EMBL

# Quantitative Proteomics: Strategies and Tools to Probe Biology

EMBO PRACTICAL COURSE

EMBO | EMBO Practical Course

**We have moved our website to embl.org/events. The content below is no longer being updated.**

**EMBL Courses and Conferences during the Coronavirus pandemic**

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found here.

## Programme

Got something to say? Tweet it with #EMBOQuantPro

HIDE ALL

### Day 1 - Sunday 17 June 2018

| Time | Speaker | Location |
|---|---|---|
| 13:45 - 14.00 | **Arrival & Welcome** | Computer Training Lab |

| Time | Speaker | Location |
|---|---|---|
| 14.00 - 14.45 | **Introduction: Quantitative proteomics for biology**<br>Jeroen Krijgsveld - *DKFZ, Heidelberg, Germany*<br>Paola Picotti - *ETH Zurich, Switzerland*<br>Misha Savitski - *EMBL Heidelberg, Germany* | Computer Training Lab |
| 14.45 - 16.15 | **Lecture: Peptide chromatography in proteomics**<br>Shabaz Mohammed - *University of Oxford, United Kingdon* | Computer Training Lab |
| 16.15 - 16.30 | **Coffee break** | Computer Training Lab |
| 16.30 - 17.30 | **Flash talks by participants - Even numbers** | Computer Training Lab |
| 17.30 - 18.30 | **Poster session (even numbers) & Drinks** | Rooftop Lounge |
| 18.30 | **Dinner** | Rooftop Lounge |

## Day 2 - Monday 18 June 2018

| Time | Speaker | Location |
|---|---|---|
| 09.00 - 10.00 | **Lecture: MS technologies**<br>Dominic Helm - *EMBL Heidelberg, Germany* | Computer Training Lab |
| 10.00 - 11.15 | **Lecture: Protein identification**<br>Lennart Martens - *University of Ghent, Belgium* | Computer Training Lab |
| 11.15 - 11.30 | **Coffee break** | Computer Training Lab |
| 11.30 - 12.30 | **Practical: Protein identification**<br>Lennart Martens - *University of Ghent, Belgium*<br>Tim Van Den Bossche - *University of Ghent, Belgium* | Computer Training Lab |
| 12.30 - 13.30 | **Lunch break** | EMBL Canteen |
| 13.30 - 15.00 | **Practical: Peptide and Protein Identification**<br>Lennart Martens - *University of Ghent, Belgium*<br>Tim Van Den Bossche - *University of Ghent, Belgium* | Computer Training Lab |
| 15.00 – 16.15 | **Lab tour + Coffee break** | |

| Time | Speaker | Location |
|---|---|---|
| 16.15 - 17.00 | **Flash talks by participants - Odd numbers** | Computer Training Lab |
| 17.00 - 18.00 | **Lecture: Application talk**<br>Paola Picotti - *ETH Zurich, Switzerland* | Computer Training Lab |
| 18.00 - 19.00 | **Dinner** | EMBL Canteen |
| 19.00 - 20.00 | **Poster session (Odd numbers) & Drinks** | Rooftop Lounge |

## Day 3 - Tuesday 19 June 2018

| Time | Speaker | Location |
|---|---|---|
| 09.00 - 10.00 | **Lecture: MS1-based quantification**<br>Sonja Radau - *Thermo Fisher Scientific, Germany* | Computer Training Lab |
| 10.00 - 12.30 | **Practical: Data analysis by MaxQuant**<br>Juergen Cox - *Max Planck Institute, Martinsried, Germany* | Computer Training Lab |
| 12.30 - 13.30 | **Lunch break** | EMBL Canteen |
| 13.30 - 15.30 | **Practical: Data analysis by MaxQuant (continued)**<br>Juergen Cox - *Max Planck Institute, Martinsried, Germany* | Computer Training Lab |
| 15.30 - 16.00 | **Coffee break** | Computer Training Lab |
| 16.00 - 17.00 | **Lecture: Application talk**<br>Ileana Cristea - *Princeton University, USA* | Computer Training Lab |
| 17.00 - 18.00 | **Lecture: Application talk**<br>**Phospho-proteomics**<br>Judit Villen - *University of Washington, USA* | Computer Training Lab |
| 18.00 -19.00 | **Dinner** | EMBL Canteen |
| 19.00 -20.00 | **Poster session (all participants) & Drinks** | Rooftop Lounge |

