

Preliminary Schedule: lecturer names will be added when invitations are accepted

Microbiota and Health

Monday 14 November, 2022

Registration and Welcome

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

Introduction to Microbiota

Chairperson:

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

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Tuesday 15 November, 2022

Gut Microbiota in Health and Disease

Chairpersons:

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|--------------------|---|
| 8:30-9:15 | Gut Microbiota and Health During Lifespan
To be determined |
| 9:15-9:30 | Questions and discussion |
| 9:30-10:15 | Mucins and the Microbiome
Gunnar Hansson
Department of Medical Biochemistry and Cell Biology, University of Gothenburg, Sweden |
| 10:15-10:30 | Questions and discussion |
| 10:30-10:45 | Coffee |
| 10:45-11:30 | Gut Microbiota-Brian Axis
María Rodríguez Aburto
APC Microbiome Ireland, Department of Anatomy and Neuroscience, University College Cork, Ireland |
| 11:30-11:45 | Questions and discussion |
| 11:45-13:30 | Lunch |
| 13:30-14:30 | Poster Session I
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 |
| 15:30-16:15 | Microbiota Interactions with the Intestinal Epithelium during Infection
Mariana Byndloss
Vanderbilt Institute for Infection, Immunology and Inflammation, Department of Pathology, Microbiology, and Immunology, Vanderbilt Microbiome Innovation Center, Vanderbilt University, Nashville, TN USA |
| 16:15-16:30 | Questions and discussion |
| 16:30-17:15 | Rethinking Healthy Eating in Light of the Gut Microbiome
To be determined |
| 17:15-17:30 | Questions and discussion |
| 17:30-18:00 | Break |
| 18:00-20:00 | Dinner |

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Wednesday 16 November, 2022

Studying the Microbiota: Correlation vs Causation

Chairperson:

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|--------------------|---|
| 8:30-9:15 | Animal Models to Study Microbiomes
To be determined |
| 9:15-9:30 | Questions and discussion |
| 9:30-10:15 | From Association to Causality: the Role of the Gut Microbiota on Host Metabolism
Fredrik Bäckhed
Department of Molecular and Clinical Medicine, University of Gothenburg |
| 10:15-10:30 | Questions and discussion |
| 10:30-10:45 | Coffee |
| 10:45-11:30 | Fecal Microbiota Transplantation
To be determined |
| 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 |

Microbiota Beyond Bacteria

Chairperson:

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|--------------------|--|
| 15:30-16:15 | 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 |
| 16:15-16:30 | Questions and discussion |
| 16:30-17:15 | Gut Mycobiota
To be determined |
| 17:15-17:30 | Questions and discussion |
| 17:30-18:00 | Break |
| 18:00-20:00 | Dinner |

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Thursday 17 November, 2022

Microbial Therapeutics and Therapeutic Targets

Chairperson:

- 8:30-9:15** **Citizen-Science Map of the Vaginal Microbiome: the Isala Study**
To be determined
- 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** **Prebiotics and Probiotics**
To be determined
- 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** **Dinner**

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Friday 18 November, 2022

Building Microbial Communities – Session II

Chairperson:

8:30-9:15 **Social Interactions in Gut Microbiota**
To be determined

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**