



PATHOPHYSIOLOGY AND CLINICAL MANAGEMENT OF ALCOHOLIC LIVER DISEASE

January 27-28, 2022

Online Live Event

DIGITAL



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An application has been made to the UEMS
EACCME® for CME accreditation of this event.

PREFACE

Dear friends and colleagues,

It is our great pleasure to invite you to the Symposium 227 „**PATHOPHYSIOLOGY AND CLINICAL MANAGEMENT OF ALCOHOLIC LIVER DISEASE**“, organized by the Falk Foundation e.V. that will take place from January 27th until January 28th, 2022 preceding the 38th Annual Meeting of the German Association for the Study of the Liver (GASL). Originally planned as a face to face symposium in Mannheim, the event had to be reorganized as a virtual event due to the ongoing pandemic.

Alcoholic Liver Disease (ALD) – throughout decades due to the label of self-infliction a neglected disease and heavily underfunded clinical research entity – recently gained more public and research interest, probably due to the major advances in the clinical management of Hepatitis B and C, to the alarming increase in alcohol consumption in emerging countries, and in the context of risky social drinking in the upper class. In parallel, however, a continuously increasing attention from research funding sources and pharmaceutical industry is given to NAFLD, which is termed “the epidemic of the 21st century”, thus again pushing ALD behind from the foreground.

Although NAFLD is already affecting about a quarter of the adult population and needs attention, in most cases it is responsible for mild disease courses, whereas severe morbidity and mortality from liver disease is still mostly based on ALD. Aiming to (re)sensitize to the strong need for an academic and clinical focus on ALD, we set up this program and are very happy to present a list of renowned experts prone to provide to us the most recent cutting-edge knowledge on ALD. We have spanned the bow from liver damage and disease initiation – to – fibrosis and disease progression –, including inflammatory phenotyping and molecular profiling at cellular and molecular levels, towards end stage disease – alcoholic hepatitis, liver failure and systemic disturbance – with an outlook on possibilities of intervention.

Complementary to the oral presentations, there will be accompanying poster session on the first day. The symposium will be followed by the annual meeting of the GASL, to which you are also cordially invited.

We thank all the speakers and participants of this symposium for taking the time to share their contributions and opinions on the variant aspects of ALD. We are looking forward to an excellent symposium that will provide a comprehensive course on the variant aspects of ALD and hopefully open doors for new projects and collaborations.

Last but not least, we are most grateful to the Falk Foundation for the generous support of this event.

We wish you a most enjoyable and insightful meeting and very much look forward to welcoming you online.

Steven Dooley

GASL President 2021/2022

with Jonel Trebicka and Sebastian Mueller



PATHOPHYSIOLOGY AND CLINICAL MANAGEMENT OF ALCOHOLIC LIVER DISEASE

January 27-28, 2022

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Scientific Co-Organization:

Sebastian Mueller, Heidelberg (Germany)
Jonel Trebicka, Frankfurt (Germany)

The times in the program are given in UTC.
Please check your local time, e.g. Germany UTC+1.

Thursday, January 27 2022

(13:30 – 15:05 UTC)

13:30 Welcome
Steven Dooley, Mannheim

SESSION I **Inflammatory phenotyping and molecular profiling**

Chairs: *Richard Moreau, Paris*

13:35 Introduction to the topic
Richard Moreau, Paris

13:40 Molecular profiling of alcoholic hepatitis
Ramon Bataller, Pittsburgh

13:55 Q&A

14:00 Immune dysfunction in alcohol-related liver disease
Shilpa Chokshi, London

14:15 Q&A

14:20 Inflammation and therapeutic concepts in alcoholic hepatitis
Bin Gao, Bethesda

14:35 Q&A

14:40 Impact of the gut on alcohol-related liver disease progression and severe alcoholic hepatitis
Bernd Schnabl, San Diego

14:55 Q&A

15:00 Summary & End of the session
Felix Stickel, Zurich

Thursday, January 27 2022

(15:05 – 16:00 UTC)

