

PhD Workshop on Bioanalysis and Enzymology

November 26-27 2015: Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde, Germany

Thursday, Nov 26th 2015

10.20 Welcome			
Session 1 Chair: Marc Riedel			
10.30	Peter Neubauer, TU Berlin	Being successful in producing recombinant enzymes with EnPresso	
11.00	Florian Glauche, TUB	Towards an automated expression optimisation for recombinant products	
11.15	Lena Thoring, IZI-BB	Future perspectives for the synthesis of "Difficult-to-Express" proteins: Development of novel cell-free systems based on CHO cell lysates	
11.30	Nadine Schwanhold, UP	The system-specific chaperone FdsC is involved in bis-MGD binding and insertion into the formate dehydrogenase from <i>R. capsulatus</i>	
11.45	Benjamin Duffus, UP	Application of Electron Paramagnetic Resonance Spectroscopy for Molybdoenzyme Active Site Characterization	
12.00		Lunch	
Session 2 Chair: Biljana Mitrova			
13.30	Katrin Scheibner, Martin Hofrichter, BTU	Unspecific Peroxygenases: Secreted Fungal Enzymes that Mimic P450 Activities	
14.00	Gökhan Kücükgöze, UP	The substrate specificities of the mouse aldehyde oxidase homologues	
14.15	Paul Kaufmann, UP	Studies on the active site of <i>E. coli</i> TMAO reductase	
14.30	Katharina Jetzschmann, UP	Strategies for the molecular imprinting of Cytochrome P450 BM3	
14.45	Xiaorong Zhang, UP	Molecularly imprinted polymers for transferrin – concept and first results	
15.00		Coffee	
Session 3 Chair: Nadine Schwanhold			
15.30	Peter-Diedrich Hansen,	Biosensor and Phagocytosis with cryo-conservated cells in the	
13.30	TU Berlin	orbit (ISS) under microgravity	
16.00	Vida Krikstolaityte, DTU	Micro-hole preparation and characterisation in plastic materials	
16.15	Marc Riedel, THW	InGaN/GaN nanowires: new tools for sensorial photoelectron- chemical NADH and H_2O_2 detection	
16.30	Bettina Neumann, UP	Adsorption of Microperoxidase 11 on mesoporous ATO electrodes	
16.45	Biljana Mitrova, UP	Electrochemical behavior of formate dehydrogenase from <i>R. capsulatus</i> immobilized on a cationic polymer modified electrode surface	
18.00-19.00 Dinner			
Evening activities			

Friday, Nov 27th 2015

Session 4 Chair: Benjamin Duffus			
09.00	Arto Heiskanen, DTU	Automated Microfluidic Platforms for Electrochemical Cell Analysis	
09.30	Susanne Lobstein, THW	Comparison and establishment of digital droplet PCR with quantitative PCR for the detection of <i>Leishmania spp</i> .	
09.45	Andreas Wiese, THW	Preparation of 3D fibrous network structures by using of electrospinning and carbonisation for application as basic material in enzyme electrodes	
10.00	Ada-Ioana Bunea, DTU	Polymer-derived carbon surfaces for enhancing stem cell differentiation	
10.15	Anne Zemella, IZI-BB	Membrane Protein Engineering in Eukaryotic Cell-free Systems: Functional Characterization of G protein-coupled receptors	
10.30	Coffee		
Session 5 Chair: Ada-Ioana Bunea			
11.00	Rolf Schmid	Biotechnology in Far East	
11.30	Kai Stieger, THW	Engineering of supramolecular photoactive protein architectures: Defined co-assembly of photosystem I and cytochrome c using a nanoscaled DNA-matrix	
11.45	Ting Zeng, UP	Human sulfite oxidase on Quantum Dots modified ITO electrodes	
12.00	Vanessa Gering, THW	Establishment and application of LC-MS/MS based detection methods: Analysis of coffee compounds	
Closing remarks/Lunch			