Future Perspectives in Hepatology: From Basics to Clinics

January 19 – 20, 2017
Universitätsklinikum Essen
Essen, Germany

Program
6 credit hours (CME) have been awarded for the Workshop by the European Union of Medical Specialists (UEMS) - European Board of Gastroenterology.
Preface

Dear colleagues,

It is a great pleasure for me to welcome you all to the GASL Research Workshop 2017 entitled “Future Perspectives in Hepatology – From Basics to Clinics” and organized by the Falk Foundation e.V. in Freiburg.

The progress in the management of HCV infection represents the recent tremendous progress in diagnostic and treatment of viral hepatitis being recognized as a modern unbloody revolution in disease discovery and elimination. However, over the last decade a new era is rising indicating the clinical burden of non-alcoholic fatty liver disease (NAFLD) as a most common cause of chronic liver disease not only in western countries but also all over the world including Far East and China. However, NAFLD includes the concept of a multisystem-disease with multi-organ involvement including for example diabetes, cardiovascular or cardiac diseases, chronic kidney disease, hepatocellular carcinoma and other extrahepatic disorders. However, the management of NAFLD from pathogenesis to new pharmacological therapies is still in the beginning as a challenge for the future. Among the common complications of liver cirrhosis, portal hypertension and the concept of fibrosis are further areas for the future and need new strategies for clinical research. This also includes new concepts in liver cancer, cell therapy for liver disease from liver transplantation to cell factory and new pathogenetic insights coming from the microbiome data. Due to the dramatic improvement in survival after liver transplantation as a consequence of improvement of surgical and clinical techniques, the post-transplant management as prevention of disease recurrence and other post-transplant complications are now coming to the main focus. Such approaches will also include strategies for new concepts in long-term immunosuppression with new classes of immunosuppressive drugs in the pipeline aiming a full immune tolerance of the graft in the future.

Therefore, this GASL Research Workshop focusses on future perspectives in hepatology from basics to clinics describing the Agenda 2025. During this workshop, international outstanding experts will discuss the most promising hepatological topics at the horizon. There will be an accompanying poster session on both days. The Workshop will be followed by the annual meeting of the GASL 2017 which I also would like to invite you to cordially.

Hopefully, you will enjoy the workshop with fruitful discussions in a familiar atmosphere at the Essen University Hospital. Last but not least, I hope you will enjoy Essen and the Ruhr in the heart of Germany and Europe as one of the biggest European metropolitan areas.

Together with all our local scientific and clinical organizers I thank you all for coming to Essen.

Guido Gerken
GASL President 2016/2017
Professor and Chairman
Department of Internal Medicine
Gastroenterology and Hepatology
University of Duisburg-Essen
Future Perspectives in Hepatology: From Basics to Clinics

January 19 – 20, 2017
Universitätsklinikum Essen
Essen, Germany

The 33th Annual Meeting of the German Association for the Study of the Liver will follow the Workshop: January 20, 12.30 h to January 21, 14.30 h

Congress Venue:
Universitätsklinikum Essen
Audimax
Hufelandstraße 55
45147 Essen
Germany

The Workshop is organized by Falk Foundation e.V.

Scientific Organization:
Prof. Dr. Guido Gerken
Gastroenterologie/Hepatologie
Zentrum für Innere Medizin
Universitätsklinikum Essen
Hufelandstraße 55
45147 Essen
Germany
Telephone: +49 201 / 723 36 10
Telefax: +49 201 / 723 59 71
E-Mail: gasl@uk-essen.de

Scientific Co-Organization:
A. E. Canbay, Magdeburg (Germany)

Official Language:
English

Posters:
A poster session will take place. For details see page 9
Thursday, January 19, 2017

