PROGRAM
1st Essen Hepatitis E Symposium
February 14 - 16, 2019
Essen, Germany
1st Essen Hepatitis E Symposium

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1st Essen Hepatitis E Symposium
14 - 16 February 2019

Organizing Committee
Prof. Heiner Wedemeyer
Dr. Rakesh Aggarwal
Dr. Sally Baylis
Dr. Harry R. Dalton
Prof. Jacques Izopet
Prof. Nassim Kamar
Prof. Vincent Mallet
Prof. Darius Moradpour
Prof. Francesco Negro
PD Dr. Sven Pischke
Prof. Eike Steinmann

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Cornwall / UK
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Toulouse / France
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Lausanne / Switzerland
Geneva / Switzerland
Hamburg / Germany
Hannover / Germany

Scientific Secretary
Dirk Westhölter
Dept. of Gastroenterology and Hepatology
Essen University Hospital

Conference Office
Katharina Menke
Dept. of Gastroenterology and Hepatology
Essen University Hospital

Dear colleagues and friends!

Hepatitis E virus infection is the most common cause of acute viral hepatitis in Europe. The number of diagnosed cases increased dramatically in many countries during recent years but we are only in the beginning to understand the true importance of this infectious disease. Over the last years it became evident that HEV infection may take chronic courses in immunocompromised individuals, that a variety of extrahepatic manifestations are possibly caused by HEV, that antiviral therapy with ribavirin is effective in many but not all patients with persistent infection, that pigs are an important animal reservoir even though a variety of other animals may become infected with HEV, and that the virus can be transmitted by blood products- which has been underestimated in many countries. In addition, there is emerging data in basic virology and immunology leading to a better understanding of the pathophysiology of HEV-induced hepatitis.

Considering this growing interest in hepatitis E, we feel that is timely to discuss and exchange the emerging data both in clinical as well as in basic science. We therefore invite you to participate in the international Essen Hepatitis E Symposium. The symposium will take on the campus of Essen University Hospital in the heart of the Rhine-Ruhr area, the largest metropolitan region in Germany with over 10 million inhabitants. Essen has been the European Capital of Culture in 2010 and the European Green Capital in 2017.

On behalf of the International Organizing Committee, I invite you to join us in Essen in February 2019!

Heiner Wedemeyer
Venue

Universitätsklinikum Essen
Deichmann Auditorium
Building: Lehr- und Lernzentrum (Teaching & Learning Centre)
Virchowstraße 163a • 45147 Essen

Arriving by public transport

From Central Station, take the U7 towards Margarethenhöhe to the University Hospital. Get off at the „Holsterhauser Platz“ stop.

Tram line 101/106 and Bus lines 160 and 161 stop at the main entrance of the University Hospital of Essen.

There is a taxi rank beside the main entrance on Hufelandstraße.

Transportation from Düsseldorf International Airport: Take a taxi or a train (S1, RE1, RE6, RE11) to Essen Hauptbahnhof (Essen Central Station) and continue on either U7 to Holsterhauser Platz station or Tram line 106 to „Klinikum“.

Arriving by car

Essen University Hospital is located about 1.3 miles southwest of the central station in the Holsterhausen district. Inside the city, signs will guide you to the hospital (Universitätsklinikum). Coming from out of town, you will reach the hospital via the following highways:

Exit Essen/Glablbeck
Heading toward Essen, turn right onto B 224. Follow the Universitätsklinikum signs from the intersection of Gladbecker Straße and Grillostraße.

Highway Intersection Essen-Nord
Turn onto B 224, Gladbecker Straße, heading toward Essen. Follow the signs from the intersection of Gladbecker Straße and Grillostraße.

Exit Essen-Holsterhausen/-Altendorf
If you are arriving from Dortmund, turn left. If you are coming from Duisburg, turn right. Follow the Universitätsklinikum signs when leaving the exit ramp.

Exit Essen-Rüttenscheid
Follow the Universitätsklinikum signs when leaving the exit ramp.

