



# The International Society for Hepatic Sinusoidal Research

Welcomes you to  
**ISCHS 2017**

19<sup>th</sup> International Symposium on Cells of the Hepatic Sinusoid  
40<sup>th</sup> Anniversary of the First International Kupffer Cell Symposium

**June 14<sup>th</sup> ~ June 17<sup>th</sup> 2017**

Aula Maxima  
National University of Ireland, Galway

[www.ischs2017.ie](http://www.ischs2017.ie)

## Acknowledgements

We would like to thank



# Lonza

for their support of the 19th International Symposium on Cells of the Hepatic Sinusoid (ISCHS2017)

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# Welcome

**19th International Symposium on Cells of the Hepatic Sinusoid, Galway, Ireland  
14th-17th June, 2017, Aula Maxima, National University of Ireland, Galway,  
Ireland**



Céad Míle Fáilte go ISCHS 2017!

Dear all,

It gives me great please to welcome you to the 19th International Symposium on Cells of the Hepatic Sinusoid! The conference will be held in the National University of Ireland Galway, Aula Maxima, one of the University's most historic buildings (it was built in 1845)! The Aula Maxima is located in the Quadrangle on the University Campus.

As with previous symposia, the main aim of the 19th ISCHS Symposium is to provide a forum for basic scientists and clinical researchers to meet and discuss recent developments in research on the biology of the cells of the hepatic sinusoid in health and disease. A second and equally important aim is to provide of forum for young investigators to present their work in a friendly and supportive environment. I am happy to announce that we have approximately 100 delegates at ISCHS2017 from around the world, including, the USA, Japan, Australia, New Zealand, Malaysia and also from several countries in Europe.

I am sure you will agree that the local organising committee has put together a great scientific programme! We have 9 invited speakers and a total of 9 scientific sessions spread over 3 days, so you are going to be busy! In addition, I hope that our one poster session, on Friday lunch time, will be one of the highlights of the conference.

We have also organised a social programme for you, including a free barbecue and music in the College bar on Wednesday evening, the conference dinner with Irish music & dance on Thursday, and an excursion on Friday afternoon! Galway is an old city with a long history, so be sure to visit the Spanish Arch on the River Corrib – and if you like the pub & traditional music scene, then Galway has much to offer!

Céad Míle Fáilte!

*Tony Wheatley*

Antony Wheatley, PhD

*President of the International Society for Hepatic Sinusoidal Research*

## Local Organising Committee

Jordi Gracia-Sancho  
IDIBAPS, Barcelona, Spain / Inselspital, Bern, Switzerland.

Patricia Lalor  
Birmingham, UK

Beth Mallard  
Galway, Ireland

Marlini Muhamad  
Galway, Ireland/Kuala Lumpur, Malaysia

Aiden McCormick  
Dublin, Ireland

Robert McCuskey  
Tuscon, USA

Krista Rombouts  
London, UK

Antony Wheatley  
Galway, Ireland

# GALWAY CITY MAP



University of Galway  
Hospital Campus

TO CLIFDEN

NUI Galway  
O'Connell's

Corrib Village

Westwood Hotel

Galileo Abbey Hotel

TO CASTLEBAR

Malodon Hotel

TO TUAM

TO DUBLIN  
OR LIMERICK

G Hotel

Radisson SFS  
Hotel

Hotel Meyrick

Harbour Hotel

House  
Hotel

Jury's  
Inn

William Street West

Ardlamhan  
Hotel

Galway Bay Hotel  
Salphin Hotel

TO SALTSHILL  
& SPIDDA

map © design resources

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## General Information

### Registration Desk

The registration desk is located on the 1st Floor of the Aula Maxima, Quadrangle.

Wednesday, June 14<sup>th</sup> 16.00 – 17.50

Thursday, June 15<sup>th</sup> 08.00 – 16.00

Friday, June 16<sup>th</sup> 08.00 – 14.30

Saturday, June 17<sup>th</sup> 08.30 – 12.00

### Conference Venue – Aula Maxima, The Quadrangle

The conference sessions will take place on Ground Floor of the Aula Maxima, The Quadrangle.

The registration desk and posters will be located on the 1st Floor of the Aula Maxima. Tea/coffee breaks and lunch will be served on the 1st Floor of the Aula Maxima.

### Wifi Access

The following is wifi codes for access for all delegates (NUIGWIFI).

Please note this logs out when inactive.

User ID: 9876001T

Password: Htpbs4729

### Parking on Campus

Please note there are restrictions on parking on the campus from Monday to Friday. There are no restrictions at the weekends. All illegally parked vehicles, will be clamped. There is a pay and display car park located at the Aula Maxima, The Quadrangle, as well as at the Cathedral, approximately a 5 minute walk from the Aula Maxima. There are also a limited number of pay and display parking areas on the main campus (blue lined spaces). Payment is required if you park in blue lined spaces.

### Mobile Phones

Delegates are requested to switch off their mobile phones in all meeting rooms during sessions.



## Wednesday 14<sup>th</sup> June: Welcome Reception - Sult, College Bar, NUI Galway

After the opening lecture, please join us for a welcome reception in the College Bar (D on Campus map). This is an opportunity to meet colleagues and fellow delegates in an informal setting. Delegates will enjoy a delicious BBQ and be entertained by the best of traditional Irish music.

## Thursday 15<sup>th</sup> June: Conference Dinner – Irish Entertainment – Hotel Meyrick, 19.30

Enjoy a contemporary Irish show featuring an electrifying mix of music, song and dance led by Carmel Dempsey a well know musician and singer from Galway. A talented fiddle player, Brenda Curtin, accompanies Carmel. Brenda was one of the soloists from Michael Flatley's world renowned Lord of the Dance show. After dinner a troupe of Irish Dancers will captivate the audience performing the very best of Irish dancing. Delegates are encouraged to participate in the dancing and will be taught some steps by our talented dancers.