12.00 Lunch with poster session

13.00 Welcome
Opening remarks

G. Gerken,
Essen
J. Buer,
Dean of the Faculty,
University of Essen

Session I
Viral Hepatitis / HCC

Chair: U. Dittmer, Essen; M.P. Manns, Hannover

13.30 Immune regulation in chronic viral hepatitis
B. Rehermann,
Bethesda

13.55 Molecular viral hepatocarcinogenesis in HBV and HCV
C. Bréchot,
Paris

14.20 Novel antiviral strategies to eradicate hepatitis B
U. Protzer,
Munich

14.45 Antiviral therapy in harder-to-treat HCV patients
H. Wedemeyer,
Hannover

15.10 Global hepatitis vaccination programs to prevent HCC
D. Shouval,
Jerusalem

15.35 A look into the future: Immune therapy of HCC
R. Thimme,
Freiburg

16.00 Coffee break with poster session
Thursday, January 19, 2017

Session II
NASH / NAFLD

Chair: E. Roeb, Giessen; C. Trautwein, Aachen

16.30 The role of the liver in the metabolic syndrome: A global challenge
P. Newsome, Birmingham

16.55 The role of microbiota in the gut-liver axis in NASH
M. Trauner, Vienna

17.20 Molecular pathogenesis of NASH
W.-K. Syn, Charleston

17.45 Emerging new pharmacotherapy for NAFLD and NASH
A.E. Canbay, Magdeburg

18.10 State-of-the-Art Lecture: Perspectives of gene therapy in liver diseases
N.P. Malek, Tübingen

18.35 Scientific discussion with snacks
Friday, January 20, 2017

Session III
Fibrosis / Cirrhosis / CCC
Chair: F. Lammert, Homburg; A.W. Lohse, Hamburg

8.00 Acute-on-chronic liver failure: A new entity  F. Tacke, Aachen
8.25 New treatment options for liver fibrosis: From bench to bedside  D. Schuppan, Mainz
8.50 Endoscopic imaging and intervention in hepatobiliary disorders  A. Dechêne, Essen
9.15 Pathogenesis and management of CCC in the future  G.J. Gores, Rochester

9.40 Coffee break with poster session

Session IV
Liver Transplantation
Chair: W.O. Bechstein, Frankfurt; C.P. Strassburg, Bonn

10.10 Acute liver failure: To transplant or not to transplant?  D. Samuel, Paris
10.35 Marginal organs in liver transplantation: How to improve?  A. Paul, Essen
11.00 Primary liver cancer: To resect or to transplant?  H. Lang, Mainz
11.25 Living donor liver transplantation in children and adults: Obstacles and visions for the future  S. Yilmaz, Malatya
11.50 Immunomodulation in the future management of transplantations  P.A. Knolle, Munich
12.15 Closing remarks  G. Gerken, Essen

12.30 Lunch with poster session

13.15 Opening of the Annual Meeting of the GASL  President, Prof. Dr. G. Gerken, Essen
Poster Session

Posters will be exhibited on January 19-20, 2017, at Universitätsklinikum Essen (Germany). The authors will be in attendance during coffee and lunch breaks on both days.

1. Risk factors and outcome of autoimmune hepatitis-induced acute liver failure
   O. Anastasiou, B. Dogan-Cavus, Ö. Küçükoğlu, D. Heider, L. Bechmann, H. Baba, G. Gerken, A. Canbay (Essen, Marburg, DE)

2. Clinical course and core variability in HBV-infected patients without detectable anti-HBc antibodies
   O. Anastasiou, M. Widera, J. Korth, G. Gerken, A. Canbay, J. Verheyen (Essen, DE)

3. Modulation of the unfolded protein response (UPR) in HBV mouse model by activation of transcription factor ATF6
   K.M. Baier, Y. Churin, F. Schneider, A. Köppel, D. Leder, A. Tschuschnier, M. Roderfeld, E. Roeb (Giessen, DE)

4. KITENIN expression is critical for progression of cholangiocarcinoma

5. Interfering with TGF-β2: The next approach of targeted CLD therapy?

6. Induction of epithelial-mesenchymal transition in hepatocellular carcinoma using 12-O-tetradecanoylphorbol-13-acetat for investigation of metastasis
   P. Dietrich, C. Hellerbrand, A. Bosserhoff (Erlangen, DE)

7. Increased histone deacetylase 7 (HDAC7) expression in hepatic fibrosis
   K. Freese, C. Hellerbrand (Erlangen, DE)

8. Outcome after liver resection for hepatocellular carcinoma
   A. Gerken, L. Gerken, S. Hetjens, F. Rückert (Mannheim, DE)

9. Analysis of the CMV-specific cellular immunity in kidney and liver transplant patients
10. The role of adiponectin signaling in hepatocyte-like cells derived from steatosis patients’ induced pluripotent stem cells (iPSCs)

11. Interleukin-13 depletion normalized the enterohepatic circulation of bile salts in Abcb4 knockout mice
   L. Hahn, Y. Churin, U. Drebber, D. Herebian, A. Tschuschner, D. Leder, E. Mayatepek, M. Roderfeld, E. Roeb (Giessen, Cologne, Düsseldorf, DE)