Parking
Parking decks are located near the main entrance on Hufelandstraße and Virchowstraße. Parking fees apply. Gates are open around the clock.
## General Information

### Start of Meeting
Thursday, 14th February 2019 4:30 p.m.
Registration opens after 3:00 p.m.

### End of Meeting
Saturday, 16th February 2019 2:00 p.m.

### Registration
Registration Forms can be downloaded at www.uk-essen.de/gastroenterologie

### Registration Fees
- Regular Fee: 250 €
- Students: Free (please bring your student ID card)

### CME Credits
Application for CME credits submitted.
An Attendance chart is located at the registration desk.

## Program

### Thursday, 14 February 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:30 p.m.</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 5:00 p.m. | Welcome and opening  
J. Buer, Essen                                                     |
| 5:15 p.m. | Hepatitis Research in Essen and Germany  
H. Wedemeyer, Essen                                              |

**Session 1: HEV History & Epidemiology**

**Chair: D. Moradpour, Lausanne**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 6:00 p.m. | Hepatitis E: The European Story  
H. Dalton, Truro                  |
### Session 2: HEV Virology + Immunology I
**Chair: J. Izopet, Toulouse / S. C. Kenney, Virginia**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30 a.m.</td>
<td>HEV Virology: Basics and recent insights</td>
<td>J. Gouttenoire, Lausanne</td>
</tr>
<tr>
<td>9.00 a.m.</td>
<td>Development of a reverse genetics and replicon system for hepatitis E virus</td>
<td>F. Cierniak, Insel Riems</td>
</tr>
<tr>
<td>9.15 a.m.</td>
<td>Vectorial Release of Hepatitis E Virus from Polarized Human Hepatocytes</td>
<td>S. Chapuy-Regaud, Toulouse</td>
</tr>
<tr>
<td>9.30 a.m.</td>
<td>Recombinant Hepatitis E Viruses Harboring Tags in the ORF1 Protein Allow Visualization of the Viral Replicase</td>
<td>D. Szkolnicka, Lausanne</td>
</tr>
<tr>
<td>9.45 a.m.</td>
<td>Robust hepatitis E virus infection in tissue culture by a replication enhancing mutation</td>
<td>D. Todt, Bochum</td>
</tr>
</tbody>
</table>

**10.00 a.m. Coffee Break**

### Session 3: HEV Virology + Immunology II
**Chair: Q. Pan, Rotterdam / J. Gouttenoire, Lausanne**

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30 a.m.</td>
<td>Innate Immunology in HEV infection</td>
<td>V.L. Dao Thi, Heidelberg</td>
</tr>
<tr>
<td>11.00 a.m.</td>
<td>HEV-specific adaptive Immunity</td>
<td>E. Barnes, Oxford</td>
</tr>
<tr>
<td>11.30 a.m.</td>
<td>MDA5 inhibits hepatitis E virus replication through induction of interferon-like response partially via the JAK-STAT cascade</td>
<td>Y. Li, Rotterdam</td>
</tr>
<tr>
<td>11.45 a.m.</td>
<td>Hepatitis E Virus adapts to cell culture, but shows less mutagenesis in immune compromised hosts</td>
<td>G. Sari, Rotterdam</td>
</tr>
<tr>
<td>12.00 p.m.</td>
<td>Use of the cell culture-adapted HEV genotype 3c strain 47829c for studying virus replication cycle, inactivation, neutralization and antiviral drug activity</td>
<td>J. Scholz, Berlin</td>
</tr>
</tbody>
</table>

**12.15 p.m. Lunch Break**

### Session 4: HEV Epidemiology & Natural History
**Chair: H. Dalton, Truro / H. Wedemeyer, Essen**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 p.m.</td>
<td>Natural History of HE</td>
<td>R. Aggarwal, Lucknow</td>
</tr>
<tr>
<td>2.30 p.m.</td>
<td>Extrahepatic Manifestations</td>
<td>A. van der Eijk, Rotterdam</td>
</tr>
<tr>
<td>3.00 p.m.</td>
<td>Quasienveloped virus and capsid protein in the urine and blood of hepatitis E virus genotype 3-infected immunocompromised patients</td>
<td>O. Marion, Toulouse</td>
</tr>
<tr>
<td>3.15 p.m.</td>
<td>Hepatitis E Outbreak, Nigeria, 2017</td>
<td>B. Wang, Berlin</td>
</tr>
</tbody>
</table>