Cost: €75 per ticket. Please book your ticket at the registration desk.

## Friday 16<sup>th</sup> June: Scenic Cruise of Lough Corrib Ireland's 2<sup>nd</sup> largest lake

We will start from the Aula Maxima at 14.30 and walk to Woodquay, where we will board the Corrib Princess for an exclusive guided cruise of the River Corrib and Lough Corrib on board. Lough Corrib is the second largest fresh water lake in Ireland and there is an abundance of wildlife including birds, hawks, otters, mink, stoat, and much more to see. This cruise takes passengers along the majestic River Corrib and onto the lake providing visitors with unsurpassed views of the historic monuments and natural amenities that make this the most spectacular waterway in Ireland. We will also enjoy an Irish Coffee making demonstration on board. We will return to Woodquay at 17.00.





## USEFUL INFORMATION

### Telephone Information

The local area code for Galway is 091. Omit this prefix if you are dialling from a fixed landline within the area.

If you are dialling an Irish number from your mobile (cell phone), you need to firstly dial the international code for Ireland (00353), followed by the local area code (omit 0) and then the number.

### Taxi Services

Galway Taxis Tel: (091) 561111    Big O Taxis Tel: (091) 585858

### Tourist Information Board, Galway

Fáilte Ireland West, Áras Fáilte, Forster Street, Galway. Tel: (091) 537700  
info@irelandwest.ie    www.discoverireland.ie

### Public Transport

National Bus Service operated by Bus Eireann  
www.buseireann.ie

Galway Bus Station Tel: (091) 562000

National Train Service operated by Irish Rail  
www.irishrail.ie

Galway Train Station Tel: (091) 537582

Private Bus Service from Dublin Airport to Galway  
www.GoBus.ie    www.CityLink.ie

### Police

In Ireland, the police force is called the Garda Síochána. Garda Síochána, Mill Street, Galway. Tel: (091) 538000



## **Banks & Foreign Exchange**

The nearest banks to the conference venue are:

Bank of Ireland, University Branch, Distillery Road, Galway. This is located at the end of the Concourse in the Arts Science Building.

Allied Irish Bank, University Branch, Newcastle Road.

Normal opening times: Monday to Friday 10.00 - 16.00. Closed at weekends.

There are ATM cash dispensers located outside each of these branches.

## **Medical Emergencies / Doctors**

University College Hospital Galway. Tel: (091) 544544

## **General Practitioners**

Newcastle Medical Centre Tel: (091) 524085

Regional Medical Centre Tel: (091) 520340

Claddagh Medical Centre Tel: (091) 582321

Westdoc Galway (out of hours service) Tel: 1850 365000

## **Pharmacy**

The nearest Pharmacy (500m) to the conference venue is:

University Pharmacy, Junction of University Road/Newcastle Road

Tel: (091) 520115

There is also a pharmacy in the Hardiman Building (Library) on campus

Tel: (091) 495044

There are also a number of pharmacies located along the main street of the pedestrianised city centre (Shop St).

## INVITED SPEAKERS

**Prof. Fergus Shanahan**  
Alimentary Pharmabiotic Centre,  
University College Cork.



Fergus Shanahan is Professor and Chairman of the Department of Medicine and Director of the Alimentary

Pharmabiotic Centre at University College Cork (UCC), National University of Ireland. He attended medical school at University College Dublin (UCD), and after internship and residency in internal medicine at the Mater Hospital, Dublin, he completed fellowships in clinical immunology at McMaster University, Canada, and in gastroenterology at University of California, Los Angeles (UCLA), after which he rose to the rank of Associate Professor at UCLA before returning to Ireland in 1993.

**Title of presentation: Translating microbiome science.**

**Prof. Eddie Wisse**  
University of Maastricht.



Eddie Wisse was born in The Hague, The Netherlands and studied biology at Leiden University. In 1963 he joined

the Laboratory for Electron Microscopy (Medical School) where he started the study of sinusoidal cells. Endothelial fenestrae, the distinction between endothelial and Kupffer cells and the new pit cells were the result of applying

perfusion fixation to rat liver. After his PhD he became full professor at the Laboratory for Cell Biology and Histology at the University of Brussels (VUB), Belgium. The team published over 25 papers on sinusoidal cells in Hepatology and more in other journals. He organized three Kupffer Cell Symposia and produced 10 Proceedings (4,900 pages). After retirement he works at Maastricht University, Nanoscopy Division. The present focus is on the ultrastructure of sinusoidal cells in NASH and fibrosis in needle and wedge biopsies of intact human liver, fixed by new methods preserving the sinusoids and their cells.

**Title of presentation: Cells of the hepatic sinusoid - then and now : Forty years since the 1st Kupffer International Cell Symposium**

**Prof. Eiji Hara**  
The Cancer Institute, Japanese  
Foundation for Cancer Research.



Eiji Hara obtained his PhD at the Tokyo University of Science in 1993 and moved to the Lawrence Berkeley

Laboratory, University of California (Berkeley, USA) as a Postdoctoral Fellow to work with Dr. Judith Campisi on cellular senescence. In 1995, he joined the Imperial Cancer Research Fund Laboratories (London, UK) as a Postdoctoral Fellow to work with Dr. Gordon Peters on cell cycle control, and then became a Group Leader at the Cancer Research UK-Manchester Institute (formerly called: Paterson Institute for Cancer Research)

(Manchester, UK) in 1998.

In 2003, he returned to Japan as a Professor at the University of Tokushima (Tokushima, Japan) and moved to the Japanese Foundation for Cancer Research (Tokyo, Japan) as a Division Chief in 2008. In 2015, he moved to Osaka University (Osaka, Japan) as a Professor.

