

Program

Thursday, June 20th, 2024

12:00-13:00	Registration opens. Welcome coffee and small snacks.
13:00-13:05	Welcome – Michal Bassani (CHUV) & LS ² Proteomics Board
<u>13:05-14:35</u>	Oral Session I
13:05-13:50	Keynote 1:
	Kirti Sharma (Kymera Therapeutics, Boston) "Leveraging mass spectrometry proteomics to advance TPD based degraders from early discovery to clinic".
13:50-14:35	Oral and Flash presentations - PTMs and interactions
14:35-15:10	Coffee Break
<u>15:10-16:25</u>	Oral Session II
15:10-16:25	Oral and Flash presentations - Methods
16:25-16:55	Coffee Break
<u>16:55-17:40</u>	Oral Session III
16:55-17:05	Sponsored talk - Jean-Baptiste Vincendet (Sciex)
17:06-17:40	Oral and Flash presentations - Basic Biology
<u>17:40-18:20</u>	Career Development – panel discussion
18:35-18:45	Group picture
18:45-20:00	Apéro (upon registration only!)
20:00-22:30	Dinner in the conference hotel (upon registration only!)



Friday, June 21st, 2024

<u>08:00-09:30</u>	Workshop (upon registration only): "How can proteomics drive drug development?".
<u>09:30-10:30</u>	Oral Session IV
09:30-10:20	Oral and Flash presentations - Clinical and Spatial
09:30-09:35	Sponsor talk - Torsten Müller (Bruker Daltonics)
10:21-10:26	Sponsor talk - Dominic G. Hoch (Thermo Fisher Scientific)
10:27-11:00	Coffee Break
<u>11:00-12:45</u>	Oral Session V
11:00-12:00	Oral and Flash presentations - Clinical and Spatial
11:46-11:51	Sponsor talk - Tinkara Vozel (Olink)
12:00-12:45	Keynote 2:
	Dr. Fabian Coscia (Max Delbrück Center for Molecular Medicine. DE) "Spatial tissue proteomics to assess health and disease".
<u>12:45-13:00</u>	Awards and closing remarks.
12:45-12:55	Best oral presentation prize & best flash talk prize
12:55-13:00	Closing remarks – Michal Bassani (CHUV) & LS ² Proteomics Board
13:00-14:30	Farewell Lunch (upon registration only!)
14:30-15:30	LS ² Proteomics Board Meeting



Detailed Program

Thursday, June 20th, 2024

12:00-13:00	Registration opens. Welcome coffee and small snacks.
13:00-13:05	Welcome – Michal Bassani (CHUV) & LS ² Proteomics Board
<u>13:05-14:35</u>	Oral Session I
13:05-13:50	Keynote 1:
	Kirti Sharma (Kymera Therapeutics, Boston) "Leveraging mass spectrometry proteomics to advance TPD based degraders from early discovery to clinic".
13:50-14:35	Oral and Flash presentations - PTMs and interactions
13:50-14:02	Melanie Brunner (University of Fribourg) Proteome-wide in vitro kinase and phosphatase assays to determine enzyme-substrate interactions
14:03-14:15	Viviane Reber (ETH Zurich) More than inhibition: Identification of a Pseudoactive Kinase Conformation and Altered Protein-Protein Interactions induced by ATP-Competitive Inhibitors
14:16-14:20	Veronique Laforte (Biognosys AG) Improved PTM proteomics analyses in Spectronaut®
14:21-14:25	Benjamin Steinmetz (ETH Zurich) Two-Step Enrichment of RNA-Peptide Adducts from Human Cell Lysates
14:26-14:30	Ibrahim Bayramoglu (University of Fribourg) Using Phosphoproteomics to Explore Autophagy Relevant TBK1 Signal Transduction
14:31-14:35	Luca Riermeier (ETH Zurich) Characterization of the organization of protein-RNA complexes using structural proteomics methods



14:35-15:10	Coffee Break
<u>15:10-16:25</u>	Oral Session II
15:10-16:25	Oral and Flash presentations - Methods
15:10-15:22	Christopher Below (Biognosys AG) Synchronizing the TIMS ramp with the quadrupole scan demonstrates a significant qualitative and quantitative improvement in DIA analysis
15:23-15:35	Til Schlotter (ETH Zurich) Interface Nanopores for Single-Molecule Protein Analysis
15:36-15:48	Liliana Malinovska (Biognosys AG) High-throughput and automatable drug target identification using limited proteolysis coupled to mass spectrometry (LiP-MS) suitable for phenotypic screening applications
15:49-15:53	Paolo Nanni (University of Zurich) A transfer-free proteomics approach for the analysis of few dispensed cells: a core facility perspective
15:54-15:58	Romain Hamelin (EPF Lausanne) Wide-Window Acquisition (WWA) DDA for label-free quantitative analysis of low protein yielding systems using an Orbitrap
15:59-16:03	Emmanuelle Lezan (Hoffmann-La Roche) Comparison of two sample preparation methods for the analysis of human plasma and mouse serum using LC-MS/MS
16:04-16:08	Sebastian Müller (Biognosys AG) Facilitating large-scale proteomics by combining automated sample preparation with short gradient LC-MS acquisitions
16:09-16:13	Ane Laura Fineid Pedersen (Nestle Research) Assessing the performance of proteomic workflows with a two-proteome mixture: quantitative accuracy and precision of label-based and label-free approaches



