

# Microbiota and Health

**Monday 7 October, 2024**

## Registration and Welcome

- 10:00**                    **Registration and poster mounting**
- 12:00-13:30**            **Lunch**
- 13:30-14:00**            **Welcome and one-minute introductions by course participants**  
Björn Schröder, Umeå University  
Valentina Tremaroli, University of Gothenburg

## Introduction to Microbiota

**Chairperson:** Valentina Tremaroli

- 14:00-14:45**            **Introduction to microbiomes**  
Björn Schröder  
Department of Molecular Biology, Umeå University, Sweden
- 14:45-15:00**            **Questions and discussion**
- 15:00-15:30**            **Coffee**
- 15:30-16:30**            **Microbiome data analysis**  
Luisa Hugerth  
Department of Medical Biochemistry and Microbiology, Science for Life Laboratory,  
Uppsala University, Sweden
- 16:30-16:45**            **Questions and discussion**
- 16:45-17:30**            **Reducing bias and optimizing precision in human studies: The impact of design  
and modeling choices**  
Clemens Wittenbecher  
Department of Life Sciences, Chalmers University of Technology, Gothenburg,  
Sweden
- 17:30-17:45**            **Questions and discussion**
- 17:45-18:30**            **Break**
- 18:30**                    **Dinner**
- 20:00**                    **Meet and greet with snacks**

## Tuesday 8 October, 2024

### Gut Microbiota in Health and Disease - I

Chairperson: Björn Schröder

- 8:30-9:15**      **Gut microbiota and health during a lifespan: Focus on early life**  
Anne Salonen  
Human Microbiome Research Program, Faculty of Medicine, University of Helsinki, Helsinki, Finland
- 9:15-9:30**      **Questions and discussion**
- 9:30-10:15**      **Microbiota and the intestinal immune system**  
Eduardo Villablanca  
Department of Medicine, Karolinska Institutet, Sweden
- 10:15-10:30**      **Questions and discussion**
- 10:30-11:00**      **Coffee**

### Microbial Therapeutics and Therapeutic Targets - I

Chairperson: Debra Milton

- 11:00-11:45**      **Fecal microbiota transplantation**  
Reetta Satokari  
Human Microbiome Research Program, University of Helsinki, Finland
- 11:45-12:00**      **Questions and discussion**
- 12:00-14:00**      **Lunch with free time**

### Microbial Communities Beyond The Gut- I

Chairperson: Debra Milton

- 14:00-14:45**      **Gut microbiota-Brain axis**  
María Rodríguez Aburto  
APC Microbiome Ireland, Department of Anatomy and Neuroscience, University College Cork, Ireland
- 14:45-15:00**      **Questions and discussion**
- 15:00-15:30**      **Coffee**

### Workshop – Session I

Session Leaders: Luisa Hugerth

- 15:30-18:00**      **Retrieving, annotating and analysing metabarcoding data in R**
- 18:30**              **Dinner**
- 20:00**              **Gut Check – the Microbiota Game**

## Wednesday 9 October, 2024

### Microbial Therapeutics and Therapeutic Targets - II

Chairperson: Björn Schröder

- 8:30-9:15**      **Interactions between drugs and the human gut microbiota**  
Jacobó de la Cuesta Zuluaga  
Interfaculty Institute of Microbiology and Infection Medicine and Cluster of Excellence 'Controlling Microbes to Fight Infections', University of Tübingen, Tübingen, Germany
- 9:15-9:30**      **Questions and discussion**
- 9:30-10:15**     **Fermented foods, prebiotics, probiotics and human health**  
Samuel Mortensen  
Teagasc Food Research Centre, Moorepark, Cork, Ireland
- 10:15-10:30**    **Questions and discussion**
- 10:30-11:00**    **Coffee**

### Gut Microbiota in Health and Disease - II

Chairperson: Debra Milton

- 11:00-11:45**    **Gut microbiota stability in adulthood**  
Valentina Tremaroli  
Department of Molecular and Clinical Medicine, University of Gothenburg, Sweden
- 11:45-12:00**    **Questions and discussion**
- 12:00-13:30**    **Lunch**
- 13:30-14:30**    **Poster Session I**  
poster walks in groups in parallel (5 min presentation + 5 min questions)
- 14:30-15:00**    **Free poster viewing of "posters of the day"**
- 15:00-15:30**    **Coffee**

### Workshop – Session II

Session Leaders: Luisa Hugerth

- 15:30-18:00**    **Retrieving, annotating and analysing metabarcoding data in R**
- 18:30**            **Dinner**

**Thursday 10 October, 2024**

**Microbial Communities Beyond The Gut - II**

**Chairperson:** Valentina Tremaroli

- 8:30-9:15**      **Vaginal microbiome and women's health**  
Juan Du  
Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet  
Sweden
- 9:15-9:30**      **Questions and discussion**
- 9:30-10:15**    **Oral microbiota in health and disease**  
Toni Gabaldón  
Institute for Research and Biomedicine (IRB), The Barcelona Institute of Science  
and Technology (BIST) and Barcelona Supercomputing Centre (BCS-CNS), Spain
- 10:15-10:30**    **Questions and discussion**
- 10:30-11:00**    **Coffee**

**Gut Microbiota in Health and Disease - III**

**Chairperson:** Björn Schröder

- 11:00-11:45**    **Gut microbiota in metabolic diseases**  
Fredrik Bäckhed  
Department of Molecular and Clinical Medicine, University of Gothenburg,  
Sweden
- 11:45-12:00**    **Questions and discussion**
- 12:00-13:30**    **Lunch**
- 13:30-14:30**    **Poster Session II**  
poster walks in groups in parallel (5 min presentation + 5 min questions)
- 14:30-15:00**    **Free poster viewing of "posters of the day"**
- 15:00-15:30**    **Coffee**
- 15:30-16:15**    **Mucins and the microbiome**  
Malin Johansson  
Department of Medical Biochemistry and Cell Biology, University of Gothenburg,  
Sweden
- 16:15-16:30**    **Questions and discussion**
- 16:30-18:30**    **Free time**
- 18:30**            **Course Dinner**

**Friday 11 October, 2024**

**Microbiota Community Perspectives**

**Chairperson:** Valentina Tremaroli

- 8:30-9:15**      **Gut virome – who is there and what are they doing?**  
Andrey Shkoporov  
APC Microbiome Ireland and School of Microbiology, University College Cork, Ireland
- 9:15-9:30**      **Questions and discussion**
- 9:30-10:15**    **Host-associated archaeome**  
Christine Moissl-Eichinger  
Diagnostic and Research Institute of Hygiene, Microbiology and Environmental  
Medicine, Medical University Graz, Austria
- 10:15-10:30**   **Questions and discussion**
- 10:30-11:00**   **Coffee**
- 11:00-11:45**   **Microbiome ecology and evolution of bacterial virulence**  
Erik Bakkeren  
Sir William Dunn School of Pathology, University of Oxford, UK
- 11:45-12:00**   **Questions and discussion**
- 12:00-13:30**   **Lunch**
- 13:30-14:00**   **Concluding remarks, evaluation, and course certificates**
- 14:00**          **Departure**