**Title of presentation: The roles and mechanisms of SASP in senescent hepatic stellate cells.**

### Prof. Laurie D. DeLeve

Keck Medicine of USC, Division of Gastrointestinal and Liver Diseases.



Prof. Laurie DeLeve calls herself an LSEC (liver sinusoidal endothelial cell) biologist. She received her MD from Erasmus

University of Rotterdam in The Netherlands and her PhD from the University of Toronto in Ontario, Canada. Prof. DeLeve then completed her internal medicine residency at the University of Michigan in Ann Arbor and her gastroenterology fellowship at the University of California, Los Angeles (UCLA). She has been on the faculty at the University of Southern California since 1990 and is currently Professor of Medicine and Senior Associate Chair for Scientific Affairs. Her laboratory has demonstrated the role of LSEC injury in models of drug induced liver injury, discovered intrahepatic and bone marrow sinusoidal endothelial cell progenitor cells ("sprocs"), uncovered that bone marrow sprocs are the major source of LSEC repair after LSEC injury, described the signaling that recruits bone marrow sprocs to the liver, showed that recruitment of bone

marrow sprocs is essential for normal liver regeneration, and elucidated the role of LSECs in hepatic fibrosis. Prof. DeLeve has served on and chaired many AASLD committees and groups and will serve as Associate Editor on the incoming editorial board for Hepatology. She is proud to be a member of the ISHSR, the only society devoted to studying cells of the hepatic sinusoid.

**Title of presentation: The liver sinusoidal endothelial cells - the scrappy underdogs of hepatology.**

### Prof. Robert F. Schwabe

Division of Digestive and Liver Diseases, Columbia University.



Following medical school at the University of Heidelberg and LMU Munich, and residency in internal

medicine at the University of Heidelberg, Dr. Schwabe joined the Brenner lab at University of North Carolina at Chapel Hill for a postdoctoral fellowship. In 2003, Dr. Schwabe was recruited to Columbia University where he currently works as Associate Professor in the Division of Digestive and Liver Diseases.

Dr. Schwabe's lab investigates mechanisms by which chronic liver injury promotes the development of liver fibrosis and liver cancer. A particular focus of his lab is understanding the role of damage-associated molecular patterns (DAMPs) in stellate cell activation as well as the role of hepatic stellate cells in the development of liver cancer.

**Title of presentation: Links between injury, fibrosis and cancer in the liver.**

**Dr. Raffaella Maria Gadaleta**  
Interdisciplinary Dept of Medicine,  
University of Bari.



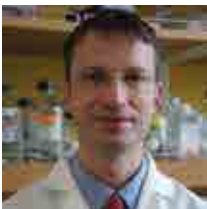
Raffaella Gadaleta studied Biological Science with a specialization in Physiopathology at the University of Bari. She

carried out her doctoral studies at the University Medical Centre of Utrecht where she studied the involvement of FXR in the pathogenesis of Inflammatory Bowel Diseases.

Afterwards, she moved to Imperial College, London as a Junior Research Fellow, and is now a researcher at the University of Bari where she continues her studies on various aspects of bile acid homeostasis and related diseases of the gut-liver axis.

**Title of presentation: FGF19 analogue protects from spontaneous hepatocarcinogenesis in mice.**

**Prof. Bernd Schnabl**  
University of California, San Diego.



Prof. Schnabl is a trained gastroenterologist and physician-scientist. He received his MD degree from the University

Freiburg in Germany. After finishing his residency in internal medicine, he completed a gastroenterology fellowship at Columbia University in New York City. He joined the Division of Gastroenterology at UC San Diego in 2008 and he is currently an Associate Professor in Residence. His lab is particularly interested in the

contribution of the gut microbiome to the onset and progression of liver disease. He is using system biology approaches to better understand the interaction between the intestinal microbiome and the liver during chronic liver disease. Prof. Schnabl is the principal investigator of a VA Merit Award and several NIH grants. He serves as Associate Editor for Digestive Diseases and Sciences, which is the oldest continuously published GI journal in North America.

**Title of presentation: Host-microbiome interactions in alcoholic liver disease.**

**Prof. Hellmut G. Augustin**  
Medical Faculty Mannheim, Heidelberg University.



Hellmut Augustin is Professor of Vascular Biology at the Medical Faculty Mannheim of Heidelberg

University and Head of the Division for Vascular Oncology and Metastasis Research at the German Cancer Research Center (DKFZ) in Heidelberg, Germany, since 2006. Trained as a Veterinary Pathologist at the University of Veterinary Medicine Hannover, Germany (1987) and as PhD in Experimental Pathology at Cornell University, Ithaca, NY, USA (1992), he worked previously as Assistant Professor at the University of Göttingen, Germany (1993-2000) and as Department Head at the Tumor Biology Center in Freiburg, Germany (2001-2006).

His laboratory ([www.angiolab.de](http://www.angiolab.de)) studies 1.) the molecular mechanisms of physiological blood vessel formation,

assembly, and maturation focusing on angiogenesis regulating receptor tyrosine kinases, most notably on the Angiopoietin-Tie ligand-receptor system as well as on other selected novel candidate molecules, 2.) the mechanisms of organotypic vascular differentiation and angiocrine signaling studying the lung and liver vasculature as prototypic vascular beds, 3.) the molecular mechanisms of tumor progression focusing on tumor-vessel interactions during metastasis, and 4.) translational tumor angiogenesis experiments aimed at defining the therapeutic window of stromal targeted therapies.

**Title of presentation: Mechanisms of angiocrine signaling in the liver.**

**Prof. George K. Michalopoulos**  
University of Pittsburgh.



George Michalopoulos is Professor and Chairman of the department of Pathology, University of Pittsburgh. Dr.

