

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

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

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