

Workshop Agenda: Atomic Force Microscopy and related Techniques

Thursday 5. May 2011

Time	Title of talk	Presenter
12 am - 1 pm	Arrival and light lunch	
1:10 - 2:00	A force toolkit for cell and molecular research	Dr. Torsten Müller
2:00 – 2:50	The influence of micro- & nanostructures on cell adhesion studied by AFM & computer simulations	Dr. Patrick Elter
2:50 - 3:10	Coffee	
3:10 - 4:00	Nanomechanics of proteins by AFM and computer simulations	Prof. Dr. Piotr E. Marszalek
4:00 - 4:20	Cell-matrix crosstalk: an example for a mechanism for force mediated signaling in cells	Thomas Weihe
4:20 - 4:40	Quantitative analysis of cell morphological parameters from microscopic images (SEM and LSM)	Claudia Matschegewski
5:00	Photoshooting	
6:30	Working Dinner	

Friday 6. May 2011

Time	Title of talk	Presenter
9:10 am -10 am	Dielectric properties of bound water in biological systems; beauty of the nature	Prof. Dr. Yuri Feldman
10:00 – 10:50	Elastic constants of biomembranes and nerve, and the use of force microscopy	Prof. Dr. Thomas Heimburg
10:50 – 11:10	Coffee	
11:10 – 11:30	The Stability of Solitons in Nerves	Revathi Appali
11:30 – 12:20	Electrostatics and mechanics of the interactions between osteoblasts and titanium surface	Prof. Dr. Ales Iglic
12:20 – 12:40	Interaction between the surface of an implant and the surrounding biosystem	Ekaterina Gongadze
1:00 pm	Lunch, end of workshop	

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