Michalopoulos led the studies associated with the discovery of Hepatocyte Growth Factor (HGF) and its receptor (c-Met). His research covers molecular events involving growth factor and biomatrix signaling leading to initiation and termination of liver regeneration; the capacity of hepatocytes and cholangiocytes to function as facultative stem cells for each other when regeneration is compromised; genomic alterations associated with hepatocellular carcinomas and their relation to signaling involved in termination of liver regeneration. Awards and distinctions include a Merit Award from NIH; Chair

of the Board of Scientific Counselors of NIH/ NIAAA; induction as fellow of the American Association for the Advancement of Science; Rous-Whipple Award in Experimental Pathology; Distinguished Research Award by the American Liver Foundation; Distinguished Alumnus Award from the University of Wisconsin (Madison); Honorary Doctorate degree from the University of Athens, Greece; Distinguished Research Professor, University of Pittsburgh. He is a member of AASLD since 1985 and became an inaugural fellow of AASLD in 2014. He is associate editor of *Lab Investigation*, *Human Pathology*, *J. Cell. Physiology* and has been conducting multiple reviews on areas of his expertise for *Hepatology*, *Gastroenterology*, *J. of Hepatology*, *Science*, *Nature*, *Cell*, etc.

**Title of presentation: Liver regeneration: healing acute injury and exacerbating chronic disease.**

# PROGRAMME AT A GLANCE

## Wednesday, June 14<sup>th</sup>

<b>16.00 - 17.50</b>
Registration
Venue: Aula Maxima, 1st Floor
<b>17.50 - 18.00</b>
Welcome Address
Prof. Antony Wheatley
Venue: Aula Maxima, Ground Floor
<b>18.00 - 18.30</b>
Guest Speaker:
Prof. Fergus Shanahan
Venue: Aula Maxima, Ground Floor
<b>18.30 - 19.00</b>
Guest Speaker:
Prof. Em, Dr. Eddie Wisse
Venue: Aula Maxima, Ground Floor
<b>19.00 - 19.45</b>
Session 1 President's Choice
Venue: Aula Maxima, Ground Floor
<b>19.45 - 22.00</b>
Welcome BBQ and Entertainment
Venue: College Bar - Sult

## Thursday, June 15<sup>th</sup>

<b>8.00 - 16.00</b>
Registration
Venue: Aula Maxima, 1st Floor
<b>8.30 - 9.00</b>
Guest Speaker Prof. Eiji Hara
Venue: Aula Maxima, Ground Floor
<b>9.00 - 10.15</b>
Session 2 Gut Microbiota & LSEC
Venue: Aula Maxima, Ground Floor
<b>10.15 - 10.45</b>
Coffee Break
Venue: Aula Maxima, 1st Floor

<b>10.45 - 11.15</b>
Guest Speaker: Prof. Laurie D. DeLeve
Venue: Aula Maxima, Ground Floor
<b>11.15 - 12.45</b>
Session 3 LSEC
Venue: Aula Maxima, Ground Floor
<b>12.45 - 13.45</b>
Lunch
Venue: Aula Maxima, 1st Floor
<b>13.45 - 14.15</b>
Guest Speaker:
Prof. Robert F. Schwabe
Venue: Aula Maxima, Ground Floor
<b>14.15 - 15.30</b>
Session 4 Liver Fibrosis - 1
Venue: Aula Maxima, Ground Floor
<b>15.30 - 16.00</b>
Coffee Break
Venue: Aula Maxima, 1st Floor
<b>16.00 - 16.30</b>
Guest Speaker:
Dr. Raffaella Maria Gadaleta
Venue: Aula Maxima, Ground Floor
<b>16.30 - 17.30</b>
Session 5 Bile Acids & Liver Cancer
Venue: Aula Maxima, Ground Floor
<b>19.30 - 23.00</b>
Conference Dinner & Entertainment
Venue: Hotel Meyrick



# PROGRAMME AT A GLANCE

## Friday, June 16<sup>th</sup>

<b>8.00 - 14.30</b>
Registration
Venue: Aula Maxima, 1st Floor
<b>8.30 - 9.00</b>
Guest Speaker Prof. Bernd Schnabl
Venue: Aula Maxima, Ground Floor
<b>9.00 - 10.15</b>
Session 6 Alcohol & Other Liver Injuries
Venue: Aula Maxima, Ground Floor
<b>10.15 - 10.45</b>
Coffee Break
Venue: Aula Maxima, 1st Floor
<b>10.45 - 11.15</b>
Guest Speaker Prof. Hellmut G. Augustin
Venue: Aula Maxima, Ground Floor
<b>11.15 - 12.45</b>
Session 7 Liver Fibrosis - 2
Venue: Aula Maxima, Ground Floor
<b>12.45 - 14.15</b>
Poster Session and Lunch
Venue: Aula Maxima, 1st Floor
<b>14.15 - 14.30</b>
Conference Photograph
Venue: Aula Maxima, 1st Floor
<b>14.30 - 17.00</b>
<b>Excursion</b>
Venue: Meet at Aula Maxima, 1st Floor

## Saturday, June 17<sup>th</sup>

<b>8.30 - 12.00</b>
Registration
Venue: Aula Maxima, Ground Floor
<b>9.00 - 9.30</b>
Guest Speaker: Prof. George K. Michalopoulos
Venue: Aula Maxima, Ground Floor
<b>9.30 - 11.00</b>
Session 8 Liver Regeneration
Venue: Aula Maxima, Ground Floor
<b>11.00 - 11.30</b>
Coffee Break
Venue: Aula Maxima, Ground Floor
<b>11.30 - 12.30</b>
Session 9 Hepatic Stellate Cells
Venue: Aula Maxima, Ground Floor
<b>12.30 - 12.40</b>
Farewell and handout to Sydney
Venue: Aula Maxima, Ground Floor
<b>12.40 - 13.00</b>
Lunch & farewell
Venue: Aula Maxima, Ground Floor

