

Program

Monday 28 September

09:40 **Bus Departure from Umeå Airport**

10:00 **Bus Departure from Umeå University, Universum**

Registration and Welcome

11:00 **Registration and Poster Mounting**

11:30 - 12:30 **Lunch**

12:30 - 12:45 **Welcome and Short Introduction**
Chinmay Dwibedi, Umeå University, Sweden
Valentina Tremaroli, University of Gothenburg, Sweden

Session I

Chair: Daizee Talukdar, Umeå University, and Kezia Drane, Umeå University

12:45 - 13:30 **Introduction to Metagenomic Data Analysis 1**
Chinmay Dwibedi, Umeå University, Sweden
[Biosketch on page 12](#)

13:30 - 13:45 **Questions and Discussion**

13:45 - 14:30 **Hands-on Session 1**

14:30 - 15:00 **Coffee**

15:00 - 16:00 **Hands-on Session 2**

16:00 - 16:15 **Short Break**

Session II

Chair: Chetan Sharaf, Umeå University, and Yingyu Mu, Umeå University

16:15 - 17:00 **Read Mapping: Algorithms, Parameters, and Limitations**
Kristoffer Sahlin, Stockholm University, Sweden
[Biosketch on page 13](#)

17:00 - 17:15 **Questions and Discussion**

17:15 - 18:15 **Poster Session I**
Poster walks in parallel groups

18:15 - 19:00 **Free Time and Check-in**

19:00 **Dinner**

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Session III

Chair: Chinmay Dwibedi, Umeå University, and Kezia Drane, Umeå University

08:30 - 09:15	Precision Microbial Genomics Through Long-Read Sequencing Jakob Wirbel, Helmholtz Centre for Infection Research, Germany <i>Biosketch on page 14</i>
09:15 - 09:30	Questions and Discussion
09:30 - 10:15	Introduction to Metagenomic Data Analysis 2 Chinmay Dwibedi, Umeå University, Sweden <i>Biosketch on page 12</i>
10:15 - 10:30	Questions and Discussion
10:30 - 11:00	Coffee
11:00 - 12:00	Hands-on Session 3
12:00 - 13:00	Lunch

Session IV

Chair: Valentina Tremaroli, University of Gothenburg, and Daizee Talukdar, Umeå University

13:00 - 14:00	Hands-on Session 4
14:00 - 14:15	Short Break
14:15 - 15:15	Poster Session II Poster walks in parallel groups
15:15 - 15:45	Coffee
15:45 - 16:30	Resolving Microbial Genomes in Complex Communities at the Single-Cell Level Laura Carroll, Umeå University, Sweden <i>Biosketch on page 15</i>
16:30 - 16:45	Questions and Discussion
16:45 - 19:00	Social Activity - Outing to Vindelforsarna
19:00	Dinner
20:00	Social Activity - Pub Quiz

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Wednesday 30 September

Session V

Chair: Laura Carroll, Umeå University, and Chetan Sharaf, Umeå University

- 08:30 - 09:15** **A Family Known Only by Its Worst Member**
Andreas Sjödin, Swedish Defence Research Agency (FOI), Sweden
[*Biosketch on page 16*](#)
- 09:15 - 09:30** **Questions and Discussion**
- 09:30 - 10:30** **Panel Discussion on Long Reads in Metagenomics**
Moderator: Chinmay Dwibedi
- 10:30 - 11:00** **Coffee**
- 11:00 - 11:30** **Beyond A, T, C and G: Uncovering the Hidden Methyloome of Microbial Genomes – Online Lecture**
Chuqing Sun, University of Gothenburg, Sweden
[*Biosketch on page 17*](#)
- 11:30 - 12:00** **Tracking 'Jumping Gene' Activity in the Gut with Long-Read Metagenomics – Online Lecture**
Aaron Behr, Stanford University, USA
[*Biosketch on page 18*](#)
- 12:00 - 13:00** **Lunch**

Session VI

Chair: Kristoffer Sahlin, Stockholm University, and Yingyu Mu, Umeå University

- 13:00 - 13:45** **Data Driven Investigation of Ecological Determinants of Microbiome State and Transition**
Tarini Shankar Ghosh, Indraprastha Institute of Information Technology (IIIT) Delhi, India
[*Biosketch on page 19*](#)
- 13:45 - 14:00** **Questions and Discussion**
- 14:00 - 14:45** **Beyond Annotation: Characterizing the Unknown Gut Microbiome**
Valentina Tremaroli, University of Gothenburg, Sweden
[*Biosketch on page 20*](#)
- 14:45 - 15:00** **Questions and Discussion**
- 15:00 - 15:15** **Coffee, Closing Remarks, Course Certificates, and Course Evaluation**
- 15:15** **Bus Departure to Umeå Airport and Umeå University**