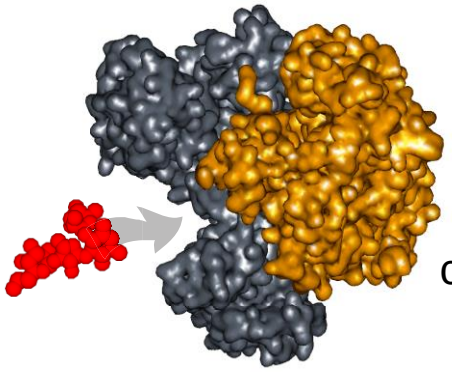
Výzkumná skupina Molekulární komplexy chromatinu
Národní centrum pro výzkum biomolekul, Přírodovědecká fakulta
Masarykova univerzita

Practical Course

Binding Analysis for Experimental Biologists

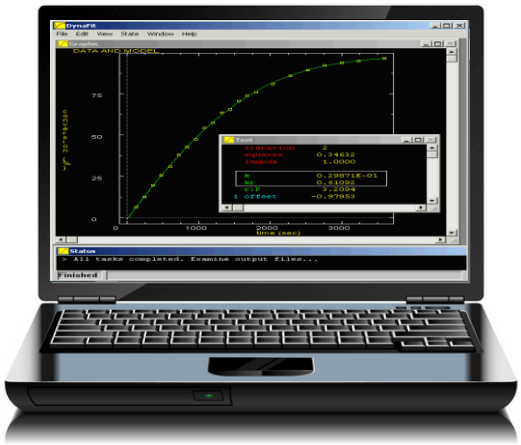


12. - 16. May 2014

PC lecture room 1.21
A2

IC113

code for registration in IS MU



Lecturer **Dr. Petr Kuzmic**

The course is dedicated to general principles of data analysis that can be used in all biological sciences. The course includes theoretical introduction lectures and practical sessions. Practical sessions will be held in the computer laboratory using the software **DynaFit**. Real data from published literature will be analyzed.

Lectures

- Matching mathematical models to experimental data
- Confidence intervals for rate and equilibrium constants
- Experimental methods for the determination of equilibrium and rate constants
- Analysis of equilibrium binding data
- Enzyme catalysis and inhibition of enzymes

Practical PC/laptop exercises

- Determination of an equilibrium binding constant for protein-protein interactions
- Determination of rate constants for protein-ligand interactions
- Resolution of stoichiometry for protein-ligand interactions
- Selecting an appropriate mechanism for enzyme inhibition

Students are encouraged to bring their own experimental data.

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INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