# Detailed Programme ISCHS 2017

**Venue Information:** Aula Maxima, The Quadrangle

**Oral Presentations:** Ground Floor of the Aula Maxima.

**Poster Presentations:** 1st Floor of the Aula Maxima.

**Registration, Coffee Breaks and Lunch:** 1st Floor of the Aula Maxima.

## Wednesday, June 14<sup>th</sup>

16.00 - 17.50	Registration
17.50 - 18.00	Welcome Address: Prof. Antony Wheatley
	Guest Speaker: Prof. Fergus Shanahan
	Session Chair: Prof. Aiden McCormick
18.00 - 18.30	Translating microbiome science
	Guest Speaker: Prof. Em. Dr. Eddie Wisse
	Session Chair: Prof. Em. Dr. Robert S. McCuskey
18.30 - 19.00	Cells of the hepatic sinusoid - then and now : Forty years since the 1st Kupffer International Cell Symposium

### Session 1 President's Choice

**Session Chairs:** Prof. Em. Dr. Robert S. McCuskey and Dr. Beth Mallard

19.00 - 19.15	Rhamm is required for liver repair after acute injury <b>Michele Pritchard</b>
19.15. - 19.30	Simvastatin ameliorates sinusoidal microcirculatory phenotype, fibrosis and portal hypertension in aged cirrhotic rats <b>Raquel Maeso Díaz</b>
19.30 - 19.45	Imaging the cellular crosstalk of sinusoidal endothelium <b>Donato Inverso</b>
19.45 - 22.00	Welcome BBQ and Entertainment

Thursday, June 15<sup>th</sup>

8.00 - 16.00	<b>Registration</b>
<b>Guest Speaker: Prof. Eiji Hara</b>	
8.30 - 9.00	The roles and mechanisms of SASP in senescent hepatic stellate cells
<b>Session 2 Gut Microbiota &amp; LSEC</b>	
<b>Session Chairs: Prof. Laura Nagy and Prof. Laurie DeLeve</b>	
9.00 - 9.15	Acceleration of the activation of hepatic stellate cells by bacteria via ROS <b>Soichi Kojima</b>
9.15 - 9.30	SCARF-1 mediates recruitment of CD4+ T cells to the hepatic sinusoidal endothelium: a new player in the gut-liver axis? <b>Daniel Patten</b>
9.30 - 9.45	Absence of cytoglobin, a novel marker of hepatic stellate cells, promotes multiple organ abnormality in aged mice via nitric oxide induced senescence <b>Le Thi Thanh Thuy</b>
9.45 - 10.00	Liver tissue-resident natural killer cells <b>Wayne Yokoyama</b>
10.00 - 10.15	Liver injury and intestinal permeability attenuation in antibiotics pretreatment following Concanavalin A administration in mice <b>Ngatiman M. Hairulhisyam</b>
10.15 - 10.45	<b>Coffee Break</b>
<b>Guest Speaker: Prof. Laurie D. DeLeve</b>	
10.45 - 11.15	The liver sinusoidal endothelial cells- the scrappy underdogs of hepatology <b>Prof. Laurie D. DeLeve</b>
<b>Session 3 LSEC</b>	
<b>Session Chairs: Dr. Jordi Gracia-Sancho and Prof. Hellmut Augustin</b>	
11.15 - 11.30	Towards understanding the dynamic structure of fenestrations in living liver sinusoidal endothelial cells <b>Karolina Szafranska</b>
11.30 - 11.45	The liver sinusoidal endothelial cell – an endothelial cell with a macrophage-like identity <b>Sabin Bhandari</b>
11.45 - 12.00	Functionality based method for simultaneous isolation of rodent hepatic sinusoidal cells <b>Leslie Stradiot</b>
12.00 - 12.15	Nanomechanical profiling of the liver sinusoidal endothelial cells in the context of non-alcoholic fatty liver disease <b>Karolina Owczarczyk</b>

12.15 - 12.30	Obtaining functionally intact primary human liver sinusoidal endothelial cells (hLSECs) <b>Bård Smedsrød</b>
12.30 - 12.45	Disruption of rat liver sinusoidal endothelial cell morphology by oxidized low-density lipoproteins <b>Peter McCourt</b>
12.45 - 13.45	<b>Lunch</b>
<b>Guest Speaker: Prof. Robert F. Schwabe</b>	
13.45 - 14.15	Links between injury, fibrosis and cancer in the liver
<b>Session 4 Liver Fibrosis - 1</b>	
<b>Session Chairs: Dr. Patricia Lalor and Prof. Norifumi Kawada</b>	
14.15 - 14.30	The effects of methoxamine on increased intrahepatic vascular resistance in a rat model of non-alcoholic fatty liver disease <b>Denise van der Graaff</b>
14.30 - 14.45	Role of matrix rigidity on hepatocytes and liver sinusoidal endothelial cells in hepatic fibrogenesis <b>Srivatsan Kidambi</b>
14.45 - 15.00	Partial regression of experimental decompensate cirrhosis after causal agent discontinuation. Vascular characterization and possible therapeutic targets to potentiate regression <b>Erica Lafoz</b>
15.00 - 15.15	Regulation of endogenous CYGB expression in human hepatic stellate cells <b>Norifumi Kawada</b>
15.15 - 15.30	Gender-specific development of experimental autoimmune cholangitis induced by double-stranded RNA <b>Kenichi Ikejima</b>
15.30 - 16.00	<b>Coffee Break</b>
<b>Guest Speaker: Dr. Raffaella Maria Gadaleta</b>	
16.00 - 16.30	FGF19 analogue protects from spontaneous hepatocarcinogenesis in mice
<b>Session 5 Bile Acids &amp; Liver Cancer</b>	
<b>Session Chairs: Prof. Eiji Hara and Dr. Raffaella Gadaleta</b>	
16.30 - 16.45	Bile acids amplify the gender gap in hepatocellular carcinoma <b>Sayeepriyadarshini Anakk</b>
16.45 - 17.00	Reprogramming of pro-inflammatory human macrophages to an anti-inflammatory phenotype by bile acids <b>Marianne Wammers</b>
17.00 - 17.15	Wnt-SCD-LRP5/6 Loop links liver fibrosis with cancer <b>Keane Lai</b>

