



**20 THE LIVER**  
**26 SINUSOID**  
**MEETING**

**23rd** International Symposium  
**50th** Anniversary of ISHSR

**TARRAGONA**  
**SPAIN**

**23-26 MAY**



**ISHSR**  
International Society for  
HEPATIC SINUSOIDAL RESEARCH

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# THE LIVER SINUSOID 2026 MEETING

23rd International Symposium  
50th anniversary of ISHSR

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## Organizes

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## Local organizing committee

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Ana Blas  
Javier Cubero  
Anabel Fernández-Iglesias  
Sonia Fernández-Veledo  
Rubén Francés  
Sergi Guixé-Muntet  
Anna Moles  
Jordi Gracia-Sancho (chairman)

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## Venue

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El Seminari Casa de Cultura  
Carrer de Sant Pau 4  
Tarragona | Spain

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## Symposium

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23-26 MAY 2026

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## Congress Secretariat [Room D6]

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ISHSR – Aula Clínic  
Maria Torrens  
mtorrens@fmcb.cat  
+34 699 857 469



Món Clínic  
Barcelona



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## WIFI

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**cts** USER: liver  
PASS: sinusoid

## DEAR COLLEAGUES AND FRIENDS,

It is my great pleasure to welcome you to the 2026 Liver Sinusoid Meeting - 23rd International Symposium on Cells of the Hepatic Sinusoid, held in the beautiful and historic city of Tarragona, Spain. This symposium continues a long-standing tradition of bringing together scientists and professionals dedicated to advancing our understanding of the hepatic sinusoid and its essential role in liver function, disease, aging, and regeneration.

Over the years, our community has made remarkable progress in unravelling the complexities of liver microcirculation, fibrosis, immune regulation, and sinusoidal cell interactions. This year's scientific program reflects these advances, with a strong focus on cutting-edge discoveries in sinusoidal endothelial cell biology, liver immunology, fibrosis, cancer, and emerging therapeutic strategies. We are honoured to host an outstanding group of international speakers and are confident that the discussions and exchanges throughout the meeting will help shape the future of our field. We are especially committed to supporting early-career researchers, providing them with opportunities to attend the symposium, present their work, engage with leaders in the field, and build lasting collaborations.

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On a personal note, this symposium holds a very special meaning for me. The 2004 edition in Bilbao was my very first international conference during my PhD, and it proved to be a truly enriching and visionary experience that had a lasting impact on my scientific journey. For this reason, it is both a great honour and a deeply meaningful privilege to now have the opportunity to organize this congress, for the second time in our country, in my hometown of Tarragona.

Beyond the scientific sessions, we have designed a rich social program to foster interaction and collaboration in a unique setting. Participants will have the opportunity to discover Tarragona's exceptional Roman heritage through guided visits, and to join us for a special Gala Dinner celebrating the 50th Anniversary of ISHSR – a significant milestone marking five decades of pioneering research and global collaboration.

We have also sought to extend the impact of this meeting beyond the scientific community by engaging with the local community of Tarragona. During this past month, we have organized and delivered theoretical and hands-on workshops for high school students, aiming to raise awareness about liver diseases and to promote interest in biomedical research among younger generations.

This meeting would not have been possible without the support of many individuals and organizations. I would like to sincerely thank the Organizing Committee and the Technical Secretariat for their dedication, as well as the Colleagues from the Tarragona City Council, our Sponsors, and Supporting Institutions for making this event

possible. I also gratefully acknowledge the Graphic Designer and the Audiovisual Services team for their valuable work.

Beyond science, Tarragona – an ancient Mediterranean city and UNESCO World Heritage Site – offers an inspiring environment for networking and exchange. I encourage you to take full advantage of its rich culture, gastronomy, and welcoming atmosphere.

On behalf of the Organizing Committee and the ISHSR Council, thank you for being part of this symposium and for contributing to what we hope will be a stimulating, productive, and memorable meeting. We encourage you to engage, exchange ideas openly, and make the most of this unique gathering of our community.

**Jordi Gracia-Sancho**

President, International Society for Hepatic Sinusoidal Research (ISHSR)  
Chairman, 23rd International Symposium on Cells of the Hepatic Sinusoid

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# OUR SPONSORS



*Thank you!*

**SATURDAY**

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**23rd MAY**

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13:30 ▶ **Registration desk open  
& welcome coffee & tea**

15:00 ▶ **CONFERENCE OPENING**  
15:30 **JORDI GRACIA-SANCHO**  
+ Institutions' representatives

15:30 ▶ **INAUGURAL SESSION**  
18:00  
Chairs:  
**JORDI GRACIA-SANCHO** (Spain) &  
**KENICHI IKEJIMA** (Japan)

15:30 ▶ **OPENING LECTURE**  
16:30  
**50 years of Sinusoidal science: Milestones,  
mechanisms, and the future**  
**BÅRD SMEDSRØD** (Europe-based past president)  
**HIDE TSUKAMOTO** (Americas-based past president)  
**VICTORIA COGGER** (Asia-Pacific-based past president)

16:30 ▶ **Presidential selected oral 1:**

***Setting up a biliary niche-on-a-chip for the study  
of human liver disease-associated ductular  
reaction***

Guo Yin<sup>1</sup> | Marlene Sophia Kohlhepp<sup>1</sup> | Bianca Franco  
Leonardi<sup>1</sup> | Tian Lan<sup>1</sup> | Hanyang Liu<sup>1</sup> | Hilmar Berger<sup>1</sup>  
| Natalia Martagón Calderón<sup>2</sup> | Milad Rezvani<sup>2</sup> | Philip  
Bufler<sup>2</sup> | Frank Tacke<sup>1</sup> | Adrien Guillot<sup>1</sup>

*1- Charité - Universitätsmedizin Berlin, Department of Hepatology  
& Gastroenterology, Campus Virchow-Klinikum and Campus  
Charité Mitte, Berlin, Germany 2- Charité - Universitätsmedizin  
Berlin, Department of Pediatric Gastroenterology, Nephrology and  
Metabolic Medicine, Berlin, Germany*

16:45 ▶  
17:00**Presidential selected oral 2:*****Rifaximin ameliorates cirrhotic portal hypertension through suppression of microbiome-derived deoxycholic acid***

Hai-Lin Xiong | Ke-Qi Wang | Chang-Peng Zhu | Wei-Fen Xie

*1- Department of Gastroenterology, Changzheng Hospital, Naval Medical University, Shanghai, China 2- Department of Gastroenterology, The First Affiliated Hospital, Jiangxi Medical College, Nanchang University, Nanchang, Jiangxi, China*

17:00 ▶  
17:15**Presidential selected oral 3:*****Dynamic macrophage–stellate cell interactions define fibrosis reversibility and post-SVR risk in chronic liver disease***

Le Thi Thanh Thuy, Pham Minh Duc, Hoang Hai, Nguyen Thi Ha, Pham Tuan Anh, Norifumi Kawada

*1- Department of Global Education and Medical Sciences, Osaka Metropolitan University 2- Department of Hepatology, Graduate School of Medicine, Osaka Metropolitan University 3- Department of Liver Cancer Treatment and Homeostatic Regulation, Graduate School of Medicine, Osaka Metropolitan University, Osaka, Japan*

17:15 ▶  
17:45**ISHSR PAST-PRESIDENT LECTURE****Macrophages and hepatocytes crosstalk in CLD****NATALIA NIETO (USA)**

17:45 ▶  
18:00

**Joint discussion** 

18:05 ▶

**Departure to  
welcome reception**

18:30 ▶

**WELCOME RECEPTION  
@ CASA CANALS**

Historic manor house-museum, opened exclusively for our meeting. Perfect occasion to reconnect with colleagues and make new ones.

**SUNDAY**

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**24th MAY**

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08:30 ▶  
10:25

**SESSION 1: LIVER ENDOTHELIUM IN HEALTH, AGING & DISEASE | PART 1**

Chairs:

**ED HARRIS** (USA) &  
**ANABEL FERNÁNDEZ-IGLESIAS** (Spain)

08:30 ▶  
09:00

**INVITED LECTURE**

**Advances in LSECs pathobiology: reversing pseudocapillarization restores clearance of amyloid-beta and LDL**

**LAURIE DE LEVE** (USA)

09:00 ▶  
09:20

**TUTORIAL LECTURE**

**Visualizing the liver sinusoid across scales: seeing structure to understand function**

**BARTŁOMIEJ ZAPOTOCZNY** (Poland)

09:20 ▶  
09:30

**Selected oral 1:**

***Liver endothelial *Heg1* signal limits hepatic steatosis via *Wnt*-mediated fatty acid oxidization in hepatocytes***

Xiyun Rao | Qianqian Zhao | Min Zheng | Jinbiao Chen | Geoffrey W McCaughan | Xiangjian Zheng

*1- Tianjin Medical University, China*

09:30 ▶  
09:40

**Selected oral 2:**

***Angiopoietin 1 protects from sepsis-induced acute-on-chronic liver failure by promoting endothelial cell-mediated hepatocyte differentiation***

Samson Mah | Michael Schonfeld | Kruti Nataraj | Steven A Weinman | Irina Tikhanovich

1- Department of Internal Medicine, and Liver Center, University of Kansas Medical Center, Kansas City, USA

09:40 ▶  
09:50

### Selected oral 3:

#### **LSEctin delivered to hAPCs by functionalized nanoparticles ameliorates chronic liver damage in experimental cirrhosis**

Oriol Juanola<sup>1,2,3</sup> | Vicente Candela<sup>4,5,6</sup> | Esther Caparrós<sup>1,2,3</sup> | Isabel Gómez-Hurtado<sup>1,2,3</sup> | Paula Boix<sup>1,2</sup> | Aní Gasparyan<sup>1,2</sup> | Albina España<sup>1,2</sup> | Hong Liang<sup>1,2</sup> | Ana Blas<sup>3,7,8,9</sup> | Ramón Martínez<sup>4,5,6,10,11</sup> | Rubén Francés<sup>1,2,3,12</sup>

1- Grupo de Inmunobiología Hepática e Intestinal, Dpto. Medicina Clínica, Universidad Miguel Hernández, San Juan, Alicante, Spain.

2- IIS ISABIAL, Hospital General Universitario Dr. Balmis, Alicante, Spain. 3- CIBERehd, Instituto de Salud Carlos III, Madrid, Spain.

