

EASL BASIC SCHOOL OF HEPATOLOGY
LIVER CELL ISOLATION AND CHARACTERISATION
16 – 18 JANUARY 2019
DÜSSELDORF, GERMANY

DIRECTORS

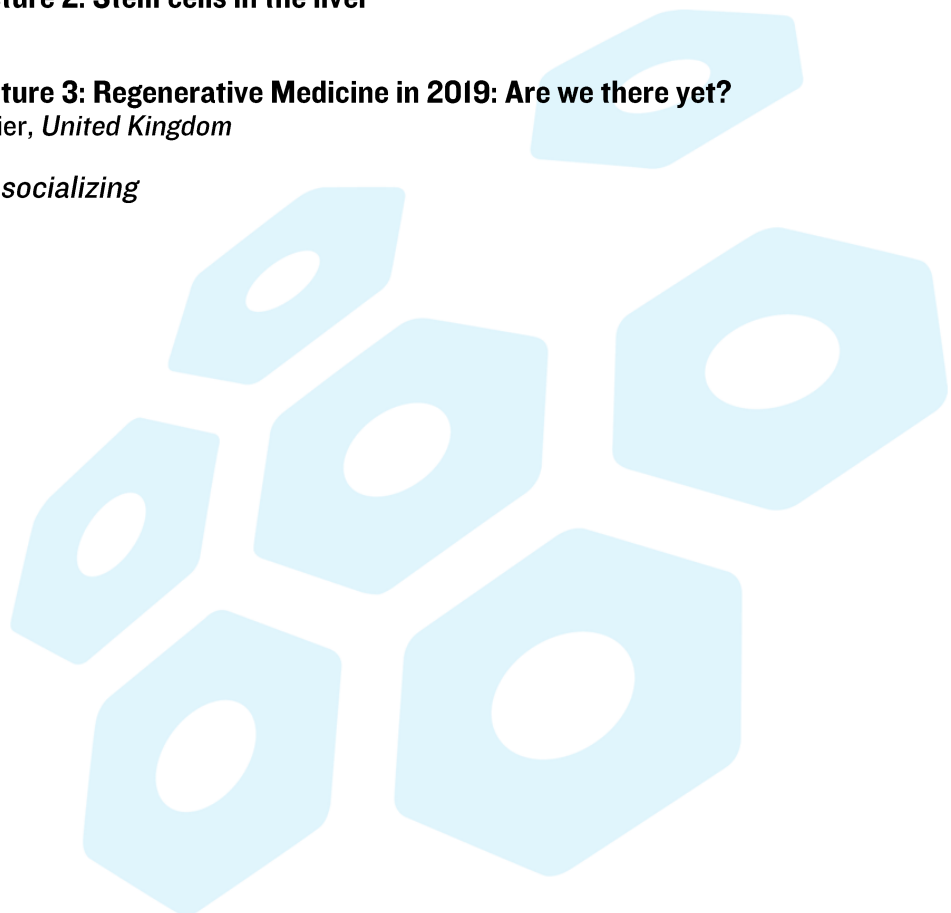
Prof. Dr Dieter Häussinger, *Germany*

Prof. Dr Verena Keitel, *Germany*

PRELIMINARY PROGRAMME OVERVIEW

DAY 1 – 16 January 2019

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|---------------|---|
| 17:00 – 17:45 | Welcome coffee |
| 17:45 – 18:00 | Welcome address / Learning objectives |
| 18:00 - 20:00 | State-of-the-art: Liver biology and regeneration |
| 18:00 - 18:40 | Keynote lecture 1: liver biology and liver regeneration: from past to present
Dieter Häussinger, <i>Germany</i> |
| 18:40 - 19:20 | Keynote lecture 2: Stem cells in the liver
<i>TBC</i> |
| 19:20 – 20:00 | Keynote lecture 3: Regenerative Medicine in 2019: Are we there yet?
Ludovic Vallier, <i>United Kingdom</i> |
| 20:00 | <i>Dinner and socializing</i> |



DAY 2 – 17 January 2019

- 09:00 - 11:30 **Techniques for studying different cells types in the liver**
- 09:00 - 09:30 **Characterization of cell types by immunostaining, FACS sorting, function**
Verena Keitel, *Germany*
- 09:40 - 10:10 **Liver pathology: difference between mouse models and humans**
Irene Esposito, *Germany*
- 10:20 - 10:50 **CRISPR/Cas9 animal models and gene editing**
Roland Rad, *Germany*
- 11:00 - 11:30 **iPSC techniques and organoid techniques: perspectives and challenges in liver research**
TBC
- 11:40 - 12:30 *Lunch break*
- 12:30 - 15:30 Small group hands-on experience in the laboratory:
- 1. Isolation of hepatic stellate cells**
Claus Kordes, Friederike Rohn, Claudia Rupprecht
 - 2. Isolation of biliary epithelial cells (using a stereomicroscope)**
 - a. by microdissection using a stereomicroscope**
 - b. by fluorescent activated cell sorting (FACS)**Verena Keitel, Maria Reich, Marianne Wammers
 - 3. Isolation of liver sinusoidal endothelial cells**
Eckhard Lammert, Tobias Buschmann, Caroline Klindt, Stephanie Wolf
 - 4. Generation and differentiation of iPSC and organoids**
Kathleen Deutschmann, Jan Philipp Köhler
 - 5. Isolation, characterization and differentiation of MSC**
Claus Kordes, Doreen Reichert
 - 6. Gene editing techniques using CRISPR/Cas9 in cell culture and animals**
Philipp Lang, Haifeng C. Xu
- 15:30 - 16:00 *Coffee break*
- 16:00 - 19:00 **Small group hands-on experience in the laboratory**
Topics as above (participants choose a different group)
- 20:00 *Dinner and socializing*

DAY 3 – 18 January 2019

- 08:30 - 11:30** **Small group hands-on experience in the laboratory**
Topics as above (participants choose a different group)
- 11:30 - 12:30* *Lunch break*
- 12:30 - 15:00** **Soft skills in science: presentation of your results (in seminar rooms)**
12:30 - 13:45 **Tips and tricks in oral presentation and presentation of prepared short talks by participants (3 groups of participants and faculty)**
- Philipp Lang, Verena Keitel, Boris Görg
- 13:45 – 15:00** **From the editor’s desk: Preparing your data for publication and how to perform a peer review (3 groups of participants and faculty)**
- Dieter Häussinger, Germany; Michael Trauner, Austria; Ulrich Beuers, The Netherlands
- 15:00 - 15:30* *Closing remarks and coffee*

