



Slovenska akademija znanosti in umetnosti

Novi trg 3 / p.p. 323 / SI-1001 Ljubljana / Slovenija  
T +386 1 47 06 100 / F +386 1 42 53 423 / E sazu@sazu.si / www.sazu.si

**Slovenska akademija znanosti in umetnosti**  
(Slovenian Academy of Sciences and Arts)  
**IV. razred za naravoslovne vede**  
(Section IV - Natural Sciences)

**CELL SCIENCES SEMINAR & Super-Resolution Microscopy Workshop**

*Seminar celičnih znanosti: delavnica visoko-ločljivostne mikroskopije*  
Petek/FRIDAY, June 4th, 2010 (**Prešernova dvorana**), **Novi trg 3, Ljubljana**

**9:20-9:55 Registracija / Registration**

**9:55-10:00 Welcome / Pozdrav**

10:00-10:45 **Bazbek Davletov & Enrico Ferrari** (MRC, Cambridge, UK) Medicinal Toxins and SNARE-Based Nanotechnologies. *Medicinski toksini in nanotehnologija proteinov SNARE.*

10:45-11:30 **Patrizia D'Adamo** (Div. of Neuroscience, San Raffaele Sci. Institute, Milan, Italy) Cognitive Impairment in Gdi1-Deficient Mice is Associated with Altered Synaptic Vesicle Pools and Short-Term Synaptic Plasticity, and can be Corrected by Appropriate Learning Training. *Kognitivni deficit v miškah brez Gdi1 je povezan s spremenjeno zalogo sinaptičnih mešičkov, kratkotrajno plastičnostjo in je lahko korigirano s treningom učenja.*

11:30-12:15 **Stéphane Oliet** (Inserm, Bordeaux, France) Contribution of Astrocytes to NMDA Receptor Activity: A role of Astrocytes in Memory Formation? *Vloga astrocitov pri delovanju receptorjev NMDA: ali astrociti oblikujejo spomin?*

**12:15-13:30 Lunch / Kosilo**

13:30-14:15 **Dan Cojoc** (CNR-IOM, Bazovica, Italy) Optical Tweezers and AFM for Cell Biophysics. *Optična pinceta in mikroskopija AFM v celični biofiziki.*

14:15-15:00 **Yuri Korchev & Andrew Shevchuk** (Biophysics, Imperial College London, UK) Beyond the Optical Resolution in Living Cell: Biomedical Applications of Scanning Ion Conductance Microscopy. *Pod optično ločljivostjo v živih celicah: biomedicinska uporaba skenirne ionske prevodnostne mikroskopije.*

15:00-15:45 **Elmar Krause** (Cell. Neurophysiology - J. Rettig, Saarland Uni., Homburg, Germany) Structured Illumination Microscopy (SIM) - Application to Biological Research. *Mikroskopija strukturnega osvetljevanja - uporaba v bioloških raziskavah.*

**15:45-16:15 Coffee Break / Odmor**

**Young Scientist Presentations / Predstavitve mladih znanstvenikov**

16:15-16:45 **Dominik Wildanger** (S.Hell's Nanobiophotonics Lab, Max-Planck, Goettingen, Germany) Nanoscopy with Focused Light. *Nanoskopija s fokusirano svetlobo.*

16:45-17:15 **Jernej Jorgačevski** (University of Ljubljana; Celica, Biomedical Center, Ljubljana, Slovenia) Nanophysiology: Fusion Pore Regulation by Munc18-1. *Nanofiziologija: uravnavanje fuzijske pore s proteinom Munc18-1.*

**Walk into the Historic Downtown of Ljubljana / Sprehod po stari Ljubljani**