

## Program overview

<b>Thursday</b>	<b>11 May 2023</b>
<b>12:00 - 13:00</b>	<b>Registration. Welcome Coffee</b>
<b>13:05 - 13:15</b>	<b>Welcome Note</b>
<b>13:15 - 14:46</b>	<b><u>Oral Session I - PTMs</u></b>
<b>13:15 - 14:00</b>	<b>Keynote 1:</b> <b>Prof. Chris Tape</b> (UCL Cancer Institute, UK)
<b>14:00 - 14:46</b>	<b>Oral and Flash presentations</b>
<b>14:46 - 15:20</b>	<b>Coffee Break</b>
<b>15:20 - 16:35</b>	<b><u>Oral Session II - Clinical</u></b>
<b>15:20 - 16:24</b>	<b>Oral and Flash presentations</b>
<b>16:25 - 16:35</b>	<b>Sponsored talk - Bruker Switzerland AG</b>
<b>16:35 - 17:10</b>	<b>Coffee Break</b>
<b>17:10 - 18:00</b>	<b><u>Oral Session III - Interaction Proteomics</u></b>
<b>17:10 - 17:49</b>	<b>Oral and Flash presentations</b>
<b>17:50 - 18:00</b>	<b>Sponsored talk - PreOmics GmbH</b>
<b>18:20 - 18:30</b>	<b>Group picture</b>
<b>18:30 - 19:30</b>	<b>Apéro sponsored by Biognosys (upon registration only!)</b>
 <b>BIOGNOSYS</b> <small>NEXT GENERATION PROTEOMICS</small>	
<b>20:00 - 22:00</b>	<b>Dinner in the conference hotel (upon registration only!)</b>



**PREOMICS**

## Program overview

Friday

12 May 2023

08:00 - 09:20

**Bioinformatic Workshop (upon registration only) - Given by Biognosys**



09:20 - 09:30

**Short Break**

09:30 - 10:30

Oral Session IV - Clinical

09:30 - 10:21

Oral and Flash presentations

10:21 - 10:26

Sponsored talk - Thermo Fisher Scientific  
Schweiz AG



10:26 - 10:31

Sponsored talk - AB Sciex Switzerland  
GmbH



10:31 - 11:05

**Coffee Break**

11:05 - 12:45

Oral Session V - Methods

11:05 - 11:54

Oral and Flash presentations

12:00 - 12:45

**Keynote 2:**

**Prof. Tami Geiger** (Weizmann Institute of  
Science, Israel)

12:45 - 13:00

**Awards and Closing Words**

13:00 - 14:30

**Farewell Lunch (upon registration only!)**

14:30 - 15:30

**LS<sup>2</sup> Proteomics Board Meeting**

## Detailed program

**Thursday**            **11 May 2023**

**12:00 - 13:00**            **Registration. Welcome Coffee**

**13:05 - 13:15**            **Welcome Note**  
*Chair: Michal Bassani-Sternberg  
(University of Lausanne) & LS<sup>2</sup> Proteomics  
Board*

**13:15 - 14:46**            **Oral Session I - PTMs**  
*Chair: Alexander Leitner (ETH Zurich)*

**13:15 - 14:00**            **Keynote 1:**  
**Prof. Chris Tape** (UCL Cancer Institute, UK)  
*Single-Cell Signalling Analysis of Tumour  
Microenvironment Organoids*

**14:00 - 14:12**            **Oral and Flash presentations**  
**Mario Leutert** (ETH Zurich)  
*A multidimensional proteomic atlas of  
replicative aging in budding yeast*

**14:12 - 14:24**            **Marija Buljan** (Empa, Materials science  
and technology)  
*Delineation of signaling networks that  
underlie differences in macrophage  
phenotypic states*

**14:24 - 14:36**            **Laia Simo Riudalbas** (EPFL)  
*POU5F1B is a human-restricted ROCK  
inhibitor-sensitive oncogene that  
promotes*