## Day 4 - Wednesday 20 June 2018

| Time | Speaker | Location |
|---|---|---|
| 09.00 - 10.30 | **Lecture: Introduction and application talk**<br>**MS2-based quantification: TMT**<br>Misha Savitski - *EMBL, Heidelberg, Germany* | Computer Training Lab |
| 10.30 - 12.00 | **Practical: data analysis of TMT data**<br>Misha Savitski - *EMBL Heidelberg, Germany*<br>Frank Stein **-** *EMBL Heidelberg, Germany*<br>Bernd Klaus - *EMBL Heidelberg, Germany* | Computer Training Lab |
| 12.00 - 13.00 | **Lunch break** | EMBL Canteen |
| 13.00 - 14.30 | **Practical: data analysis of TMT data (continued)**<br>Misha Savitski - *EMBL Heidelberg, Germany*<br>Frank Stein - *EMBL Heidelberg, Germany*<br>Bernd Klaus - *EMBL Heidelberg, Germany* | Computer Training Lab |
| 14.30 - 14.45 | **Coffee break** | Computer Training Lab |
| 14:45 - 17.30 | **Lecture: Introduction and tutorial**<br>**MS platforms for DDA and DIA**<br>Sonja Radau - *Thermo Fisher Scientific, Germany*<br>Myriam Demant - *Thermo Fisher Scientific, Germany* | Computer Training Lab |
| 17.30 | **Free evening** | |

## Day 5 - Thursday 21 June 2018

| Time | Speaker | Location |
|---|---|---|
| 09.00 - 10.00 | **Label-free quantification**<br>Myriam Demant - *Thermo Fisher Scientific, Germany* | Computer Training Lab |
| 10.00 - 12.30 | **Lecture: Introduction and practical Label-free quantification by SWATH**<br>Ludovic Gillet - *ETH Zurich, Switzerland* | Computer Training Lab |
| 12.30 - 13.30 | **Lunch break** | EMBL Canteen |
| 13.30 - 16.00 | **Practical: Label-free quantification by SWATH**<br>Ludovic Gillet - *ETH Zurich, Switzerland* | Computer Training Lab |

| Time | Speaker | Location |
|---|---|---|
| 16.00 - 17.00 | **Lecture: Deep Proteomes, iPS cells & Tools for Navigating the resulting Data Mountain**<br>Angus Lamond - *Dundee University, UK* | Computer Training Lab |
| 17.00 | **Guided City Tour & Dinner Dowton** | |

## Day 6- Friday 22 June 2018

| Time | Speaker | Location |
|---|---|---|
| 09.00 - 10.00 | **Lecture: Proximity proteomics approaches to illuminate cellular organization**<br>Anne-Claude Gingras - *Lunenfeld-Tanenbaum Research Institute, Canada* | Computer Training Lab |
| 10.00 - 10.45 | **Lecture: Application talk**<br>**Pulsed SILAC**<br>Jeroen Krijgsveld - *DKFZ, Heidelberg, Germany* | Computer Training Lab |
| 10.45 - 12.30 | **Break-out session: discussion groups** | Computer Training Lab |
| 12.30 - 13.30 | **Lunch break** | EMBL Canteen |
| 13.30 - 14.30 | **Presentations from break-out session & panel discussion** | Computer Training Lab |
| 14.30 - 15.30 | **Lecture: Complementary Mass Spectrometry based Methods for Probing Protein Assemblies and Interactions**<br>Albert Heck - *Utrecht University, The Netherlands* | Computer Training Lab |
| 15.30 - 16.00 | **Recap & farewell** | Computer Training Lab |