**Indian Institute of Technology (IIT) Bombay, Powai**
**Mumbai-400076**

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# 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: _____**