12. Recovery of CYP2E1 after intoxication is a detrimental factor for liver pathogenesis
   S. Hammad, A. Othman, J.G. Hengstler, S. Dooley (Qena, EG; Dortmund, Mannheim, DE)

13. ABCB5+ mesenchymal stem cells as a potential therapy in liver diseases

14. A cholesterol-containing modified western diet inducing steatohepatitis (NASH) with insulin resistance in wildtype B6 mice
   J. Henkel, D. Coleman, M. Kuna, K. Jöhrens, F. Gellert, I. Grüner, G. Püschel (Nuthetal, Berlin, DE)

15. Secondary sclerosing cholangitis – Characterization of a patient collective from the University Hospital Essen
   G. Kneiseler, A. Dechene, G. Gerken, A. Canbay (Essen, DE)

16. Expression of fibrogenic markers at time of transplantation correlates with recurrence of HCC in patients undergoing liver transplantation
   P. Kocabayoglu, K. Piras-Straub, S. Driftmann, G. Gerken, A. Paul, K. Herzer (Essen, DE)

17. The ABCB4 p.T175A allele might be associated with increased liver injury: Analysis of two independent cohorts of patients with chronic liver diseases and NAFLD

18. Iso-alpha acids protect from alcohol-induced liver injury
   A. Mahli, A. Koch, W.E. Thasler, C. Hellerbrand (Erlangen, Regensburg, Munich, DE)

19. Effects of radiation and/or tumor necrosis factor-alpha on cell damage in a healthy liver: A role for PECAM-1
   I.A. Malik, A.R. Asif, G. Ramadori, J. Wilting (Göttingen, DE)
20. Involvement of caveolin-1 in liver cancer metabolism  
Z.C. Nwosu, S. Dooley, C. Meyer (Mannheim, DE)

21. Both quality and quantity of the diet are important determinants in induction of obesity, fatty liver, and metabolic syndrome  
G. Ramadori, S.M. Alwahsh (Göttingen, DE)

22. Nucleic acid-based polymers that are effective against hepatitis B virus infection in patients do not harbor immune stimulatory properties in primary isolated blood or liver cells  
C.I. Real, M. Werner, G. Gerken, A. Paul, J.F. Schlaak, A. Vaillant, R. Broering (Essen, DE; Montreal, CA)

23. Transgene induced unfolded protein response (UPR) accelerated cholestatic liver damage and carcinogenesis in Abcb4/--mice  
M. Roderfeld, D. Zahner, H. Glimm, Y. Churin, D. Herebian, E. Mayatepek, E. Roeb (Giessen, Düsseldorf, DE)

24. Therapeutic vaccination of chronically HBV-infected patients with low-level of HBsAg using a third generation PreS/S vaccine (Sci-B-VacTM) result in seroconversion to anti-HBs  
H. Roggendorf, A. Krawczyk, D. Shouval, M. Roggendorf, G. Gerken (Munich, Essen, DE; Jerusalem, IL)

25. Epigenetic modification of HepG2 cells improves its role as an in vitro drug screening test system  

26. Iso-alpha-acids from hops inhibit proliferation and interleukin-8 expression of hepatocellular carcinoma cells  
T. Seitz, A. Koch, A. Mahli, C. Hellerbrand (Erlangen, DE)

27. Analysis of effects of ethanol on expression of factors promoting hepatic metastasis in hepatoma and melanoma cells  
J. Sommer, A. Bosserhoff, C. Hellerbrand (Erlangen, DE)

28. Generation of a 3D model to better mimic NAFLD in vitro  
L.-S. Spitzhorn, M.-A. Kawala, J. Adjaye (Düsseldorf, DE)

29. Inhibition of the epigenetic modifier, lysine demethylase LSD1, affects the myofibroblastic differentiation of hepatic stellate cells  
30. Targeting the TGF-β1 pathway for normalization of chronic liver disease
J. Werle, S. Hammad, G. Giannelli, S. Dooley (Heidelberg, Mannheim, DE; Qena, EG; Bari, IT)

31. HCV therapy reduced not only the liver-related but the overall mortality too – Results in the Leipzig anti-D cohort after 38 years
M. Wiese (Leipzig, DE)

