

# 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:

**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:

**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**

# Program

## Tuesday 29 September

### Session III

Chair:

**08:30 - 09:15 Precision microbial genomics through long-read sequencing**

Jakob Wirbel, Helmholtz Centre for Infection Research, Germany  
*Biosketch on page 14*

**09:15 - 09:30 Questions and discussion**

**09:30 - 10:15 Introduction to metagenomic data analysis 2**

Chinmay Dwibedi, Umeå University, Sweden  
*Biosketch on page 12*

**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

**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 Seeing the Unseen**

Andreas Sjödin, Swedish Defence Research Agency (FOI), Sweden  
*Biosketch on page 15*

**16:30 - 16:45 Questions and discussion**

**16:45 - 17:45 Panel Discussion on Long Reads in Metagenomics**

**17:45 - 18:30 Free Time**

**18:30 Dinner**

**19:30 Social Activity**

# Program

## Wednesday 30 September

### Session V

Chair:

**08:30 - 09:15**    **Resolving Microbial Genomes in Complex Communities at the Single-Cell Level**

Laura Carroll, Umeå University, Sweden

*Biosketch on page 16*

**09:15 - 09:30**    **Questions and discussion**

**09:30 - 10:30**    **Hands on Session 5**

**10:30 - 11:00**    **Coffee**

**11:00 - 12:00**    **Hands on Session 6**

**12:00 - 13:00**    **Lunch**

### Session VI

Chair:

**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

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**13:45 - 14:00**    **Questions and discussion**

**14:00 - 14:45**    **Beyond annotation: characterizing the unknown gut microbiome**

Valentina Tremaroli, University of Gothenburg

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**14:45 - 15:00**    **Questions and discussion**

**15:00 - 15:30**    **Coffee, Closing Remarks, Course Certificates, and Course Evaluation**

**15:30**            **Bus Departure to Umeå Airport and Umeå University**