

Workshop



Liver-Gut-Axis

Online Live Event
January 28-29, 2021



Program

**Application for
CME credits
submitted**

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CME credits for the Workshop have been applied for at the European Union of Medical Specialists (UEMS). The number of credits awarded will be printed in the final program.

Preface

Dear colleagues, dear friends,

It is my great pleasure to invite you to the workshop „Liver-Gut-Axis“ organized by the Falk Foundation e.V. that will take place from January 28th until January 29th, 2021 preceding the 37th Annual Meeting of the German Association for the Study of the Liver (GASL). Being fully aware of the current pandemic COVID-19 situation both events have been planned as virtual meeting, appreciated and rewarded with an up-to-date agenda on the latest developments in the interplay between liver and gut.

The program of this meeting will therefore cover four areas of major interest:

First, hepatic regeneration in its different aspects spanning from antisense strategies in hereditary liver disease to artificial liver support as well as perioperative anticipation and avoidance of postoperative liver failure. Second, the current concepts in intestinal failure-associated liver disease, which will reflect the latest developments in intestinal rehabilitation and transplantation as well. Third, the field of liver transplantation in a broader sense, covering new concepts of allograft preservation and preconditioning, immune tolerance and living donation. Last, we will focus on the role of microbiota in the liver-gut-axis and its role in different disease entities.

During this workshop, outstanding international experts will discuss the most recent findings regarding these exciting topics. Complementary to the oral presentations there will be accompanying poster sessions on both days. The workshop will be followed by the annual meeting of the GASL to which you are also cordially invited.

I would like to thank all the speakers and participants of this workshop for taking the time to join us in Münster and share their latest findings. I am confident that we will have a highly stimulating workshop that will not only provide new insights into the various aspects of the interplay between liver and gut but also offer new opportunities for future collaborations. I have the privilege to be supported in the organization of this workshop by an experienced and very motivated interdisciplinary team, Hartmut Schmidt, Hauke Heinzow, Benjamin Strücker, and Haluk Morgül, whom I would like to give special thanks. This team represents our common idea of an interdisciplinary visceral medicine joining and amplifying the resources and forces of the field of gastroenterology and hepatology as well as visceral surgery. As a representative in the field of visceral surgery, it is my special concern to revitalize and enhance the contribution of surgical colleagues to the Workshop and the GASL Meeting as well.

Last but not least, I am most grateful to the Falk Foundation for the generous support of this workshop.

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

Andreas Pascher
GASL President 2020/2021
Professor and Director
Department of General, Visceral and Transplant Surgery
Universitätsklinikum Münster

Workshop



Liver-Gut-Axis

January 28-29, 2021

The 37th Annual Meeting of the German Association for the Study of the Liver will follow the Workshop:

January 29, 13.15 h to

January 30, 14.30 h (German Time)

Registration:

For details see page 12

Official Language:

English

**The Workshop is organized
by Falk Foundation e.V.**

Scientific Organization:

Univ. Prof. Dr. med. Andreas Pascher,
MBA, FEBS

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M. H. Morgül, Münster (Germany)

H. Schmidt, Münster (Germany)



Thursday, January 28, 2021

12:00 Welcome and opening remarks

A. Pascher,
Münster

Session I Hepatic regeneration

Chairs: K.J. Oldhafer, Hamburg; A. Pascher, Münster

12:05 Introduction to the topic

12:10 Si-antisense strategy for hereditary liver disease

H. Schmidt,
Münster

12:25 Q&A

12:35 Artificial liver support

R. Jalan,
London

12:50 Q&A

13:00 Bioartificial livers – where do we stand?

A. Soto-Gutierrez,
Pittsburgh

13:15 Q&A

13:25 Preventing post-resection liver failure through preemptive liver generation

P.-A. Clavien,
Zurich

13:40 Q&A

13:50 Augmented reality and deep learning for liver surgery

A. Schenk,
Bremen

14:05 Q&A

14:15 Summary & highlights

14:30 Break



Thursday, January 28, 2021

Session II
Liver transplantation

Chairs: U. Neumann, Aachen; H. Schmidt, Münster

- 14:55** Introduction to the topic
- 15:00** Machine perfusion of the donor allograft P. Friend,
Oxford
- 15:15** Q&A
- 15:25** Pretransplant conditioning of (steatotic) donor livers N. Raschzok,
Berlin
- 15:40** Q&A
- 15:50** Immune tolerance in liver transplantation S. Feng,
Los Angeles
- 16:05** Q&A
- 16:15** Minimal invasive and robotic-assisted living donor
hepatectomy D.C. Bröring,
Riad
- 16:30** Q&A
- 16:40** Summary & highlights
- 16:55** **Closing remarks** A. Pascher,
Münster



