



















PhD Workshop on Bioanalysis

November 27-28 2017: Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde, Germany

Monday, Nov 27th 2017

9.40 W	9.40 Welcome					
Session 1 Chair: Olga Aleksejeva						
9.45	Jingdong Zhang, DTU	Application of Scanning Probe Microscopy in Bioelectrochemistry				
10.15	Nikoloz Nioradze, THW	Nanogap Scanning Electrochemical Microscopy to Measure Permeability of Nuclear Pore Complex Membrane				
10.30	Kim Tiedemann, UP	Molybdoenzymes with Novel Reactivities				
10.45	Biljana Mitrova, UP	Direct Bioelectrocatalysis of Surfactant Immobilized TMAO Reductase –Towards Biosensor Construction				
11.00	11.00 Coffee					
Session 2 Chair: Biljana Mitrova						
11.30	Lo Gorton, LU	Electrochemical Communication between Photosynthetic Membranes/Cells and Electrodes for Harvesting Solar Energy				
12.00	Dmitri Ciornii, THW	Driving Photosystem I with Enzymes: Catalytic Bioelectronic Circuits on 3D Electrode Architectures				
12.15	Chris Cadek, UP	Analysis of the Function of TusA Homologous Proteins in Sulfur Metabolism of <i>Escherichia coli</i>				
12.30	Tugba Yildiz, UP	Analysis of the Role of TusA for Cell Functionality in Escherichia coli				
12.45 Lunch						
		Session 3 Chair: Aysu Yarman				
13.45	Zeynep Altintas, TUB	Biosensor Applications of Virus nanoMIPs				
14.15	Jan Grzegorzewski, UP	Pattern Recognition Applied on Virus Classification				
14.30	Sandra Stanke, IZI-BB	AC Electrically Functionalized Sensor Array for Influenza Virus Detection				
14.45	Xiaorong Zhang, UP	Electrosynthesized Molecularly Imprinted Polymer for Transferrin Recognition				
15.00	Göksu Özçelikay, AU	First MIP for the Recognition of Butyrylcholine Esterase				

15.15	Bettina Neumann, UP	Electrocatalytic Activity of an Electropolymerized Porphyrin Layer
15.30		Coffee

	Session 4 Chair: Sandra Stanke				
16.00	Henrike Müller- Werkmeister, UP	Ultrafast Structural Dynamics in Proteins			
16.30	Heike Kagel, THW	Controlling Enzyme Activity with Light using Photo Acids			
16.45	Christin Möser, IZI	DNA Nanostructures as Multivalent Carriers for Peptides			
17.00	Juliane Pfeil, THW	Mobile Microscopy on the Smartphone for Blood Analysis			
17.15	Mariam Esmaeeli, UP	Human Aldehyde Oxidase 1: Structure-Function Studies on a Cysteine-Rich Loop			
17.30	Fabian Heinrich, THW	Impedimetric Detection of Abasic DNA			
18.00-19.00 Dinner					
19.00 Social event					

Tuesday, Nov 28th 2017

Session 5 Chair: Dmitri Ciornii/ Mariam Esmaeeli				
09.15	Sergey Shleev, MU	Biosupercapacitors		
09.45	Jing Tang, DTU	3D Graphene-Glucose Oxidase Bioanodes for Enzymatic Biofuel Cells		
10.00	Gero Göbel, THW	Electrode Materials for a Reliable Catecholamines Detection via Differential Pulse Voltammetry		
10.15	Olga Aleksejeva, MU	Glucose/Oxygen Electric Power Biodevices with an Operating Voltage Exceeding the Thermodynamically Limited Open-Circuit Voltage		
10.30 Coffee				
11.00	Oscar Rojas, UNA	Carbon based Nanoparticles: Potential Material for Biocatalysis and Immobilization		
11.15	Muhammad Abrar Hasnat, UP	Dissecting the Proteins that Insert Fe-S clusters into Enzymes Involved in the Biosynthesis of the Molybdenum Cofactor or into Molybdoenzymes in <i>Escherichia coli</i>		
11.30	Theresa Richter, IZI-BB	Fluorescent Labeling and Functional Characterization of the Adenosine A2a Receptor in a Eukaryotic Cell-Free System		
11.45	Franziska Ramm, IZI-BB	Synthesis and Functional Characterization of Apoptin and Dianthin in Eukaryotic Cell-free Systems		
12.00		Closing remarks/Lunch		
14.00 End				