4- Instituto Interuniversitario de Investigación de Reconocimiento Molecular y Desarrollo Tecnológico (IDM), Universitat Politècnica de València, Universitat de Valencia, Spain. 5- Unidad Mixta UPV-CIPF de Investigación en Mecanismos de Enfermedades y Nanomedicina, Valencia, Universitat Politècnica de València,

Centro de Investigación Príncipe Felipe, València, Spain. 6- CIBER de Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Madrid, Spain. 7- Fundación para el Fomento de la Investigación Sanitaria y Biomédica en la Comunidad Valenciana (FISABIO). 8- Hospital Universitario Doctor Peset, Valencia, Spain

9- Departamento de Fisiología, Universitat de València, Valencia, Spain 10- Departamento de Química, Universitat Politècnica de València, Spain. 11- Unidad Mixta de Investigación en Nanomedicina y Sensores, Universitat Politècnica de València, Instituto de Investigación Sanitaria La Fe (IIS La Fe), Valencia, Spain. 12- Instituto IDIBE, Universidad Miguel Hernández, Elche,

09:50 ►  
10:00

## Selected oral 4:

### ***Tumor size-dependent endothelial switch restricts CD8+ T cell surveillance in liver cancer***

Carlotta Tacconi<sup>1,2</sup> | Bianca Partini<sup>1,2</sup> | Pietro Delfino<sup>1,2</sup> | Chiara Laura<sup>1,2</sup> | Jessica Fioravanti<sup>2</sup> | Monica Giannotta<sup>1,2</sup> | Cristian G. Beccaria<sup>2</sup> | Pietro Di Lucia<sup>1</sup> | Michele D'Antonio<sup>2</sup> | Xenia Ficht<sup>2</sup> | Claudia De Paulis<sup>3</sup> | Daniel Taranto<sup>3</sup> | Gioia Ambrosi<sup>1,2</sup> | Giulia Nosetto<sup>1</sup> | Federico Rossari<sup>1,4,5</sup> | Valeria Fumagalli<sup>1,2</sup> | Caitlin Abbott<sup>2</sup> | Davide Marotta<sup>1,2</sup> | Elisa B. Bono<sup>2</sup> | Leonardo Giustini<sup>2</sup> | Micol Ravà<sup>1,2</sup> | Chiara Perucchini<sup>1,2</sup> | Federica Pedica<sup>1,6</sup> | Tamara Canu<sup>7</sup> | Tommaso Russo<sup>7</sup> | Andrea Raimondi<sup>7</sup> | Domenico Santangelo<sup>1,8,9</sup> | Pauline Hamon<sup>10,11,12</sup> | Marco De Giovanni<sup>1,2</sup> | Natalio Garbi<sup>13</sup> | Francesco De Cobelli<sup>1,8</sup> | Antonio Esposito<sup>1,7</sup> | Maurizio Ponzoni<sup>1,6</sup> | Alessio Cantore<sup>1,5</sup> | Luigi Naldini<sup>1,5</sup> | Enrico Lugli<sup>1,4</sup> | Leila Akkari<sup>3</sup> | Andrea Casadei-Gardini<sup>4</sup> | Miriam Merad<sup>10,11,15,16</sup> | Luca G. Guidotti<sup>1,2</sup> | Donato Inverso<sup>1,2</sup> | Federica Moalli<sup>1,2</sup> | Matteo Iannaccone<sup>1,2,7</sup>

*1- Vita-Salute San Raffaele University, Milan, Italy*

*2- Division of Immunology, Transplantation, and Infectious Diseases, IRCCS San Raffaele Scientific Institute, Milan, Italy*

*3- Division of Tumour Biology and Immunology, Oncode Institute, The Netherlands Cancer Institute, Amsterdam, the Netherlands*

*4- Oncology Department, IRCCS San Raffaele Scientific Institute, Milan, Italy*

*5- San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), IRCCS San Raffaele Scientific Institute, Milan, Italy*

*6- Pathology Unit, IRCCS San Raffaele Scientific Institute, Milan, Italy*

*7- Experimental Imaging Center, IRCCS San Raffaele Scientific Institute, Milan, Italy*

*8- Radiology Department, IRCCS San Raffaele Scientific Institute, Milan, Italy*

*9- Department of Advanced Biomedical Sciences, University of Naples "Federico II", Naples, Italy*

*10- Centre de Recherche des Cordeliers, Inserm U1138, Sorbonne Université, Université Paris Cité, Paris, France*

*11- Marc and Jennifer Lipschultz Precision Immunology Institute,*

Icahn School of Medicine at Mount Sinai, New York, NY, US **12-** Department of Immunology and Immunotherapy, Icahn School of Medicine at Mount Sinai, New York, NY, USA **13-** Institute of Molecular Medicine and Experimental Immunology (IMMEI), University Hospital Bonn, Bonn, Germany **14-** IRCCS Humanitas Research Hospital, Rozzano, Italy **15-** Department of Oncological Sciences, Icahn School of Medicine at Mount Sinai, New York, NY, USA **16-** The Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, New York, NY, USA

10:00 ▶  
10:10

### Selected oral 5:

#### ***Wnt7a-Frizzled7, a novel lymphangiogenic signaling pathway driving cholangiocyte proliferation during liver regeneration***

Aarti Sharma | Pinky Juneja | Deepika Jakhar | Jayesh Kumar Sevak | Ashwini Vasudewan | Simran Sharma, Impreet Kaur | Viniyendra Pamecha | Dinesh M Tripathi | Archana Rastogi | Shiv K Sarin | Sumeet Pal Singh | Savneet Kaur

*1- Institute of Liver and Biliary Sciences, New Delhi, India*

10:10 ▶  
10:25

### Joint discussion

10:30 ▶  
11:45

### **COFFEE BREAK & POSTER VIEWING (POSTERS 1-14)**

See page 40 for the e-Posters.

11:50 ▶  
13:05

## SESSION 2: LIVER ENDOTHELIUM IN HEALTH, AGING & DISEASE | PART 2

Chairs:

**SAVNEET KAUR** (India) &  
**RUBÉN FRANCÉS** (Spain)

11:50 ▶  
12:20

### INVITED LECTURE

**Angiocrine remodeling of liver zonation during chronic hepatitis**

**DONATO INVERSO** (Italy)

12:20 ▶  
12:30

### Selected oral 6:

***Endothelial glycogen synthase kinase 3 $\beta$  promotes dendritic cell maturation and drives liver inflammation and fibrosis in metabolic dysfunction-associated steatohepatitis***

Akitoshi Sano | Qianqian Guo | Khaled Warashe |  
Nantawat Sathawiwat | Xin Dai | Petra Hirsova |  
Davide Povero | Samar Ibrahim

1- Mayo Clinic, Rochester, MN, USA

12:30 ▶  
12:40

### Selected oral 7:

***Reversing liver aging through degradation-tuned senolytic nanoparticles***

Vitor Francisco<sup>1,2,7\*</sup> | Andreia Marques<sup>1,2,3</sup> | David Sanfeliu-Redondo<sup>4</sup> | Inês Tomé<sup>1,2,5</sup> | Susana Rosa<sup>1,2</sup> | João Pitrez<sup>1,2</sup> | Peio Aristu-Zabalza<sup>4</sup> | Mauro Henriques<sup>1,2</sup> | Paulo Rodrigues-Santos<sup>1,2,3</sup> | Jordi Gracia-Sancho<sup>4,6</sup> | Lino Ferreira<sup>1,2,3,7</sup>

1- Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal 2- Centre for Innovative Biomedicine and Biotechnology (CiBB), University of Coimbra 3- Faculty of Medicine, University of Coimbra, Coimbra, Portugal 4- Liver Vascular Biology Research Group, IDIBAPS Biomedical Research Institute & CIBEREHD, Barcelona, Spain 5- Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal 6- Liver Research Unit, IRBCatSud Institute, Tarragona, Spain 7- Colab<sup>4</sup>Ageing, Coimbra, Portugal

12:40 ▶  
12:50

### Selected oral 8:

#### ***Liver sinusoidal endothelial cells: gatekeepers in systemic immune regulation and diseases***

Latha P. Ganesan<sup>1</sup> | Murugesan Rajaram<sup>2</sup> | Edward Harris<sup>3</sup>

1- Department of Internal Medicine 2- Department of Microbial Infection and Immunity, The Ohio State University, Columbus, OH, USA 3- Department of Biochemistry, University of Nebraska, Lincoln, NE, USA

12:50 ▶  
13:05

### Joint discussion

13:10 ▶  
14:40

### **LUNCH & POSTER VIEWING (POSTERS 15-28)**

See page 46 for the e-Posters.

14:45 ▶  
16:20

**SESSION 3: SINUSOIDAL CELL INFLAMMATION & IMMUNE RESPONSE | PART 1**

Chairs:

**KAREN SORENSEN** (Norway) &  
**ANNA MOLES** (Spain)

14:45 ▶  
15:15

**INVITED LECTURE**

**Hepatic stellate cell orchestration of T cells in chronic liver disease**

**LAURA PALLET** (UK)

15:15 ▶  
15:35

**TUTORIAL LECTURE**

**Immune cells characterization**

**ADRIEN GUILLOT** (Germany)

15:35 ▶  
15:45

**Selected oral 9:**

***OLR1+ scar-associated macrophages as a potential therapeutic target for the treatment of chronic liver disease***

*Fabio Colella<sup>1</sup> | Kexin Kong<sup>1</sup> | Eleni Papachristoforou<sup>1</sup> | Jacky Tam<sup>1</sup> | Juliet Luft<sup>1</sup> | Elena F. Sutherland<sup>1</sup> | Stefan Veizades<sup>1,2</sup> | Malgorzata Grzelka<sup>1</sup> | Pak Kwan Qiu<sup>1</sup> | Ayma Asif<sup>1</sup> | Ines Battle<sup>1</sup> | Max Hammer<sup>1</sup> | John R. Wilson-Kanamori<sup>1</sup> | George Finney<sup>3</sup> | Ginerva Pistocchi<sup>3</sup> | Alville Kasarinaite<sup>4</sup> | Gareth-Rhys Jones<sup>1</sup> | Calum C. Bain<sup>1</sup> | Laura J. Pallett<sup>3</sup> | Catalina A. Vallejos<sup>5,6</sup> | Neil C. Henderson<sup>1,7</sup> | David C. Hay<sup>4</sup> | Timothy J Kendall<sup>1,8</sup> | Jonathan A Fallowfield<sup>1</sup> | Prakash Ramachandran<sup>1</sup>*

*1- Centre for Inflammation Research, Institute for Regeneration and Repair, University of Edinburgh, Edinburgh, United Kingdom*

2- Centre for Cardiovascular Science, University of Edinburgh, UK  
 3- Division of Infection and Immunity, Institute of Immunity and Transplantation, University College London, London, United Kingdom  
 4- Centre for Regenerative Medicine, Institute for Regeneration and Repair, University of Edinburgh, Edinburgh, United Kingdom

15:45 ▶  
 15:55

**Selected oral 10:**

***Lysosomal proteolytic imbalance drives autophagy dysregulation influencing liver macrophage phenotype during MASH***

Júlia Cacho-Pujol<sup>1,2,3</sup> | Paloma Ruiz-Blázquez<sup>1,2,3,4</sup>  
 | María Fernández-Fernández<sup>1,2,3,4</sup> | Alejandro del Castillo-Cruz<sup>1,2,3</sup> | Lucía Calderón-Robles<sup>1</sup> | Anna Moles<sup>1,2,4</sup>

1- Instituto de Investigaciones Biomédicas de Barcelona (IIBB-CSIC), Barcelona, Spain 2- IDIBAPS, Barcelona, Spain  
 3- Universidad de Barcelona, Barcelona, Spain 4- CiberEHD, Madrid, Spain

15:55 ▶  
 16:05

**Selected oral 11:**

***Alcohol-induced glycosylation increases neutrophil myeloperoxidase function in alcohol-associated hepatitis***

Marti Ortega-Ribera<sup>1</sup> | Lauren E. Pepi<sup>2</sup> | Prashanth Thevkar Nagesh<sup>1</sup> | Siddharth Ghosh Roy<sup>1</sup> | Richard D. Cummings<sup>2</sup> | AlcHepNet Investigators | Gyongyi Szabo<sup>1,3</sup>

1- Department of Medicine, Division of Gastroenterology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA 2- Department of Surgery, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA 3- Broad Institute, Cambridge, MA, USA

16:05 ▶  
16:20

**Joint discussion** 

16:25 ▶  
17:00



**COFFEE BREAK**

17:05 ▶  
18:40

**SESSION 4: SINUSOIDAL CELL INFLAMMATION & IMMUNE RESPONSE | PART 2**

Chairs:

**GYONGYI SZABO** (USA) &  
**JAVIER CUBERO** (Spain)

17:05 ▶  
17:35

**INVITED LECTURE**

**MNPs in liver diseases**

**CHARLOTTE SCOTT** (Belgium)

17:35 ▶  
17:45

**Selected oral 12:**

***The arginine methyltransferase CARM1 as a novel potential therapeutic target in hepatocellular carcinoma***

*Elena Adán-Villaescusa<sup>1</sup> | Jasmin Elurbide<sup>1,2</sup> | Amaya López-Pascual<sup>1,3</sup> | Borja Castelló-Uribe<sup>1</sup> | Maialen Lizasoain-Echeverz<sup>1</sup> | Iker Uriarte<sup>1,2</sup> | Maria Ujue Latasa<sup>1</sup> | Emiliana Valbuena-Goiricelaya<sup>1</sup> | Miriam Belzunce<sup>1</sup> | Roberto Barbero<sup>1,2</sup> | Bruno Sangro<sup>2,3,4</sup> | Maria Arechederra<sup>1,2,3</sup> | Carmen Berasain<sup>1,2</sup> | Mark T Bedford<sup>5</sup> | Veronica Gibaja<sup>6</sup> | Matias A Avila<sup>1,2,3</sup> | Maite G. Fernández-Barrena<sup>1,2,3</sup>*

*1- Hepatology Laboratory, Solid Tumors Program, CIMA, CCUN, University of Navarra, Pamplona, Spain. 2- CIBERehd, Instituto de Salud Carlos III, Madrid, Spain 3- Instituto de Investigaciones Sanitarias de Navarra IdiSNA, Pamplona, Spain. 4- Hepatology*

Unit, CCUN, Navarra University Clinic, Pamplona, Spain.

**5-** Department of Epigenetics and Molecular Carcinogenesis, The University of Texas MD Anderson Cancer Center, Houston, TX, USA. **6-** Ipsen Biopharmaceuticals, EPIZYME, Cambridge, Massachusetts, USA.

17:45  
17:55



### Selected oral 13:

#### **Cell-specific roles of SUCNR1 in shaping sinusoidal immunity and inflammation in MASLD-related hepatocellular carcinoma**

Laura Salmerón-Pelado<sup>1,2,3</sup> | Victòria Ceperuelo-Mallafre<sup>1,2,3</sup> | Anna Marsal-Beltran<sup>1,2,3</sup> | M-Mar Rodríguez-Peña<sup>1,2</sup> | Esther Bertran<sup>4,5</sup> | Isabel Fabregat<sup>4,5</sup> | María Fernández-Fernández<sup>5,6,7,8</sup> | Ana Moles<sup>5,6,7,8</sup> | Joan Vendrell<sup>1,2,3</sup> | Sonia Fernández-Veledo<sup>1,2,3</sup>

**1-** DIAMET Research Unit. University Hospital of Tarragona Joan XXIII, Pere Virgili Health Research Institute (IISPV), Tarragona, Spain. **2-** CIBER de Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM) - Instituto de Salud Carlos III, Madrid, Spain. **3-** Rovira i Virgili University, Tarragona, Spain.

**4-** TGFβ and Cancer Group, Oncobell Program, Bellvitge Biomedical Research Institute, L'Hospitalet de Llobregat, Barcelona, Spain **5-** CIBER de Enfermedades Hepáticas y Digestivas (CIBEREHD) - Instituto de Salud Carlos III, Madrid, Spain **6-** Institute of Biomedical Research of Barcelona, Spanish National Research Council, Barcelona, Spain. **7-** University of Barcelona, Barcelona, Spain. **8-** IDIBAPS, Barcelona, Spain.

17:55 ▶  
18:05

### Selected oral 14:

#### ***CXCR3+ monocyte-derived macrophages drive congestive portal hypertension via glycolysis-dependent thromboxane A2 synthesis: an integrated multi-omics and mechanistic study***

Papawee Sutthirat<sup>1</sup> | Sofia Jerez Ortega<sup>1</sup> | Nidhi Jalan Sakrikar<sup>1</sup> | Vijay H. Shah<sup>1</sup> | Moira B. Hilscher<sup>1</sup>

<sup>1</sup>- Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester MN, USA

18:05 ▶  
18:25

### TUTORIAL LECTURE

#### **Immunometabolism in MASLD: from spatial omics to human models**

**OLIVIER GOVAERE** (Belgium)

18:25 ▶  
18:40

### Joint discussion

### **FREE EVENING FOR ATTENDEES**

**MONDAY**

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**25th MAY**

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08:30 ▶  
10:25

## SESSION 5: STELLATE CELL BIOLOGY AND FIBROSIS | PART 1

Chairs:

**NORIFUMI KAWADA** (Japan) &  
**ANA BLAS-GARCÍA** (Spain)

08:30 ▶  
09:00

## INVITED LECTURE

### Advances in HSCs pathobiology

**ROBERT SCHWABE** (USA)

09:00 ▶  
09:20

## TUTORIAL LECTURE

### Study of the extracellular matrix in CLD

**ERIC FELLI** (Switzerland)

09:20 ▶  
09:30

## Selected oral 15:

### ***Role for Endokyne-1 in LSEC-HSC communication and its association with advanced chronic liver disease***

Ana Martínez-Alcocer<sup>1,2</sup> | Alejandro Hionides-Gutiérrez<sup>2,3</sup> | Laia Abad-Jordà<sup>1,2</sup> | Peio Aristu-Zabalza<sup>1</sup> | María Andrés-Rozas<sup>1</sup> | Adrien Guillot<sup>4</sup> | Frank Tacke<sup>4</sup> | Francisco Javier Cubero<sup>2,3</sup> | Jordi Gracia-Sancho<sup>1,2,5,6\*</sup> | Anabel Fernández-Iglesias<sup>1,2,6\*</sup>

**1-** Liver Vascular Biology Research Group, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain. **2-** Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas (CIBEREHD), Madrid, Spain. **3-** Department of Immunology, Ophthalmology and ENT, Complutense University School of Medicine, Madrid, Spain. **4-** Charité-Universitätsmedizin Berlin, Department of Hepatology

& Gastroenterology, Berlin, Germany. **5-** Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland. **6-** Liver Research Unit, IRBCatSud Institute, Tarragona, Spain

09:30 ▶  
09:40

### Selected oral 16:

#### **Tumor-promoting CYP1B1+Lrat+Fbln2+ hepatic stellate cells in HCC**

Hye Yeon Choi | Yoann L Daniel | Sonal Sinha  
| Alexander Rialdi | Stephanie Pan | Yixin Bai  
| Qihong Yang | Ernesto Guccione | Hidekazu  
Tsukamoto

**1-** University of Southern California **2-** Icahn School of Medicine at Mount Sinai **3-** Department of Veterans Affairs, Greater Los Angeles Healthcare System, USA

09:40 ▶  
09:50

### Selected oral 17:

#### **Beta-arrestin-2-mediated hepatocyte-HSC interaction promotes HSC activation and fibrogenesis**

Robert Schierwagen<sup>1</sup> | Peter Dietrich<sup>2</sup> | Sabine Klein<sup>1</sup> | Frank Erhard Uschner<sup>1</sup> | Richard Premont<sup>3</sup> | Johanne Poisson<sup>4</sup> | Pierre-Emmanuel Rautou<sup>4</sup> | Glen Kristiansen<sup>5</sup> | Jordi Gracia-Sancho<sup>6</sup> | Marko Poglitsch<sup>7</sup> | Christian Kurts<sup>8</sup> | Thomas Walther<sup>9</sup> | Zeinab Abdullah<sup>8</sup> | Mercedes Fernandez<sup>10</sup> | Richard Moreau<sup>11, 12</sup> | Krista Rombouts<sup>13</sup> | Wolfgang Kastenmüller<sup>14</sup> | Anna Mae Dieh<sup>13</sup> | David Brenner<sup>15</sup> | Jonel Trebicka<sup>1, 12</sup>

**1-** University of Muenster, Department of Internal Medicine B, Muenster, Germany **2-** Friedrich-AlexanderUniversity Erlangen-Nürnberg, Institute of Biochemistry, Friedrich-Alexander University Erlangen- Nürnberg, University Hospital Erlangen, Department of

Medicine 1, Erlangen, Germany **3-** Duke University, Department of Medicine, Division of Gastroenterology, Durham, United States **4-** Paris Descartes University, Paris Cardiovascular Research Center, Paris, France **5-** University of Bonn, Institute of Pathology, Bonn, Germany, **6-** Liver Research Unit, IRBCatSud Institute, CIBEREHD, Tarragona, Spain **7-** Attoquant Diagnostics GmbH, Vienna, Austria **8-** University of Bonn, Institute of Molecular Medicine and Experimental Immunology, Bonn, Germany **9-** University College Cork, Department of Pharmacology and Therapeutics, Cork, Ireland **10-** IDIBAPS Biomedical Research Institute, Barcelona, Spain **11-** Université Paris Diderot-Paris 7, Centre de Recherche sur l'Inflammation (CRI), Paris, France **12-** European Foundation for the Study of Chronic Liver Failure (EF CLIF), Barcelona, Spain **13-** University College London, Institute for Liver and Digestive Health, London, United Kingdom **14-** University Würzburg, Würzburg Institute of Systems Immunology, Max-Planck Research Group, Würzburg, Germany **15-** University of California San Diego School of Medicine, Department of Medicine, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, USA

09:50 ▶  
10:10

### INVITED LECTURE

#### HSCs metabolic reprogramming in CLD

**RUBÉN NOGUEIRAS** (Spain)

10:10 ▶  
10:25

#### Joint discussion

10:30 ▶  
11:55



#### COFFEE BREAK & POSTER VIEWING (POSTERS 29-42)

See page 53 for the e-Posters.

