## P4EU Workshop on Eukaryotic protein expression platforms

## **Programme:** November 30th 11:00 Arrival and coffee 11:15-11:20 Opening Remarks (Bjørn Voldborg; Protein Production Unit; The Novo Nordisk Foundation Center for Protein Research) 11:20-11:45 HEK293: lower costs for higher yields - pocket guide for an eukaryotic adventurer (Ondrej Vanek; Department of Biochemistry; Charles University in Prague) 11:45-12:10 High-throughput recombinant protein expression using a combination of ligationindependent cloning (LIC) and transient transfection in suspension growing HEK293-EBNA cells. (Giuseppe Cazzamali; Protein Production Unit; The Novo Nordisk Foundation Center for Protein Research) 12:10-12:30 Protein expression using HEK cells in the OPPF-UK – Transients, stables and ideas for the future. (Jo Nettleship; Structural Biology OPPF-UK, Oxford University) 12:30-13:30 Lunch at the CPR 13:30-13:50 The vet in the village – making proteins at CR-UK, London Research Institute (Svend Kjær Protein Purification Facility, Cancer Research UK) 13:50-14:10 Protein expression platforms at the NKI Protein Facility (Patrick Celie; NKI Protein Facility -Division of Biochemistry, Netherlands Cancer Institute (NKI)) 14:10-14:30 Recombinant protein expression in eukaryotic systems: The ISPC experience (Tamar Unger; The Israel Structural Proteomics Center, The Weizmann Institute of Science) 14:30-14:45 Establishing a eukaryotic expression facility at the Vienna Biocenter (Peggy Stolt-Bergner; Structural Biology facility, Campus Science Support Facilities (CSF)) 14:45-15:00 NorStruct - a more eukaryotic future? (Gro Bjerga; Department of Chemistry, NorStruct, University of Tromsø) 15:00-15:30 Coffee 15:30-17:00 Open discussion on relevant topics (e.g. Purification challenges, Tags, Optimising expression levels, Cell types, Transfection reagents and modes (stable/transient), Expression routes (intracellular/secreted/membrane), "Tricky" proteins, Metabolic Engineering, Co-expression, Promoters and enhancers, etc..... 17:00-18:30 Tour at CPR, followed by Drinks and Snacks 18:30-?? Dinner and socialising at the CPR December 1st 9.00-9:30 Arrival and morning coffee 9:30-**9:45** Protein production using a non-viral, Drosophila S2 insect cell expression system (Wian de Jongh; Product Development, ExpreS2ion Biotechnologies) Baculovirus Expression of Human Proteins at the SGC (Nicola Burgess-Brown; SGC, 9:45-10:10 University of Oxford)

10:10-10:30 Cell-free expression of eukaryotic membrane proteins (Frank Bernhard; Institute of

Biophysical Chemistry, Goethe University Frankfurt

10:30-10:50	Protein production in insect and HEK cells: streamlining the protocols (Sabine Suppmann;
	Microchemistry Core Facility, Max-Planck-Institute of Biochmistry)
10:50-11:10	Production of glycoproteins for biomedical research in CHO cells. (Malin Bäckström;
	Mammalian Protein Expression Core Facility, University of Gothenburg)
11:10-11:40	Coffee
11:40-12:00	Production of therapeutically relevant proteases for drug discovery using eukaryotic
	expression systems (Rene Assenberg; Expertise Platform Proteases, Novartis)
12:00-12:20	Great Expectations, Small Facility : The HUJI Expression Facility as a developing and
	training center for baculovirus based technologies (Tsafi Danieli; Protein Expression Facility,
	Wolfson Centre for Applied structural Biology, Hebrew University)
12:20-12:40	Engineering the baculovirus genome by counter-selection recombineering (David Drechsel;
	Protein Expression and Purification, Max Planck Institute of Molecular Cell Biology and
	Genetics)
12:40-13:40	Lunch at the CPR
13:40-15:00	Discussions on possible collaborations (e.g. methods development, possible sharing of cell
	lines/vectors/expression constructs/expression strains etc), funding opportunities etc
15:00	Departure