotterdam, Netherlands</i>
13:00 - 13:20	Cancer-associated fibroblasts nurture LGR5 marked liver tumor-initiating cells and promote their metastasis <i>J. Liu, Q. Pan, Dept. of Gastroenterology and Hepatology, Erasmus MC-University Medical Center, Rotterdam, The Netherlands</i>
13:20 - 13:40	Modelling hepatic Glycogen Storage Disease type I using Precision-Cut Liver Slices – opportunities, challenges and open questions <i>K. Alagere Krishnamurthy¹, L.A. Kiyuna¹, M. Langelaar¹, K. Eunen¹, P. Olinga², B.M. Bakker¹, M.H. Oosterveer¹, ¹University Medical Center Groningen, Groningen, ²University of Groningen, Groningen, the Netherlands.</i>
13:40 - 14:00	Dissecting the role of non-malignant cells in the hepatocellular carcinoma tumor-microenvironment at a single cell level; the establishment of single cell phenomics <i>R.S. Booiijink, R. Bansal, L.W.M.M. Terstappen, University of Twente, Enschede, the Netherlands.</i>
14:00 - 14:20	Short break

Session: HCC / Fibrosis

Session Leader: **Floris Roos**

- 14:20 - 14:40 Hepatocytic loss of the endosomal sorting complex Retromer in adult mice leads to ductular reaction and primary cholangiopathy
L. van Dyk¹, U.T. Mathada¹, D. Vos¹, M. Koster¹, A. Heida¹, M. Smit¹, N. Huijkman¹, N. Kloosterhuis¹, J.A. Kuivenhoven¹, B. van de Sluis¹, ¹University Medical Center Groningen, the Netherlands.
- 14:40 - 15:00 Role of soluble adenylyl cyclase in the formation and growth of liver tumors
J. Chang¹, S. Duijst², S. Go², W.D. Tolenaars², R.E. Thomas³, A. Bruin³, A.J. Verhoeven², R.P.J. Oude Elferink². ¹Utrecht University, Utrecht, ²Tytgat Institute for Liver and Intestinal Research, Amsterdam UMC, Amsterdam, the Netherlands, ³Dept. of Biomolecular Health Science, Utrecht University, Utrecht, the Netherlands.
- 15:00 - 15:20 Multi-omics analysis of human livers reveals intrahepatic inflammation variation across chronic hepatitis B infection phases
A. Boonstra¹, N. Rico Montanari¹, R. Ramirez², A. Aggarwal², N. van Buuren², M. Doukas¹, C. Moon², S. Turner², L. Diehl², L. Li², J.D. Debes¹, B. Feierbach². ¹Erasmus MC Rotterdam, the Netherlands; ²Gilead Sciences Foster City.
- 15:20 - 15:40 Liver Cirrhosis Etiology Impacts the Circulating Immune mediators of Early Stage Hepatocellular Carcinoma
B.J.B. Beudeker, Z.M.A. Groothuismink, A.A. Eijk, J.D. Debes, P.A. Boonstra, Erasmus MC University Medical Center, Rotterdam, the Netherlands.
- 15:40 - 16:00 Short break

Closing session

Session Leader: **Bart van de Sluis**

- 16:00 - 16:45 Keynote: Pathways in the transition from fatty liver to NASH?
Prof. Bart Staels. University Lille, Institut Pasteur de Lille, Lille, France.
- 16:45 - 17:15 Best presentation and closing