Basic science 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.

DETAILED PROGRAMME

DAY 1 (Wednesday 27 September 2023)

01.00-01.50 pm	Registration	n/ int	roductions				
01.50-02.00 pm				introduction opi Manousou		school	programme

Session 1: General Overview

06.00-10.00 pm

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	Chairs – School Faculty					
02.00-02.30 pm	Why is the intestinal microbiome important in human disease? (<i>Prof Julian Marchesi - ICL</i>)					
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 (<i>Prof Elaine Holmes – Perth, ICL – virtual</i>)					
03.30-04:00 pm	How does the microbiome influence the liver? The gut-liver axis (<i>Prof Lesley Hoyles, Nottingham Trent</i>)					
04.00-05.00 pm	Coffee break					
Session 2:	Microbiome and steatotic liver diseases Chairs – School Faculty					
05.00-05.30 pm	Keynote speaker: Microbiome and metabolism (<i>Prof Marc Dumas – ICL</i>)					
05.30-06.00 pm	Keynote speaker – Microbiome in alcohol-related liver disease (<i>Prof Bernd Schnabl – UCSD, USA - virtual</i>)					

Optional informal evening social event – Roof East, Stratford

DAY 2 (Thursday 28 September 2023)

Session 3: Manipulating the microbiome in liver disease

Chairs - School Faculty

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

10.00-10.30am Antibiotics including rifaximin- α targeting the microbiome in cirrhosis,

and harnessing bacteriophages as novel biotherapeutics (Dr Vishal

Patel-King's)

10:30-11.00 am *Coffee break*

Session 4: Microbiome and Liver Disease I

Chairs – School Faculty

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

11.30-12.00 am The microbiome, biliary and autoimmune disease (Dr Palek Trivedi -

Birmingham)

12.00-12.30 am Keynote speaker (Dr Onno Holleboom - 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: Consideration for a 'microbiome manipulation' study

Workshop 2: Microbiome analysis/bioinformatics

Workshop 3: Other techniques to analyse the microbiome – omics 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 – School Faculty

17.15-17.45 pm Microbiome and gut epithelial integrity (*Dr Roberta Forlano - ICL*)

17.45-18.15pm Microbiome, and the gut-brain-liver axis (*Prof Jas Bajaj-Virginia Com-*

monwealth University - virtual)

18.15-22.00 pm Evening social event – Tavolino, central London

DAY 2 (Friday 29 September 2023)

Session 7:	Emerging areas for the gut-liver axis			
	Chairs – School Faculty			
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 (Prof Debbie Shawcross and panel discussion)			
11.00-11.30 am	Keynote speaker (<i>Prof Jonel Trebicka – Munster - virtual</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