



Module PMRF-ISSS004

# STRUCTURAL BIOLOGY

## Name of the PMRF student

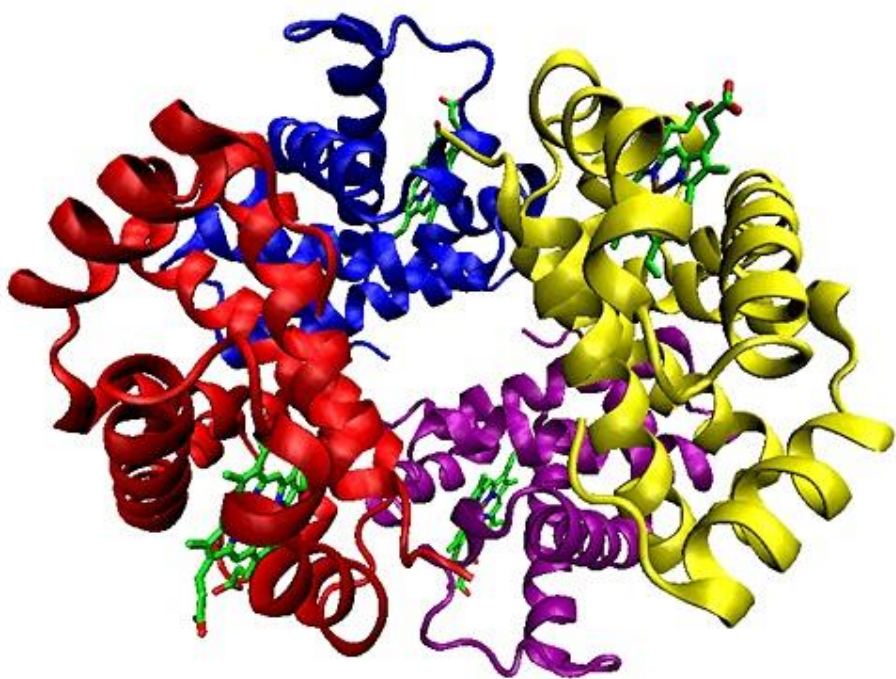
Attrayee Chakraborty, IISc

## Required background of the students taught

Undergraduate/Postgraduate students interested in pursuing research on protein structure and function

## Online session coordinator

Will be chosen from the list of registrants



## Details of the content of the module

- Protein structure
  - Levels of organisation
  - Protein folding
- Basics of bioinformatics tools
  - Protein structure prediction tools
- Methods of protein purification
  - Cloning and expression
  - Chromatographic methods
  - Checking for presence of proteins
- Macromolecular crystallography
  - Crystal growth
  - X ray data collection
  - Data interpretation
  - Model building
- Cryo electron microscopy(overview)
- Miscellaneous techniques to study protein behaviour
- Complementary session on handy research tips!

## Schedule of the module

Course start date: 25<sup>th</sup> April, 2022

Course end date: 6<sup>th</sup> July, 2022

Lecture days: Monday and Wednesday

Time: 6.30pm – 7.30 pm

Meeting link : Will be shared later

**Link**

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

Registration link:

[https://docs.google.com/forms/d/1NO9u2WtGSCHO5oLN2SLN3Un6oEyojv5mR\\_TAMB8QEf8/edit?usp=sharing](https://docs.google.com/forms/d/1NO9u2WtGSCHO5oLN2SLN3Un6oEyojv5mR_TAMB8QEf8/edit?usp=sharing)