PROGRAM

Thursday, May 5th

08:30-09:00 **Registration and coffee**

09:00-09:15 **Welcome and opening remarks**
Ivan Mijakovic • Technical Univ. of Denmark/Chalmers Univ. of Technology

09:15-11:00 **Session 1 - Protein Phosphorylation in pathogens**
Chair: Ivan Mijakovic • Technical Univ. of Denmark/Chalmers Univ. of Technology

09:15-10:00 **Keynote lecture: Christophe Grangeasse** • Université de Lyon
K1: Regulation of cell division of *Streptococcus pneumoniae* by the S/T-kinase StkP

10:00-10:20 **Mevlüt Ulaş** • University College Dublin
T1: Microbiome-wide phosphotyrosine alteration in inflammatory bowel disease

10:20-10:40 **Christoph Grundner** • Seattle Children's
T2: The *Mycobacterium tuberculosis* protein O-phosphorylation landscape

10:40-11:00 **Ditlev. E. Brodersen** • Aarhus Universitet
T3: Structural basis for regulation of a tripartite toxin-antitoxin system by dual phosphorylation

11:00-11:30 **Coffee break**

11:30-13:00 **Session 2 - Protein Phosphorylation in metabolism**
Chair: Karl Forchhammer • University of Tübingen

11:30-12:00 **Short keynote lecture: Orna Amster-Choder** • Hebrew University
K2: Tyrosine phosphorylation-dependent localization and phase separation of a novel pole-localizer in *E. coli*

12:00-12:20 **Julie Bonne Køhler** • Technical University of Denmark
T4: Non-enzymatic Ser/Thr/Tyr phosphorylation: a new player in bacterial protein phosphorylation?

12:20-12:40 **Sofia Doello** • University of Tübingen
T5: A regulatory phosphorylation event of phosphoglucomutase 1 tunes its activity to regulate glycogen metabolism

12:40-13:00 **Fabio Gratani** • University of Tübingen
T6: Characterization of a novel Ser/Thr kinase in *Escherichia coli*

13:00-14:15 Lunch break

14:15-16:00 Session 3 - Acetylation and Lipidation
Chair: Julie Hardouin • Université de Rouen

14:15-15:00 **Keynote lecture: Jorge Escalante-Semerena** • University of Georgia
K3: Impact of N-acylation on Bacterial Cell Physiology

15:00-15:20 **Brandon Robin** • Université de Rouen
T7: Sirtuins are key players of biofilm formation, virulence and resistance in *Acinetobacter baumannii*.

15:20-15:40 **Hanne Hendrix** • KU Leuven
T8: Exploring protein lysine acetylations during phage infection in *Pseudomonas aeruginosa*

15:40-16:00 **Nicolas Bayan** • Université Paris-Saclay
T9: Protein Mycoloylation in *Corynebacteriales*

16:00-18:00 Poster session and coffee

18:00-19:30 City center tour: visit to Tivoli

20:00-22:00 Conference dinner

Friday, May 6th

08:30-09:00 Coffee

09:00-10:45 Session 4 - Protein Glycosylation and Pupylation
Chair: Eilika Weber-Ban • ETH Zürich

09:00-09:45 **Keynote lecture: Stuart J. Cordwell** • University of Sydney
K4: Identifying protein post-translational modifications in *Campylobacter jejuni* for better understanding human virulence

09:45-10:05 **Nicolas Kint** • Université de Genève
T10: The sweet decoration of flagellins in *Caulobacter crescentus* and Co.

10:05-10:25 **Martin Pabst** • TU Delft
T11: The unique surface layer glycosylation of anammox bacteria revealed by mass binning glycoproteomics

10:25-10:45 **Lena Keller** • ETH Zürich
T12: The Pup-Proteasome System and its Involvement in Iron Homeostasis in *M. smegmatis*

10:45-11:15 Coffee break

11:15-13:00 Session 5 - Advances in methods for analysis of PTMs
Chair: Boris Macek • University of Tübingen

11:15-12:00 **Keynote lecture: Céline Henry** • Université Paris-Saclay
K5: State of the art on the study of phosphoproteins in bacteria

12:00-12:20 **Philipp Spät** • University of Tübingen
T13: O phosphorylation is a regulator of the acclimation to fluctuating carbon supply in the cyanobacterium *Synechocystis* sp. PCC6803

12:20-12:40 **Nicolas Nalpas** • University of Tübingen
T14: The proteogenomics landscape of the cyanobacterium *Synechocystis* sp. PCC6803 identifies novel genes and phosphorylation sites

12:40-13:00 **Evgeniya Schastnaya** • ETH Zürich
T15: Regulation of *E. coli* metabolism by phosphorylation and acetylation

13:00-14:15 Lunch break

14:15-14:45 Session 6 – PTMs: Lessons we can learn from yeast
Chair: Carsten Jers • Technical University of Denmark

14:15-14:45 **Short keynote lecture: Mordechai Choder** • Technion Israel Institute of Technology
K6: Post-translational modifications of Rpb4 are required for the linkage between mRNA synthesis, translation and decay

14:45-15:00 Oral and poster prize award for the best presenting junior scientists

15:00-15:15 Concluding remarks by Prof. Ivan Mijakovic

END