**3.30 p.m. Coffee Break**

### Session 5: HEV in Animals & Food Safety
**Chair: T. Vanwolleghem, Rotterdam / M.H. Groschup, Greifswald**

<table>
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<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>4.00 p.m.</td>
<td>Animal Models</td>
<td>P. Meuleman, Ghent</td>
</tr>
<tr>
<td>4.30 p.m.</td>
<td>HEV and Food Safety</td>
<td>R. Johne, Berlin</td>
</tr>
<tr>
<td>5.00 p.m.</td>
<td>Effect of genotype 1 hepatitis E virus (HEV) ORF4 protein on genotype 3 HEV replication in vitro; steps towards a swine model for HEV pregnancy mortality</td>
<td>K. Yadav, Wooster</td>
</tr>
<tr>
<td>5.15 p.m.</td>
<td>Switzerland – An island regarding the genetic diversity of the Hepatitis E virus?</td>
<td>I. Specker, Zurich</td>
</tr>
</tbody>
</table>

**5.30 p.m. Wine & Cheese**

### POSTER SESSIONS during Lunch Break

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEV Virology</td>
<td>E. Steinmann, Bochum</td>
</tr>
<tr>
<td>HEV Immunology</td>
<td>A. Kraft, Hannover</td>
</tr>
<tr>
<td>HEV in animals / Food Safety</td>
<td>T. Bock, Berlin</td>
</tr>
</tbody>
</table>

### POSTER SESSIONS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEV Natural History / Extrahepatic Manifestations / Epidemiology</td>
<td>M. Faber, Berlin</td>
</tr>
<tr>
<td>Blood Product Safety</td>
<td>T. Horvatits, Hamburg</td>
</tr>
<tr>
<td>Antiviral Therapy / Vaccine Development</td>
<td>P. Behrendt, Hannover</td>
</tr>
</tbody>
</table>
# Session 6: Prevention of HEV Infection & Blood Product Safety

**Chair:** H.L. Zaaijer, Amsterdam / S. Pischke, Hamburg

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 a.m.</td>
<td>Transfusion and Hepatitis E</td>
<td>V. Mallet, Paris</td>
</tr>
<tr>
<td>9.30 a.m.</td>
<td>Hepatitis E and allogeneic haematopoietic stem cell transplantation: a French nationwide SFGM-TC retrospective study</td>
<td>A. Xhaard, Paris</td>
</tr>
<tr>
<td>9.45 a.m.</td>
<td>The yield of HEV donor screening in the Netherlands</td>
<td>H. L. Zaaijer, Amsterdam</td>
</tr>
<tr>
<td>10.00 a.m.</td>
<td>Hepatitis E Virus Prevalence In Flemish Blood Donors</td>
<td>A.-S. Vercouter, Ghent</td>
</tr>
<tr>
<td>10.15 a.m.</td>
<td>High resistance of Hepatitis E virus against commercial hand-disinfections</td>
<td>P. Behrendt, Hannover</td>
</tr>
</tbody>
</table>

**10.30 a.m. Coffee Break**

# Session 7: Antiviral Therapy & Outlook

**Chair:** M. Cornberg, Hannover / H. Wedemeyer, Essen

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00 a.m.</td>
<td>Antiviral Therapy</td>
<td>N. Kamar, Toulouse</td>
</tr>
<tr>
<td>11.30 a.m.</td>
<td>Defining Hepatitis E virus specific CD8+ T Cell Repertoires for Therapeutic Regeneration of T Cells against Chronic Hepatitis E</td>
<td>C. F. Soon, Hannover</td>
</tr>
<tr>
<td>11.45 a.m.</td>
<td>Towards a novel RNAi and AAV vector-based gene therapy against Hepatitis E virus</td>
<td>C. Zhang, Heidelberg</td>
</tr>
<tr>
<td>12.00 p.m.</td>
<td>Struggling with chronic hepatitis E: failing courses of ribavirin, sofosbuvir, ivig, and pegylated interferon in a hematological patient</td>
<td>H. L. Zaaijer, Amsterdam</td>
</tr>
<tr>
<td>12.15 p.m.</td>
<td>Zinc in addition to ribavirin represents a possible treatment option in chronically HEV genotype 3 ribavirin monotherapy non-responders</td>
<td>T. Horvatits, Hamburg</td>
</tr>
<tr>
<td>12.30 p.m.</td>
<td>Repurposing of the antihistamine drug depertrope for treating hepatitis E virus infection</td>
<td>C. Qu, Rotterdam</td>
</tr>
<tr>
<td>12.30 p.m.</td>
<td>Panel Discussion: Unmet needs in HEV research</td>
<td>H. Wedmeyer, Essen</td>
</tr>
<tr>
<td>1.00 p.m.</td>
<td>Closing remarks</td>
<td>H. Wedemeyer, Essen</td>
</tr>
</tbody>
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**Saturday, 16 February 2019**

**Sponsors**

Thank you to our Sponsors for their valued support!

