

# Microbiota and Health

**Monday 14 November, 2022**

## Registration and Welcome

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

## Introduction to Microbiota

Chairperson:

<b>14:00-14:45</b>	<b>Introduction to Microbiomes</b> Björn Schröder Department of Molecular Biology, Umeå University, Sweden
<b>14:45-15:00</b>	<b>Questions and discussion</b>
<b>15:00-15:15</b>	<b>Coffee</b>
<b>15:15-16:00</b>	<b>Microbiome Study Design and Data Analysis</b> Valentina Tremaroli Department of Molecular and Clinical Medicine, University of Gothenburg, Sweden
<b>16:00-16:15</b>	<b>Questions and discussion</b>
<b>16:15-17:15</b>	<b>Our Microbiome: Targets and Therapies for the Gastrointestinal Tract (Online lecture)</b> Willem de Vos Human Microbiome Research Program, University of Helsinki, Finland Laboratory of Microbiology, Wageningen University, The Netherlands
<b>17:15-17:30</b>	<b>Questions and discussion</b>
<b>17:30-18:00</b>	<b>Break</b>
<b>18:00-20:00</b>	<b>Dinner</b>
<b>20:00-21:00</b>	<b>Host-Bacterial Mutualism and Development of Symbioses</b> Edward Ruby Carnegie Institution for Science, California Institute of Technology, Church Laboratory, Pasadena, CA, USA

## Preliminary Schedule

**Tuesday 15 November, 2022**

### **Gut Microbiota in Health and Disease**

#### **Chairpersons:**

<b>8:30-9:15</b>	<b>Gut Microbiota and Health During Lifespan</b> Anne Salonen Human Microbiome Research Program, Faculty of Medicine, University of Helsinki, Helsinki, Finland
<b>9:15-9:30</b>	<b>Questions and discussion</b>
<b>9:30-10:15</b>	<b>Mucins and the Microbiome</b> Gunnar Hansson Department of Medical Biochemistry and Cell Biology, University of Gothenburg, Sweden
<b>10:15-10:30</b>	<b>Questions and discussion</b>
<b>10:30-10:45</b>	<b>Coffee</b>
<b>10:45-11:30</b>	<b>Gut Microbiota-Brain Axis</b> María Rodríguez Aburto APC Microbiome Ireland, Department of Anatomy and Neuroscience, University College Cork, Ireland
<b>11:30-11:45</b>	<b>Questions and discussion</b>
<b>11:45-13:30</b>	<b>Lunch</b>
<b>13:30-14:30</b>	<b>Poster Session I</b> 3 poster walks in groups in parallel (5 min presentation + 5 min questions)
<b>14:30-15:15</b>	<b>Free poster viewing of “posters of the day”</b>
<b>15:15-15:30</b>	<b>Coffee</b>
<b>15:30-16:15</b>	<b>Microbiota Interactions with the Intestinal Epithelium during Infection</b> Mariana Byndloss Vanderbilt Institute for Infection, Immunology and Inflammation, Department of Pathology, Microbiology, and Immunology, Vanderbilt Microbiome Innovation Center, Vanderbilt University, Nashville, TN USA
<b>16:15-16:30</b>	<b>Questions and discussion</b>
<b>16:30-17:15</b>	<b>Cohort digital health data to understand microbiome-host interactions</b> Elin Org Estonian Genome Centre, Institute of Genomics, University of Tartu, Estonia
<b>17:15-17:30</b>	<b>Questions and discussion</b>
<b>17:30-18:00</b>	<b>Break</b>
<b>18:00-20:00</b>	<b>Dinner</b>

## Preliminary Schedule

**Wednesday 16 November, 2022**

### Microbiota Beyond Bacteria

Chairperson: Host

- 8:30-9:15**                      **Gut virome – who is there and what are they doing? (On-line lecture)**  
Colin Hill  
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 (Online lecture)**  
Christine Moissl-Eichinger  
Diagnostic and Research Institute of Hygiene, Microbiology and Environmental Medicine, Medical University Graz, Austria and BioTechMed, Graz, Austria
- 10:15-10:30**                  **Questions and discussion**
- 10:30-10:45**                  **Coffee**

### Studying and Harnessing the Microbiota

Chairperson:

- 10:45-11:30**                  **From Association to Causality: the Role of the Gut Microbiota on Host Metabolism**  
Fredrik Bäckhed  
Department of Molecular and Clinical Medicine, University of Gothenburg, Sweden
- 11:30-11:45**                  **Questions and discussion**
- 11:45-13:30**                  **Lunch**
- 13:30-14:30**                  **Poster Session II**  
3 poster walks in groups in parallel (5 min presentation + 5 min questions)
- 14:30-15:15**                  **Free poster viewing of “posters of the day”**
- 15:15-15:30**                  **Coffee**

### Studying and Harnessing the Microbiota (continued)

Chairperson:

- 15:30-16:15**                  **Animal Models to Study Microbiomes (On-line lecture)**  
Aaron Ericsson  
Department of Veterinary Pathobiology, Metagenomics Center, and Mutant Mouse Resource and Research Center, University of Missouri, Columbia, MO
- 16:15-16:30**                  **Questions and discussion**
- 16:30-17:15**                  **Prebiotics and Probiotics**  
Amandine Everard  
Metabolism and Nutrition Research Group, Louvain Drug Research Institute, Walloon Excellence in Life Sciences and BIOTEchnology (WELBIO), UCLouvain, Université catholique de Louvain, Brussels, Belgium
- 17:15-17:30**                  **Questions and discussion**
- 17:30-18:00**                  **Break**
- 18:00-20:00**                  **Dinner**

## Preliminary Schedule

**Thursday 17 November, 2022**

### Microbial Therapeutics and Therapeutic Targets

Chairperson:

- 8:30-9:15**      **Citizen-Science Map of the Vaginal Microbiome: the Isala Study**  
Sarah Lebeer  
Department of Bioscience Engineering, Research Group Environmental Ecology and Applied Microbiology, University of Antwerp, Belgium
- 9:15-9:30**      **Questions and discussion**
- 9:30-10:15**    **Interactions between Drugs and the Human Gut Microbiota (On-line lecture)**  
Lisa Maier  
Interfaculty Institute of Microbiology and Infection Medicine and Cluster of Excellence 'Controlling Microbes to Fight Infections', University of Tübingen, Tübingen, Germany
- 10:15-10:30**    **Questions and discussion**
- 10:30-10:45**    **Coffee**
- 10:45-11:30**    **Fecal Microbiota Transplantation**  
Max Nieuwdorp  
Department of Internal and Vascular Medicine, Amsterdam University Medical Centres, The Netherlands
- 11:30-11:45**    **Questions and discussion**
- 11:45-13:30**    **Lunch**
- 13:30-14:30**    **Poster Session III**  
3 poster walks in groups in parallel (5 min presentation + 5 min questions)
- 14:30-15:15**    **Free poster viewing of “posters of the day”**
- 15:15-15:30**    **Coffee**

### Building Microbial Communities – Session I

Chairperson:

- 15:30-16:15**    **Genetic Adaptations between Hosts and their Microbiota (On-line lecture)**  
Ruth Ley  
Department of Microbiome Science, Max Planck Institute for Biology, Tübingen, Germany; Cluster of Excellence EXC 2124 Controlling Microbes to Fight Infections, Tübingen, Germany
- 16:15-16:30**    **Questions and discussion**
- 16:30-17:15**    **Collaboration and Competition in Host Microbiomes**  
Erik Bakkeren  
Department of Zoology and Department of Biochemistry, University of Oxford, UK
- 17:15-17:30**    **Questions and discussion**
- 17:30-18:00**    **Break**
- 18:00-20:00**    **Course Dinner**

## Preliminary Schedule

**Friday 18 November, 2022**

### **Building Microbial Communities – Session II**

**Chairperson:**

- 8:30-9:15**      **Rethinking Healthy Eating in Light of the Gut Microbiome**  
Pascale Vonaesch  
Department of Fundamental Microbiology, University of Lausanne, Bâtiment Biophore  
Campus UNIL-Sorge, Lausanne, Switzerland
- 9:15-9:30**      **Questions and discussion**

### **Microbiota Beyond the Gut**

**Chairperson:**

- 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**
- 10:30-10:45**      **Coffee**
- 10:45-11:30**      **Microbiota and Skin Health**  
Jürgen Harder  
Department of Dermatology, Kiel University, Germany
- 11:30-11:45**      **Questions and discussion**
- 11:45-13:00**      **Lunch**
- 13:00-13:30**      **Concluding remarks, evaluation, and course certificates**
- 14:00**              **Departure**