**17.15 - 17.30** IL-33 from senescent hepatic stellate cells promotes obesity-associated liver cancer development by suppressing antitumor immunity  
**Naoko Ohtani**

**19.30 - 23.00** **Conference Dinner & Entertainment**

**Venue:** Hotel Meyrick, Eyre Square, Galway

## Friday, June 16<sup>th</sup>

**8.00 - 14.30** **Registration**

**Guest Speaker: Prof. Bernd Schnabl**

**8.30 - 9.00** Host-microbiome interactions in alcoholic liver disease

### **Session 6 Alcohol & Other Liver Injuries**

**Session Chairs: Prof. Bernd Schnabl and Prof. Hartmut Jaeschke**

**9.00 - 9.15** Small specific-sized hyaluronic acid 35 normalizes TLR4 signaling in Kupffer cells from ethanol-fed via microRNA291b-3 and its target Tollip  
**Laura Nagy**

**9.15 - 9.30** Exacerbated LPS/GalN-induced liver injury in the stress sensitive Wistar Kyoto rat: possible role of the endocannabinoid system?  
**Marykate Killilea**

**9.30 - 9.45** Blockade of platelet function modifies the outcome of acute liver injury  
**Patricia Lalor**

**9.45 - 10.00** Reactive oxygen species mediated activation of autophagy in liver sinusoidal endothelial cells is a key regulator of liver ischaemia-reperfusion injury  
**Ricky Bhogal**

**10.00 - 10.15** Alcohol-induced macrophage apoptosis modulates the intrahepatic inflammatory phenotype and limits liver inflammation  
**Zhuan Li**

**10.15 - 10.45** **Coffee Break**

**Guest Speaker: Prof. Hellmut G. Augustin**

**10.45 - 11.15** Mechanisms of angiocrine signaling in the liver

### **Session 7 Liver Fibrosis - 2**

**Session Chairs: Prof. Hellmut G. Augustin and Prof. Robert F. Schwabe**

**11.15 - 11.30** Involvement of liver macrophages in the pathogenesis of MCD-diet induced NASH in an immunodeficient mouse model  
**Sandra Winkler**

11.30 - 11.45	Simultaneous induction of glycolysis and oxidative phosphorylation during activation of hepatic stellate cells reveals novel targets to treat liver fibrosis <b>Natalia Smith-Cortinez</b>
11.45 - 12.00	Autophagy regulates endothelial dysfunction and hepatic fibrosis development <b>Maria Ruart</b>
12.00 - 12.15	Glycine minimizes murine autoimmune cholangitis and pancreatitis caused by double-stranded RNA through modulation of innate immune responses <b>Akira Uchiyama</b>
12.15 - 12.30	Whole transcriptome analysis of ductular reaction from patients with alcoholic hepatitis. Similarities to ductular reaction in DDC mouse model <b>Beatriz Aguilar</b>
12.30 - 12.45	Apoptosis signal-regulating kinase (ASK1) is a novel therapeutic target for NASH <b>Grant Budas</b>
12.45 - 14.15 Poster Session and Lunch Session Chairs: Prof. Victoria Cogger, Prof. Krista Rombouts and Prof. Bård Smedsrød	
PS.01	The substance P encoding gene preprotachykinin A modulates fenestrations in the liver sinusoidal endothelial cells in polymicrobial sepsis in mice <b>Ravinder Reddy Gaddam</b>
PS.02	The effect of dietary macronutrients on fenestrations in the aging liver sinusoidal cells <b>Mashani Mohamad</b>
PS.03	Intimate cross-talk between HSC and LSEC contributes to activation and deactivation of hepatic sinusoidal cells <b>Marina Vilaseca</b>
PS.04	Expression of microRNA-155 in myeloid cells modulates liver inflammatory response to injury <b>Delia Blaya</b>
PS.05	Adipocyte fatty-acid binding protein is overexpressed in cirrhosis and correlates with clinical outcomes <b>Elisa Pose Mendez</b>
PS.06	Kupffer cell dysfunction in patients with chronic liver disease: Investigating the phagocytic function using ultrasound contrast microbubbles <b>Jiro Fujimoto</b>
PS.07	Epigenetics during hepatic stellate cell activation <b>Claus Kordes</b>
PS.08	Nitric oxide and prostanoids in early- and late-stages of liver sinusoidal endothelial cells (LSECs) dysfunction in non-alcoholic fatty liver disease (NAFLD) <b>Edyta Kus</b>

