Registration form for Surface Plasmon Resonance Facility
(spr.bios@iitb.ac.in)

Date: ________________

External Registration Number (Office use only):
________________________________________________________

Name of User:
________________________________________________________

Name of Institution/Organization:
_______________________________________________________________________

Name of the Dept/Div/Sec:
_______________________________________________________________________

Email and Tel.No.:
________________________________________________________

Nature of samples involved:
_______________________________________________________________________
_______________________________________________________________________

Number of Samples to be tested:
_______________________________________________________________________

Type of Analysis required:
_______________________________________________________________________

Molecular weight of ligand and analytes involved:
_______________________________________________________________________
Isoelectric point (pI) of the ligand involved:_____________________________________________________

Available concentration of ligand and analytes:_________________________________________________________________

In case of small molecule analyte: Is the molecule dissolved in organic solvent? Is yes, please specify:__________________________________________________________

Does your analyte tend to aggregate? :________________________________________

Any earlier experimental indications of the ligand-analyte interaction:__________________________________________________________

Conformational changes on ligand-analyte interaction:__________________________________________________________

Any specific temperature requirement: ____________________________________________

Any other details to be shared: ____________________________________________________________

Kindly mention details (and bring along for discussion) from literature search performed on similar studies:

__________________________________________________________

__________________________________________________________

*Ligand: The ligand is the interaction partner attached to the surface.

*Analyte: The analyte is the interaction partner that passes in solution over the surface.
INSTRUCTIONS FOR SAMPLE PREPARATION

- Experiments should be discussed with the facility in-charge before appointment.
- Purity of samples is extremely important for generating good data.
- Protein concentrations should be measured accurately before starting the experiment.
- The molecular weight as well as the pI of the proteins should be known before immobilization.
- All buffers should be filtered through 0.22 micron filters and degassed.
- Do not degas buffers containing detergent. Add detergent after degassing.
- For organic solvent containing buffer, filter using organic solvent resistant membrane.
- Cell extracts and nanoparticles can block integrated micro fluidic cartridges and syringes.
- Any query regarding your SPR experiment can be emailed on spr.bios@iitb.ac.in
- Appointments will be provided as per que and the user will be informed about the same.
- Kindly perform literature review on similar work and accumulate as much information as possible for good quality data.

Whenever the prepared samples are used in the publications appropriate acknowledgement of usage of IIT Bombay SPR facility must be mentioned. The details should be forwarded to spr.bios@iitb.ac.in

GIVEN MATERIAL IS NOT POISONOUS OR TOXIC IN ANY WAY: ____________

We agree to acknowledge the Surface Plasmon Resonance (SPR) Central Facility of IIT BOMBAY in our Publications/Reports/Thesis in which the data is used with due feedback through email.

Signature of
User: ____________________________________

Sample received (date): __________________________

Sample analysis completion (date): __________________________

Signature of concerned Staff-in-charge/TA: __________________________