



Module PMRF ISSS019/II/2025

## Basic techniques of molecular biology

### Name of the PMRF student

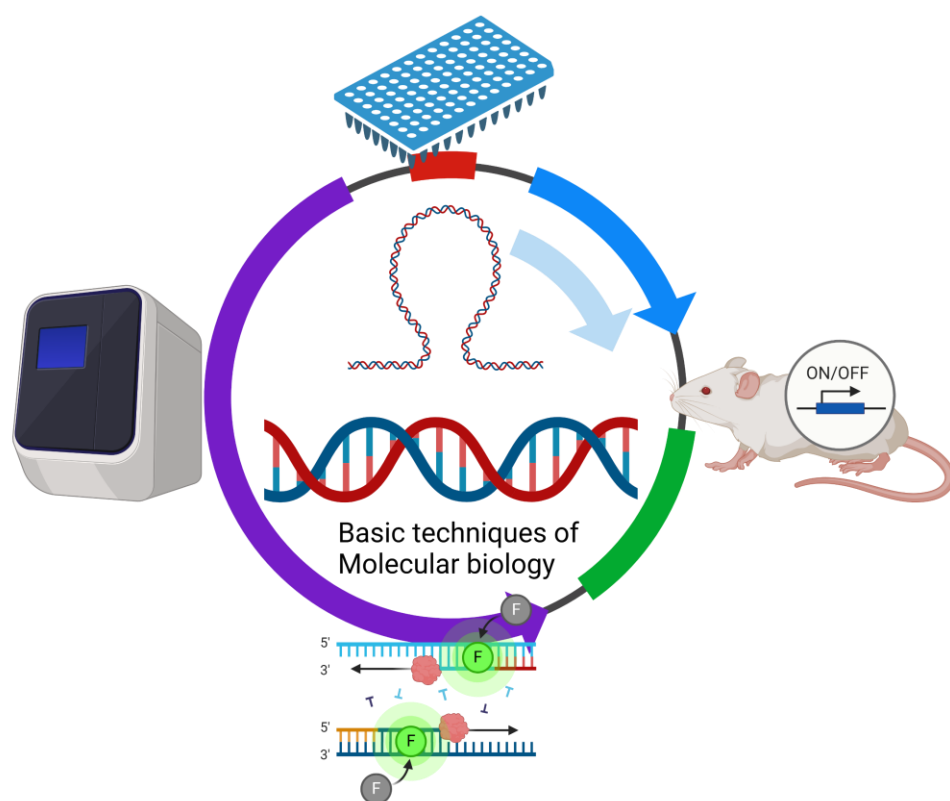
Risabh Sahu

### Required background of the students taught

Undergraduate and postgraduate students interested in biology stream

### Details of the content of the module

- ❖ Plasmid and genomic DNA isolation
- ❖ Competent cell preparation and transformation
- ❖ Molecular cloning and subcloning
- ❖ Basics of site directed mutagenesis and CRISPR knock out
- ❖ RNA isolation
- ❖ cDNA preparation and PCR/quantitative real time PCR
- ❖ SDS gel, Western blotting
- ❖ Protein preparation from bacterial cells
- ❖ Immunoprecipitation
- ❖ Polysome profiling
- ❖ Northern blotting



### Schedule of the module

Course Starts on : 01/03/2025

Course ends on: 15/04/2025

Lecture days: Monday and Saturday

Time: 9:00pm -10:00pm

Meeting link : Will be shared later

Contact email ID: [issforum@gmail.com](mailto:issforum@gmail.com)

Registration link:  
<https://forms.gle/55ptfWH>