- 14:36 - 14:41**      **Lucas Veuthey** (University Hospital Lausanne)  
*Identification of key regulators of procoagulant COAT platelet generation by quantitative phosphoproteomic analysis and phosphoflow*
- 14:41 - 14:46**      **Linlin Cao** (EPFL)  
*Resistance mechanism to Notch inhibition and combination therapy in human T cell acute lymphoblastic leukemia*
- 14:46 - 15:20**      **Coffee Break**
- 15:20 - 16:35**      **Oral Session II - Clinical**  
*Chairs: Alexander Schmidt (University of Basel) & Manuel Tzouros (Hoffmann-La Roche Basel)*
- Oral and Flash presentations**
- 15:20 - 15:32**      **Giorgia Benegiamo** (EPFL)  
*The genetic background shapes the susceptibility to mitochondrial dysfunction and NASH progression*
- 15:32 - 15:44**      **Harini Lakshminarayanan** (University Hospital Zurich)  
*Exploring extracellular vesicles as liquid biopsy biomarkers for clear cell renal cell carcinoma*
- 15:44 - 15:49**      **Sandra Schär** (Biognosys AG)  
*One of the deepest profiling of healthy human tissues to date sheds light on expressed proteins*

- 15:49 - 15:54**      **Sandrine Reymond** (University of Geneva)  
*Impact of abundant plasma protein depletion on extracellular vesicles proteome characterization by DIA mass spectrometry*
- 15:54 - 15:59**      **Jonas Grossmann** (University of Zurich)  
*Genomic and Proteomic Evidence of Evolution of Resistance in Staphylococcus aureus against Pseudomonas aeruginosa*
- 15:59 - 16:04**      **Jaruschka Pecnik** (University of Zurich)  
*Next generation LIP-MS: refined drug target deconvolution approach using limited proteolysis*
- 16:04 - 16:09**      **Roland Bruderer** (Biognosys AG)  
*Investigation of deep proteomic and peptidomics signatures of urine specimen from chronic kidney disease and bladder cancer for disease prediction*
- 16:09 - 16:14**      **Marco Faini** (Hoffmann-La Roche)  
*Identifying Biomarkers for Neurodegenerative Diseases with Standardized CSF Proteomics*
- 16:14 - 16:19**      **Martin Gesell** (ETH Zurich)  
*Surfaceome States of Human Primary Blood Mononuclear Cells in Health, Disease & Perturbation*
- 16:19 - 16:24**      **Tatjana Sajic** (University Hospital Lausanne)  
*Protein biomarkers in child abuse: Pediatric Abusive Head Trauma (AHT)*

16:25 - 16:35



**Sponsored talk - Bruker Switzerland AG**

**Torsten Müller**

*Enhance your research with the TIMS & PASEF® powered 4D-Proteomics™ Ecosystem*

16:35 - 17:10

**Coffee Break**

17:10 - 18:00

**Oral Session III - Interaction Proteomics**

*Chairs: Bernd Wollscheid (ETH Zurich)*

**Oral and Flash presentations**

17:10 - 17:22

**Federico Uliana** (ETH Zurich)

*Phosphorylation-linked complex profiling identified assemblies required for Hippo signal integration*

17:22 - 17:34

**Sebastian Steiner** (ETH Zurich)

*Decoding functional surfaceome protein-protein interactions using light-induced cross-linking sites and HyPhoX*

17:34 - 17:39

**Domitille Schwartz** (University of Geneva)

*DIA-based ubiquitinated peptides quantification unravels FBXO1-dependent modifications of proteins essential for the development of malaria parasites*

17:39 - 17:44

**Peter Blattmann** (Idorsia Pharmaceuticals Ltd)

*Quantification of increased biologically active CXCL12 after ACKR3 antagonist treatment in humans as a pharmacodynamic biomarker*

**17:44 - 17:49**

**Hanna Lesme (EPFL)**

*Proteomics analysis to elucidate pea and salivary protein interactions triggering astringency perception.*

**17:50 - 18:00**

**PREOMICS**

**Sponsored talk - PreOmics GmbH**

**Golson Russel**

*PreOmics & the BeatBox create a streamlined workflow to process FFPE tissue for proteomics*

**18:20 - 18:30**

**Group picture**

**18:30 - 19:30**

 **BIOGNOSYS**  
NEXT GENERATION PROTEOMICS

**Apéro sponsored by Biognosys (upon registration only!)**

**20:00 - 22:00**

**Dinner in the conference hotel (upon registration only!)**

**Friday**

**12 May 2023**

**08:00 - 09:20**



**Bioinformatic Workshop (upon registration only):**

*“Getting more out of your data with advanced features in Spectronaut”*

**Given by Biognosys**

**09:20 - 09:30**

**Short Break**

**09:30 - 10:30**

**Oral Session IV - Clinical**

*Chairs: Michal Bassani-Sternberg (University of Lausanne) & Loïc Dayon (Nestlé Research)*