12:00 ▶  
13:20**SESSION 6: STELLATE CELL BIOLOGY AND FIBROSIS | PART 2**

Chairs:

**ANTONY WHEATLEY** (Ireland) &  
**SONIA FERNÁNDEZ-VELEDO** (Spain)12:00 ▶  
12:30**INVITED LECTURE****Cancer-associated fibroblasts in CCA****SILVIA AFFO** (Spain)12:30 ▶  
12:40**Selected oral 18:*****Role of myeloid cell-derived MAP3K8 in preclinical ALD and MetALD***

Alejandro H. Gutierrez<sup>1,2</sup> | Sara García-Fernández<sup>1,2</sup>  
 | Javier Vaquero<sup>3,4,5</sup> | Rafael Bañares<sup>3,4,5</sup> | Rocío Gallego-Durán<sup>3,8</sup>  
 | Anabel Fernández-Iglesias<sup>3,6</sup> | Jordi Gracia-Sancho<sup>3,6,7</sup> | Douglas Maya-Miles<sup>3,8</sup>  
 | Javier Ampuero<sup>3,8</sup> | Manuel Romero-Gómez<sup>3,8</sup>  
 | Bruno Ramos-Molina<sup>9</sup> | Yulia A. Nevzorova<sup>1,2,3,4</sup> | Carlos Sanz García<sup>1</sup> | Francisco Javier Cubero<sup>1,2,3,4</sup>

**1-** Department of Immunology, Ophthalmology & ORL, Complutense University of Madrid, Madrid, Spain **2-** Institute for Research in Neurochemistry (IUIN), Complutense University of Madrid, Madrid, Spain **3-** Centre for Biomedical Research, Network on Liver and Digestive Diseases (CIBEREHD), Madrid, Spain **4-** Servicio de Aparato Digestivo, Hospital General Universitario Gregorio Marañón, Madrid, Spain **5-** Health Research Institute Gregorio Marañón (IiSGM), Madrid, Spain **6-** Liver Research Unit, IRBCatSud Institute, Tarragona, Spain **7-** Hepatology, Department of Biomedical Research, University of Bern, Bern, Switzerland. **8-** Instituto de Biomedicina de Sevilla, IBIS/Hospital Universitario Virgen del Rocío/CSIC/Universidad de

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Sevilla, Sevilla, Spain <sup>9</sup>-Laboratorio de Obesidad y Metabolismo,  
Instituto de Investigación Biomédica de Murcia (IMIB-Arrixaca),  
Murcia, Spain

12:40 ▶  
12:50

### Selected oral 19:

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#### ***The non-transcriptional activity of IRF3 induces profibrotic cytoplasmic stress granules***

Jared Travers | Yingting Zhang | Emily Huang |  
Megan R. McMullen | Laura E Nagy

<sup>1</sup>- Department of Inflammation and Immunity, Cleveland Clinic  
Research, Cleveland Clinic, Cleveland, OH, USA

12:50 ▶  
13:10

### INVITED LECTURE

#### **Novel approaches to target liver fibrosis. The protective role of cytoglobin in liver pathology: from molecular mechanism to clinical application**

**NORIFUMI KAWADA** (Japan)

13:10 ▶  
13:25

### Joint discussion

13:30 ▶  
15:15



### **LUNCH & POSTER VIEWING**

**(POSTERS 43-56)**

See page 61 for the e-Posters.

15:30 ▶

**DEPARTURE  
TO SOCIAL ACTIVITY**

*Small-group guided tours led by professional historians to explore the UNESCO World Heritage Site of ancient Tarraco (90 min). Comfortable shoes recommended!*

20:00 ▶

**GALA DINNER  
@ CASA JOAN MIRET**

*Enjoy a Mediterranean dinner in a bourgeois garden house from the 19th century, while honouring five decades of discovery and the global community that made it possible.*

**TUESDAY**

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**26th MAY**

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09:00 ▶  
11:00

**SESSION 7: SINUSOIDAL CELL CROSSTALK WITH OTHER CELLS AND ORGANS**

Chairs:

**NIDHI JALAN** (USA) &  
**SERGI GUIXÉ-MUNTET** (Spain)

09:00 ▶  
09:30

**INVITED LECTURE**

**Cognitive impairment in early-stage chronic liver disease: the role of the liver-brain axis**

**ANNA HADJIHAMBI** (UK)

09:30 ▶  
09:40

**Selected oral 20:**

***Platelet-derived factors enhance hepatic endothelial fenestration and reduce early metabolic liver diseases***

*Maxime Borret<sup>1\*</sup> | Marie Bellio<sup>1\*</sup> | Alicia Vauclard<sup>1</sup> | Mathilde Miquel<sup>1</sup> | Claire Congnet<sup>1</sup> | Arnaud Polizzi<sup>2</sup> | Gaëtan Chicanne<sup>1</sup> | Emma Lefrancais<sup>3</sup> | Elodie Riant<sup>1</sup> | Isabelle Fourquaux<sup>4</sup> | Anne Abot<sup>5</sup> | Claude Knauf<sup>6</sup> | Laetitia Pieruccioni<sup>7</sup> | Mathieu Vigneau<sup>7</sup> | François Briand<sup>8</sup> | Thierry Sulpice<sup>8</sup> | Laurence Gamet-Payraastre<sup>2</sup> | Philippe Valet<sup>7</sup> | Hervé Guillou<sup>2</sup> | Jean-Philippe Pradère<sup>7</sup> | Bernard Payraastre<sup>1,9</sup> | Sonia Severin<sup>1</sup>*

*1- Institut des Maladies Métaboliques et Cardiovasculaires, Inserm U1297, Université de Toulouse, Université Toulouse III - Paul Sabatier, Toulouse, France 2- Toxalim (Research Centre in Food Toxicology), INRAE, ENVT, INP-Purpan, Université de Toulouse, Université Toulouse III - Paul Sabatier, Toulouse, France 3- Institut de Pharmacologie et de Biologie Structurale, CNRS U5089, Université de Toulouse, Université Toulouse III - Paul Sabatier, Toulouse, France 4- Centre de Microscopie Electronique Appliquée à la Biologie, Université de Toulouse, Université*

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de Toulouse, Université Toulouse III - Paul Sabatier, Faculté de Médecine Rangueil, Toulouse, France **5-** Enterosys SAS, Labège, France **6-** Institut de Recherche en Santé Digestive, Inserm U1220, Université de Toulouse, Université Toulouse III - Paul Sabatier, Toulouse, France **7-** RESTORE, Inserm U1301, CNRS 5070, Université de Toulouse, Université Toulouse III - Paul Sabatier, EFS, ENVT, Toulouse, France **8-** Physiogenex SAS, Escalquens, France **9-** Laboratoire Hématologie, Centre Hospitalier Universitaire Rangueil, Toulouse, France ; \* equal contribution

09:40 ►

## **Selected oral 21:**

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09:50

### **Multi-omic mapping of endothelial plasticity reveals fibrosis-associated endothelial cell subpopulations involved in chronic liver disease**

Gkantsinikoudi C<sup>1</sup> | Dignam J<sup>1</sup> | Kumar R<sup>2</sup> | Jokl E<sup>3</sup> | Kendall TJ<sup>4</sup> | Li W<sup>2</sup> | Samus M<sup>1</sup> | Rot A<sup>1</sup> | Fallowfield JA<sup>4</sup> | Piper Hanley K<sup>3</sup> | Alazawi W<sup>2</sup> | Dufton N<sup>1</sup>

**1-** William Harvey Research Institute **2-** Blizzard Institute, Queen Mary University London **3-** University of Manchester **4-** Centre for Inflammation Research, Institute for Regeneration and Repair, University of Edinburgh, UK

09:50 ►

## **Selected oral 22:**

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10:00

### **Efficacy of a liver targeting oral quantum dot formulation of human growth hormone**

Glen Lockwood | Harrison Ross | Keanu Harris | Sophie Kang | Meng Ngu | David Le Couteur | Nicholas Hunt | Victoria Cogger

**1-** ANZAC Research Institute, Centre for Education and Research on Aging, Sydney Local Health District and Faculty of Medicine and Health, The University of Sydney, Australia

10:00 ▶  
10:10

**Selected oral 23:**

**High-shear driven PIEZO1-Rho/ROCK signalling impairs sinusoidal endothelial integrity and contributes to acute portal hypertension**

Rajni Yadav<sup>1</sup> | Vaibhav Tiwari<sup>1</sup> | Himanshi<sup>1</sup> | Aishwarya Bhatnagar<sup>1</sup> | Akash Kumar Mourya<sup>2</sup> | Savneet Kaur<sup>1</sup> | Raj Kumar Tulsawani<sup>3</sup> | Umesh Chand Singh Yadav<sup>4</sup> | Prem Prakash<sup>5</sup> | Shiv Kumar Sarin<sup>1,6</sup> | Dinesh Mani Tripathi<sup>7</sup>

1- Institute of Liver and Biliary Sciences, Delhi 2- National Institute of Pharmaceutical Education and Research (NIPER), Mohali 3- Defence Institute of Physiology & Allied Sciences (DIPAS), DRDO, Delhi 4- Jawahar Lal Nehru University, JNU, New Delhi 5- Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi 6- Department of Hepatology, ILBS, Delhi, India

10:10 ▶  
10:40

**ISHSR PRESIDENT-ELECT KEYNOTE LECTURE**

**Fibroblast growth factor family molecules in liver pathophysiology**

**KENICHI IKEJIMA** (Japan)

10:40 ▶  
10:55

**Joint discussion** 

11:00 ▶  
12:15

 **COFFEE BREAK & POSTER VIEWING**  
**(POSTERS 57-70)**

See page 69 for the e-Posters.

12:20 ▶  
13:30

## **INTERNATIONAL CONSENSUS ON THE USE OF PCLS FOR TRANSLATIONAL LIVER RESEARCH**

Chairs:

**ELENA PALMA** (UK) &  
**JORDI GRACIA-SANCHO** (Spain)

### **Precision-cut liver slices in liver research: current practice and applications**

**PETER OLINGA** (The Netherlands)

### **Establishing standards: the PCLS consensus initiative**

**JELENA MANN** (UK)

### **Advancing the field: key findings and future directions in PCLS research**

**ELENA PALMA** (UK)

13:30 ▶  
13:45

## **AWARDS AND CLOSING**

14:00 ▶  
15:30



## **FAREWELL LUNCH**

16:00 ▶

## **BUS DEPARTURE TO BARCELONA**

# ABSTRACTS SELECTED FOR E-POSTER PRESENTATION

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**POSTERS 1-14**

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**MAY 24th**

🕒 10:30 ▶ 11:45

<p><b>P1</b></p>	<p><b>Porto-sinusoidal vascular disease: developing a murine model to improve understanding of its pathophysiology</b></p> <p>Lise Bertin   Pierre-Emmanuel Rautou</p> <p><i>Equipe Rautou, CRI, INSERM U1149, faculté de médecine site Bichat, Paris, France</i></p>
<p><b>P2</b></p>	<p><b>Epithelial STING signaling mediates neutrophil infiltration in cholestatic liver disease</b></p> <p>Abid Anwar   Maleeha Kalaiger   Sofia Jerez Ortega   Usman Yaqoob   Zhensheng Zhang   Purnima Tyagi   Mobin Mokbul   Ice Sutthirat   Moira Hilscher   Robert C. Huebert   Nidhi Jalan-Sakrikar</p> <p><i>Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, MN, USA</i></p>
<p><b>P3</b></p>	<p><b>Comparing the intrahepatic effects of carvedilol and simvastatin in experimental liver cirrhosis</b></p> <p>Yeldos Nulan<sup>1,2,3</sup>   Eric Felli<sup>2,3</sup>   Cong Wang<sup>2,3</sup>   Sonia Emilia Selicean<sup>2,3</sup>   Manuel Prampolini<sup>1,2,3</sup>   Annalisa Berzigotti<sup>2,3</sup>   Jordi Gracia-Sancho<sup>2,3,4</sup>   Jaime Bosch<sup>2,3</sup></p> <p><i>1- Graduate School for Cellular and Biomedical Sciences (GCB), University of Bern, Bern, Switzerland. 2- Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland. 3- Department for BioMedical Research, Hepatology, University of Bern, Bern, Switzerland. 4- Liver Research Unit, IRBCatSud Research Institute, CIBEREHD, Tarragona, Spain</i></p>

