



PROTEOMICS IBPS - MOLECULAR INTERACTIONS

OUR SERVICES

■ The engineer in charge of the facility provides user support for sample preparation and data analysis and contributes to methodologic and technologic developments:

- quality control: estimation of sample purity before immobilization by capillary electrophoresis (Experion) and equipment maintenance;
- choice of coupling chemistry, control of surface specificity and ligand stability;
- tracking of stability of interactions and regeneration efficiency, automated sample processing;
- kinetic study (k_{off} , k_{on} , Kd , Ka);
- analysis of results and preparation of data for publication.

Our services are fully accessible to both public and private research laboratories. Please refer to the website for pricing.

OUR EXPERTISE

■ The facility has strong expertise in the analysis of protein/protein interactions and of more complex interactions between biomolecules of different biochemical natures (nucleic acids, lipids, sugars, ions, etc.).

OUR TECHNOLOGY

■ The BIACORE® device is a biosensor that uses Surface Plasmon Resonance (SPR). It enables us to study, without a specific sensor, real-time interaction characteristics between two molecules on a bio-specific surface, the ligand being immobilized on the sensor surface and the analyte being injected. The SPR quantifies refraction index changes on the surface, which are due to the formation and dissociation of molecular complexes and are linked to mass variations at the biosensor surface.

EQUIPMENT

Biacore 3000 (GE Healthcare)

- SPR analysis system

Experion (Bio-rad)

- Capillary electrophoresis system

CONTACT

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