Learning from Single Molecules 2009

June 29th - July 1st, 2009 KSI, 53604 Bad Honnef



Program

Monday, June 29th, 2009

12:00 – 14:00	Arrival / Registration / Lunch Buffett
14:00 – 14:10	Welcome & Introduction: Ulrich Kubitscheck
	Chair: Jörg Enderlein
14:10 – 15:00	Gerhard Schütz Addressing plasma membrane nanostructures by single molecule techniques
15:00 – 15:50	Kevin Braeckmans Introduction to Single Particle Tracking
15:50 – 16:20	Coffee Break
16:20 – 17:10	Rainer Heintzmann Microscopy Image Processing: From Data to Understanding
17:10 – 18:00	Markus Sauer Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification
18:00 – 18:10	Coffee Break
18:10 – 19:00	Dario Anselmetti What do we learn from mechanical single molecule force spectroscopy experiments with AFM, SNOM and optical tweezers?
20:00	Workshop dinner: Restaurant "Weinhaus Steinbach" Spießgasse 2, 53604 Bad Honnef, Telefon: 0 22 24 / 24 66

Tuesday, June 30th, 2009

	Chair: Gerhard Schütz
8:30 – 9:20	Eugene Petrov
	FCS as a tool to study dynamics in biopolymers and membranes
9:20 – 10:10	Jörg Enderlein
	Dual-focus fluorescene spectroscopy and imaging: a versatile tool for single-molecule biophysics
10:10 – 10:30	Coffee Break
10:30 – 11:20	Don Lamb
	How Strict are the Chaperons? A single molecule burst analysis approach to investigating the role of chaperons in protein folding
11:20 – 12:10	Claus Seidel
	Molecular Ångström Optics
12:15 – 13:15	Lunch
13:15 – 16:00	Hike in the Siebengebirge
	Chair: Thomas Schmidt
16:00 – 16:50	Johannes Hohlbein
	Single-molecule studies of DNA polymerase dynamics in solution and on surfaces
16:50 – 17:40	Andreas Zumbusch
	Chromophores for Single Molecule Fluorescence Detection
17:40 – 18:00	Coffee Break
18:00 – 18:50	Dirk-Peter Herten
	Probes for Single-Molecule Microscopy
18:50 – 20:00	Dinner
20:00 – 20:30	Ulrich Kubitscheck
	Tracking of single, native RNA molecules
20:30	PI disccussion: Creation of a European Network on Single Molecule Techniques

Wednesday, July 1st, 2009

	Chair: Andreas Zumbusch
8:30 – 9:20	Hanns Häberlein
	Membrane receptor dynamics studied by FCS and single molecule tracking
9:20 – 10:10	Gregory Harms
	TGF-beta signaling: from molecule to organism
10:10 – 10:20	Coffee Break
10:20 – 11:10	Thomas Schmidt
	G-Protein Signaling followed Molecule-by-Molecule
11:10 – 12:00	Maxime Dahan
	Visualizing cellular events, one quantum dot a time
12:00	Lunch and end of the workshop