<p><b>P4</b></p>	<p><b>Bioengineering vascularized human microlivers for malaria infection</b></p> <p>Ines Geraldes<sup>1</sup>   Judit González-Gallego<sup>1</sup>   Eliana Coelho Real<sup>2</sup>   Jerome Wong<sup>2</sup>   Silvia Sender<sup>1</sup>   Dennis Crusius<sup>1</sup>   Samy Gobaa<sup>2</sup>   Liliana Mancio-Silva<sup>2</sup>   Maria Bernabeu<sup>1</sup></p> <p><i>1- EMBL Barcelona, Spain 2- Institut Pasteur, France</i></p>
<p><b>P5</b></p>	<p><b>Pressure-induced endothelial fibulin-7 modulates HSC phenotype and lowers portal pressure in experimental cirrhosis</b></p> <p>Raül Pastó<sup>1</sup>   Albert Cibert-Ramos<sup>1</sup>   Peio Aristu-Zabalza<sup>1,2</sup>   Anabel Fernández-Iglesias<sup>1</sup>   Sergi Guixé-Muntet<sup>1</sup>   Jordi Gracia-Sancho<sup>1,3</sup></p> <p><i>1- Liver Vascular Biology Lab, IDIBAPS - Hospital Clínic Barcelona - CIBEREHD, Barcelona, Spain 2- Barcelona Liver Bioservices SL, Barcelona, Spain 3- Liver Research Unit, IRBCatSud Research Institute, CIBEREHD, Tarragona, Spain</i></p>
<p><b>P6</b></p>	<p><b>Redox homeostasis in liver fibrosis: the Keap1/Nrf2 axis</b></p> <p>Adriana De Bonis<sup>1,2</sup>   Alejandro Hionides-Gutierrez<sup>1,2</sup>   Sara García-Fernández<sup>1,2</sup>   Iván Estévez-Benito<sup>1</sup>   Francisco Javier Cubero<sup>1,2,3,4</sup>   Magdalena Leiva<sup>1,2,3</sup></p> <p><i>1- Department of Immunology, Ophthalmology &amp; ENT, Complutense University School of Medicine, Madrid, Spain 2- Instituto Universitario de Neuroquímica (IUIIN), Complutense University School of Medicine, Madrid, Spain 3- Instituto de Investigación Sanitaria Gregorio Marañón (IISGM), Madrid, Spain 4- Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas (CIBEREHD), Madrid, Spain</i></p>

**P7****Microfluidic human liver slices reveal antifibrotic effects of liraglutide via HSC deactivation and ECM remodeling**

María Andrés-Rozas<sup>1,2,3</sup> | Peio Aristu-Zabalza<sup>1,2,3</sup> | Gabriela Chullo<sup>4</sup> | Guofeng Liu | Yiliam Fundora<sup>4</sup> | Rosa Villa<sup>5,6</sup> | Anabel Fernández-Iglesias<sup>1,7</sup> | Sergi Guixé-Muntet<sup>1,7</sup> | Jordi Gracia-Sancho<sup>1,2,7,8</sup>

*1- Liver Vascular Biology Research Group, IDIBAPS, Barcelona, Spain 2- Barcelona Liver Bioservices, Barcelona, Spain 3- Facultat de Medicina i Ciències de la Salut, Universitat de Barcelona (UB) 4- Liver Transplant Unit, General Surgery Department, Hospital Clínic de Barcelona, Barcelona, Spain 5- Instituto de Microelectrónica de Barcelona, IMB-CNM (CSIC), Campus UAB, Bellaterra, Spain 6- Centro de Investigación Biomédica en Red de Bioingeniería, Biomateriales Nanomedicina (CIBERBBN), Instituto de Salud Carlos III, Spain 7- Centro de Investigación Biomédica en Red en Enfermedades Hepáticas Digestivas (CIBEREHD), Instituto de Salud Carlos III, Madrid, Spain. 8- Liver Research Unit, IRBCatSud Research Institute, Tarragona, Spain*

**P8****Knockout of miR-92a and LNA-miR-92a treatments are promising therapies against MASLD progression and portal hypertension**

Philipp Stephan Althaus<sup>1</sup> | Sara Zarei<sup>1</sup> | Stefanie Dimmeler<sup>2</sup> | Jonel Trebicka<sup>1,3</sup> | Sabine Klein<sup>1</sup>

*1- University Hospital Münster, Internal Medicine B, Germany 2- Goethe-University Frankfurt a.M. Institute of Cardiovascular Regeneration, Germany 3- European Foundation for the Study of Chronic Liver Failure-EF Clif, Spain*

<p><b>P9</b></p>	<p><b>Constitutive MAS1 G protein-coupled receptor participates in the pathogenesis of liver fibrosis</b></p> <p>Philipp Stephan Althaus<sup>1</sup>   Fernando Magdaleno<sup>2</sup>   Robert Schierwagen<sup>1</sup>   Frank Erhard Uschner<sup>1</sup>   Maximilian Joseph Brol<sup>1</sup>   Thomas Walther<sup>3</sup>   Jonel Trebicka<sup>1, 4</sup>   Sabine Klein<sup>1</sup></p> <p><i>1- Department of Internal Medicine B, University Clinic Münster, Münster, Germany 2- Epistem Limited, 48 Grafton Street, Manchester, UK 3- Department of Pharmacology and Therapeutics, University College Cork, Cork, Ireland 4- European Foundation for the Study of Chronic Liver Failure, Barcelona, Spain</i></p>
<p><b>P10</b></p>	<p><b>Lipidomic analysis reveals mechanisms of lipid regulation by the retinoic acid pathway via the retinoic acid receptor beta</b></p> <p>Marta Melis<sup>1</sup>   Qiuying Chen<sup>1</sup>   Xiao-Han Tang<sup>1</sup>   Lihui Qin<sup>2</sup>   Lorraine J Gudas<sup>1</sup></p> <p><i>1- Department of Pharmacology, Weill Cornell Medicine, New York, NY 2- Department of Pathology, New York Presbyterian Hospital, Weill Cornell Medicine, New York, NY, USA</i></p>
<p><b>P11</b></p>	<p><b>RNA-based CRISPR/Cas9-mediated genetic modification of the copper transporter ATP7B in Wilson disease</b></p> <p>Moritz Marciniak<sup>1</sup>   Andree Zibert<sup>1</sup>   Oksana Nadzemova<sup>1</sup>   Hartmut HJ Schmidt<sup>2</sup>   Phil-Robin Tepassee<sup>1</sup>   Jonel Trebicka<sup>1</sup>   Vanessa Sandfort<sup>1</sup></p> <p><i>1- University Clinic Münster, Germany 2- University Clinic Essen, Germany</i></p>

**P12****Hepatic stellate cell-associated microRNAs as potential predictors for fibrosis staging in chronic liver disease**

Alejandro del Castillo-Cruz <sup>1,2,3</sup> | Julia Cacho-Pujol<sup>1,2,3</sup> |  
Lucia Calderón-Robles <sup>1</sup> | Núria Benitez-Paredes<sup>1</sup> |  
Paloma Ruiz-Blázquez <sup>1,2,3,4</sup> | María Fernández-  
Fernández <sup>1,2,3,4</sup> | Anna Moles <sup>1,2,4</sup>

*1- Instituto de Investigaciones Biomédicas de Barcelona (IIBB-CSIC), Barcelona, Spain 2- IDIBAPS, Barcelona, Spain 3- UB, Barcelona, Spain 4- CiberEHD, Madrid, Spain*

**P13****Biophysical and biochemical differences between human and rodent Stabilin-1 and Stabilin-2**

Edward N Harris | Abby E. Bopp | Linda B. Fatumaju

*University of Nebraska, USA*

**P14****Endothelial forkhead box O1 (FoxO1) signalling in acute decompensation and acute-on-chronic liver failure: evidence from in vivo models and in vitro exposure to patient plasma**

Fabian Schachteli <sup>1</sup> | Sabine Klein <sup>1,2</sup> | Maximilian  
Joseph Brol <sup>1,2</sup> | Robert Schierwagen <sup>1,2</sup> | Pia Lembeck <sup>1</sup> |  
Sara Noemi Reinartz Groba <sup>1</sup> | Wenyi Gu<sup>1,2</sup> | Christoph  
Welsch <sup>2</sup> | Jonel Trebicka <sup>1,2,3</sup> | Frank Erhard Uschner <sup>1,2</sup>

*1- University Hospital Münster, Münster, Germany 2- Hospital of the Goethe University Frankfurt, Frankfurt am Main, Germany 3- European Foundation for the Study of Chronic Liver Failure, Barcelona, Spain*

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# POSTERS 15-28

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**MAY 24th**

🕒 13:10 ▶ 14:40

**P15****LSEC targeted oral nanotherapeutics for prevention of type 1 diabetes in NOD mice**

Nicholas Hunt | Jarrod Kennedy | David Le Couteur | Victoria Cogger

*The University of Sydney and the ANZAC Research Institute, NSW Health, Sydney, Australia***P16****RORA agonism reprograms cancer-associated fibroblasts and remodels the tumor microenvironment in intrahepatic cholangiocarcinoma**Sererols Viñas L.<sup>1</sup> | Cantallops Vilà P.<sup>1</sup> | Garcia-Vicién G.<sup>1</sup> | Cárcamo Giráldez C.<sup>1</sup> | Zanoni M.<sup>2</sup> | Paes V.G.<sup>3</sup> | Zampato C.<sup>1</sup> | Martínez-García de la Torre R. A.<sup>4</sup> | Lapitz A.<sup>5,6</sup> | Val B.<sup>5</sup> | Rodrigues P. M.<sup>5,6,7</sup> | Forner A.<sup>8</sup> | Bañales J. M.<sup>5,6,7,9</sup> | Sancho-Bru P.<sup>6,10</sup> | Affò S.<sup>1</sup>

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<p><b>P17</b></p>	<p><b>Fibrosis reduction without portal hypertension improvement: Steatosis-induced sinusoidal compression in advanced MASLD treated with Atorvastatin/Ambrisentan</b></p> <p>M Serra Cusidó <sup>1,2</sup>   Imma Raurell <sup>1,2,3,4</sup>   María Martínez-Gómez<sup>1,2,4</sup>   Eduard Mas-Carrió <sup>1,3</sup>   Juan M. Pericàs <sup>1,2,3,4</sup>   María Martell<sup>1</sup>   Joan Genescà<sup>1,2,3,4</sup></p> <p><i>1- Liver Disease Group, Vall d'Hebron Research Institute, Barcelona 2- Universitat Autònoma de Barcelona 3- Liver Unit, Area of Digestive Diseases, Hospital Universitari Vall d'Hebron, Barcelona 4- Spanish Network of Biomedical Research Centers, Liver and Digestive Diseases (CIBEREHD), Spain</i></p>
<p><b>P18</b></p>	<p><b>Portal microbial translocation and hepatic pattern recognition receptor expression in steatotic liver disease</b></p> <p>Akira Uchiyama   Kazuyoshi Kon   Shunhei Yamashina, Kenichi Ikejima</p> <p><i>Department of Gastroenterology, Juntendo University School of Medicine, Tokyo, Japan</i></p>
<p><b>P19</b></p>	<p><b>Oxidized LDL is a distinctive biomarker of MASH independently of liver fibrosis in patients with MASLD</b></p> <p>Carola Zurita-Palomo<sup>1,2</sup>   Rocío Gallego-Durán<sup>1,2</sup>   Helena Pastor-Ramírez<sup>1,2</sup>   Paloma Carrillo<sup>1</sup>   Douglas Maya-Miles<sup>1,2</sup>   Rocío Muñoz<sup>1,2</sup>   María Teresa Arias-Loste<sup>3</sup>   Águeda González-Rodríguez<sup>4</sup>   M<sup>a</sup> Carmen Rico<sup>1,2</sup>   Sheila Gato<sup>1,2</sup>   Ángela Rojas<sup>1,2</sup>   Antonio Gil-Gómez<sup>1,2</sup>, Javier Crespo<sup>3</sup>   Jesús Bañales<sup>5</sup>   Carmelo García Monzón<sup>4</sup>   Manuel Romero-Gómez<sup>1,2</sup>   Javier Ampuero<sup>1,2</sup></p> <p><i>1- Hospital Universitario Virgen del Rocío, Sevilla. Instituto de Biomedicina De Sevilla (IBiS). Universidad de Sevilla. Spain 2- Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas (CIBEREHD), Spain</i></p>

