

**National Center for Biomolecular Research
and
Central European Institute of Technology, Masaryk University**

NCBR Seminar – CB060

FACULTY OF SCIENCE, MASARYK UNIVERSITY

Spring semestr 2011/2012

Teacher prof. RNDr. Vladimír Sklenář, DrSc.

Dates and time:

Group meetings - individual for each group, managed by group leaders, every week

Chemistry seminars - pavilion A11, room 132, 14.00

NCBR seminars room – A11, room 205, pavilion A11, 14.00

Mendel Lectures – Mendel's Museum, Mendel Square, 17.00

The seminar is open to all colleagues and students of Masaryk University.

23. February Only group meetings
1. March **Ph.D. Students**
Sreenivas Reddy Bathula
Molecular interventions of peptides and small molecules. A structural study.
Jakub Štěpán
Reaction Mechanism of MutH Enzyme – Quantum Mechanics/Molecular Mechanics Study
8. March **Ph.D. Students**
Arnošt Mládek
Understanding of the Sequence Preference of Recurrent RNA Building Blocks using Quantum Chemistry: The Intrastrand Dinucleotide Platform
Jan Novotný
Structure of oligonucleotides, their modified forms and complexes with ligands.
- 17:00 Mendel lecture**
Professor Angelika Amon
MIT, Cambridge, USA
Causes and consequences of aneuploidy
15. March **PhD. Students**
Rakesh Aithal
Role of Spo11 in Meiotic recombination
Marek Šebesta
Decoding the PCNA code
22. March **Only group meetings**
**10th Discussions in Structural Molecular Biology, Nové Hrady,
March 22 – 24, 2012**
- 17:00 Mendel lecture**
Professor Tony Hyman
MPI-CBG, Dresden, Germany
Cytoplasmic organization through phase transitions
29. March **PhD. Students**
Peter Holub
TRAMPing around CTD
Dominika Horššová
Characterization of mammalian oligo(U)-binding proteins
5. April **Chemistry seminar**
Professorship lecture
Jana Klánová

12. April **PhD. Students**
Jan Alán
Free energy calculations on lectin-carbohydrate complexes
Martin Babinský
Probing the Relationship between NMR Observables and Supramolecular Structure
Robert Vácha
Interaction of peptides and nanoparticles with phospholipid membranes
19. April **PhD. Students**
Veronika Bačiková
NMR study of Nrd1 RRM and its binding to RNA
Fruzsina Hóbor
Recognition of termination signal of non-coding RNAs by Nab3
- 17:00 Mendel lecture**
Dr. Roland Kanaar
Erasmus Medical Center, Rotterdam, The Netherlands
How DNA recombination maintains genome integrity
26. April **PhD. Students**
Crina-Maria Ionescu
Fast methods for atomic charge calculation: theory and applications
Peter Kolesár
Srs2 and the SUMO-interacting motif biology
3. May **Chemistry seminar**
Professorships lectures
Luděk Bláha
Organic contaminants and toxins in waters and their effects on living organisms
Michaela Wimmerová
10. May **PhD. Students**
Josef Pasulka
Structure determination of ZCCHC9 zinc knuckle motifs
Dmytro Ustajenko
Functional and biochemical characterization of DIS3L2, the third mammalian homolog of yeast exosome nuclease Dis3p/Rrp44p
16. May **17:00 Mendel lecture**
Dr. Oscar Fernandez-Capetillo
EMBO Young Investigator Lecture
Spanish National Cancer Research Centre, Madrid, Spain
Exploring the role of replicative stress in cancer and ageing
17. May **PhD. Students**
Jiří Nováček
Ultra-high resolution NMR in studies of disordered proteins
Veronika Papoušková
NMR study of RNA polymerase delta subunit unique for gram-positive bacteria
24. May **17:00 Mendel lecture**
Professor Doug Koshland
University of California, Berkeley, USA
Preventing chromosomes from going rogue