

Microbiota and Health

Arranged by -



November 30, 2020

Session 1: Introduction to Microbiota and Tools for Study

Chairperson: Debra Milton

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|---|--|
| 8:30-9:30 | Welcome / Participant Introductions |
| 9:30-10:15 | Introduction to Microbiomes
<i>Björn Schröder</i>
<i>Department of Molecular Biology, Umeå University, Sweden</i> |
| 10:15-10:30 | Break |
| 10:30-11:15 | Microbiome Study Design and Data Analysis
<i>Valentina Tremaroli</i>
<i>Department of Molecular and Clinical Medicine, University of Gothenburg, Sweden</i> |
| 11:15-12:00 | Animal Models to Study Microbiomes
<i>François Leulier</i>
<i>The Institute of Functional Genomics of Lyon (IGFL), Ecole Normale Supérieure de Lyon, the CNRS and Claude Bernard University Lyon 1, France</i> |
| 12:00-12:45 | Lunch |
| 12:45-13:45
Keynote Talk | Our Microbiome: Targets and Therapies for the Tract
<i>Willem de Vos</i>
<i>Department of Agrotechnology and Food Sciences, Microbiology, Wageningen University, Netherlands</i>
<i>Department of Bacteriology and Immunology, University of Helsinki, Finland</i> |
| 13:45-14:00 | Break |
| 14:00-15:00 | Poster Session
Group 1 |
| 15:00-16:00 | Data analysis exercises and further discussions |

December 1, 2020

Session 2 Microbiota Interactions with Intestines and Host Metabolism

Chairperson: Björn Schröder

- 8:45-9:30** **Microbiota Interactions with Mucosal Surfaces**
Gunnar Hansson
Department of Medical Biochemistry and Cell Biology, University of Gothenburg, Sweden
- 9:30-10:15** **Immune System and Inflammatory Bowel Diseases**
Lena Öhman
Department of Microbiology and Immunology, University of Gothenburg, Sweden
- 10:15-10:30** **Break**
- 10:30-11:15** **Microbiomes in Diabetes and Obesity**
Fredrik Bäckhed
Department of Molecular and Clinical Medicine, University of Gothenburg, Sweden
- 11:15-12:00** **Lunch**

Session 3 Microbiota Interactions with Drugs

Chairperson:

- 12:00-12:45** **Drug-Microbiota Interactions**
Nassos Typas
Genome Biology, EMBL Heidelberg, Germany
- 12:45-13:30** **Gut Microbiome Contributions to Drug Metabolism and Toxicity**
Michael Zimmerman
Structure and Computational Biology, EMBL Heidelberg, Germany
- 13:30-13:45** **Break**
- 13:45-14:45** **Poster Session**
Group 2
- 14:45-16:45** **Career Decisions and Transitions Workshop**
Sarah Blackford
Academic Career Consultant
Bioscience Careers

December 2, 2020

Session 4 Microbiota Shaping Humans

Chairperson:

- 11:30-12:15** **Lunch**
- 12:15-13:00** **Effects of Diet and Age on the Microbiome**
Paul O'Toole
School of Microbiology and APC Microbiome Institute, University College Cork, Ireland
- 13:00-13:45** **Early Life Microbiota**
Anne Salonen
Human Microbiome Research Program, Faculty of Medicine, University of Helsinki, Finland
- 13:45-14:00** **Break**
- 14:00-14:45** **Microbiota and Skin Health**
Jürgen Harder
Department of Dermatology, Kiel University, Germany
- 14:45-15:30** **Microbiota-Gut-Brain Axis**
Robert Brummer
School of Medical Sciences, Örebro University, Sweden
- 15:30-15:45** **Break**
- 15:45-16:45** **Poster Session**
Group 3
- 16:45-17:00** **Break**
- 17:00-18:00** **Ancestral and Industrialized Gut Microbiota**
Erica and Justin Sonnenburg
Department of Microbiology and Immunology and Center for Human Microbiome Studies, Stanford University School of Medicine, CA, USA

December 3, 2020

Session 4 Microbiota Shaping Humans (continued)

Chairperson:

8:45-9:30 **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), Barcelona, Spain

9:30-10:15 **Genitourinary Tract Microbiome**
Lars Engstrand
Department of Microbiology, Tumor and Cell Biology and Science for Life Laboratory, Karolinska Institute, Sweden

10:15-10:30 **Break**

Session 5 Modifying the Microbiota

Chairperson:

10:30-11:15 **Prebiotics and Probiotics**
Nathalie Delzenne
Metabolism and Nutrition Research Group, Louvain Drug Research Institute, Université Catholique de Louvain, Brussels, Belgium

11:15-12:00 **Fecal Transplants**
Max Nieuwdorp
Department of Internal and Vascular Medicine, Amsterdam University Medical Centres, The Netherlands

12:00-12:45 **Lunch**

12:45-13:45 **Poster Session**
Group 4

13:45-14:00 **Break**

Session 6 Microbiota in Other Organisms

Chairperson:

14:00-14:45 **Microbiota of Farmed Animals**
Phillip Pope
Department of Animal and Aquacultural Sciences, Norwegian University of Life Sciences, Norway

14:45-15:30 **Microbiota and Plant Health**
Davide Bulgarelli
Plant Sciences, School of Life Sciences, University of Dundee, Scotland

15:30-16:30 **Student's One-Minute Summary Statements and Final Remarks**