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## **P20** **Effect of statins on extracellular vesicles (EVs) in metabolic dysfunction-associated steatotic liver disease (MASLD)**

**Sheila Gato-Zambrano<sup>1,2</sup> | Vanessa García-Fernández<sup>1,2</sup> | Antonio Gil-Gómez<sup>1,2,3</sup> | Ángela Rojas<sup>1,2</sup> | Carmen Lara<sup>1,2,4</sup> | Manuel Romero Gómez<sup>1,2,3,4</sup> | Rocío Muñoz-Hernández<sup>1,2,3</sup>**

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## **P21** **A bioengineered portal vein microvessel platform for mechanistic and therapeutic studies in portal vein thrombosis**

**Aina Anton<sup>1,2,3</sup> | Inês Geraldes<sup>4</sup> | Silvia Sanz<sup>4</sup> | Genís Campreciós<sup>1,2</sup> | Sarah Shalaby<sup>1,2</sup> | Annabel Blasi<sup>5</sup> | Yiliam Fundora<sup>6</sup> | Rosa Montañés<sup>1,3</sup> | Héctor García-Calderó<sup>1,2</sup> | Hasanka Madubashetha<sup>1,3</sup> | Joan Carles García-Pagán<sup>1,2,3</sup> | Maria Bernabeu<sup>4</sup> | Virginia Hernández-Gea<sup>1,2,3</sup>**

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<p><b>P22</b></p>	<p><b>Stratified analysis of visceral adiposity with metabolic phenotype reveals distinct microbiota and circulatory transcriptomic signatures in MASLD</b></p> <p>Wei-Ting Wang   Yi-Hsuan Lin, Jhen-Wei Ruan   Pei-Chen Chen   Chian-Feng Chen   Hsiao-Yun Yeh, Hsiao-Chin Shen   Chien-Yi Tung   Ya-Yuan Chang   Hung-Cheng Tsai   Tzu-Hao Li   Chien-Wei Su   Ying-Ying Yang   Ming-Chih Hou</p> <p>Taipei Veterans General Hospital</p>
<p><b>P23</b></p>	<p><b>PTP1B inhibition protects against cholestasis by shifting immune cell recruitment and enhancing proliferation of liver progenitor cells</b></p> <p>Silvia Calero-Pérez<sup>1,2</sup>   M. Pilar Valdecantos<sup>1,2</sup>   Rubén Grillo-Grisco<sup>3</sup>   Francisco García-García<sup>3</sup>   Ángela M. Valverde<sup>1,2</sup></p> <p>1- Institute of Biomedical Research Sols-Morreale (CSIC-UAM), Madrid, Spain 2- Centro de Investigación Biomédica en Red de Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM, ISCIII), Madrid, Spain 3- Príncipe Felipe Research Center (CIPF), Valencia, Spain</p>
<p><b>P24</b></p>	<p><b>Epigenetic control of MASH-driven hepatocarcinogenesis by the histone methyltransferase G9a</b></p> <p>Ainara Irigaray-Miramón<sup>1</sup>   Amaya Lopez-Pascual<sup>2,3</sup>   Borja Castelló-Urbe<sup>1</sup>   Roberto Barbero López<sup>1,4</sup>   Elena Adan-Villaescusa<sup>1</sup>   Jasmin Elurbide<sup>1,4</sup></p>

Emiliana Valbuena-Goiricelaya <sup>1</sup> | Maria Ujue Latasa <sup>1</sup> | Iker Uriarte <sup>1,4</sup> | Maialen Lizasoain-Echeverz <sup>1</sup> | Miriam Belzunce <sup>1</sup> | Maria Arechederra <sup>1,3,4</sup> | Josepmaria Argemi <sup>2,3,4,5</sup> | Bruno Sangro <sup>2,3,4</sup> | Carmen Berasain <sup>1,4</sup> | Matias A Avila <sup>1,3,4</sup> | Maite G. Fernandez-Barrena <sup>1,3,4</sup>

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## **P25** PKD2 deficiency in hepatocytes ameliorates acetaminophen (APAP)-induced acute liver injury

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## **P26** miR-122 deficiency in mice enhances regeneration in physiological conditions but impairs repair in fibrotic liver

Jordi Ribera<sup>1</sup> | Anna Cardona-Simó<sup>1</sup> | Irene Portolés<sup>1</sup> | Aleix Fabregat<sup>1</sup> | Pedro Melgar-Lesmes<sup>1,2</sup> | Gregori Casals<sup>1,3</sup> | Wladimiro Jiménez<sup>1,2</sup> | Manuel Morales-Ruiz<sup>1,2</sup>

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<b>P27</b>	<b>Spontaneous resolution of chronic immune responses in a long-term MHC-mismatched mouse liver transplant model</b>  Keiko Iwaisako  <i>Doshisha University, Kyoto, Japan</i>
<b>P28</b>	<b>TRIB3 promotes drug-induced liver injury by mediating PRDX1 degradation</b>  Nan Jiang   Meng-Chao Xiao   Xin Zhang   Wei-fen Xie  <i>1- Department of Gastroenterology, Shanghai East Hospital, School of Medicine, Tongji University, Shanghai 200092, China 2- Department of Gastroenterology, Changzheng Hospital, Naval Medical University, Shanghai, China</i>

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# POSTERS 29-42

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**MAY 25th**

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**P29****Liver-specific CNNM4 silencing alleviates fibrosis in cholestatic preclinical models and human liver slices**

Naroa Goikoetxea-Usandizaga<sup>1,2</sup> | Maitane Asensio Martín<sup>2,3</sup> | Irene González-Recio<sup>1</sup> | Jorge Simón<sup>1,2</sup> | Marina Serrano-Maciá<sup>1</sup> | Marta R. Romero<sup>3</sup> | Beatriz Sanchez de Blas<sup>3</sup> | María Andrés-Rozas<sup>4</sup> | Ana Martínez-Alcocer<sup>4</sup> | Ute Schaeper<sup>5</sup> | Malgorzata Milkiewicz<sup>6</sup> | Piotr Milkiewicz<sup>7</sup> | Rubén Nogueiras<sup>8,9</sup> | Jelena Mann<sup>10,11</sup> | Jordi Gracia-Sancho<sup>2,4</sup> | Jose Juan García-Marín<sup>2,3</sup> | María L Martínez-Chantar<sup>1</sup>

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**P30****Hepatocyte-specific CNNM4 silencing alleviates liver injury in alpha-1 antitrypsin deficiency**

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## **P31** Study of extracellular vesicle in three-dimensional hepatic models of MASLD

Silvia López-Sarrió <sup>1</sup> | Félix Royo-López <sup>1,2</sup> | Juan Manuel Falcón-Pérez <sup>1,2,3,4</sup>

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## **P32** SUCNR1 controls mitochondrial activity, zonation and the response to nutrients in hepatocytes

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**P33**

**Regulation of adiponectin and resistin in liver transplantation protects grafts from extended-criteria donors**

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**P34****Mapping hepatic vascular remodelling across alcohol-related liver disease progression by spatial proteomics**

*Laia Aguilar-Corominas*<sup>1,2</sup> | *Alicia Martínez-Álvarez*<sup>2</sup> | *Javier Vicente-Mora*<sup>1,2</sup> | *Jordi Gratacós-Ginès*<sup>2,3</sup> | *Isabel Graupera*<sup>2,3</sup> | *Pere Ginès*<sup>1,2,3</sup> | *Elisa Pose*<sup>2,3</sup> | *Mar Coll*<sup>1,2</sup>

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**P35****A microbial metabolite attenuates liver damage via dual modulation of NF-κB and interferon signaling**

*Yurui Zheng* | *Nicholas Handali* | *Dana Moradi* | *Colin Varnet*, *Farhin Patel* | *Alexander Aksenov* | *Adam Kim\**

*UConn Health, CT, USA*

**P36****MeCP2 as epigenetic mechanosensor of liver sinusoidal endothelial cells in chronic liver disease**

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<p><b>P37</b></p>	<p><b>Naringenin reverses experimental liver fibrosis by reprogramming global DNA methylation signatures</b></p> <p>Roberto Flores-Peña<sup>1,2</sup>   Fernando Caloca-Camarena<sup>1,2</sup>   Scarlet Arceo-Orozco<sup>2</sup>   Jorge Alejandro Salto-Sevilla<sup>2</sup>   Marina Galicia-Moreno<sup>2</sup>   Juan Armendáriz-Borunda<sup>2,3</sup>   Hugo C. Monroy-Ramírez<sup>2</sup></p> <p><i>1- Programa de Doctorado en Farmacología, Departamento de Fisiología, Centro Universitario de Ciencias de la Salud, Universidad de Guadalajara, Guadalajara, Jalisco, Mexico. 2- Instituto de Biología Molecular en Medicina y Terapia Génica, Departamento de Biología Molecular y Genómica, Centro Universitario de Ciencias de la Salud, Universidad de Guadalajara, Guadalajara, Jalisco, Mexico. 3- Tecnológico de Monterrey, EMCS, Zapopan, Jalisco, Mexico</i></p>
<p><b>P38</b></p>	<p><b>Effects of fenofibrate on primary murine liver sinusoidal endothelial cells in vitro</b></p> <p>Dibakar Borah<sup>1</sup>   Marcin Luty<sup>1</sup>   Karolina Szafranska<sup>2</sup>   Katarzyna Trzos<sup>3</sup>   Jerzy Kotlinowski<sup>3</sup>   Peter McCourt<sup>2</sup>   Malgorzata Lekka<sup>1</sup>   Bartlomiej Zapotoczny<sup>1,*</sup></p> <p><i>1- Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland 2- Department of Medical Biology, University of Tromsø—The Arctic University of Norway, Tromsø, Norway 3- Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland</i></p>
<p><b>P39</b></p>	<p><b>Surface-engineered MSC-derived exosomes targeting SE-1 receptor on LSECs for the treatment of liver fibrosis</b></p> <p>Mi Ra Lee<sup>1</sup>   Jin Suk Lee<sup>2</sup>   Seul Ki Han<sup>1,2</sup>   Chung Hyun Jung   Soon Koo Baik<sup>1,2</sup>   Moon Young Kim<sup>1,2</sup></p> <p><i>1- Department of Internal Medicine, Wonju Severance Christian Hospital 2- Regeneration Medicine Research Center, Yonsei University Wonju College of Medicine, Wonju, Republic of Korea</i></p>

**P40****A liver sinusoidal endothelial cell gene signature reflects disease stage and severity in cirrhotic rats**

Carolina Franco <sup>1,2</sup> | Marta Puerto <sup>1,2,3</sup> | Elena Vázquez-Ogando <sup>1,2</sup> | Christian Ruiz-Martín <sup>1,2</sup> | Iris Asensio <sup>1,2</sup> | Anabel Fernández-Iglesias <sup>3,4</sup> | Ana Martínez-Alcocer <sup>3,4</sup> | Johanna Sierra <sup>1,2</sup> | Alejandro Hionides-Gutierrez <sup>5,6</sup> | Adriana De Bonis <sup>5,6</sup> | Raquel Herrero <sup>7,8</sup> | Laura Moreno <sup>8,9</sup> | Ignacio Benedicto <sup>10,11</sup> | Jean S Campbell <sup>12</sup> | Juan Manuel Falcón <sup>3,13,14</sup> | Agustín Albillos <sup>3,15</sup> | Javier Cubero <sup>2,3,5,6</sup> | Jordi Gracia-Sancho <sup>3,4</sup> | Rafael Bañares <sup>1,2,3,16</sup> | Javier Vaquero <sup>1,2,3</sup>

