

Proteomics in Cell Biology and Disease Mechanisms

30 March – 1 April 2020

Wellcome Genome Campus,
Hinxton, Cambridge, UK

Draft Conference Programme

Monday 30 March 2020

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|-------------|---|
| 11:30-13:00 | Registration |
| 13:00-13:30 | Welcome and introductions
<i>Matthias Mann</i>
<i>Max Planck Institute of Biochemistry, Germany</i> |
| 13:30-14:30 | Session I: Computational Approaches
<i>Chair: Angus Lamond, University of Dundee, UK</i> |
| | 13:30 Infrastructure for Big Data at the EMBL-EBI
<i>Johanne McEntyre</i>
<i>EMBL-EBI, UK</i> |
| | 14:00 PRIDE and ProteomeXchange: Enabling “big data” approaches in proteomics
<i>Juan Antonio Vizcaino</i>
<i>EMBL-EBI, UK</i> |
| | 14:30 Next-gen proteomics: how machine learning opens up the epi-proteome
<i>Lennart Martens</i>
<i>VBI – Ghent University, Belgium</i> |
| 15:00-15:30 | Afternoon Tea |
| 15:30-17:30 | Session I continued: Computational Approaches |
| | 15:30 Deep learning to assist the identification of neoantigens
<i>Matthias Wilhelm</i>
<i>TU Munich, Germany</i> |
| | 16:00 Bayesian Analysis of Label-free Proteomics Data
<i>Lukas Kall</i>
<i>KTH, Sweden</i> |

16:30 Short talk selected from submitted abstract
16:45 Short talk selected from submitted abstract
17:00-17:45 **Lightning talks**
Chair: Angus Lamond, University of Dundee, UK
17:45-18:45 **Poster session I (odd numbers) with drinks reception**
18:50 prompt **Buffet dinner**
18:50 **Cash bar**

Tuesday 31 March 2020

09:00-10:30 **Session 2: Structural Proteomics**
Chair: Emma Lundberg, Science for Life Laboratory (KTH), Sweden

09:00 The modular proteome and its clinical significance
Ruedi Aebersold
ETH, Switzerland

09:30 Title
Carol Robinson
Oxford University, UK

10.00 Short talk selected from submitted abstract
10.15 Short talk selected from submitted abstract

10:30-11:00 **Morning coffee**

11:00-12:30 **Session 3: Organella**
Chair: Juan Antonio Vizcaino, EMBL-EBI, UK

11:00 Title
Kathryn Lilley
Cambridge University, UK

11:30 Analysis of Cellular Processes in Metabolic Diseases by Proteomic
Organelle Profiling
Natalie Kraemer
Helmholtz Centre, Germany

12:00 Short talk selected from submitted abstract
12:15 Short talk selected from submitted abstract

12:30-14:00 **Lunch**

14:00-15:30

Session 4: Spatial Proteomics

Chair: Matthias Mann, Max Planck Institute of Biochemistry, Germany

14:00 Title
Emma Lundberg
Science of Life Laboratory (KTH), Sweden

14:30 Title
Bernd Bodenmiller
University of Zurich, Switzerland

15:00 Short talk selected from submitted abstract

15:15 Short talk selected from submitted abstract

15:30-16:00

Afternoon tea

16:00-17:30

Session 5: Protein – protein interactions

Chair: Juan Antonio Vizcaino, EMBL-EBI, UK

16:00 Title
Anne Claude Gingras
University of Toronto, Canada

16.30 Short talk selected from submitted abstract

16:45 Short talk selected from submitted abstract

17:00-17:45

Lightning talks

Chair: Juan Antonio Vizcaino, EMBL-EBI, UK

17:45-18:45

Poster session 2 (even numbers) with drinks reception

18:50 prompt

Silver service conference dinner

18:50

Cash Bar

Wednesday 1 April 2020

09:00-10:30

Session 6: Post-translational Modifications

Chair: Emma Lundberg, Science of Life Laboratory (KTH), Sweden

09:00 Applying proteomics to understand circadian biology
Maria Robles
Munich University, Germany

09:30 Title
Ruth Huettenhain
UCSF, USA

10:00 Short talk selected from submitted abstract

10.15 Short talk selected from submitted abstract

10:30-11:00

Morning coffee

11:00-12:45

Session 7: Technology

Chair: Matthias Mann, Max Planck Institute of Biochemistry, Germany

11:00 Personalized proteome diversity studied by hybrid mass spectrometry approaches

Albert Heck

Utrecht University, The Netherlands

11:30 Title

Catherine Wong

Peking University, China

12:00 Short talk selected from submitted abstract

12:15 Short talk selected from submitted abstract

12.30 -12:45

Closing remarks

Angus Lamond, University of Dundee, UK

12:45 -13:30

Lunch

**Coaches depart to Cambridge City Centre and Train Station,
Heathrow Airport via Stansted Airport**