

Label-free techniques for the characterization of protein interactions

3rd-5th May 2023

Institute of Biotechnology of the Czech Academy of Sciences,
Vestec, Czech Republic (MoB-IBT)

This short training course will focus on the application of label-free biophysical techniques, such as Isothermal Titration Calorimetry (ITC), Label-Free Microscale Thermophoresis (LF MST), and Differential Scanning Fluorimetry (DSF) for the characterization of protein interactions.

MicroCal PEAQ-ITC, NanoTemper Monolith NT.LabelFree, and Prometheus NT.48 instruments available in the Centre of Molecular Structure will be used for hands-on training for the measurement of protein interactions.

The course is aimed at researchers with little experience, who want to acquire new skills in the application of label-free biophysical methods to characterize macromolecular interactions. They will get knowledge on sample requirements, experimental setup, data collection, equipment handling, design and analysis of experiments.

The course is comprised of a seminar with an overview and advantages of different techniques for the molecular interaction characterizations, fundamentals of ITC and MST and experimental design considerations followed by practical sessions and data analysis.

Other details:

Registration to the course is required. Participants will receive partial financial support to attend the course, including economy travel, lunches, dinners and 2 nights of accommodation with breakfast (accommodation will be booked by the organisers). Ten travel bursaries of a maximum 300 euros each will be offered to cover travel costs.

Visit the website to find out more and to apply to take part in the course.

<https://www.mosbri.eu/training/end-user-short-courses/esc5/>