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**P41****Sult<sup>2a</sup>1 restrains hepatocellular carcinoma progression by fostering CA7S-mediated CD8<sup>+</sup>T cell cytotoxicity via CREB-IL-2R $\beta$ -mTORC1 signaling**

He Wei | Zhang Xin | Xie Wei-Fen

	<p><i>1- Department of Gastroenterology, Shanghai East Hospital, School of Medicine, Tongji University, Shanghai, China 2- Department of Gastroenterology, Changzheng Hospital, Naval Medical University, Shanghai, China</i></p>
<p><b>P42</b></p>	<p><b>Rifaximin prevents MASH by suppressing deoxycholic acid-mediated macrophage-hepatocyte dialogue</b></p> <p>Mei-Tong Nie   Chuan Yin   Xin Zhang   Wei-Fen Xie</p> <p><i>1- Department of Gastroenterology, Changzheng Hospital, Naval Medical University, Shanghai, China</i></p>

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# POSTERS 43-56

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**MAY 25th**

🕒 13:30 ▶ 15:15

**P43****Modeling parenchymal consequences of sinusoidal dysfunction in porto-sinusoidal vascular disorder (PSVD) using human hepatocyte organoids**

Hasanka Madubashetha<sup>1,2,3,4,6</sup> | Raquel Ferrer-Lorente<sup>2</sup> | Aina Anton<sup>1,2,3,4,5,6</sup> | Rosa Montañés<sup>1,2,3,4,6</sup> | Héctor García-Calderó<sup>1,2,3,4,5</sup> | Sarah Shalaby<sup>1,2,3,4,5</sup> | Andreea Fodor<sup>1,7</sup> | Juan Carlos García-Pagán<sup>1,2,3,4,5,6</sup> | Genís Campreciós<sup>1,2,3,4,5</sup> | Pau Sancho-Bru<sup>2,5,6</sup> | Virginia Hernández-Gea<sup>1,2,3,4,5,6</sup>

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**P44****Sex and photoperiod modulate hepatic redox balance in diet-induced obesity via a melatonin-NRF2-circadian signaling axis**

Aina Gironès-Garreta<sup>1,2,3</sup> | Gerard Aragonès<sup>1,2,3</sup> | Miquel Mulero<sup>1,2,3</sup>

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**P45****Inhibition of IL1 $\beta$  synthesis mediated by a novel pyridine-sulfonamide compound protects against the progression of MASLD**

Ángela Berlana<sup>1</sup> | Esther Rey<sup>1</sup> | Elena Fresno-Ventura<sup>2,3</sup> |  
 Patricia Gomez-Gutierrez<sup>4</sup> | Miguel Vega<sup>4</sup> | Carmelo  
 García-Monzón<sup>1</sup> | Águeda González-Rodríguez<sup>2,3</sup>

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**P46****Liver sinusoidal cells: The hidden players in bacteriophage therapy?**

Arthur Kruse Sørensen<sup>1</sup> | Jaione Simón-Santamaria<sup>1</sup> |  
 Javier Sánchez Romano<sup>1</sup> | Ingelin Kyrrestad<sup>1</sup> | Kim  
 Erlend Mortensen<sup>2</sup> | Antonia P. Sagona<sup>3</sup> | Paulina  
 Miernikiewicz<sup>4</sup> | Krystyna Dabrowska<sup>4</sup> | Karen Kristine  
 Sørensen<sup>1</sup> | Anett Kristin Larsen<sup>1</sup>

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**P47****Transcriptomic profiling of epigenetic regulators and metabolic reprogramming in human cholangiocarcinoma**

Amaya Lopez-Pascual<sup>1,2</sup> | Jasmin Elurbide<sup>1,3</sup> | Emiliana Valbuena-Goiricelaya<sup>1</sup> | M Ujue Latasa<sup>1,3</sup> | Elena Anaya<sup>1</sup> | Elena Adan-Villaescusa<sup>1</sup> | Borja Castelló-Urbe<sup>1</sup> | Luz A. Martínez-Pérez<sup>1,4</sup> | Iker Uriarte<sup>1,3</sup> | María Arechederra<sup>1,2,3</sup> | Sergio Ciordia<sup>5</sup> | Fernando J Corrales<sup>5</sup> | Sona Frankova<sup>6</sup> | Eva Sticova<sup>6,7</sup> | Ondrej Fabian<sup>6,8</sup> | Leticia Colyn<sup>9</sup>, Patricia Inacio<sup>9</sup> | Juan Bayo<sup>10</sup> | Meritxell Huch<sup>9</sup> | Carmen Berasain<sup>1,3</sup> | Maite G Fernández-Barrena<sup>1,2,3#</sup> | Matías A Avila<sup>1,2,3#</sup>

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**P48**

**Prognostic and therapeutic value of Hepatic stellate cell products and subpopulations in chronic liver disease**

Douglas Maya-Miles<sup>\*1,4</sup> | Sergi Guixé<sup>\*4,5</sup> | Antonio Gil-Gómez<sup>\*1,4</sup> | Luis Ibáñez-Samaniego<sup>\*4,6,7</sup> | Anabel Fernández-Iglesias<sup>\*4,5</sup> | Blanca Escudero-López<sup>\*8,9</sup> | Javier Vaquero<sup>4,6,7</sup> | Javier Cubero<sup>4,7,10</sup> | Oriol Juanola<sup>4,11,12</sup> | Rubén Francés<sup>4,11,12</sup> | Esther Caparrós<sup>4,11,12</sup> | Rocío Gallego-Durán<sup>2-4,13</sup> | Lucía López-Bermudo<sup>8,9</sup> | Rafael Bañares<sup>4,6,7</sup> | Fran Martín-Bermudo<sup>8,9</sup> | Manuel Romero-Gómez<sup>2,3,13</sup> | Jordi Gracia-Sancho<sup>4,5</sup> | Javier Ampuero<sup>2,3,13</sup>

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**P49**

**NAC rescues LSEC functions and fenestration dynamics against chemical and phototoxic ROS**

Karolina Szafranska | Anika Kiel | Larissa Kruse | Christopher Holte | Marcin Luty | Jakub Pospisil | Wolfgang Hübner | Thomas Huser | Peter McCourt | Bartłomiej Zapotoczny

1- University of Tromsø — The Arctic University of Norway 2- Department of Physics, Bielefeld University, Germany 3- Institute of Nuclear Physics Polish Academy of Sciences, Krakow, Poland

**P50**

**Reactive cholangiocytes from cholestatic livers distinctly respond to bile acids and influence macrophage polarization**

Tian Lan<sup>1,2</sup> | Guo Yin<sup>1</sup> | Hanyang Liu<sup>1</sup> | Natalia Martagón Calderón<sup>3</sup> | Bianca Franco Leonardi<sup>4</sup> | Yuanshui Long<sup>2</sup> | Pavitra Kumar<sup>1</sup> | Hilmar Berger<sup>1</sup> | Milad Rezvani<sup>3</sup> | Frank Schaap<sup>5,6</sup> | Frank Tacke<sup>1</sup> | Adrien Guillot<sup>1</sup>

	<p>1- Department of Hepatology &amp; Gastroenterology, Charité Universitätsmedizin Berlin, Campus Virchow-Klinikum and Campus Charité Mitte, Berlin, Germany 2- Department of Gastroenterology and Hepatology, West China Hospital, Sichuan University, Chengdu, China 3- Department of Pediatric Gastroenterology, Nephrology and Metabolic Medicine, Charité Universitätsmedizin Berlin, Berlin, Germany 4- Department of Physiology and Biophysics, Institute of Biomedical Sciences, University of Sao Paulo, Sao Paulo, Brazil 5- Department of Surgery, NUTRIM Institute of Nutrition and Translational Research in Metabolism, Maastricht University, Maastricht, The Netherlands 6- Department of General, Visceral and Transplantation Surgery, RWTH Aachen University, Aachen, Germany</p>
<p><b>P51</b></p>	<p><b>Serum hyaluronic acid tracks liver sinusoidal endothelial dysfunction and prognosis in rodenticide-induced hepatotoxicity</b></p> <p>Vijayalekshmi Balakrishnan   Sushovan Baidya   Vijay Alexander   Uday Zachariah   C E Eapen, Ashish Goel</p> <p><i>Wellcome Trust Research Laboratory, Department of Hepatology, Division of GI Sciences, Christian Medical College, Vellore, Tamil Nadu, India</i></p>
<p><b>P52</b></p>	<p><b>ANGPTL6-regulated type 1 macrophages polarization alleviates hepatic stellate cells inflammatory responses</b></p> <p>Ming-Syuan Shih<sup>1</sup>   Cheng-Chieh Fang<sup>2</sup>   Yi-Jen Liao<sup>1</sup></p> <p>1- Ph.D. Program in Medical Biotechnology, College of Medical Science and Technology, Taipei Medical University, Shuang-Ho Campus, New Taipei City, Taiwan 2- Medical Laboratory, Medical Education and Research Center, Kaohsiung Armed Forces General Hospital, Kaohsiung, Taiwan</p>

**P53**

**Involvement of cannabinoid 1 receptors in liver fibrosis**

Kei Ishizuka <sup>1,2</sup> | Souradipta Ganguly <sup>2,3</sup> | Barun Das <sup>2,3</sup> |  
Malika K Nindra <sup>2,3</sup> | Aryaman Bhattacharya <sup>2,3</sup> | Tatiana  
Kisseleva <sup>2</sup> | David A. Brenner <sup>2,3</sup> | Debanjan Dhar <sup>2,3</sup> |  
Kenichi Ikejima <sup>1</sup>

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3- Sanford Burnham Prebys Medical Discovery Institute, La Jolla,  
CA, USA*

**P54**

**Proline-rich fermented rice bran diet alleviates  
hepatic stellate cells activation and liver fibrosis in  
mice**

Chia-En Hsieh | Yi-Jen Liao\*

*School of Medical Laboratory Science and Biotechnology,  
College of Medical Science and Technology, Taipei Medical  
University, Taipei, Taiwan*

**P55**

**Integrated omics identifies dysregulated selenium  
axis in MASLD-induced fetal liver insulin resistance**

Simran Sharma | Ahona Roy | Anupama Parasar |  
Aarti Sharma | Rajni Yadav | Ashwini Vasudevan |  
Dinesh Mani Tripathi | Neha Agarwal | Shiv K Sarin |  
Savneet Kaur\*

*1- Institute of Liver and Biliary Sciences, India*

**P56**

**Fibrosis-driven tumor programs define aggressive hepatocellular carcinoma**

Vu Thi Hoai Thu | Masako Okada | Masaru Enomoto,  
Truong Huu Hoang | Tsutomu Matsubara | Norifumi  
Kawada | Misako Sato-Matsubara

*Graduate School of Veterinary Science - Osaka Metropolitan  
University, Osaka, Japan*