**Oral and Flash presentations**

**09:30 - 09:42**

**Justine Epiney (EPFL)**

*Identification of novel therapeutic approaches to limit resistance against Antibody-Dependent Cellular Phagocytosis (ADCP) in B cell lymphoma*

**09:42 - 09:54**

**Minia Antelo (University of Basel)**

*SureQuant – a promising candidate to investigate human pathogens in clinical settings*

**09:54 - 10:06**

**Franziska Vollmy (Roche Pharma Research and Early Development, Pharmaceutical Sciences, Roche Innovation)**

*Clinical Proteomics: Considerations for the routine Analysis of Samples by Quantitative Mass Spectrometry*



**10:06 - 10:11**

**Jonas Albinus** (ETH Zurich)

*Spatiotemporal surfaceome dynamics in non-Hodgkin B-lymphoma*

**10:11 - 10:16**

**Vahap Canbay** (Technical University of Denmark)

*Functional characterization of dermokine in epidermal differentiation*

**10:16 - 10:21**

**Sibylle Pfammatter** (ETH Zurich)

*Development of a method for the analysis of low-input glioblastoma samples using an automated preparation protocol and diaPASEF mass spectrometry*

**10:21 - 10:26**

**ThermoFisher**  
SCIENTIFIC

**Sponsored talk - Thermo Fisher Scientific Schweiz AG**

**Dominic Hoch**

*Go Beyond - Limited samples to single-cell proteomics*

**10:26 - 10:31**

  
The Power of Precision

**Sponsored talk - AB Sciex Switzerland GmbH**

**Jean-Baptiste Vincendet**

*ZenoTOF and EAD fragmentation: toward routine PTMs analysis*

**10:31 - 11:05**

**Coffee Break**

**11:05 - 12:45**

**Oral Session V - Methods**

*Chairs: Maria Pavlou (EPF Lausanne) & Paolo Nanni (Functional Genomics Center Zurich, UZH/ETH Zurich)*

**Oral and Flash presentations**

**11:05 - 11:17**

**Mengze Zhang** (University of Zurich)

*Toward hyper-multiplexed proteomics imaging*

**11:17 - 11:29**

**Ino Karemaker** (Biognosys AG)

*A comparative investigation of plasma proteome profiling with state-of-the-art mass spectrometry and affinity-based assays*

**11:29 - 11:34**

**Jasmin Johansson** (PreOmics GmbH)

*Streamlined and semi-automated MS-based proteomics pipeline from protein extraction to real-time data analysis by coupling BeatBox, PreON and PaSER platforms*

**11:34 - 11:39**

**Izabela Smok** (ETH Zurich)

*Application of UV-cross-linking of isotope-labeled RNA and tandem mass spectrometry (CLIR-MS) to phase-separated systems of RNA-binding proteins*

**11:39 - 11:44**

**Benjamin Steinmetz** (ETH Zurich)

*Combining SEC-MS and XL-MS for Low-Resolution Structural Characterization of Ribonucleoprotein Complexes on a Proteome-Wide Scale*

**11:44 - 11:49**

**Jens Settelmeier** (ETH Zurich)

*preDIAtor - pre-identification of Data Independent Acquisition measurements to identify phenotype-specific features and enable exhaustive peptidofom searches in clinical applications.*

**11:49 - 11:54**

**Fabio Sabino** (Biognosys AG)

*The Limited-Proteolysis method in drug development: Powerful workflow to identify drug targets and evaluate drug specificity*

**12:00 - 12:45**

**Keynote 2:**

**Prof. Tami Geiger** (Weizmann Institute of Science, Israel)

*Immunological impact on internal proteomics cancer heterogeneity*

**12:45 - 13:00**

**Awards and Closing Words**

*Chairs: Michal Bassani-Sternberg (University of Lausanne) & Alexander Schmidt (University of Basel)*



*Best Oral Presentation Prize*

*Best Flash Presentation Prize*

**13:00 - 14:30**

**Farewell Lunch (upon registration only!)**

**14:30 - 15:30**

**LS<sup>2</sup> Proteomics Board Meeting**