

## Basic school of Hepatology: MICROBIOME IN CHRONIC LIVER DISEASE

London 2023 – Imperial College London

25 attendees selected among basic scientists and clinical researchers, particularly encouraging early career researchers with interests in hepatology, the microbiome, and associated disciplines

### PRELIMINARY PROGRAM

#### DAY 1 (Wednesday)

- 01.00-01.50 pm      Registration/ introductions
- 01.50-02.00 pm      Welcome and theoretical introduction on the school programme (*Mark Thursz, Pinelopi Manousou - ICL*)

#### Session 1: General Overview

**Chairs, Dr Pinelopi Manousou (ICL) and Dr Benjamin Mullish (ICL)**

- 02.00-02.30 pm      Why is the intestinal microbiome important in human disease? (*Prof Julian Marchesi - ICL*)
- 02.30-03.00 pm      Metataxonomics and metagenomics - who is in my gut? (*Dr Julie McDonald – ICL*)
- 03.00-03:30 pm      How to study microbial metabolites: introduction to metabolomics (*Prof Elaine Holmes – Perth, ICL > either on-site or virtual*)
- 03.30-04:00 pm      How does the microbiome influence the liver – the gut-liver axis (*Prof Herbert Tilg-Innsbruck*)
- 04.00-05.00 pm      *Coffee break*

#### Session 2:

**Mechanisms of microbiome-mediated disease**

**Chairs, Dr Pinelopi Manousou (ICL) and Dr Benjamin Mullish (ICL)**

- 05.00-05.30 pm      Keynote speaker: Microbiome and metabolism (*Prof Marc Dumas – ICL*)
- 05.30-06.00 pm      Keynote speaker: Microbiome and gut epithelial integrity (*Dr Forlano, Imperial*)
- 06.00-10.00 pm      *Evening social event*

#### DAY 2 (Thursday)

#### Session 3:

**Manipulating the microbiome in liver disease**

**Chairs, Prof Emmanouil Tsochatzis (UCL) and Dr Roberta Forlano (ICL)**

- 09.30-10.00am      Faecal microbiota transplant (*Dr Benjamin Mullish-ICL*)

10.00-10.30am Antibiotics including rifaximin in CLD (*Dr Vishal Patel-King's*)

10:30-11.00 am *Coffee break*

**Session 4: Microbiome and Liver Disease I**  
**Chairs, Prof Emmanouil Tsochatzis (UCL) and Dr Roberta Forlano (ICL)**

11.00-11.30 am Microbiome and cirrhosis (*Prof Debbie Shawcross - KCL*)

11.30-12.00 am The microbiome, biliary and autoimmune disease (*Palek Trivedi, Nabil Quraishi - Birmingham*)

12.00-12.30 am Keynote speaker (*Prof Max Nieuwdorp - AMC Amsterdam*) – Microbiome, NAFLD and other metabolic disorders

12.30-13.45 pm *Lunch*

**Session 5: Hands on**

Participants will be split into 3 groups of 7-10 students each and will rotate across 3 workshops:

Workshop 1: IMT/FMT

Workshop 2: Microbiome analysis/bioinformatics

Workshop 3: Omics techniques – metabolomics, proteomics, and beyond

13.45-14.45 pm First round of workshops

14.45-15.45 pm Second round of workshops

15.45-16.45 pm Third round of workshops

16.45-17.15 pm *Coffee break*

**Session 6: Microbiome and Liver Disease II**  
**Chairs, Prof Emmanouil Tsochatzis (UCL) and Dr Roberta Forlano (ICL)**

17.15-17.45 pm Keynote speaker (*Prof Berndt Schnabl - UCSF*) – **Virtual**  
Microbiome in alcohol-related liver disease

17.45-18.15pm Microbiome, and the gut-brain-liver axis (*Prof Jas Bajaj-Virginia Commonwealth University*) - **Virtual**

18.15-22.00 pm *Evening social event*

**(Friday) Session 7: Emerging areas for the gut-liver axis**

**Chairs – Prof Mark Thursz (ICL) and Prof Debbie Shawcross (KCL)**

09.30-10.00 am	Antimicrobial resistance and CLD ( <i>Dr Lindsey Edwards-King's</i> )
10.30-11.00 am	How to organise a microbiome-manipulation study ( <i>Prof Debbie Shawcross and panel discussion</i> )
11.00-11.30 am	Keynote speaker ( <i>Jonel Trebicka-Frankfurt</i> ) – What we have learned about the microbiome and liver disease from MICROB-PREDICT
11.30-12.00 am	Concluding remarks
	Post-course quiz
	Final coffee break and departures