POSTER SESSION

Chairs: *Steven Dooley, Mannheim; Sebastian Mueller, Heidelberg;
Jonel Trebicka, Frankfurt*

- 15:05** Introduction
Steven Dooley, Mannheim
-
- 15:10** Room 1: Therapy / Clinical
-
- 15:10** Room 2: Profiling / Clinical
-
- 15:10** Room 3: Exp1 Mouse models
-
- 15:10** Room 4: Exp2 Metabolism
-
- 15:10** Room 5: Exp3 Signaling / Gender
-
- 15:10** Room 6: Socioeconomy / Clinical
-
- 15:50** Q&A
-

*The authors of accepted posters will present their poster in 3-4 minutes.
Afterwards there is time for discussion or questions.*

-
- 16:00** Break

Thursday, January 27 2022

(16:10 – 17:45 UTC)

SESSION II

Alcoholic hepatitis, liver failure and systemic disturbance

Chairs: *Jonel Trebicka, Frankfurt*

-
- 16:10** Introduction to the topic
Jonel Trebicka, Frankfurt
-
- 16:15** Clinics of severe alcoholic hepatitis and liver transplantation
Alexandre Louvet, Lille
-
- 16:30** Q&A
-
- 16:35** Systemic (mis)communication in severe alcoholic hepatitis and ACLF
Richard Moreau, Paris
-
- 16:50** Q&A
-
- 16:55** Novel drugs for management of acute alcoholic hepatitis
Vijay Shah, Rochester
-
- 17:10** Q&A
-
- 17:15** Mechanisms of recovery from and strategies for survival of severe alcoholic hepatitis and ACLF
Rajiv Jalan, London
-
- 17:30** Q&A
-
- 17:35** Summary & End of the session
Jonel Trebicka, Frankfurt
-
- 17:40** Closing words
Steven Dooley, Mannheim

Friday, January 28 2022

(08:00 – 11:30 UTC)

08:00 Welcome
Steven Dooley, Mannheim

SESSION III **Liver damage and disease initiation**

Chairs: *Sebastian Mueller, Heidelberg*

08:05 Introduction to the topic
Sebastian Mueller, Heidelberg

08:10 Early alcoholic stress to the liver - damage vs steatosis
Alexander Krag, Odense

08:25 Q&A

08:30 Inflammation and fibrogenesis in alcohol-related liver disease
Sophie Lotersztajn, Paris

08:45 Q&A

08:50 Genetic susceptibility for adverse alcohol effects towards liver
Felix Stickel, Zurich

09:05 Q&A

09:10 Pathomorphology of alcohol-related liver disease progression
Tania Roskams, Leuven

09:25 Q&A

09:30 Summary & End of the Session
Sebastian Mueller

09:35 Break

Friday, January 28 2022

(08:00 – 11:30 UTC)

SESSION IV

Fibrosis and disease progression to cirrhosis

Chairs: *Steven Dooley, Mannheim*

-
- 10:00** Introduction to the topic
Steven Dooley, Mannheim
-
- 10:05** Architectural and vascular disturbance of liver disease progression
Jan G. Hengstler, Dortmund
-
- 10:20** Q&A
-
- 10:25** Stratification of cirrhosis and its impact on liver carcinogenesis
Massimo Pinzani, London
-
- 10:40** Q&A
-
- 10:45** Cell biology of nonparenchymal cells in ALD – repair, disease progression and carcinogenesis
Robert F. Schwabe, New York
-
- 11:00** Q&A
-
- 11:05** Alcohol mediated modulation of the matrisome and consequences
Gavin E. Arteel, Pittsburgh
-
- 11:20** Q&A
-
- 11:25** Summary & End of the Session
Steven Dooley, Mannheim
-
- 11:30** Closing words
Steven Dooley, Mannheim

