**Preliminary Program Principles of Infection Biology**

**UiT - The Arctic University of Tromsø, May 30 - June 3, 2022**

**Monday May 30, 2022**

**Session 1: Introduction, Basic Concepts and History**

10 - **Registration and poster mounting**

11:00-11:30 **Welcome / Participant Introductions**

11:30-12:15 **Studying Microbial Pathogenesis**

 Michael Koomey, Department of Biosciences, University of Oslo, Norway

12:15-12:30 **Questions and Discussion**

12:30-13:30 **Lunch**

13:30-14:15 **Concepts of Virulence**

 TBC

14:15-14:30 **Questions and Discussion**

14:30-14:45 **Coffee**

**Session 2: Microbiota/Commensals**

14:45-15:30 **Gut Microbiota and Health During Lifespan**

Anne Salonen, Human Microbiome Research Program, Faculty of Medicine, University of Helsinki, Finland

15:30-15:45 **Questions and Discussion**

15:45-16:30 **Gut Microbiota and Metabolic Diseases**

 Valentina Tremaroli, Department of Molecular and Clinical Medicine, University of Gothenburg, Sweden

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

16:45-17:00 **Break**

17:00 -17:45 **Animal Models for Drug Development Against Respiratory**  **Infectious diseases (online)**

 Priscille Brodin, University of Lille, Inserm, Institut Pasteur de Lille, France

17:45-18:00 **Questions and Discussion**

**Tuesday June 31, 2022**

**Session 3: Bacterial Pathogens**

8:30-9:15 **Sweet Appearances: Staphylococcus Surface Glycans at the Host-pathogen Interface (online)**

 Nina van Sorge, Department of Medical Microbiology, Amsterdam University Medical Center, Netherlands

9:15-9:30 **Questions and Discussion**

9:30-09:45 **Break**

09:45-10:30 **Genetic Screens and Synthetic Biology Approaches in**

 **Pneumococci**

TBC

10:30-10:45 **Questions and Discussion**

10:45-11:00 **Break**

11:00-12:00 **Poster Session I**

(5 min presentation + 5 min questions in 3 parallel groups)

12:00-12:30 **Free poster viewing of the "posters of the day"**

12:30-14:30 **Lunch**

**Session 4: Bacterial Pathogens contd.**

14:30-15:15 **Molecular Genetic Approaches to Unveil the Secrets of**

 **Chlamydia’s Intracellular Life**

 Barbara Sixt, Department of Molecular Biology, Umeå University, Sweden

15:15-15:30 **Questions and Discussion**

15:30-15:45 **Break**

15:45-16:30 **Immune Suppression by Salmonella**

 TBC

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

**Wednesday June 1, 2022**

**Session 5: Virology**

8:30-9:15 **Animal Viruses**

 TBC

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

9:30-09:45 **Break**

09:45-10:30 **Influenza**

 TBC

10:30-10:45 **Questions and Discussion**

10:45-11:00 **Break**

11:00-12:00 **Poster Session II**

(5 min presentation + 5 min questions in 3 parallel groups)

12:00-12:30 **Free poster viewing of the "posters of the day"**

12:30-14:30 **Lunch**

14:30-15:15 **Hantaviruses**

 TBC

15:15-15:30 **Questions and Discussion**

15:30-15:45 **Break**

15:45-16:30 **Antiviral Therapy-focus Influenza, RSV, and Coronaviruses**

 TBC

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

19:00-21:00 **Course dinner**

**Thursday June 2, 2022**

**Session 6: Host Response and Immune Evasion**

8:30-9:15 **Host Response to Infection**

 Luke O’Neill, School of Biochemistry and Immunology, Trinity College, Dublin, Ireland

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

9:30-09:45 **Break**

09:45-10:30 **Detection of Pathogen Infection by the Host**

 Clare Bryant, Department of Medicine, Department of Veterinary Medicine, University of Cambridge, United Kingdom

10:30-10:45 **Questions and Discussion**

10:45-11:00 **Break**

11:00-11:45 **Host models of infection Imaging and Models of Host and Microbe**  **Interaction**

Pere Joan Cardona, Unitat de Tuberculosi Experimental, Institut Germans Trias i Pujol, UAB, Badalona, Spain.

11:45-12:00 **Questions and Discussion**

12:00-14:00 **Lunch**

14:00-15:00 **Poster Session III**

(5 min presentation + 5 min questions in 3 parallel groups)

15:00-15:30 **Free poster viewing of the "posters of the day"**

15:30-15:45 **Break**

**Session 7: Parasitology**

15:45-16:30 **Basic Parasitology**

 Staffan Svärd, Department of Cell and Molecular Biology, Uppsala University, Sweden

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

16:45-17:30 **Molecular mechanisms of Plasmodium motility and invasion -**  **Perspectives on drug design**

Inari Kursula, Department of Biomedicine, UiB, Norway

17:30-17:45 **Questions and Discussion**

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**Session 8: Human Infection Studies**

17:45-18:00 **Break**

18:00-18:45 **Human Infection Studies**

Robert Charles Read, Infectious Disease and Clinical Microbiology,University of Southampton, United Kingdom

18:45-19:00 **Questions and Discussion**

**Friday June 3, 2023**

**Session 9: Student-invited Lectures**

8:30-9:15 **AMR and infectious diseases (online)**

 Bjørn Blomberg, Department of Medicine, Haukeland University Hospital and Department of Clinical Science, University of Bergen, Bergen, Norway

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

9:30-09:45 **Break**

09:45-10:30 **Statistical and Mathematical Models for Infectious Diseases**

 Kathleen O'Reilly, Centre for the Mathematical Modelling of Infectious Diseases, London School of Hygiene and Tropical Medicine, London, UK

10:30-10:45 **Questions and Discussion**

10:45-11:00 **Break**

11:00-11:45 **To be determined**

TBC

11:45:12:00 **Questions and Discussion**

**Session 11: Course Summation**

12:00:12:30 **Concluding remarks, evaluation, and course certificates**

12:30:13:30 **Lunch (to bring or eat on place)**