

PhD Symposium on Bioelectrochemistry and Bioanalysis

November 28-29 2013: Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde, Germany

Thursday, Nov 28th 2013		
9.30	Arrival	
10.00	Opening Fred Lisdat (TH Wildau) / Frieder Scheller (IBMT/UP)	
Chair: Kai Stieger (TH Wildau)		
10.15	Lars Jeuken University of Leeds England	Electrodes for integral membrane enzymes
10.45	Ting Zeng (UP)	Bioelectrochemistry and catalytic behaviour of recombinant human sulfite oxidase at nanoparticle modified electrodes
11.00	Dennis Weber (TH Wildau)	The engineering of cytochrome c mutants for enhanced reaction capabilities in multilayer arrangements
11.15	Johannes Tanne (IBMT)	Carbon nanotube-polymer nanohybrid as potential biosensor material
11.30	Lei Peng (UP)	Bioelectrocatalytic properties of a novel hexameric heme protein HTHP
11.45	Lunch	
Chair: Aysu Yarman (University of Potsdam)		
13.00	Jingdong Zhang Technical University of Denmark	Electrochemistry of metalloproteins at single molecule level
13.30	Hilal Yazici (UP)	Design of cytochrome b5 with surface tethering capabilities based on gold binding peptides
13.45	Andrei Sonnabend (IBMT)	Cell-free synthesis of functional G protein-coupled receptors
14.00	Devid Mrusek (IBMT)	Cell-free synthesis of membrane proteins with incorporated non-canonical amino acids
14.15	Coffee	
Chair: Johannes Tanne (IBMT)		
14.45	Oliver Lenz HU Berlin Germany	Biocatalytic hydrogen conversion in nature and on electrodes
15.15	Martin Friemel (UP)	Mitochondrial sulfur mobilization for the synthesis of biomolecules in human cells
15.30	Bettina Neumann (UP)	Peroxidatic activity of hemin/peptide complexes
15.45	Thomas Dietz (UP)	Role of oxygen in hSOx reaction
16.00	Coffee	

Chair: Hilal Yazici (University of Potsdam)		
16.30	<u>Dmitry Volodkin</u> IBMT Germany	Bioapplications of soft polyelectrolyte layer-by-layer films
17.00	Christoph Wettstein (TH Wildau)	Cytochrome c•DNA multilayer systems for biosensors – an interaction study of the redox protein with double stranded DNA
17.15	Artur Fandrich (TH Wildau)	Thermoresponsive electrode interface - developing a polymer carrier for biorecognition reactions
17.30	Henry Memczak (IBMT)	Development of hemagglutinin-binding peptides for influenza virus detection and their inhibitory potency
17.45	Dinner	
19.00	Social Event	

Friday, Nov 29th 2013		
Chair: Jörn Glökler (TH Wildau)		
09.30	<u>Bernhard Wolfrum</u> Forschungszentrum Jülich Germany	On-chip devices for stimulation and recording in cellular networks
10.00	Chenghong Lei (Pacific Northwest National Laboratory, USA)	Heated proteins are still active in a functionalized nanoporous support
10.15	Liane Kober (TH Wildau)	Cell viability assays and intact cell MALDI-TOF-MS for the investigation of effects in ecotoxicological test systems
10.30	Philipp Franke (TH Wildau)	„Off-label“-use of ion-sensitive field-effect transistors for high-throughput sequencing
10.45	Coffee	
Chair: Miriam Adamovski (University of Potsdam)		
11.15	<u>Thorsten Schmidt</u> TU Dresden Germany	Programmable DNA architectures
11.45	Maria Bosserd (IBMT)	Surface-imprinted polymer films for recognition of proteins prepared by electrospeaking
12.00	Decha Dechtrirat (IBMT)	Hybrid material for protein sensing based on electrosynthesized MIP on a mannose terminated SAM
12.15	Katharina Jetzschmann (IBMT)	Surface-imprinted electropolymer for molecular recognition of acetylcholinesterase
12.30	Closing remarks (Fred Lisdat and Frieder Scheller)	
Lunch		

Organized by:

Prof. Fred Lisdat

Artur Fandrich