LIST OF SPEAKERS, MODERATORS AND SCIENTIFIC ORGANIZERS

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POSTER ABSTRACTS

1. Gender-related differences in response to DUAL diet in murine model of steatohepatitis
R. Benede-Ubieto, O. Estevez-Vazquez, M. Dumartin, J. Reissing, T. Bruns, J. Vaquero, C. Liedtke, C. Trautwein, R. Banares, F. Cubero, Y. Nevzorova (Madrid, ES, Aachen, DE)
- 2.* Variants APOE (rs429358) and TM6SF2 (rs187429064) modify the risk of hepatocellular carcinoma
S. Buch, H. Innes, H. Nischalke, K. Weiss, D. Gotthardt, J. Rosendahl, F. Lammert, S. Mueller, T. Berg, J. Hampe, F. Stickel (Dresden, Bonn, Heidelberg, Halle Saale, Homburg, Leipzig, DE, Glasgow, GB, Zurich, CH)
3. H₂O₂-mediated autophagy during ethanol metabolism
C. Chen, S. Wang, J. Mueller, S. Mueller (Heidelberg, DE)
4. In vitro erythrophagocytosis model to study alcohol-mediated heme turnover
C. CHEN, S. Wang, J. Mueller, S. Mueller (Heidelberg, DE)
5. Collecting clinical data during Covid 19 Pandemic: survey on alcohol consumption in patients affected by Chronic Autoimmune Liver Diseases.
M. Delle Monache, M. Carli, L. Nosotti (Rome, IT)
6. Role of bone morphogenetic protein 6 in hepatocellular carcinoma
U. Eisner, J. Sommer, A. Bosserhoff, C. Hellerbrand (Erlangen, DE)
7. Non-alcoholic Fatty Liver Disease and Insulin Resistance among patients with Type I and Type II Diabetes
M. Elkady (Benha, EG)
8. Serum Vitamin D in Patients with Non Alcoholic Fatty Liver Disease
M. Elkady (Benha, EG)
9. A short-term diet withdrawal ameliorates steatohepatitis in DUAL-fed mice
O. Estevez Vazquez, O. Estevez Vazquez, R. Benede-Ubieto, J. Reissing, T. Bruns, J. Vaquero, C. Liedtke, C. Trautwein, R. Banhares, F. Javier Cubero, Y. A. Nevzorova (Madrid, ES, Aachen, DE)
- 10.* Dysfunctional inducibility of cytokine secretion in T cells of acute-on-chronic liver failure patients is accompanied by reduced signalling of important transcription factors
S. Guckenbiehl, M. Langer, H. Schmidt, C. Lange (Essen, München, DE)
- 11.* Protective role of prostaglandin E2 in diet-induced steatohepatitis
J. Henkel-Oberlaender, C. Coleman, S. Kuipers, M. Vahrenbrink, K. Joehrens, T. Weiss, G. Pueschel (Kulmbach, Nuthetal, Dresden, Regensburg, DE)
12. Role of endurance training in diet-induced steatohepatitis in rats
J. Henkel-Oberlaender, K. Buchheim-Dieckow, J. Castro, T. Laeger, K. Joehrens, G. Pueschel (Kulmbach, Nuthetal, Dresden, DE)
- 13.* Alcohol abstinence improves survival in alcohol-related cirrhosis – even in patients who have already progressed to high-risk portal hypertension
B. Hofer, B. Simbrunner, L. Hartl, M. Jachs, L. Balcar, R. Paternostro, P. Schwabl, G. Semmler, B. Scheiner, A. Staettermayer, M. Trauner, M. Mandorfer, T. Reiberger (Vienna, AT)
14. MicroRNAs modulate SARS-CoV-2 infection in primary human hepatocytes by regulating the entry factors ACE2 and TMPRSS2
R. Khanal, N. Heinen, A. Bogomolova, H. Wedemeyer, M. Ott, S. Pfaender, A. Sharma (Hannover, Bochum, DE)