Friday, January 29, 2021

7:00 Welcome

A. Pascher,
Münster

Session III Intestinal failure-associated liver disease

Chairs: J. Brockmann, Münster; U.-F. Pape, Hamburg

7:05 Introduction to the topic

7:10 IFALD - Current pathophysiologic concepts

L. Pironi,
Bologna

7:25 Q&A

7:35 Current concepts in intestinal rehabilitation

P.B. Jeppesen,
Copenhagen

7:50 Q&A

8:00 State-of-the-Art-Lecture: Parenteral nutrition

G. Lamprecht,
Rostock

8:15 Q&A

8:25 State-of-the-Art-Lecture: Intestinal and multivisceral transplantation

J. Brockmann,
Münster

8:40 Q&A

8:50 Summary & highlights

9:05 Break



Friday, January 29, 2021

Session IV Microbiota

Chairs: M. Kriegel, Münster; A. Pascher, Münster

- 9:30** Introduction to the topic
- 9:35** The role of the gut-liver axis in the pathogenesis of liver disease B. Schnabl, La Jolla
- 9:50** Q&A
- 10:00** The gut microbiota in metabolic dysfunction-associated fatty liver disease N. Lanthier, Louvain
- 10:15** Q&A
- 10:25** State-of-the-Art-Lecture: Fecal microbiota transfer in immunocompromised patients M. Vehreschild, Frankfurt
- 10:40** Q&A
- 10:50** Gut-liver axis and probiotics: What do we know? J. S. Bajaj, Richmond
- 11:05** Q&A
- 11:15** Summary & highlights
- 11:30** Closing remarks A. Pascher, Münster
- 12:15** **Opening of the Annual Meeting of the GASL**

Poster Abstracts

1. Pre-treatment liver stiffness predicts relapse after direct-acting antiviral therapy of chronic hepatitis C infection
M. Alsenbesy, M. Helal, A. Ghewil, A. Khodary (Manama, BH; Qena, Sohag, EG)
- 2.* Under the condition of high fat diet BMP-9 acts protective by inducing FGF19 expression in the gut
K. Breitkopf-Heinlein, S. Drexler, C. Cai, H. Gaitantzi, L. Hawinkels, M. Ebert (Mannheim, DE; Leiden, NL)
3. DNA damage is induced by *Schistosoma mansoni* infection in hamster liver
N. Buss, V. Von Buelow, L. Hehr, S. Gindner, A. Baier, G. Schramm, T. Quack, C.G. Grevelding, M. Roderfeld, E. Roeb (Giessen, Borstel, DE)
- 4.* Muscle RAS oncogene homolog is a novel therapeutic target gene contributing to hepatocellular carcinoma progression and sorafenib-resistance
V. Fritz > Poster will not be published
5. *Schistosoma mansoni* eggs regulate the hepatic carbohydrate metabolism in infected hamster livers
S. Gindner, V. Von Buelow, L. Hehr, N. Buss, A. Baier, G. Schramm, T. Quack, C.G. Grevelding, M. Roderfeld, E. Roeb (Giessen, Borstel, DE)
6. Are biological markers (APRI, FIB4 and GPR) less effective than Fibroscan in the evaluation of fibrosis in primary biliary cholangitis?
R. Harbi, A. Hammami, W. Ben Ameer, W. Dahmani, N. Elleuch, S. Ajmi, A. Brahem, A. Ben Slama, M. Ksaaa, H. Jaziri, A. Jmaa (Sousse, TN)
7. Is there a correlation between GPR, APRI, FIB-4 scores and the presence of esophageal varices in cirrhosis?
R. Harbi, S. Mrabet, S. Zaouga, I. Akkari, E. Ben Jazia (Sousse, TN)
8. A differential role of Cyclin-dependent kinase 2 and E-type Cyclins for homeostasis and disease in liver and gut
A. Huebbers, R. Sonntag, J. Hennings, C. Trautwein, Y. Nevzorova, C. Liedtke (Aachen, DE)
9. Intestinal dysfunction and relationships between microbiota, immune response, and intestinal permeability
R. Knut, R. Sydorhuk, L. Sydorhuk, N. Stepan, A. Sydorhuk, O. Khomko, I. Sydorhuk, V. Stepan, I. Sydorhuk, I. Plehutsa, I. Hryhorhuk (Chernivtsi, Storozhynets, UA; Frankfurt am Main, DE)
10. A novel tool for analyzing microbial pattern changes detected by flow cytometry
J. Kupschus, K. Hochrath, N. Dauzenroth, J. Rathjens, K. Ickstadt, S. Janssen, C. Esser (Düsseldorf, Dortmund, Giessen, DE)
11. The substantial role of gut microbiota in NAFLD occurrence
K. Kvit, U. Dorofeyeva, N. Kharchenko, V. Vozniuk, L. Mulka, H. Moliukh (Lviv, Kyiv, UA)

