

EMBO PRACTICAL COURSE:

Modern Biophysical Methods for protein-ligand interactions, Oulu, 17-21 October 2011

Program:

All lectures take place at the seminar room at the Department of Biochemistry, BK 226

Monday, October 17

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| 14:00 | Bus leaves from the Hotel |
| 12:00-15:15 | Registration and coffee, lobby of the Dept. of Biochemistry, 1 st floor |
| | Kalervo Hiltunen |
| 15:15-15:45 | Words of welcome, seminar room BK226, 2 nd floor |
| | Vladimir Rybin |
| 15:45 - 16:15 | “Overview of novel biophysical approaches to study intermolecular interactions” |
| 16:15 - 18:00 | Introduction of the speakers and the participants |
| 18:00 - 19:00 | Get-together at the BK 226 seminar room |
| 19:00-20:20 | Dinner at Restaurant Discus (University of Oulu) |
| 20:30 | Bus leaves from the University back to the Hotel |

Tuesday, October 18

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| 8:30 | Bus leaves from the Hotel |
| | Olga Kalinina |
| 9:00 - 9:40 | “Bioinformatic tools for the identification of protein interactions” |
| | Montserrat Soler-Lopez |
| 9:40 - 10:20 | “An advanced experimental approach for computational biologists to validate predicted protein-protein interactions” |

10:20 - 10:40	Coffee Break
	Ray Owens
10:40 - 11:20	“Biophysical characterization of protein samples in a high throughput production environment”
	Inari Kursula
11:20 - 12:00	“Studying macromolecular interactions using surface plasmon resonance”
12:00 - 13:30	Lunch
13:30 - 18:00	Practicals
18:00 - 19:00	Poster session
19:00 - 20:30	Dinner
20:45	Bus leaves from the University back to the Hotel

Wednesday, October 19

8:30	Bus leaves from the Hotel
	Bernd Tartsch
9:00 - 9:40	“The characterization of protein-PEG and protein-detergent interactions using light scattering techniques”
	Thomas J. D. Jørgensen
9:40 - 10:20	“Analysis of protein structural dynamics and protein interactions using hydrogen (1H/2H) exchange monitored by mass spectrometry”
10:20 - 10:40	Coffee Break
	Mark Hink
10:40 - 11:20	“Probing protein dynamics and interactions by fluorescence fluctuation spectroscopy”
	Johan Hofkens
11:20 - 12:00	“A single molecule study of the enzyme substrate interaction”
12:00 - 13:30	Lunch

13:30 - 18:00	Practicals
18:00 - 19:00	Poster session
19:00 - 20:30	Dinner
20:45	Bus leaves from the University back to the Hotel

Thursday, October 20

8:30	Bus leaves from the Hotel
	Borries Demeler
9:00 - 9:40	“Analysis of reversible associations and interacting systems in the Ultracentrifuge”
	Veli-Pekka Jaakola
9:40 - 10:20	“Studying protein - ligand interaction using X-rays”
10:20 - 10:40	Coffee Break
	Lloyd Ruddock
10:40 - 11:20	“CD and Stopped Flow to study protein folding and interaction”
	Carsten Sachse
11:20 -12:00	“Macromolecular structure determination by electron cryomicroscopy”
12:00 - 13:30	Lunch
13:30 - 18:00	Practicals
18:15	Bus leaves from the University back to the Hotel
20:00 - 23:00	Gala Dinner at Restaurant Sokeri-Jussi in the city center

Friday, October 21

8:30	Bus leaves from the Hotel
	Stefan Duhr

9:00 - 9:40 “Interaction analysis with microscale thermophoresis - sensitive biomolecule analysis in localized temperature distributions”

Ilka Wittig

9:40 - 10:20 “Isolation and characterization of protein complexes by blue-native electrophoresis”

10:20 - 10:40 Coffee Break

Vesa Hytönen

10:40 - 11:20 “Microcalorimetry as a tool to study thermodynamics and protein-ligand interactions”

Michael Sattler

11:20 -12:00 “NMR-spectroscopy for studying biomolecular recognition and dynamics”

12:00 - 13:30 Lunch

13:30 - 18:00 Practicals

18:00 - 18:30 Workshop Closing

18:30 - 20:00 Dinner

20:15 Bus leaves from the University back to the Hotel