



Elettra Sincrotrone Trieste



International Centre for Genetic
Engineering and Biotechnology



Protein Production and Purification
Partnership in Europe

19th Annual Meeting

Dates: 22-23 May 2023

Area Science Park, Congress Center, Padriciano 99, Trieste, Italy

Program

Monday, 22nd of May

Workshop

Biophysical methods for protein characterization and quality control

8:45 - 09:20 Arrival and registrations

- 9:20 **Welcome and Workshop opening**
- 9:30 *Perla Vega Dominguez - Understanding biomolecular behaviour with mass photometry (Refeyn, sponsor presentation)*
- 10:10 *Sonia Covaceuszach - A closer insight into intermolecular interactions characterization: Hands on Creoptix Wave (IC-CNR)*

10:40 - 11:00 Coffee break

Methods applied at Elettra for protein structure and binding analysis (FTIR, AFM, Raman, XRD)

- 11:00 *Lisa Vaccari - Infrared spectroscopy and nanoscopy: new frontiers in protein studies (SISSI beamline @ Elettra)*
- 11:20 *Barbara Rossi - UV Resonance Raman for characterization of proteins (IUVIS beamline @ Elettra)*
- 11:40 *Loredana Casalis - AFM nanotechnology (NanoLab @ Elettra)*
- 12:00 *Annie Heroux - One step further on the protein characterization process: XRD2 dedicated MX beamline at Elettra (XRD2 beamline @ Elettra)*
- 12:20 *Roberto Santoliquido - Triple detector Size Exclusion Chromatography for biomolecules characterization (Alfatest, sponsor presentation)*
- 12:50 *All - Q&A and Closing discussion*

13:00 - 14:00 Buffet Lunch (served outside the congress room)

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P4EU Annual Meeting

14:00 - P4EU openings - Welcome from Organizers (ICGEB and Elettra)

- Caterina Petrillo - President Area Science Park
- Natasa Skoko - ICGEB
- Paola Storici - Elettra

Protein for integrated structural biology (focus on cryo-EM)

- 14:30 Robbert Kim - GridFit: improving protein cryoEM before it hits the grid (Leiden University Medical Centre)
- 15:00 Fabio Lapenta - Understanding the structure and function of the human Vault particle (University of Nova Gorica)
- 15:30 Frank Bernhard - Cryo-EM structure of a cell-free synthesized GPCR/G-protein complex in nanodiscs (Goethe University Frankfurt)

16:00 - 16:20 Coffee break

Methods developments, examples of new ligands, nanobodies, and membrane proteins

- 16:20 Johannes van den Heuvel - The value of Transient Gene Expression in High Five insect cells for fast screening and production of eukaryotic membrane proteins (Helmholtz Centre for Infection Research)
- 16:50 Ario de Marco - Smaller and smaller: new scaffolds for next generation ligands (University of Nova Gorica)
- 17:20 Svend Kjaer - Llama-based nanobody set-up and experiences and a few recent examples of measuring affinities of Nbs to MP in the Fida1 (The Francis Crick Institute)

New facilities

- 17:50 Alessandro Scardua - HT Facility
- 18:00 Luigi Angelo Scietti - IEO Facility

18:30 Bus to Barcola (Social Dinner restaurant)

19:30 Social Dinner (Ristorante al Tramonto - Società Velica di Barcola e Grignano)

22:00 Bus from Social Dinner to Trieste (Piazza Libertà/Train Station)

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Tuesday, 23rd of May

Morning Session

- 9:20 Lara Dipace - Presentation of Enterprise Europe Network and case studies

Non-conventional expression systems

- 09:40 Kim Remans - STAR protocols (EMBL Heidelberg)
- 10:10 Sara Raccovelli - Plant molecular farming for the production of biopharmaceuticals: Transactiva's experience, opportunities and challenges (Transactiva)
- 10:40 Johannes Buyel* - Yes you can - protein expression screening in plants and plant cells (BOKU University)

11:00 - 11:15 Coffee break

- 11:15 Kerstin Böhm - parallel protein purification at midscale and how to use it for industrial drug discovery (AstraZeneca)
- 11:45 Anna Aris/Elena Garcia - Lactococcus lactis: a bacterial expression system alternative to E. coli (IRTA)
- 12:15 Bjorn Voldborg - The National Biologics Facility, research and development in the interspace between academia and industry (Technical University of Denmark)
- 12:40 Ronen Tchelet* - C1 protein production platform (Dyadic International, Inc.)

13:00 14:00 Buffet Lunch (served outside the congress room)

14.00 Nick Berrow - General discussion P4EU projects: benchmarking activities, COST action

15:00 Closure and greetings

15:30: Bus to Basovizza-Elettra Sincrotrone Laboratories

15:30-18:00: Visit to partner laboratories

18:00: Bus from Basovizza-Elettra Sincrotrone to Trieste (Piazza Libertà/Train Station)

*talks in virtual mode

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