



## PhD Workshop on Bioanalysis

November 17-18 2016: Hotel Märkischer Hof, Poststrasse 8, 14943 Luckenwalde, Germany

**Thursday, Nov 17th 2016**

10.20 Welcome		
Session 1 Chair: Alessandro Foti		
10.30	Marcus Menger, Fh IZI-BB	<b>Aptamers, a real alternative to antibodies</b>
11.00	Júlia Erdőssy, MTA-BME	Electrosynthesized molecularly imprinted polymers for protein recognition
11.15	Katharina Jetzschmann, UP	Molecular imprinting of the oxygenase domain of cytochrome P450 BM3
11.30	Zeynep Altintas, TUB	The impact of computational simulations on biomarker-based disease detection and artificial receptor development
11.45	Xiaorong Zhang, UP	Molecularly imprinted polymers for the recognition of transferrin
12.00	Giovanni Fusco, Sapienza	Different polymer-based immobilization methods for the development of electrochemical enzyme sensors
12.15	<b>Lunch</b>	
Session 2 Chair: Tatjana Nitzer		
13.15	Heiko Möller, UP	<b>Biomolecular Structures, Dynamics, and Interactions Studied by NMR Spectroscopy</b>
13.45	Bettina Neumann, UP	Behavior of Microperoxidase 11 adsorbed to a metal oxide
14.00	Marc Riedel, THW	Connecting quantum dots with enzymes: Mediator-based approaches for the light-directed detection of glucose and fructose
14.15	Yannika Neukranz, UP	The connection of the molybdenum cofactor biosynthesis and the centrosome
14.30	Simona Riedel, UP	Characterization of two mitochondrial ABC transporter homologues in <i>Rhodobacter capsulatus</i>
14.45	<b>Coffee</b>	

<b>Session 3 -Alumni-</b>		
<b>15.15</b>	<b>Frieder W. Scheller, UP</b>	<b>LW20</b>
<b>15.45</b>	Nenad Gajovic-Eichelmann, Fh IZI-BB	Electroanalytical chemistry at Fraunhofer (Golm) 2000-2016: Interesting results and open questions
<b>16.05</b>	Andreas Rose, Merz	New challenges with regards to quality & risk management requirements for medical devices
<b>16.25</b>	Kristian Lettau, Draeger	Immunochromatographic test strips for use in point-of-care applications
<b>16.45</b>	Aysu Yarman, TAU	From University Potsdam to Turkish German University
<b>17.05</b>	Zvonimir Marelja, imagine	Lessons from the fruit fly: systemic and cellular perturbations in the lysosomal storage disease cystinosis
<b>17.25</b>	Henry Memczak, qpa	Science and technology transfer
<b>17.50-19.00</b>		
<b>Dinner</b>		
<b>LW20 Jubilee party</b>		

## Friday, Nov 18th 2016

<b>Session 4 Chair: Kai Stieger</b>		
<b>09.15</b>	<b>Petra Wendler, UP</b>	<b>Single particle cryo EM of dynamic macromolecular machines</b>
<b>09.45</b>	Alessandro Foti, UP	Human aldehyde oxidase: studies on the flavin active site
<b>10.00</b>	Tobias Hartmann, UP	<i>Rhodobacter capsulatus</i> formate dehydrogenase catalyzes the reversible interconversion of carbon dioxide and formate
<b>10.15</b>	Biljana Mitrova, UP	Electrochemistry of surface immobilized Formate dehydrogenase from <i>R. capsulatus</i> – molybdoenzyme capable of CO <sub>2</sub> fixation and biofuel production
<b>10.30</b>	Dmitri Ciornii, THW	Coupling of photosystem I with electrodes by means of carbon nanomaterials
<b>10.45</b>		
<b>Coffee</b>		
<b>Session 5 Chair: Ting Zeng</b>		
<b>11.15</b>	<b>Burkhard Micheel, UP</b>	<b>For how much longer will we use antibodies?</b>
<b>11.45</b>	Tatjana Nitzer, Fh IZI-BB	Cell-free synthesis, functional characterization and site-specific fluorescence labeling of antibody fragments
<b>12.00</b>	Olga Nikolaeva, Fh IZI-BB	Cell-free synthesis of functional antibodies using eukaryotic lysates
<b>12.15</b>	Gero Göbel, THW	Influence of human body liquids on the performance of a carbon nanotube -based glucose/oxygen biofuel cell
<b>12.30</b>	Anna Grebinyk, THW	Fullerene C <sub>60</sub> as a nanocarrier of Doxorubicin for cancer treatment
<b>Closing remarks/Lunch</b>		