Program 21ˢᵗ P4EU Meeting in Gothenburg, 25-27th August 2025

Monday 25ᵗʰ August

13:00-13:15	Welcome to the P4EU Workshops 2025 Lecture Hall: Stenbrottet	Malin Bäckström
Workshop A (16 places)	**Automated Protein Expression and Purification with eProtein Discovery™ in 48 hours.**	Nuclera
13:30-15:00		Biology lab 1
15:30-17:00		Biology lab 1
Workshop B (16 places)	**Mass photometry**	Refeyn
13:30-15:00		Biology lab 2
15:30-17:00		Biology lab 2
Workshop C (24 places)	**From Lysate to pure protein in less than one hour: simple and fast protein affinity purification with magnetic beads**	Cube Biotech
13:30-15:00		Biology lab 3
15:30-17:00		Biology lab 3
Workshop D (60 places)	**Hands on: Introduction to AI prediction and modelling tools to aid in construct design for protein production**	Kelvin Lau, École Polytechnique Fédérale de Lausanne (EPFL)
13:30-15:00		Stenbrottet
15:30-17:00		Stenbrottet

15:00-15:30   Coffee break

The workshops have limited spaces - late registration <u>may</u> still be possible via this link (or on site later) if spaces are still available: (Link can also be found on P4EU website)

https://limiter.addonforge.com/limiter?formId=1FAIpQLSdYA20ImNc7AlCtRFVTehIFoTIAzfXgfxsFKkp6RabEuyMCcw

Tuesday 26th August   **Stenbrottet Lecture Hall, Natrium**

8:30-8:40	**Welcome and start of meeting**	**Malin Bäckström**
Session 1	**Facility presentations**	**Chair: Ewa Krupinska**
8:40-8:50	Protein Production Sweden presentation	Malin Bäckström
8:50-10:00	Short facility presentations	Several speakers

10:00-10:30   Coffee break

Session 2	**Membrane proteins**	**Chair: Kristina Hedfalk**
10:30-10:45	Nanodisc Assembly in Cell-Free Systems and Fluorescent Screening: A Pipeline for Membrane Protein Biology. *	Orso Subrini, Cortec
10:45-11:05	Exploiting OMVs for the in-situ characterization of bacterial envelope proteins	Johannes Thoma, Gothenburg
11:05-11:25	Cryo-EM structures of cell-free synthesized complexes of G protein-coupled receptors with heterotrimeric G proteins	Frank Bernhard, Frankfurt
11:25-11:40	Continuous Titration Based Method for Rapid In-Solution Analysis of Non-Covalent Interactions*	Hasse Hedeby, FidaBio
11:40-12:00	Production of Folded and Functional Membrane Proteins for Drug Discovery	Steven Harborne, Sygnature discovery

*-denotes commercial/sponsor presentations

12:00-13:00   Lunch

Session 3	Bioinformatic tools for predicting protein expression and structure	Chair: Uwe Sauer
13:00-13:15	Navigating the Evolving Landscape of Protein Affinity Tags*	Antony Yerabham, Cube Biotech
13:15-13:35	Using Machine Learning to Predict Recombinant Protein Expression	Bradley Peter, AstraZeneca
13:35-13:55	RP3Net: a deep learning model for predicting recombinant protein production in Escherichia coli	Evgeny Tankhilevich, EBI
13:55-14:10	Mass photometry – an analytical technology for biomolecular characterization*	Roland Worth, Refeyn
14:10-14:30	AlphaDesign: A de novo protein design framework based on AlphaFold	Karine Lapouge, EMBL
14:30-14:50	The SGC and Target2035 (generating proteins and ligands to enable machine learning)	Nicola Burgess-Brown, University College London
14:50-15:10	Cell-Free Systems: New Horizons for Membrane Proteins, Enzymes, and Antibodies	Anne Zemella, Fraunhofer

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15:10-15:40   Coffee break

Discussion in groups	Group rooms	Experts and moderators for each discussion topic
15:40-16:10	Topics I-VIII TBA	TBA
16:20-16:50	Topics I-VIII TBA	TBA
17:00-17:30	Topics I-VIII TBA	TBA

18:00   Drinks and mingle (Venue: Conference center Wallenberg, "Lyktan")

18:30   Dinner (Venue: Conference center Wallenberg, "Lyktan")

Wednesday 27 August   Stenbrottet Lecture Hall, Natrium

Session 4	Protein Labelling	Chair: Anders Bay Nord
8:30-8:45	Simplified tagged protein purification and tag removal*	Jinyu Zou, Cytiva
8:45-9:05	DEMAX: The Deuteration and Macromolecular Crystallization support lab at the European Spallation Source.	Zoe Fisher, ESS
9:05-9:20	Improvement of in vivo biotinylation of recombinant proteins by development of a novel fusion tag	Christopher Cooper, CHARM Therapeutics
9:20-9:25	Short Advertisement for the special Collection on Protein Technologies inBioscience reports	Christopher Cooper, Deputy Editor-in-Chief, Bioscience Reports
9:25-9:40	Producing increasingly complex proteins with higher yields and higher throughput *	Tom Drake, Thermo Fisher
9:40-10:00	Antibody conjugation for CODEX multiplexed tissue imaging	Patrick Celie, Amsterdam

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10:00-10:30   Coffee break

Session 5	A little mix of everything	Chair: Wolfgang Knecht
10:30-10:45	Accelerating Soluble and Membrane Protein Production with eProtein Discovery™*	Kundan Sharma, Nuclera
10:45-11:00	EMBL-P4EU Benchmarking of the Nuclera eProtein Discovery System forcell-free expression	Kim Remans, EMBL
11:00-11:05	Core Technologies for Life Sciences	Julia Fernandez Rodriguez, president CTLS
11:05-11:20	Perturbation of the quaternary state of insulin formulation after prolonged storage in a closed-vial, real-world setting	Ashish Kawale, Gothenburg
11:20-11:40	Structure and function of helminthic glutamate dehydrogenase	Arie Geerlof, Munchen
11:40-12:00	Generation of Human Anti-YFV Monoclonal Antibodies from Booster Vaccinated Individuals	Wolfgang Kuttenlochner, Fraunhofer
12:00-12:15	Closure of the meeting	Malin Bäckström
12:15-13:00	P4EU planning discussion	P4EU board plus all members

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13:00-   Lunch on the go

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