12. Use of Nile Red to assess quality of steatotic donor human hepatocytes
J. Singh, M. Deheragoda, A. Dhawan, R. Mitry (London, GB)
13. Liver-gut – Maybe it's not an „axis“, but a “tree” from gut to liver
V. Sulyma (Dnipro, UA)
14. Non-alcoholic fatty liver disease, pro- and anti-inflammatory cytokines and possible influence of oral probiotic therapy
A. Sydorhuk, I. Hryhorhuk, L. Sydorhuk, O. Khomko, I. Sydorhuk, I. Plehutsa, I. Sydorhuk, R. Sydorhuk (Chernivtsi, Storozhynets, UA; Frankfurt am Main, DE)
15. Non-alcoholic fatty liver disease, mesenteric circulation, intestinal dysbiosis and their pathogenetic linkages via angiotensin-converting enzyme and angiotensin type II receptor type genes
L. Sydorhuk, O. Iftoda, V. Stepan, A. Sydorhuk, R. Knut, I. Sydorhuk, N. Stepan, O. Plehutsa, I. Sydorhuk, O. Khomko, R. Sydorhuk (Chernivtsi, UA; Frankfurt am Main, DE)
16. Intestinal microbiota, anti-endotoxin immune response, and systemic nitric oxide modification by ursodeoxycholic acid in chronic HCV infection
R. Sydorhuk, R. Knut, L. Sydorhuk, A. Vakarchuk, I. Sydorhuk, N. Stepan, A. Sydorhuk, V. Stepan, I. Sydorhuk, O. Khomko, I. Hryhorhuk (Chernivtsi, UA; Frankfurt am Main, DE)
17. Dysregulation of hepatic metabolism in *Schistosoma mansoni* infection: A gender problem?
V. Von Buelow, A. Baier, L. Hehr, N. Buss, S. Gindner, T. Quack, C.G. Grevelding, M. Roderfeld, E. Roeb (Giessen, DE)
18. 12-O-tetradecanoylphorbol-13-acetat induces epithelial-to-mesenchymal transition in hepatocellular carcinoma cells similar to transforming growth factor β 1
L. Wormser, V. Fritz, A. Gaza, A. Kremer, C. Hellerbrand, A.K. Bosserhoff, P. Dietrich (Erlangen, DE)
19. The influence of intestinal flora on liver regeneration through the liver-gut axis
Y. Yin, A. Sichler, J. Ecker, Y. Wang, X. Zhang, M. Laschinger, B. Holzmann, H. Friess, N. Hueser, D. Hartmann, K.-P. Janssen (Munich, DE)
20. Correlation between endoscopic and radiologic signs of portal hypertension in cirrhosis
S. Zaouga, S. Mrabet, R. Harbi, I. Akkari, E. Ben Jazia (Sousse, TN)
21. Correlation between the Globe score and the Paris II criteria in the evaluation of the response to UDCA in primary biliary cholangitis
S. Zaouga, S. Mrabet, R. Harbi, I. Akkari, E. Ben Jazia (Sousse, TN)

* = Posters of Distinction

List of Speakers, Moderators and Scientific Organizers

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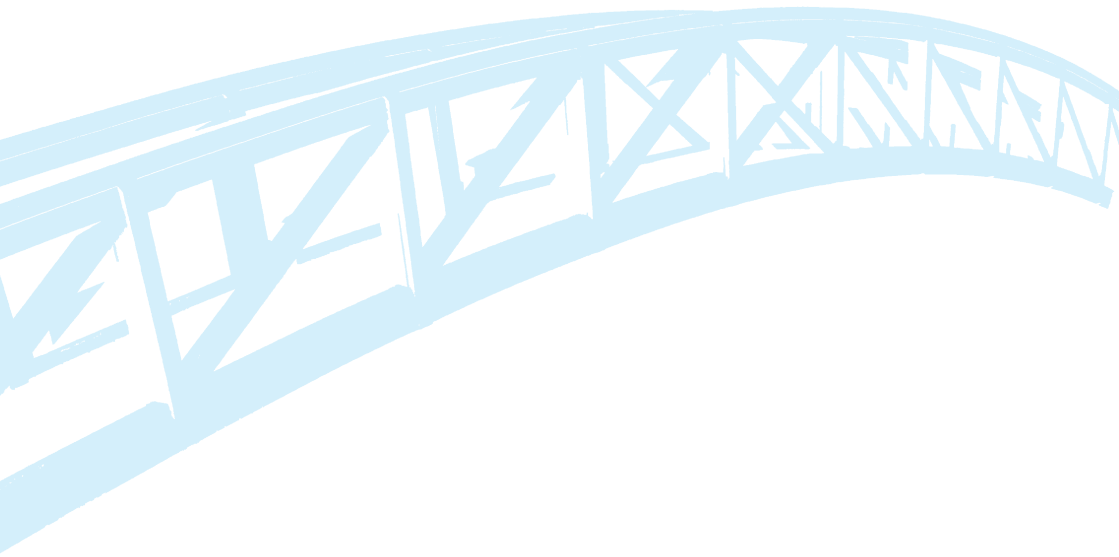
The Online Live Event „Liver-Gut-Axis“ is free of charge.

Registration

You can register online under the following link:
<https://register.falkfoundation.com>



After registration you will receive a confirmation with your login details.



Organized by:

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