- **Gilead** - 500 €
- **Hepa Wash** - 250 €
- **Mikrogen Diagnostik** - 250 €
- **Norgine** - 1.000 €
- **Roche** - 750 €
Invited Speakers

Rakesh Aggarwal
Dept. of Gastroenterology
Sanjay Gandhi Postgraduate Institute of Medical Sciences
Lucknow / India

Eleanor Barnes
Nuffield Department of Medicine
Oxford University
Oxford / UK

Claus-Thomas Bock
Dept. of Infectious Diseases
Robert Koch-Institut
Berlin / Germany

Patrick Behrendt
Klinik für Gastroenterologie,
Hepatologie und Endokrinologie
Medizinische Hochschule Hannover
Hannover / Germany

Markus Cornberg
Klinik für Gastroenterologie,
Hepatologie und Endokrinologie
Medizinische Hochschule Hannover
Hannover / Germany

Harry R. Dalton
Royal Cornwall Hospital Trust
University of Exeter
Cornwall / UK

Viet Loan Dao Thi
Abteilung für Virologie
Universitätsklinikum Heidelberg
Heidelberg / Germany

Mirko Faber
Dept. of Infectious Diseases
Robert Koch-Institut
Berlin / Germany

Jérôme Gouttenoire
Service de Gastro-Entérologie
et d’Hépatologie
CHUV
Lausanne / Switzerland

Thomas Horvatits
Klinik für Intensivmedizin
Universitätsklinikum Hamburg-Eppendorf
Hamburg / Germany

Jacques Izopet
Département de Virologie
Institut Fédératif de Biologie (IFB)
Toulouse / France

Reimar John
Bundesinstitut für Risikobewertung
NRL für die Überwachung von Viren
und Bakterien in zweischaligen
Weichtieren
Berlin / Germany

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VA-MD College of Veterinary Medicine
Blacksburg
Virginia / USA

Mirko Faber
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Robert Koch-Institut
Berlin / Germany

Jérôme Gouttenoire
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et d’Hépatologie
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und Bakterien in zweischaligen
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Blacksburg
Virginia / USA

Nassim Kamar
Département de Néphrologie et
Transplantation d’Organes
Université Toulouse III - Paul Sabatier
Toulouse / France

Anke Kraft
Klinik für Gastroenterologie,
Hepatologie und Endokrinologie
Medizinische Hochschule Hannover
Hannover / Germany

Vincent Mallet
Service d’Hépatologie
Médicale et d’Addictologie
Hôpital Cochin
Paris / France

Philip Meuleman
Dept. of Clinical Chemistry,
Microbiology and Immunology
Universiteit Gent
Ghent / Belgium

Darius Moradpour
Service de Gastro-Entérologie
et d’Hépatologie
CHUV
Lausanne / Switzerland

Qiwei Pan
Laboratory of Gastroenterology and Hepatology
Erasmus University Medical Center
Rotterdam / The Netherlands

Sven Pischke
I. Medizinische Klinik u. Poliklinik
Universitätsklinikum Hamburg-Eppendorf
Hamburg / Germany

Eike Steinmann
Experimentelle Virologie
Zentrum für Experimentelle und Klinische Infektionsforschung
Hannover / Germany

Annemiek van der Eijk
Dept. of Gastroenterology and Hepatology
Erasmus University Medical Center
Rotterdam / The Netherlands

Thomas Vanwolleghem
Dept. of Gastroenterology and Hepatology
Erasmus University Medical Center
Rotterdam / The Netherlands

H.L. Zaaijer
Academic Medical Center (AMC)
Dept. of Medical Microbiology (CINIMA)
Amsterdam / The Netherlands