15. mRNA therapeutics for liver diseases: HNF4A mRNA delivery via lipid nanoparticles attenuates liver fibrosis in preclinical models
R. Khanal, T. Yang, M. Poenisch, R. Taubert, B. Engel, E. Jaeckel, T. Cantz, F. Chevessier, A. Balakrishnan, M. Ott, A. Sharma (Hannover, Tübingen, DE)
16. Oral probiotic administration influences pro- and anti-inflammatory cytokines in alcoholic liver disease
R. Knut, L. Sydorhuk, A. Sydorhuk, V. Stepan, I. Sydorhuk, N. Stepan, I. Sydorhuk, I. Hryhorhuk, O. Khomko, R. Sydorhuk, I. Plehutsa, O. Mazurok (Chernivtsi, Storozhynets, UA, Siegen, DE)
17. Rat model of advanced non-alcoholic Steatohepatitis Cirrhosis developing Acute-on-Chronic-Liver failure
N. Kraus, M. Moeslein, R. Schierwagen, C. Ortiz, S. Torres, O. Tyc, C. Hieber, C. Meier, E. Mueller, W. Gu, M. Brol, S. Lotersztajn, R. Flores-Costa, P. Rautou, S. Zeuzem, F. Uschner, J. Claria, J. Trebicka, S. Klein (Frankfurt, DE, Frankfurt, Paris, FR, Barcelona, ES)
18. Rat model of alcoholic liver cirrhosis developing Acute-on-Chronic-Liver failure
N. Kraus, M. Moeslein, R. Schierwagen, C. Ortiz, S. Torres, O. Tyc, C. Hieber, C. Meier, E. Mueller, W. Gu, M. Brol, R. Flores-Costa, S. Loterstajn, P. Rautou, S. Zeuzem, F. Uschner, J. Claria, J. Trebicka, S. Klein (Frankfurt, DE, Barcelona, ES, Paris, FR)
19. Rat Model of Cholestatic Liver Cirrhosis Developing Acute-on-Chronic-Liver failure
N. Kraus, S. Klein, M. Moeslein, R. Schierwagen, C. Ortiz, S. Torres, O. Tyc, C. Hieber, C. Meier, E. Mueller, W. Gu, M. Brol, S. Loterstajn, R. Flores-Costa, P. Rautou, S. Zeuzem, J. Claria, J. Trebicka, F. Uschner (Frankfurt, DE, Paris, FR, Barcelona, ES)
20. A severity-dependent increase of Yes-associated protein expression in liver biopsy tissues from patients with various stages of alcoholic liver disease
Y. Liang (Essen, DE)
- 21.* Survival in a 10 year prospective cohort of heavy drinkers: Liver stiffness is the best long-term prognostic parameter
J. Mueller, S. Wang, C. Chen, O. Elshaarawy, S. Mueller (Heidelberg, DE)
- 22.* The role of PNPLA3, MBOAT7 and TM6SF2 during alcohol detoxification: different mechanisms of fibrosis and steatosis development
J. Mueller, S. Wang, C. Chen, O. Elshaarawy, V. Rausch, S. Mueller (Heidelberg, DE)
- 23.* Deep characterization of the non-alcoholic/alcoholic steatohepatitis in liver specimen demonstrated a specific in-situ immunophenotype: a single center experience.
D. Neureiter, E. Klieser, B. Neumayer (Salzburg, AT)
- 24.* Association between socioeconomic factors and harmful drinking among immigrants in Rome Nosotti (ITALIA (IT), IT)
25. Expression of Bone Morphogenetic Protein 13 in hepatic stellate cells and hepatic fibrosis
Peschl, T. Seitz, C. Hellerbrand (Erlangen, DE)
- 26.* Serum proteomics predicts the course of alcoholic hepatitis
Remih, L. Tyson, S. Atkinson, N. Vergis, L. Krieg, I. Karkossa, K. Schubert, M. Von Bergen, M. Thursz, P. Strnad (Aachen, Leipzig, DE, London, GB, Corvallis, US)
27. Hepatic Th2 immune response correlates inversely with the egg load in parasitic infection
L. Russ, V. Von Buelow, L. Hehr, S. Wrobel, V. Wirth, K. Tabatabai, G. Schramm, T. Quack, C. Grevelding, M. Roderfeld, E. Roeb (Gießen, Giessen, Borstel, DE)