16:14-16:24	Sponsored talk Olivier Buetzberger (Agilent Technologies) Leveraging Agilent's portfolio for high-throughput liquid handling, imaging, and detection methods in your proteomics workflow
16:25-16:55	Coffee Break
<u>16:55-17:40</u>	Oral Session III
16:55-17:05	Sponsor talk Jean-Baptiste Vincendet (Sciex) ZenoTOF 7600: current key applications in proteomics and perspectives
17:06-18:20	Oral and Flash presentations - Basic Biology
17:06-17:18	Marc van Oostrum (University of Basel) The proteomic landscape of synaptic diversity across brain regions and cell types
17:19-17:31	Alexandre Leytens (University of Fribourg) Targeted proteomics addresses selectivity and complexity of protein degradation by autophagy
17:32-17:36	Ramon Pfaendler (ETH Zurich) A systems view of cellular state heterogeneity in human pluripotent stem cells
17:36-17:40	Sandra Schär (Biognosys AG) Ultra-deep profiling of human and rodent tissues allows for deepest ever analysis of protein expression levels
<u>17:40-18:20</u>	<u>Career Development – panel discussion</u>
18:35-18:45	Group picture
18:45-20:00	Apéro (upon registration only!)
20:00-22:30	Dinner in the conference hotel (upon registration only!)

Life Sciences Switzerland – LS² Section Proteomics https://www.ls2.ch/sections/proteomics



Friday, June 21st, 2024

<u>08:00-09:30</u>	<u>Workshop (upon registration only):</u> "How can proteomics drive drug development?".
	Confirmed panelists: Andreas Hofmann (Novartis)
	Debora Bonenfant (Monte Rosa Therapeutics)
	Manuel Tzouros (Roche)
	Kirti Sharma (Kymera Therapeutics)
<u>09:30-10:30</u>	Oral Session IV
09:30-10:30	Oral and Flash presentations - Clinical and Spatial
09:30-09:35	Sponsored talk Torsten Müller (Bruker Daltonics) Innovations in 4D-Proteomic Analysis with timsTOF Mass Spectrometers
09:35-09:47	Jianbo Fu (ETH Zurich) MultiOmicsAgent: Guided extreme gradient-boosted decision trees-based approaches for biomarker-candidate discovery in multi-omics data
09:48-10:00	Neil Taylor (University of Tuebingen) Genetic code expansion-derived approach to detect oxidative stress-induced changes in the neuronal proteome
10:01-10:05	Axel Martinelli (BigOmics) Exploring a Sarcoidosis Olink dataset with the Omics Playground platform
10:06-10:10	Alex Soltermann (Pathologie Länggasse) Amyloid typing by mass spectrometry



10:11-10:15	Arthur Viodé (Biognosys AG) An efficient and deep plasma workflow applied discover biomarker candidates of response to chemo-immunotherapy in patients with thoracic malignancies
10:16-10:20	Antonino Zito (BigOmics Analytics) Imputation of Missing Values in Proteomics
10:21-10:26	Sponsor talk Dominic G. Hoch (Thermo Fisher Scientific) Accelerating translational omics – Discovery to validation at unprecedented scale
10:27-11:00	Coffee Break
<u>11:00-12:45</u>	Oral Session V
11:00-12:00	Oral and Flash presentations - Clinical and Spatial
11:00-11:12	Thibault Courtellemont (EPF Lausanne) DIY Spatial Proteomics: Creative Solutions for an Affordable Pipeline
11:13-11:25	Alexia Clavier (University of Bern) Perfusate biomarkers of DCD cardiac graft quality identified with proteomics: Studies in an isolated rat heart model
11:26-11:30	Sandrine Reymond (University of Geneva) DIA-based investigation of plasma-derived extracellular vesicles for the discovery of biomarkers for acute stroke diagnosis
11:31-11:35	Sibilla Sander (University of Fribourg) Proteomic profiling of cancer-associated fibroblasts in squamous cell carcinoma
11:36-11:40	Quentin Enjalbert (PreOmics) Unique high-throughput workflow for deeper plasma/serum proteome coverage enables discovery of novel biomarkers



11:41-11:45	Yong-Qi Gao (EPF Lausanne) Dissecting neuron-specific roles of reactive lipid-derived electrophiles in <i>C. elegans</i> neurodegenerative disease models
11:46-11:51	Sponsor talk Tinkara Vozel (Olink) PEA Technology in Action: Case Studies from Clinical Research Frontiers
12:00-12:45	<u>Keynote 2</u> :
	Fabian Coscia (Max Delbrück Center for Molecular Medicine. DE) "Spatial tissue proteomics to assess health and disease"
<u>12:45-13:00</u>	Awards and closing remarks.
12:45-12:55	Best oral presentation prize & best flash talk prize
12:55-13:00	Closing remarks – Michal Bassani (CHUV) & LS ² Proteomics Board
13:00-14:30	Farewell Lunch (upon registration only!)
14:30-15:30	LS ² Proteomics Board Meeting