

## LIVER VASCULAR BIOLOGY

25-27 OCTOBER 2018

BARCELONA, SPAIN

### COURSE DIRECTORS

Dr Jordi Gracia-Sancho, *Spain*

Dr Mercedes Fernández, *Spain*

### PROGRAMME OVERVIEW

#### DAY 1 – 25 October 2018

17:00	Welcome coffee
18:00 – 19:30	State-of-the-art: Basic and Translational Vascular Biology
18:00 – 18:45	Keynote lecture I: New insights in hepatic stellate cells biology Krista Rombouts, <i>UCL, London</i>
18:45 – 19:30	Keynote lecture II: Molecular pathogenesis of (chronic) liver injury: a Junk perspective Francisco Javier Cubero, <i>UCM, Madrid</i>
19:30	<i>Dinner and socializing</i>

#### DAY 2 – 26 October 2018

08:50 – 09:00	Introduction to the School concept Frank Tacke, <i>Aachen</i>
09:00 – 11:30	Methods & models to study the liver vasculature – the theory
09:00 – 09:20	Components and interactions within the liver sinusoid Jordi Gracia-Sancho, <i>IDIBAPS, Barcelona</i>
09:20 – 09:40	Animal models of chronic liver disease & transplantation María Martell, <i>Vall d'Hebrón, Barcelona</i>
09:40 – 10:00	Animal models of non-cirrhotic liver vascular diseases Virginia Hernández-Gea, <i>Hospital Clinic, Barcelona</i>

10:00 – 10:20	Angiogenesis in chronic liver disease Mercedes Fernández, <i>IDIBAPS, Barcelona</i>
10:20 – 10:40	Vascular component of hepatocellular carcinoma Loreto Boix, <i>BCLC, Barcelona</i>
10:40 – 11:00	Lymphatic circulation in chronic liver disease Manuel Morales-Ruiz, <i>Hospital Clinic, Barcelona</i>
11:00 – 11:30	<i>Coffee break</i>
11:30 – 11:50	In vitro models to study the liver sinusoid: co-culture & liver on a chip Jose Yeste, <i>Spanish Research Council, Barcelona</i>
11:50 – 12:10	In vitro models to study the liver sinusoid: iPS and organoids Pau Sancho-Bru, <i>IDIBAPS, Barcelona</i>
12:10 – 12:30	In silico models to study liver diseases: big data analysis Joan Clària, <i>Hospital Clinic, Barcelona</i>
12:30 – 13:30	<i>Lunch break</i>
13:30 – 16:00	Methods & models to study the liver vasculature – hands on <ol style="list-style-type: none"> <li>Acquisition and analysis of hepatic and systemic hemodynamic data <i>Marina Vilaseca, Héctor García-Calderó, Erica Lafoz</i></li> <li>How to study sinusoidal cells phenotype &amp; their interactions <i>Anabel Fernández-Iglesias, Mar Coll, Martí Ortega-Ribera, María Ruat</i></li> <li>Liver surgery workshop <i>Carmen Peralta, Mónica Jiménez, Maru Cornide, Anabel Álvarez</i></li> <li>Experimental models of portal hypertension <i>Marc Mejías, Marta Ramírez, Núria Pell</i></li> <li>In vivo, ex vivo and in vitro analysis of angiogenesis <i>Salvador Naranjo, Javier Gallego, Ester García-Pras</i></li> <li>Vascular structural disturbances in liver diseases <i>Alba Díaz, Sergi Guixé-Muntet, Genís Campreciós, Raquel Maeso-Díaz</i></li> </ol>
16:00 – 16:30	<i>Coffee break</i>

16:30 – 19:00

Methods & models to study the liver vasculature – hands on

1. Acquisition and analysis of hepatic and systemic hemodynamic data  
*Marina Vilaseca, Héctor García-Calderó, Erica Lafoz*
2. How to study sinusoidal cells phenotype & their interactions  
*Anabel Fernández-Iglesias, Mar Coll, Martí Ortega-Ribera, María Ruat*
3. Liver surgery workshop  
*Carmen Peralta, Mónica Jiménez, Maru Cornide, Anabel Álvarez*
7. Experimental models of portal hypertension  
*Marc Mejías, Marta Ramírez, Núria Pell*
8. In vivo, ex vivo and in vitro analysis of angiogenesis  
*Salvador Naranjo, Javier Gallego, Ester García-Pras*
4. Vascular structural disturbances in liver diseases  
*Alba Díaz, Sergi Guixé-Muntet, Genís Campreciós, Raquel Maeso-Díaz*

20:00

Dinner and social event (includes a practical exercise in which participants, grouped in teams, will have to respond a questionnaire about the theory and practices previously taught **to win the “best knowledge prize”**)



DAY 3 – 27 October 2018

	Communication skills in liver science
09:00 – 10:00	Importance of preparing a good scientific pitch I Tony Anagor, <i>Barcelona/London</i>
10:00 – 10:15	<i>Break</i>
10:15 – 11:15	Importance of preparing a good scientific pitch II Tony Anagor, <i>Barcelona/London</i>
11:15 – 11:30	<i>Coffee break</i>
11:30 – 13:00	Pitch preparation (practical training) Participants divided in 5 teams, each of them with a mentor, will create a translational research project in the field of liver vascular diseases and prepare a 3-4 min pitch summarizing it. Aim of the pitch? : Convince an expert panel to fund their research! Mentors : JC Garcia-Pagan, Jaume Bosch, Montse Marí, Mercedes Fernández, FJ Cubero
13:00– 14:00	Practical exercise: Best Pitch contest – who gets funding? Jury: Tony Anagor, Jaume Bosch, Sabela Lens, Frank Tacke
14:00– 14:30	Best knowledge and best pitch prizes ceremony, closing remarks and farewell lunch