28. Expression of paracrine fibroblast growth factors in liver fibrosis
Seitz, K. Freese, W. Thasler, C. Hellerbrand (Erlangen, Planegg/Martinsried, DE)
- 29.*Transient elastography in community alcohol services: can it detect significant liver disease and impact drinking behaviour?
Sheth, M. Subhani, R. Scott, D. Harman, E. Wilkes, M. James, G. Aithal, S. Ryder, I. Guha (Nottingham, GB)
30. Sexual dimorphism in Western-type diet-induced alterations of lipid and bile acid metabolisms in mice
Sommer, G. Liebisch, C. Hellerbrand (Erlangen, Regensburg, DE)
- 31.* Liver endothelial cells induce hepatocellular carcinoma via Hgf secretion
M. Steffani, J. Wang, C. Stoess, H. Friess, C. Mogler, N. Hueser, D. Hartmann (München, Munich, DE)
32. Liver transplant candidates without 6 months alcohol abstinence: clinical and psychological characteristics
M. Sterneck, C. Lienau, A. Buchholz, D. Eickhoff, A. Harberts, P. Huebener, D. Ruether (Hamburg, DE)
33. Does the host's age influence the effectivity of *Schistosoma mansoni* infection?
J. Strassmann, V. Von Buelow, S. Wrobel, C. Grevelding, T. Quack, K. Kernt (Gießen, DE)
- 34.*Alcohol-related liver disease mortality and missed opportunities: a UK retrospective observational study
M. Subhani, R. Ellery, J. Bethea, J. Morling R, S. Ryder D (Ng7 2uh, Nottingham, GB)
35. Lipid metabolism in non-alcoholic and alcoholic liver disease
A. Sydorчук, L. Sydorчук, V. Stepan, I. Sydorчук, N. Stepan, I. Sydorчук, I. Hryhorchuk, R. Knut, O. Plehutsa, R. Sydorчук (Chernivtsi, UA, Siegen, DE)
36. Comparing gut microbiota changes in NAFLD and alcoholic liver disease
L. Sydorчук, V. Stepan, A. Sydorчук, I. Sydorчук, N. Stepan, I. Sydorчук, I. Hryhorchuk, R. Sydorчук, I. Plehutsa, O. Hrushko, R. Knut (Chernivtsi, Storozhynets, UA, Siegen, DE)
37. Ursodeoxycholic acid in alcoholic liver disease
R. Sydorчук, I. Plehutsa, A. Sydorчук, N. Stepan, L. Sydorчук, I. Sydorчук, V. Stepan, I. Sydorчук, I. Hryhorchuk, O. Mazurok (Chernivtsi, Storozhynets, UA, Giessen, DE)
38. Subclassification of human hepatic hemangiomas reveals cellular and functional heterogeneity
S. Thomann, S. Sprengel, J. Liermann, M. Toth, C. Sticht, P. Schirmacher (Heidelberg, Mannheim, DE)
39. Janus kinase 2 inhibition by pacritinib is a potential therapeutic target for liver fibrosis and portal hypertension
S. Torres, N. Bachtler, C. Ortiz, N. Kraus, R. Schierwagen, C. Hieber, C. Meier, O. Tyc, F. Uschner, B. Nijmeijer, C. Welsch, S. Zeuzem, J. Trebicka, S. Klein (Frankfurt, DE, Amsterdam, NL)
40. Metabolomic analysis of bacterial infection markers in blood samples of patients with decompensated liver cirrhosis infused with the novel drug VS-01
O. Tyc, F. Uschner, W. Gu, M. Schulz, P. Ferstl, P. Stoffers, K. Staufer, H. Erasmus, J. Masseli, K. Peiffer, F. Finkelmeier, A. Pathil-Warth, J. Bojunga, S. Zeuzem, M. Kabbaj, J. Trebicka (Frankfurt, DE, Zurich, CH)
41. Evidence for alcohol-mediated masked hemolysis in ALD patients and a vicious cycle of hemolysis and iron-mediated liver damage
S. Wang, C. Chen, J. Mueller, S. Mueller (Heidelberg, DE)

