

Workshop on Biomimetic and Bioanalytical Systems 2010

22nd – 23rd November 2010: Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde, Germany

Monday, Nov 22		FINAL PROGRAMME
09.00	Arrival, Registration	
09.20	Opening	
	<i>Bio/Nano Interfaces</i>	
09.30	Plenary Lecture <u>Leonard Stoica</u> (RU Bochum) "PCCP: Towards a high potential biocathode based on direct bioelectrochemistry between horseradish peroxidase and hierarchically structured carbon nanotubes"	
10.00	Stefano Frasca (Univ. Potsdam) "Protein modified mesoporous material for electrochemical and optical detection"	
10.15	J. Tanne (TH Wildau): "Oxygen reduction by CdSe/ZnS quantum dots and application in glucose sensing"	
10.30	Oscar Rojas (Univ. Potsdam) „Synthesis of Gold Nanoparticles in Ionic Liquids“	
10.45	Federico Tasca (Lund University) "Cellobiose Dehydrogenase Aryl Diazonium Modified Single Walled Carbon Nanotubes: Enhanced Direct Electron Transfer through a Positively Charged Surface"	
11.00	Coffee	
	<i>Bio-inspired Catalysis and Enzymes, Nanobiotechnology, Cell Biotechnology</i>	
11.30	Plenary Lecture <u>Kallol Ray</u> (HU Berlin) "Biomimetic O ₂ Activation by Monooxygenase and Peroxidase Mimics"	
12.00	Aysu Yarman (IBMT) "Biomimetic catalysis by Microperoxidase-11 "	
12.15	Jascha Silbermann (TH Wildau) "Quality and information management in the laboratory"	
12.30	Patrick Bröker (Univ. Potsdam) "Ferrocene modified DNA dendrimers for sensor applications"	
12.45	Kinga Zor (TU Lyngby): "Real-time monitoring of neuronal stem cell differentiation using microfluidic on-line culture system"	
13.00	Lunch	
	<i>Bioelectronics and Energetics at Interfaces</i>	
14.30	Plenary Lecture <u>Burkhard Schulz</u> (Univ. Potsdam) "Electrical Conductive Polymers – Synthetic routes and morphological aspects for biosensor applications"	
15.00	Gero Göbel (TH Wildau) "Combination of two MWCNT-enzyme electrodes for bio fuel cell applications"	
15.15	Minling Shao (RU Bochum) "CDH- based biofuel cell anodes using specifically adapted Os-complex modified electrodeposition paints"	
15:30	Franziska Wegerich (TH Wildau, MPIKG): "Electroactive Multilayers of BOD and Cyt c variants"	
15.45	Coffee	
	<i>Biotechnology, Molecular Biology</i>	
16.00	Plenary Lecture <u>Claus Duschl</u> (IBMT) „Nanobiotechnology at the single cell level“	
16.30	Desiree Grienitz (TH Wildau) "Living cell microarray systems combined with reverse transfection technology "	
16.45	Mathias Christoph (Univ. Potsdam) "High-throughput Expression von Transkriptionsfaktoren und deren Interaktion mit DNA"	
17:00	Stefanie Grützke (RU Bochum) "Visualization of the oxygen consumption of living cells by means of constant-distance SECM"	
17:15	Plenary Lecture <u>Jenny Emneus</u> (TU Lyngby) "Monitoring Cellular Dynamics at Nanoscale using Micro and nanoanalytical tools"	
17.45	End	

Tuesday, Nov 23		<i>FINAL PROGRAMME</i>
	<i>Biomimetic materials</i>	
9.30	Plenary Lecture <u>Karsten Haupt</u> (Compiegne University of Technology) "Nanosensors Based on Molecularly Imprinted Polymer Nanocomposites as Synthetic Receptors" (<i>title may change</i>)	
10.00	Soeren Schumacher (IBMT) "Saccharide Recognition with Boronic Acids in Polymeric Networks"	
10.15	Luigi Sasso (TU Lyngby) "Self-Assembled Peptide Nanostructures for Biomedical Applications"	
10.30	Franziska Grüneberger (IBMT) "Molecularly Imprinted Polymer for Fructose Recognition"	
10:45	Philipp Consentius (IBMT) "Cell-free Systems: In vitro Translation of Membrane Proteins and Glycoproteins"	
11.00	Coffee	
	<i>Bio-inspired Catalysis and Enzymes</i>	
11.30	Plenary Lecture <u>Holger Dobbek</u> (HU Berlin) "Enzymology of the reductive Acetyl-CoA Pathway by Ni,Fe CO Dehydrogenase"	
12.00	Tobias Hartmann (Univ. Potsdam) "Structure-function studies on human aldehyde oxidase and the impact of polymorphisms"	
12.15	Artavazd Badalyan (Univ. Potsdam) "A novel PaoABC-aldehyde oxidoreductase: direct and mediated bioelectrochemistry"	
12.30	Christopher Schulz (Lund University) "Electrocatalytic characterisation of new mutants of cellobiose dehydrogenase from <i>Myriococcum thermophilum</i>"	
12.45	Closing	
13.00	Lunch	

Organized by: Nenad Gajovic-Eichelmann (Fraunhofer IBMT)
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