FEBS Advanced Course
Ligand-Binding Theory and Practice
July 3–10, 2016

Academy and University Center Nove Hrady, CR

Organizers:
Jannette Carey, Princeton, NJ, USA
E-mail: jcarey@princeton.edu
Rüdiger Ettrich, Nove Hrady, Czech Republic
E-mail: ettrich@nh.cas.cz
Wei-Feng Xue, Canterbury, Kent, UK
E-mail: w.f.xue@kent.ac.uk

Invited speakers and tutors:
Andrea Bellelli, Rome, Italy
Teresa Carломagno, Heidelberg, Germany
Daniel Charlier, Bruxelles, Belgium
David Dryden, Edinburgh, UK
Andrzej Gorecki, Kraków, Poland
Rita Grandori, Milan, Italy
Preston Hensley, Groton, CT, USA
Petr Lukavsky, Brno, Czech Republic
Ruth Nussinov, Tel Aviv, Israel
Bruce Turnbull, Leeds, UK
Ondrej Vanek, Prague, Czech Republic
David Witte, Munich, Germany


This course provides training in the theoretical and practical principles of ligand binding. It offers participants the possibility to analyse their own macromolecular interaction systems using contemporary advanced methods including surface plasmon resonance, isothermal titration calorimetry, UV-vis and fluorescence spectroscopies, and microscale thermophoresis. The design, execution, and interpretation of these experiments will be guided by expert tutors. Additional lecturers will discuss other contemporary methods used in experimental studies of ligand binding, and current views on the phenomenon of allostery.