Discussion workshop on Eukaryotic expression

Teach-SG, SPINE2-Complexes 26th October 2009

Lecture Hall, Institute of Microbiology, Academy of Sciences of the Czech Republic Vídeňská 1083, 142 20 Prague

Organizers: Jan Dohnálek, Institute of Macromolecular Chemistry AS CR, Prague, dohnalek007@gmail.com

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Participants must register with the organizers via e-mail (dohnalek007@gmail.com) stating their full name and affiliation and receive an e-mail confirmation of registration! Registration deadline is 19th October. There is no registration fee.

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Program	
10:00 - 10:10	Introduction (J. Dohnálek, O. Vaněk)
10:10 - 11:10	Introduction to eukaryotic protein expression, development and applications of HEK transient gene expression systems
	Yves Durocher (National Research Council Canada, Biotechnology Research Institute,
	Montréal, Québec, Canada)
11:10 - 11:40	Towards the crystal structure of a ZP domain
	Uschi Diestel (Department Biologie, Friedrich-Alexander-Universität, Erlangen-Nuernberg,
	Germany)
11:40 - 11:55	Studies of NK cell lectin receptors using the HEK293T expression system.
	Ondřej Vaněk (Institute of Microbiology of the Academy of Sciences of the Czech Republic, Prague)
44.55 40.40	- 1
11:55 - 12:40	Towards glycoprotein structural genomics: solving the glycosylation problem. Manipulation of glycosylation in eukaryots
	Veronica Chang (Weatherall Institute of Molecular Medicine, Nuffield Department of Clinical
	Medicine, John Radcliffe Hospital, University of Oxford, Headington, United Kingdom)
12:40 - 14:00	Lunch + coffee
14:00 - 14:45	Protein co-expression in insect cells: smart expression vectors for protein complexes.
	Imre Berger (European Molecular Biology Laboratory, Grenoble Outstation, Grenoble, France)
14:45 - 15:00	Carbonic anhydrase expression in insect cells
	Pavel Máder (Institute of molecular genetics and Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Prague)
45.00 45.45	
15:00 - 15:15	One-step affinity purification of recombinant proteins expressed in insect cells Jan Tykvart (Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the
	Czech Republic, Prague)
15:15 - 15:45	LEXSY - a novel eukaryotic protein expression system based on Leishmania tarentolae,
	the whole story from scratch
	Reinhard Breitling (Jena Bioscience GmbH, Jena, Germany)
15:45 - 16:05	Coffee break
16:05 - 16:50	Restriction-free methods for cloning and other applications. Use of the baculovirus
	system for expressing secreted proteins for functional and structural studies.
	Tamar Unger (Israel Structural Proteomics Center, The Weizmann Institute of Science, Rehovot, Israel)
16:50 - 17:20	Use of animal cell culture at BioVendor RDP - glycosylated recombinant proteins for
10.30 - 17.20	immunoassay development.
	Mojmír Ševčík (BioVendor)
17:20-17:30	Closing discussion and end of workshop