SPINE2 - COMPLEXES: From Receptor to Gene: Structures of Complexes

MDC MAX-DELBRÜCK-CENTRUM FÜR MOLEKULARE MEDIZIN BERLIN-BUCH IN DER HELMHOLTZ-GEMEINSCHAFT e.V.

FMP Leibniz-Institut für Molekulare Pharmakologie im Forschungsverbund Berlin e.V.

Practical Course on the Biophysical Characterisation of Macromolecular Complexes

Berlin, 9-12 November 2008

The analysis of large, flexible or transient macromolecular complexes remains a serious challenge for the structural biologist. A thorough characterisation of isolated protein complexes prior to structural analysis is, therefore, of paramount importance. In this workshop, the theoretical and practical aspects of some of the most important methods for the biophysical characterisation of macromolecular complexes will be demonstrated.

ORGANISERS

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TUTORS

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METHODS

Analytical Ultracentrifugation (AUC)

Surface Plasmon Resonance (SPR)

Nuclear Magnetic Resonance (NMR)

Isothermal Titration Calorimetry (ITC)

ThermoFluor Assay

Multi-Angle Light Scattering (MALS)

PROGRAM

Sunday 9
Arrival of participants in the afternoon/evening, mixer/get-together

Monday 10
Introductory lecture, first practical session (**AUC, NMR**)

Tuesday 11
Second practical session (**ITC, SPR**), theoretical lectures, analysis of results, course dinner

Wednesday 12
Third practical session (**ThermoFluor Assay, MALS**), analysis of results, final discussions, departure of participants in the evening

APPLICATIONS

should be sent by email to ulrich.gohlke@mdc-berlin.de

The course is open to all applicants but please clearly indicate your affiliation to a SPINE-2 or TEACH-SG partner laboratory if applicable, and your motivation for joining the course. Applicants are encouraged to bring their own protein (complex) samples for analysis during the practical course, so please include a short (!) description of your sample. All participants are expected to cover their travel and local expenses from own sources and no financial support will be provided.

Deadline for applications is October 3, 2008.