42. Liver iron overload in alcoholic liver disease: crosstalk between endothelial cells and hepatocytes in iron regulation
S. Wang, C. CHEN, J. Mueller, S. Mueller (Heidelberg, DE)
43. Functional activation of the insulin-like growth factor 1 receptor IGF1-R and insulin receptor IR following stimulation with parasite antigens
V. Wirth, V. Von Buelow, L. Hehr, L. Russ, A. Baier, G. Schramm, T. Quack, C. Greveling, M. Roderfeld, E. Roeb (Giessen, Borstel, DE)
44. Infection grade determines intestinal immune reaction in parasitic infection
S. Wrobel, L. Russ, V. Von Buelow, T. Quack, C. Greveling, M. Roderfeld, E. Roeb (Gießen, Giessen, DE)
45. Efficacy of endoscopic “micro foam” sclerotherapy in acute varicose bleeding from the veins of the esophagus and stomach in patients with alcoholic liver disease
K. Yaroshenko (Dnipro, UA)
- 46.*The gut microbiome controls liver regeneration through lipid metabolism
Yin, A. Sichler, J. Ecker, J. Wang, Y. Wang, H. Ling, M. Laschinger, H. Friess, D. Harmann, B. Holzmann, K. Janssen, N. Hueser (Munich, DE)

* poster of distinction

REGISTRATION

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CONFLICTS OF INTEREST

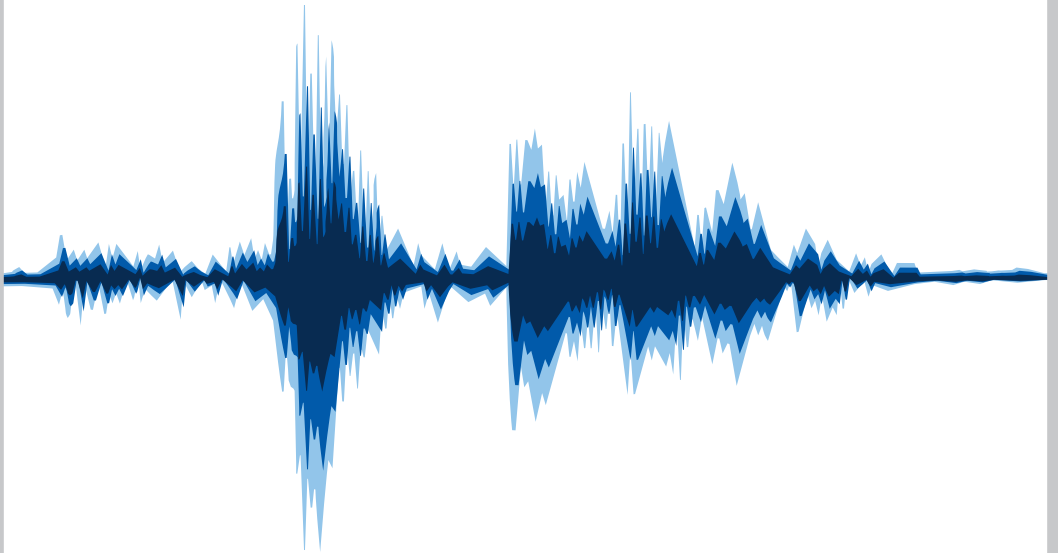
Members of the scientific committee declare the following potential conflicts of interest:

Jonel Trebicka: Versatis, Gore Medical, Grifols, CSL Behring, MSD, Falk, Norgine

Steven Dooley and Sebastian Mueller declare no potential conflicts of interest.



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Together we know more. Together we do more.

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