32. Different mechanisms control the loading of miR-198 into exosomes
X. Yu, H. Eischeid, P. Dalvi, R. Büttner, M. Odenthal (Cologne, DE)

33. An unusual case of acute-on-chronic liver failure
C. Zöllner, M. Schulz, K. Plehm, E. Schott (Berlin, DE)
List of Speakers, Moderators and Scientific Organizers

Prof. Dr. Wolf O. Bechstein
Allgemein- und Gefäßchirurgie
Klinikum der Johann Wolfgang
Goethe-Universität Frankfurt
Theodor-Stern-Kai 7
60596 Frankfurt
Germany
wolf.bechstein@kgu.de

Prof. Dr. Christian Bréchot
Institut Pasteur
25-28, rue du Docteur-Roux
75724 Paris Cedex 15
France
christian.brechot@pasteur.fr

Prof. Dr. Jan Buer
Medizinische Mikrobiologie
Universitätsklinikum Essen
Hufelandstr. 55
45147 Essen
Germany
jan.buer@uk-essen.de

Prof. Dr. Ali E. Canbay
Gastroenterologie/Hepatologie
Universitätsklinikum Otto-von-
Guericke-Universität
Leipziger Str. 44
39120 Magdeburg
Germany
alieker.canbay@uk-essen.de

PD Dr. Alexander Dechêne
Gastroenterologie/Hepatologie
Universitätsklinikum Essen
Hufelandstr. 55
45147 Essen
Germany
alexander.dechene@uk-essen.de

Prof. Dr. Ulf Dittmer
Institut für Virologie
Universitätsklinikum Essen
Hufelandstr. 55
45122 Essen
Germany
ulf.dittmer@uni-due.de

Prof. Dr. Guido Gerken
Gastroenterologie/Hepatologie
Universitätsklinikum Essen
Hufelandstr. 55
45147 Essen
Germany
guido.gerken@uk-essen.de

Gregory J. Gores, M.D.
Professor of Medicine
Division of Gastroenterology
& Hepatology
Mayo Clinic
200 First Street SW
Rochester, MN 55905
USA
gores.gregory@mayo.edu

Prof. Dr. Percy A. Knolle
Molekulare Immunologie
Klinikum rechts der Isar
der Technischen Universität
Ismaningerstr. 22
81675 München
Germany
percy.knolle@tum.de

Prof. Dr. Frank Lammert
Klinik für Innere Medizin II
Universitätsklinikum des Saarlandes
Kirberger Str. 100
66424 Homburg
Germany
frank.lammert@uks.eu

Prof. Dr. Hauke Lang
Allgemein-, Viszeral-
und Transplantationschirurgie
Universitätsmedizin Mainz
Langenbeckstr. 1
55131 Mainz
Germany
hauke.lang@unimedizin-mainz.de
Prof. Dr. Ansgar W. Lohse
I. Medizinische Klinik
Universitätsklinikum
Hamburg-Eppendorf
Martinistr. 52
20246 Hamburg
Germany
alohse@uke.de

Barbara Rehermann, M.D.
Chief, Immunology Section, Liver Diseases Branch, NIDDK, National Institutes of Health NIDDK
Bldg. 10, Room 9B-16
10 Center Drive
Bethesda, MD 20892-0705
USA
rehermann@nih.gov

Prof. Dr. Nisar P. Malek
Innere Medizin I
Universitätsklinikum Tübingen
Otfried-Müller-Straße 10
72076 Tübingen
Germany
nisar.malek@med.uni-tuebingen.de

Prof. Dr. Elke Roeb
Justus-Liebig-University Giessen
University Hospital UKGM
Klinikstrasse 33
35392 Giessen
Germany
elke.roeb@innere.med.uni-giessen.de

Prof. Dr. Michael P. Manns
Klinik für Gastroenterologie, Hepatologie und Endokrinologie
Medizinische Hochschule Hannover
Carl-Neuberg-Str. 1
30625 Hannover
Germany
manns.michael@mh-hannover.de

Prof. Dr. Didier Samuel
Centre Hépato-Biliaire
Hôpital Paul Brousse
12-14 av. Paul Vaillant Couturier
94800 Villejuif
France
didier.samuel@pbr.aphp.fr

Prof. Dr. Dr. Detlef Schuppan
Translationale Immunologie
Universitätsmedizin Mainz
Langenbeckstr. 1
55131 Mainz
Germany
detlef.schuppan@unimedizin-mainz.de

