

Workshop on Biomimetic and Bioanalytical Systems 2011

12 – 13 December 2011: Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde, Germany

Monday, Dec 12		<i>Preliminary PROGRAMME 0.5</i>
10.30	Arrival, Registration	
10.50	Opening	
	<i>Enzymes and Bio-inspired Catalysis</i>	
11.00	Plenary Lecture <u>Martin Hofrichter</u> (IHI Zittau) "Unspecific peroxygenases: a new generation of oxygen transferring biocatalysts"	
11.30	Glenn Gröbe (HS Lausitz/Senftenberg) "Production, purification and characterization of peroxygenases from <i>Agrocybe aegerita</i> and <i>Marasmius rotula</i> "	
11.45	Aysu Yarman (IBMT) "Enzyme electrodes for phenolic substrates based on the aromatic peroxygenase from <i>Marasmius rotula</i> "	
12.00	Christopher Schulz (Lund Univ.) " "	
12.15	Mita Mullick-Chowdhury (UP) " Dual-function proteins in metabolic pathways: How to dissect their interactions"	
12.30	Lunch	
	<i>Biomimetic materials</i>	
13.30	Plenary Lecture <u>Robert E. Gyurcsanyi</u> (Budapest University of Technology and Economics) " Development of synthetic receptors for selective protein recognition"	
14.00	Denise Bader (IBMT) "Synthesis and characterisation of molecular rods for biosensor applications"	
14.15	Maria Bossert (IBMT) "Electropolymerisation for functional protein MIPs"	
14.30	Decha Dechtrirat (IBMT) "Surface imprinting of peptides and proteins in ultrathin, electropolymerized films"	
14.45	Christine Hüttl (IBMT) "Synthetic receptor system for signal amplification during specific pathogen recognition"	
15.00	Coffee	
	<i>Biotechnology & Biomedicine</i>	
15.30	Sebastian Hoppe (IBMT) " Microarray-based method for screening of immunogenic proteins from bacteria "	
15.45	Lars Radke (TH Wildau) " Validation of Vaccine candidates in miniaturised artificial lymph nodes"	
16.00	Henry Memczak (IBMT) "Binding of influenza viruses through multivalent interactions"	
16.15	Cigdem Yildirim (UP) "Redox control of alkaline phosphatase: Indicator of cell differentiation"	
	<i>Bioelectronics</i>	
16.30	Plenary Lecture <u>Sergey Schleev</u> (Malmö Univ.) " Miniaturized enzyme biofuel cells " (preliminary title)	
17.00	Ivo Schubart (TH Wildau) " Coupling of PQQ-GDH to electrodes by means of electropolymerized films of sulfonated polyanilines"	
17.15	Ting Zeng (UP) " Bioelectrocatalysis with human sulfite oxidase on AuNP modified electrodes"	
17:30	Christoph Wettstein (TH Wildau) "Bi protein assembly with cytochrome c, (PQQ)GDH and DNA as polyelectrolyte"	
17:45	Johannes Tanne (IBMT) "Development of a conductive biomatrix as electrode material in autonomous biosensors"	
18.00	End	

Tuesday, Dec 13		Preliminary PROGRAMME
	<i>Enzymes and Protein Technology</i>	
9.30	Plenary Lecture <u>Lo Gorton</u> (Lund Univ.) " Cellobiose Dehydrogenase based biosensors " (preliminary title)	
10.00	Marlitt Stech (IBMT) "Antibody production in cell-free systems"	
10.15	Carolin Nietzold (TH Wildau) "Fast protein detection using absorption properties of gold nanoparticles"	
10.30	Ulrich Tillich (TH Wildau) "HTS-Culturing and -Screening for Ethanol Producing Cyanobacteria"	
10:45	Andreas Broedel (IBMT) "Cell-free protein synthesis as a promising technology for functional screening assays"	
11.00	Coffee	
	<i>Biomimetic materials & Biomedicine</i>	
11.30	Plenary Lecture <u>Dmitry Volodkin</u> (IBMT) "One-step formulation of protein particles by hard templating at soft conditions"	
12.00	Narayanan Madaboosi (Max-Planck Institute for Colloids and Interfaces) "Generation of layer-by-layer assembled 3D patterns using microfluidics for selective cell growth."	
12.15	Merlin Tientcheu (UP) "PQQ dependent glucose dehydrogenase as label enzyme for affinity sensors"	
12.30	Sebastian Prill (IBMT)" HeMiBio - Hepatic Microfluidic Bioreactor"	
12.45	Closing	
13.00	Lunch	

Organized by: Nenad Gajovic-Eichelmann (Fraunhofer IBMT)
 Ulla Wollenberger (University of Potsdam)
 Axel Warsinke (University of Potsdam)
 Fred Lisdat (Technical University Wildau)

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