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# POSTERS 57-70

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**MAY 26th**

🕒 11:00 ▶ 12:15

<p><b>P57</b></p>	<p><b>Systematic elastography-based assessment of Sinusoidal Obstruction Syndrome in patients undergoing allogeneic hematopoietic stem cell transplantation</b></p> <p>Beltran, Alfonso<sup>1</sup>   Panizo, Maria<sup>2</sup>   Urtasun, Andrea<sup>3</sup>   Gonzalez-Salvador, Maria<sup>3</sup>   Catalan, Ana<sup>3</sup>   Villar, Sara<sup>2,6</sup>   Argemi, J.<sup>4,5,6,*</sup>   Rifon, José<sup>2,6</sup></p> <p><i>1- School of Medicine. University of Navarra. Pamplona, Spain</i>  <i>2- Hematology Department. Transplant Unit. Cancer Center Clínica Universidad de Navarra. Pamplona. Spain</i>  <i>3- Pediatrics Department. Transplant Unit. Cancer Center Clínica Universidad de Navarra. Pamplona. Spain</i>  <i>4- Internal Medicine. Liver Unit. Cancer Center Clínica Universidad de Navarra. Pamplona. Spain</i>  <i>5- Centro de Investigación Médica en RED (CIBEREHD). Madrid. Spain</i>  <i>6- Instituto de Investigación Sanitaria de Navarra (IdisNA). Pamplona. Spain</i></p>
<p><b>P58</b></p>	<p><b>Understanding porto-sinusoidal vascular disease development using a genetic model</b></p> <p>N. Ciriaci   L. Bertin   A. Hammoutene   S. Laouirem   A. Sayadi   A. Wawrzyniak   E. Gonzales   A. Spraul   E. Lainey   H. Morel   C. Kannengiesser   P. Revy   V. Paradis   P.-E. Rautou</p> <p><i>1- Inserm, Centre de recherche sur l'inflammation, UMR 1149, Paris, France</i></p>
<p><b>P59</b></p>	<p><b>Impact of host genetic background on murine cytomegalovirus infection in liver sinusoidal endothelial cells</b></p> <p>Ingelin Kyrrestad   Ruomei Li   Saikat Das Sajib   Jaione Simón-Santamaría   Javier Sánchez Romano   Gianina Dumitriu   Erik Knudsen   Anett Kristin Larsen   Karen Kristine Sørensen</p> <p><i>1- Department of Medical Biology, Faculty of Health Sciences, UiT - The Arctic University of Norway, Tromsø, Norway</i></p>

<p><b>P60</b></p>	<p><b>Gut microbiota orchestrates immune signaling: a transcriptomic analysis of early liver regeneration in mice</b></p> <p>Muhamad Marlini<sup>1,5</sup>   Raman Nur Fatin Aqilah<sup>5</sup>   Frances O'Brien<sup>2</sup>   Tara O Driscoll<sup>2</sup>   Ngatiman M Hairulhisyam<sup>1,5</sup>   Mohd Manzor Nur Fariha<sup>5</sup>   Fergus Shanahan<sup>3</sup>   Antony M. Wheatley<sup>1*</sup></p> <p><i>1- Physiology Department, National University of Ireland, Galway, Ireland 2- Germ Free Unit, BSU, University College Cork, Cork, Ireland 3- Alimentary Pharmabiotic Centre (APC), University College Cork, Cork, Ireland 4- Faculty of Medicine and Health Sciences, Universiti Sains Islam Malaysia, Kuala Lumpur, Malaysia</i></p>
<p><b>P61</b></p>	<p><b>Alteration of the light-dark cycle modifies hepatic clocks and signalling between organs: the protective role of proanthocyanidins</b></p> <p>Alba García-Aranda<sup>1,2,3</sup>   Manuel Suárez<sup>1,2,3</sup>   Begoña Muguerza<sup>1,2,3</sup></p> <p><i>1- Universitat Rovira i Virgili, Departament de Bioquímica i Biotecnologia, Nutrigenomics Research Group, Tarragona, Spain 2- Universitat Rovira i Virgili, Institut d'Investigació Sanitària Pere Virgili, Nutrigenomics Research Group, Tarragona, Spain 3- Center of Environmental, Food and Toxicological Technology (TecnATox), Tarragona, Spain</i></p>
<p><b>P62</b></p>	<p><b>Sinusoidal endothelial injury and impaired microcirculation in anti-tubercular drug-induced liver injury</b></p> <p>Himanshi<sup>1</sup>   Rajni Yadav<sup>1</sup>   Vaibhav Tiwari<sup>1</sup>   Aishwarya Bhatnagar<sup>1</sup>   Savneet Kaur<sup>1</sup>   Rajkumar Tulsawani<sup>2</sup>   Shiv Kumar Sarin<sup>3</sup>   Dinesh Mani Tripathi<sup>1</sup></p> <p><i>1- Department of Molecular and Cellular Medicine, Institute of Liver and Biliary Sciences, New Delhi 2- DIPAS, DRDO, New Delhi 3- Department of Hepatology, Institute of Liver and Biliary Sciences, New Delhi, India</i></p>

<p><b>P63</b></p>	<p><b>Glycolytic-reprogramming and mitochondrial-dysfunction in liver sinusoidal endothelial cells aggravates portal hypertension during sepsis in cirrhosis</b></p> <p>Vaibhav Tiwari<sup>1</sup>   Rajni Yadav<sup>1</sup>   Manisha<sup>1</sup>   Aishwarya Bhatnagar<sup>1</sup>   Himanshi<sup>1</sup>   Savneet Kaur<sup>1</sup>   Shiv Kumar Sarin<sup>1</sup>   Dinesh Mani Tripathi<sup>1*</sup></p> <p><i>1- Institute of Liver and Biliary Sciences, New Delhi, India</i></p>
<p><b>P64</b></p>	<p><b>Peptidylprolyl isomerase C in chronic liver disease: potential biomarker and therapeutic target for fibrosis</b></p> <p>Cristina Benavides<sup>1,2</sup>   Isabel Fuster-Martínez<sup>1,2</sup>   Fernando Solano<sup>1</sup>   Pepa Kecheva<sup>1,8</sup>   Joan Tosca<sup>3</sup>, Cristina Montón<sup>3</sup>   Douglas Maya<sup>4,5</sup>   Javier Ampuero<sup>4,5,6,7</sup>   Manuel Romero-Gómez<sup>4,5,6,7</sup>   Susana Rovira-Llopis<sup>2,8</sup>   Victor M. Víctor<sup>2,5,8</sup>   Juan V. Esplugues<sup>1,2,5</sup>   Nadezda Apostolova<sup>1,2,5</sup>   Ana Blas-García<sup>1,2,5</sup></p> <p><i>1- Departamento de Farmacología, Universitat de València, Valencia, Spain 2- FISABIO (Fundación para el Fomento de la Investigación Sanitaria y Biomédica de la Comunidad Valenciana), Valencia, Spain 3- Departamento de Medicina Digestiva, Hospital Clínico Universitario de Valencia, Valencia, Spain 4- SeLiver Group, Instituto de Biomedicina de Sevilla (HUVR/CSIC/US), Sevilla, Spain 5- CIBEREHD (Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas), Spain 6- Servicio de Aparato Digestivo, Hospital Universitario Virgen del Rocío, Sevilla, Spain 7- Departamento de Medicina, Universidad de Sevilla, Sevilla, Spain 8- Departamento de Fisiología, Universitat de València, Valencia, Spain</i></p>

**P65**

**Ultrastructural assessment of LSEC capillarisation in MASLD and its modulation by the pan-PPAR agonist lanifibranor**

Shivani Chotkoe<sup>1</sup> | Guillaume Wettstein<sup>6</sup> | Joris De Man<sup>1</sup> | Sofie Thys<sup>2,3</sup> | Isabel Pintelon<sup>2,3</sup> | Yang Lu<sup>1</sup> | Nateneal Beyene<sup>1</sup> | Jean-Louis Junien<sup>6</sup> | Denise van der Graaff<sup>5</sup> | Benedicte Y. De Winter<sup>1,5</sup> | Winnok H. De Vos<sup>2-4</sup> | Luisa Vonghia<sup>1,5</sup> | Wilhelmus J. Kwanten<sup>1,5</sup> | Sven M. Francque<sup>1,5</sup>

*1- Laboratory of Experimental Medicine and Paediatrics/ University of Antwerp, Antwerp, Belgium 2- Laboratory of Cell Biology and Histology, University of Antwerp, Antwerp, Belgium 3- Antwerp Centre for Advanced Microscopy (ACAM), University of Antwerp, Antwerp, Belgium 4-  $\mu$ NEURO, Centre of Excellence, University of Antwerp, Antwerp, Belgium 5- Antwerp University Hospital, Edegem, Gastroenterology and Hepatology, Belgium 6- Inventiva Pharma, Daix, France*

**P66**

**Scar-associated macrophages demonstrate phenotypic plasticity during the progression and regression of liver fibrosis**

Ravi Parhar<sup>1</sup> | Lily Jia<sup>1</sup> | Thomas Otto<sup>2</sup> | Neil Henderson<sup>1</sup> | Prakash Ramachandran<sup>1</sup>

*1- Centre for Inflammation Research, Institute for Regeneration and Repair, University of Edinburgh, Edinburgh, UK, 2- School of Infection and Immunity, College of Medical Veterinary and Life Sciences, University of Glasgow, Glasgow, UK*

**P67****Systemic inflammation aggravated by translocating environmental bacteria *Aquitalea Magnusonii* DNA in patients with chronic liver disease**

Olaf Tyc<sup>1+</sup> | Frank E. Uschner<sup>1,2+</sup> | Sania Arif<sup>2+</sup> | Nathalie Jung<sup>3</sup> | Wenyi Gu<sup>1,2</sup> | Cristina Ortiz<sup>1</sup> | Sabine Klein<sup>1,2</sup> | Sandra Torres<sup>1,4,5</sup> | Nico Kraus<sup>1</sup> | Kristian J. Pedersen<sup>6</sup> | Chun Kew<sup>7,8</sup> | Wenbo Chen<sup>7,8</sup> | Michael Rooney<sup>9</sup> | Hira Arif<sup>0</sup> | Nicolas Pons<sup>11</sup> | Maike Windbergs<sup>3</sup> | Tony Bruns<sup>12</sup> | Martin von Bergen<sup>6,13,14</sup> | Paolina Garbeva<sup>15</sup> | Hans Zweers<sup>15</sup> | Ivan Đikic<sup>7,8</sup> | Dusko Ehrlich<sup>11</sup> | Christophe Junot<sup>16</sup> | Benjamin Lelouvier<sup>17, 2</sup> | Jonel Trebicka<sup>1,2,18#</sup> | Robert Schierwagen<sup>1, 2#</sup>

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**P68****ACLF metabolic markers can identify or exclude bacterial infections in acutely decompensated cirrhosis**

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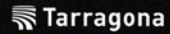
**P69****Cellular identity preservation of primary human hepatocytes in vitro**Masashi Okawa<sup>1,2</sup> | Meng Li<sup>3</sup> | Takeshi Saito<sup>1\*</sup>

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**P70****Aging reshapes the chromatin accessibility landscape of mouse liver endothelial cells**Edurne Armesto-Longueira<sup>1</sup> | Almudena Tello<sup>1</sup> | Ana Baretino<sup>2</sup> | Iñigo Ruiz-Polo de Lara<sup>2</sup> | Vicente Andrés<sup>2</sup> | Wendy Beguelin<sup>3</sup> | Ignacio Benedicto<sup>1,2</sup>

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With institutional support from:



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