Prof. Dr. Daniel Shouval
Department of Medicine, Liver Unit
Hadassah University Hospital
Ein Kerem Medical Center
P. O. Box 12000
91120 Jerusalem
Israel
shouval@cc.huji.ac.il

Prof. Dr. Andreas Paul
Allgemein-/Transplant.-Chirurgie
Universitätsklinikum Essen
Hufelandstr. 55
45147 Essen
Germany
andreas.paul@uk-essen.de

Prof. Dr. Christian P. Strassburg
Medizinische Klinik I
Universitätsklinikum Bonn
Sigmund-Freud-Str. 25
53127 Bonn
Germany
christian.strassburg@ukb.uni-bonn.de

Prof. Dr. Ulrike Protzer
Virologie
Technische Universität München
Trogerstr. 30
81675 München
Germany
protzer@tum.de

Dr. Philip Newsome
Professor of Experimental Hepatology
Center for Liver Research
University of Birmingham
5th Floor
Birmingham B15 2TT
Great Britain
p.n.newsome@bham.ac.uk
Wing-Kin Syn, M.D.
Associate Professor of Medicine
Division of Gastroenterology and Hepatology
Medical University of South Carolina
Strom Thurmond Building
114 Doughty Street
Charleston, SC 29425
USA
synw@musc.edu

Prof. Dr. Frank Tacke
Medizinische Klinik III
Universitätsklinikum Aachen
Pauwelsstr. 30
52074 Aachen
Germany
ftacke@ukaachen.de

Prof. Dr. Robert Thimme
Innere Medizin II
Universitätsklinikum Freiburg
Hugstetter Str. 55
79106 Freiburg
Germany
robert.thimme@uniklinik-freiburg.de

Prof. Dr. Michael Trauner
Klinische Abteilung für
Gastroenterologie & Hepatologie
Medizinische Universität Wien
Währinger Gürtel 18-20
1090 Vienna
Austria
michael.trauner@meduniwien.ac.at

Prof. Dr. Christian Trautwein
Medizinische Klinik III
Universitätsklinikum Aachen
Pauwelsstr. 30
52074 Aachen
Germany
ctrautwein@ukaachen.de

Prof. Dr. Heiner Wedemeyer
Klinik für Gastroenterologie,
Hepatologie und Endokrinologie
Medizinische Hochschule Hannover
Carl-Neuberg-Str. 1
30625 Hannover
Germany
wedemeyer.heiner@mh-hannover.de

Prof. Dr. Sezai Yilmaz
Liver Transplantation Institute
Turgut Ozal Medical Center
Inonu University
44315 Malatya
Turkey
sezai.yilmaz@inonu.edu.tr
**General Information**

During the Workshop in Essen

**Congress Office Telephone:** +49 (0)175/7795327

**Opening Hours:**
Thursday, January 19, 2017 10.00 – 18.30 h
Friday, January 20, 2017 7.00 – 12.30 h

Universitätsklinikum Essen
Audimax
Hufelandstraße 55
45147 Essen
Germany

**Admission to Scientific Events**

For admission to scientific events your name badge should be clearly visible.

**Directions to Congress Venue**

**From Düsseldorf International Airport**
You can take the regional train S1 or RE1 to Essen main train station and continue with U17 (direction: Margarethenhöhe) to the congress venue Universitätsklinikum Essen. Please get off at stop “Holsterhauser Platz”.

**From Essen main train station**
You can take subway U17 (direction: Margarethenhöhe) to the congress venue Universitätsklinikum Essen. Please get off at stop “Holsterhauser Platz”.

**Tram No. 101/106** as well as **Bus No. 160/161** stop at the main entrance of the Universitätsklinikum Essen.

**Parking**

Fee required 24 hours parking garages at the main driveway Hufelandstraße as well as at Virchowstraße.

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The 33th Annual Meeting of the German Association for the Study of the Liver will take place immediately following the Workshop (January 20 and 21, 2017).
Workshop

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Universitätsklinikum Essen
Essen, Germany

Organized by:
FALK FOUNDATION e.V.
Leinenweberstr. 5
79108 Freiburg
Germany

Congress Department
Telephone: +49 (0) 761/15 14-125
Telefax: +49 (0) 761/15 14-359
E-Mail: symposia@falk-foundation-symposia.org
www.falk-foundation-symposia.org

Program