PS.09	Targeting the LSEC to prevent age related disease <b>Victoria Cogger</b>
PS.10	The role of the endothelial cell-derived semaphorin3a in non-alcoholic hepatic steatosis, insulin sensitivity and glucose tolerance <b>Daniel Eberhard</b>
PS.11	C5a receptor antagonist treatment in TLR4 mutant C3H/HeJ mouse negatively effects the liver regeneration after partial hepatectomy <b>Rahiman Faiyaz</b>
PS.12	Common features of hepatic and pancreatic stellate cells copper-deficient model of injury in rat <b>Kadriia Saifullina</b>
PS.13	Hypoxia-inducible factor-2 $\alpha$ protects liver ischemia-reperfusion injury by affecting regulatory T cells <b>Jiang Zhang</b>
PS.14	Effect of betaine on alcohol-induced gut dysbiosis <b>Kusum Kharbanda</b>
PS.15	Alcohol affects the cross-talk between hepatocytes and hepatic stellate cells in HCV infection <b>Murali Ganesan</b>
PS.16	Is the "Liver Sieve Concept" still water-tight in research into atherogenesis? <b>Robin Fraser</b>
PS.17	Maintenance of human hepatocytes metabolism in culture using a newly-formulated solid shipping medium <b>Lourdes Gombau</b>
PS.18	The pancaspase inhibitor emricasan improves the phenotype of hepatocytes from human and rat cirrhotic livers without evidence of hepatotoxicity <b>Martí Ortega-Ribera</b>
PS.19	Human amniotic epithelial stem cells as a new therapeutic option for portal hypertension and cirrhosis <b>Anabel Fernández-Iglesias</b>
PS.20	Phenotypic changes in rat liver sinusoidal endothelial cells during early stages of in vitro culture <b>Ruomei Li</b>
14.15 - 14.30	<b>Conference Photograph</b>
<b>Venue:</b> Aula Maxima, 1st Floor	
14.30 - 17.00	<b>Excursion</b>
<b>Venue:</b> Meet at Aula Maxima, 1st Floor	

Saturday, June 17<sup>th</sup>

8.30 - 12.00	Registration (Ground Floor)
Guest Speaker: Prof. George K. Michalopoulos	
9.00 - 9.30	Liver regeneration: Healing acute injury and exacerbating chronic disease
<b>Session 8 Liver Regeneration</b>	
Session Chairs: Prof. Krista Rombouts and Prof. George Michalopoulos	
9.30 - 9.45	Human pluripotent stem cell-derived mesenchymal stem cells contribute to liver regeneration in Gunn rats <b>Claus Kordes</b>
9.45 - 10.00	A systems biology pursuit for identifying control points to counteract chronic alcohol-mediated impairment of liver regeneration <b>Rajanikanth Vadigepalli</b>
10.00 - 10.15	The hepatic stellate cells as potential regional hepatic progenitor cells <b>Anisa Gumerova</b>
10.15 - 10.30	Delayed liver regeneration in germ-free mice is normalised following colonisation with conventional mouse microbiota <b>Muhamad Marlina</b>
10.30 - 10.45	Activation of an early postnatal splicing program by ESRP2 is critical for liver regeneration <b>Auinash Kalsotra</b>
10.45 - 11.00	Deletion of the Hippo core kinases MST1 and MST2 by siRNA rescues liver regeneration in aged mice. <b>Deborah Stroka</b>
11.00 - 11.30	Coffee Break (Ground Floor)



## Session 9 Hepatic Stellate Cells

Session Chairs: Prof. Krista Rombouts and Prof. Massimo Pinzani

11.30 - 11.45	Direct differentiation of hepatic stellate cells from ips cells. <b>Julia Vallverdu</b>
11.45 - 12.00	Mucosal- associated invariant T (MAIT) cells are significantly decreased and exhausted in patients with autoimmune liver disease, but promote primary hepatic stellate cell (HSC) activation <b>Katrin Böttcher (nee Schölzel)</b>
12.00 - 12.15	Protective role of cytoglobin in liver injury and fibrogenesis in bile duct ligation-induced cholestatic mice; possible involvement of nitric oxide <b>Le Thi Thanh Thuy</b>
12.15- 12.30	Laminin-521 promotes quiescence in hepatic stellate cells <b>Friederike Rohn</b>
12.30 - 12.40	Farewell and handout to Sydney (Ground Floor)
12.40 - 13.00	Lunch & Farewell

# Delegate List

Name	Surname	Affiliation	Country
Beatriz	Aguilar	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Sayeepriyadarshini	Anakk	University of Illinois, Urbana-Champaign	USA
Hellmut G.	Augustin	Heidelberg University	Germany
Sabin	Bhandari	The Arctic University of Norway	Norway
Ricky	Bhogal	University of Birmingham	UK
Delia	Blaya	Institut d'investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Katrin	Böttcher (nee Schölzel)	University College	UK
Grant	Budas	Gilead Sciences Inc.	USA
Genis	Camprecios Figueras	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Carol	Casey	University of Nebraska Medical Center and Veterans Affairs Medical Center, Omaha, NE	USA
Laia	Chavarria	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Barbara	Coen	National University of Ireland, Galway	Ireland
Victoria	Cogger	C.E.R.A., University of Sydney	Australia
Willeke	de Haan	KU Leuven	Belgium
Laurie	DeLeve	Keck Medicine of USC	USA
Daniel	Eberhard	Heinrich-Heine University Düsseldorf	Germany
Rahiman	Faiyaz	National University of Ireland, Galway	Ireland
Anabel	Fernández-Iglesias	Liver Vascular Biology Research Group - IDIBAPS - CIBEREHD	Spain
Robin	Fraser	University of Otago-Christchurch	New Zealand
Jiro	Fujimoto	Hyogo College of Medicine	Japan
Raffaella Maria	Gadaleta	University of Bari	Italy
Ravinder Reddy	Gaddam	University of Otago-Christchurch	New Zealand
Murali	Ganesan	University of Nebraska Medical Center and Veterans Affairs Medical Center, Omaha, NE	USA
Lourdes	Gombau	ReadyCell	Spain
Jordi	Gracia-Sancho	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Anisa	Gumerova	Kazan Federal University	Russian Federation
Ngatiman M.	Hairulhisyam	National University of Ireland, Galway	Ireland
Eiji	Hara	Research Institute for Microbial Diseases, Osaka University	Japan
Kenichi	Ikejima	Juntendo University School of Medicine	Japan
Donato	Inverso	German Cancer Research Center (KFZ)	Germany

