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 The content below is no longer being updated.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 5 May 2019

Time	Speaker	Location
13:45 - 14:00	**Arrival & Welcome**	Computer Training Lab

Time	Speaker	Location
14:00 - 14:45	**Introduction: Quantitative proteomics for biology** Jeroen Krijgsveld - DKFZ, Heidelberg, Germany Paola Picotti - ETH Zurich, Switzerland Mikhail Savitski - EMBL Heidelberg, Germany	Computer Training Lab
14:45 - 16:15	**Lecture: Peptide chromatography in proteomics** Shabaz Mohammed - University of Oxford, UK	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**	Operon Foyer
18:30 - 19:30	**Dinner**	Operon Foyer
19:30	**Shuttle back to ISG Hotel**	

Day 2 - Monday 6 May 2019

Time	Speaker	Location
09:00 - 10:00	**Lecture: MS technologies** Dominic Helm - EMBL Heidelberg, Germany	Computer Training Lab
10:00 - 11:15	**Lecture: Protein identification** 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** Lennart Martens - University of Ghent, Belgium 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** Lennart Martens - University of Ghent, Belgium Tim Van Den Bossche - University of Ghent, Belgium	Computer Training Lab

Time	Speaker	Location
15:00 - 16:15	**Lab tour + Coffee break**	Computer Training Lab
16:15 - 17:00	**Flash talks by participants - Odd numbers**	Computer Training Lab
17:00 - 18:00	**Lecture: Application talk** Paola Picotti - ETH Zurich, Switzerland	Computer Training Lab
18:00 - 19:00	**Dinner**	EMBL Canteen
19:00 - 20:00	**Poster session (Odd numbers) & Drinks**	Operon Foyer
20:00	**Shuttle back to ISG Hotel**	

Day 3 - Tuesday 7 May 2019

Time	Speaker	Location
09:00 - 10:00	**Lecture: MS1-based quantification** Moritz Janda - Thermo Fisher Scientific, Germany	Computer Training Lab
10:00 - 12:30	**Practical: Data analysis by MaxQuant** Juergen Cox - Max Planck Institute, Germany	Computer Training Lab
12:30 - 13:30	**Lunch break**	EMBL Canteen
13:30 - 15:30	**Practical: Data analysis by MaxQuant** Juergen Cox - Max Planck Institute, Germany	Computer Training Lab
15:30 - 16:00	**Coffee break**	Computer Training Lab
16:00 - 17:00	**Lecture: Application talk ‘Data integration’** Jyoti Choudhary - The Institute of Cancer Research, UK	Computer Training Lab
17:00 - 18:00	**Lecture: Application talk ‘Proteome dynamics’** Jeroen Krijgsveld - DKFZ, Germany	Computer Training Lab
18:00 - 18:15	**Shuttle back to ISG Hotel**	
18:15	**BBQ Dinner**	ISG Hotel

Day 4 - Wednesday 8 May 2019

Time	Speaker	Location
09:00 - 10:30	**Lecture: Introduction and application talk MS2-based quantification: TMT** Mikhail Savitski - EMBL Heidelberg, Germany	Computer Training Lab
10:30 - 12:00	**Practical: Statistical analysis of quantitative proteomics data** Mikhail Savitski - EMBL Heidelberg, Germany Frank Stein - EMBL Heidelberg, Germany Nils Kurzawa - EMBL Heidelberg, Germany	Computer Training Lab
12:00 - 13:00	**Lunch break**	EMBL Canteen
13:00 - 14:30	**Practical: Statistical analysis of quantitative proteomics data** Mikhail Savitski - EMBL Heidelberg, Germany Frank Stein - EMBL Heidelberg, Germany Nils Kurzawa - EMBL Heidelberg, Germany	Computer Training Lab
14:30 - 14:45	**Coffee break**	Computer Training Lab
14:45 - 17:30	**Introduction and tutorial: 'Label-free quantification & MS platforms for DDA and DIA'** Moritz Janda - Thermo Fisher Scientific, Germany	Computer Training Lab
17:30	**Shuttle back to ISGH Hotel and Neckarmünzplatz**	
17:30	**Free evening**	

Day 5 - Thursday 9 May 2019

Time	Speaker	Location
09:00 - 10:30	**Targeting proteomes using data independent acquisition (DIA)-based proteomics and SWATH-MS - An introduction into the basic principles** Christina Ludwig - Technical University Munich, Germany	Computer Training Lab

Time	Speaker	Location
10:30 - 11:00	**Coffee break**	Computer Training Lab
11:00 - 12:30	**Life demonstration (practical session): "An introduction into Skyline – a chromatogram-based software tool for targeted proteomics"** Christina Ludwig - Technical University Munich, Germany Monika Pepelnjak - ETH Zürich, Switzerland	Computer Training Lab
12:30 - 13:30	**Lunch break**	EMBL Canteen
13:30 - 16:00	**Tutorial (practical session): "Label-free quantification of DIA/SWATH data using Skyline"** Christina Ludwig - Technical University Munich, Germany Monika Pepelnjak - ETH Zürich, Switzerland	Computer Training Lab
16:00 - 17:00	**Lecture: 'Cross-linking mass spectrometry'** Fan Liu - Leibniz Institute for Molecular Pharmacology, Germany	Computer Training Lab
17:00 - 17:30	**Shuttle back to ISG Hotel and Neckarmünzplatz**	
17:30 - 18:30	**Guided City Tour**	
19:00	**Dinner Downtown**	

Day 6 - Friday 10 May 2019

Time	Speaker	Location
09:00 - 10:00	**Lecture: Methods for Whole Proteoform Characterization and Quantitation** Neil Kelleher - Northwestern University, USA	Computer Training Lab
10:00 - 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

Time	Speaker	Location
14:30 - 15:30	**Lecture: 'Spatial proteomics'** Kathryn Lilley - Cambridge University, UK	Computer Training Lab
15:30 - 16:00	**Recap & farewell**	Computer Training Lab
16:00	**Bus to Heidelberg Train Station & Crown Plaza Hotel**	