



Workshop Bioanalytics & Bioelectrocatalysis 2008

16.-18.12.2008

Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde

Organized by:

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University Potsdam, FhIBMT, TFH Wildau, Unicat, and BioHyTec

TENTATIVE PROGRAMME

Tuesday Dec 16. 2008	
16.00	Arrival
18.00	Opening Frieder Scheller, Ulla Wollenberger, Fred Lisdat
18.10	Invited lecture Wolfgang Schuhmann, U Bochum: Scanning electrochemical microscopy. Principles and application in biosensor research
7.00 pm Welcome dinner	
Wednesday Dec 17. 2008	
9.20	Invited Lecture Inez Weidinger, TU Berlin: Electron transfer dynamics of adsorbed biomolecules measured with Surface enhanced Raman spectroscopy (SERS)
10.00-10.40	Sebastian Bonk, TFH Wildau: Layer-by-layer Assembly and Characterization of Electrochemical Active Gold Nanoparticle-Cytochrome C Multilayers Stefano Frasca, Potsdam: Direct electrochemistry of cyt c immobilized on 3D-mesoporous ITO and development of a superoxide biosensor based on this functionalized material
Coffee	
11.10 – 12.30	Lei Peng, U Potsdam: Bioelectrocatalytic properties of <i>Agrocybe aegerita</i> peroxxygenase Gero Göbel, TFH Wildau: Organic Interlayers for Oxygen Reducing Electrons based on BOD Yvonne Ackermann, U Bochum: Optimization of biofuel cell cathodes using redox polymer/enzyme libraries in combination with SECM Birgit Nagel, IBMT: Smart Hydrogel Coatings in Bioanalytics
Lunch	

14-15.20	<p>Roberto Spricigo, U Potsdam: Electrical wiring of sulfite oxidase domains by a redox polymer</p> <p>Martin Mahro, U Potsdam: Purification and characterization of mouse aldehyde oxidase homologue 1</p> <p>Patrick Bröker, U Potsdam: Ferrocene modified sensor surfaces for electron transfer with PQQ dependent glucose dehydrogenase</p> <p>Kai Liefzau; TFH Wildau: In-situ Monitoring in Chemical Microreactors</p>
16.00-17.30 Bowling	
18.00	<p>Invited lecture</p> <p>Lo Gorton, U Lund: Towards a 3rd generation glucose biosensor</p>
18.40	<p>Sunil Bhand, U Lund: Novel strategies for analysis of pesticide residues in milk using biosensors</p> <p>David Sarauli, TFH Wildau: DNA-Cytochrome C Multilayers on Electrodes</p>
19.30 Dinner & Social evening	
Thursday Dec 18. 2008	
9.20	<p>Invited lecture</p> <p>Bengt Danielsson, U Lund: (Bio)sensors based on ZnO nanowire</p>
10-10.40	<p>Christine Mißler, IBMT: Enhancement of Stem Cell Differentiation Efficiency by Changing the Physical Properties of the Culture Medium</p> <p>Maria Yakovleva, Lund : Differentiation of Campylobacter j. strains using QCM in combination with lectin panels</p>
Coffee	
11.00 – 12.00	<p>Brahim Mail, TFH Wildau: Functional Genome Analysis of Cryptobiotic Tardigrades</p> <p>Chongxiao Tan, IBMT: A Homogeneous Immunoassay for Detection of Δ-9-Tetrahydrocannabinol</p> <p>Diana Lopez, TFH Wildau: RT-PCR Expression Profiles of Human Leukocytes under Various Culture Conditions</p>
12.00	Concluding remarks
Lunch	

Poster presentations

Michael Breitenstein, IBMT: Preparation of nano-arrays by an Atomic Force Microscope

Irene Schmilinsky, IBMT: Self-assembled photoactive biohybrid

Soeren Schumacher, IBMT: Nanoparticles for the recognition of saccharides