Name	Surname	Affiliation	Country
Hartmut	Jaeschke	University of Kansas Medical Center	USA
Auinash	Kalsotra	University of Illinois, Urbana-Champaign	USA
Norifumi	Kawada	Osaka City University	Japan
Kusum	Kharbanda	University of Nebraska Medical Center and Veterans Affairs Medical Center, Omaha, NE	USA
Srivatsan	Kidambi	University of Nebraska-Lincoln	USA
Marykate	Killilea	National University of Ireland, Galway	Ireland
Soichi	Kojima	RIKEN CLST	Japan
Claus	Kordes	University of Duesseldorf, Heinrich Heine University	Germany
Edyta	Kus	Jagiellonian Centre for Experimental Therapeutics, JCET	Poland
Erica	Lafoz	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Keane	Lai	University of Southern California (USC)	USA
Patricia	Lalor	University of Birmingham	UK
Niamh	Leonard	National University of Ireland, Galway	Ireland
Ruomei	Li	UiT/The Arctic University of Norway	Norway
Zhuan	Li	University of Kansas Medical Center	USA
Raquel	Maeso Díaz	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
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Muhamad	Marlini	National University of Ireland, Galway	Ireland
Aiden	McCormick	St Vincent's University Hospital	Ireland
Peter	McCourt	UiT/The Arctic University of Norway	Australia
Robert	McCuskey	University of Arizona	USA
Rachel J.	Meyer	Midland University, , Fremont, NE	USA
George	Michalopoulos	University of Pittsburgh	USA
Mashani	Mohamad	Universiti Teknologi MARA	Malaysia
Han	Moshage	University Medical Center Groningen	The Netherlands
Laura	Nagy	Cleveland Clinic	USA
Toshitaka	Odamaki	Morinaga Milk Industry Co. Ltd.	Japan
Naoko	Ohtani	Dept. of Pathophysiology, Graduate School of Medicine, Osaka City University	Japan
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Natalia	Osna	University of Nebraska Medical Center and Veterans Affairs Medical Center, Omaha, NE	USA
Karolina	Owczarczyk	Jagiellonian University	Poland
Gerard	Palau	ReadyCell	Spain
Daniel	Patten	University of Birmingham	UK

Name	Surname	Affiliation	Country
Massimo	Pinzani	University College London	UK
Elisa	Pose Mendez	Universitat de Barcelona	Spain
Michele	Pritchard	University of Kansas Medical Center	USA
Friederike	Rohn	University of Duesseldorf, Heinrich Heine University	Germany
Krista	Rombouts	University College London	UK
Maria	Ruart	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Kadriia	Saifullina	Kazan State Medical University	Russian Federation
Bernd	Schnabl	University of California San Diego	USA
Robert F.	Schwabe	Columbia University	USA
Fergus	Shanahan	Alimentary Pharmabiotic Centre, University College Cork (UCC)	Ireland
Bård	Smedsrød	UiT/The Arctic University of Norway	Norway
Natalia	Smith- Cortinez	University Medical Center Groningen	The Netherlands
Karen Kristine	Sørensen	UiT/The Arctic University of Norway	Norway
Lestlie	Stradiot	Vrije Universiteit Brussel	Belgium
Deborah	Stroka	University of Bern	Switzerland
Karolina	Szafrańska	Jagiellonian University	Poland
Le Thi Thanh	Thuy	Osaka City University	Japan
Dimitar	Tonev		UK
Akira	Uchiyama	Juntendo University School of Medicine	Japan
Rajanikanth	Vadigepalli	Thomas Jefferson University	USA
Julia	Vallverdu	Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)	Spain
Denise	van der Graaff	University of Antwerp	Belgium
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Marianne	Wammers	University of Duesseldorf, Heinrich Heine University	Germany
Antony	Wheatley	National University of Ireland, Galway	Ireland
Sandra	Winkler	University of Leipzig	Germany
Eddie	Wisse	Maastricht University	The Netherlands
Wayne	Yokoyama	Washington University in St. Louis	USA
Jiang	Zhang	Department of Medicine II, Hospital of the Ludwig-Maximilians University (LMU) of Munich	Germany







## **The International Society for Hepatic Sinusoidal Research (ISHSR)**

The International Society for Hepatic Sinusoidal Research (ISHSR) was established in December, 2008 to serve as a non-profit organization to promote education, basic and translational research on the cells of the hepatic sinusoid including liver parenchymal cells. It promotes science on cell and molecular biology of each cell type and cross-talk among these cell types in health and disease during an entire life span. The ISHSR supports the international scientific symposium on liver sinusoidal cells formally called International Kupffer Cell Symposium (1977-1988) and International Symposium on Cells of the Hepatic Sinusoid: ISCHS (1990-2008).

The ISHSR currently has more than 150 members from 20 nations who are primarily interested in hepatic sinusoidal cells such as sinusoidal endothelial cells, Kupffer cells, NKT cells, NK cells, hepatic stellate cells, and hepatocytes.

**[www.ishsr.net](http://www.ishsr.net)**

**Conference Website**

[www.ischs2017.ie](http://www.ischs2017.ie)

**Conference Venue**

Aula Maxima, National University of Ireland, Galway

**International Society for Hepatic Sinusoidal Research**

<https://ishsr.net/>

**Conference Secretariat**

Go West Conference & Event Management, Galway.

[www.gowest.ie](http://www.gowest.ie)

