PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement

facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS061/II/2024

Advanced Topics in Computational and Mathematical Oncology

Name of the PMRF student

Sarthak Sahoo

Required background of the students taught

Basic Biology
Linear Algebra
Ordinary Differential Equations
Familiarity with biological data

Details of the content of the module

Uploaded Lectures on Seminal Papers in Mathematical and computational Oncology
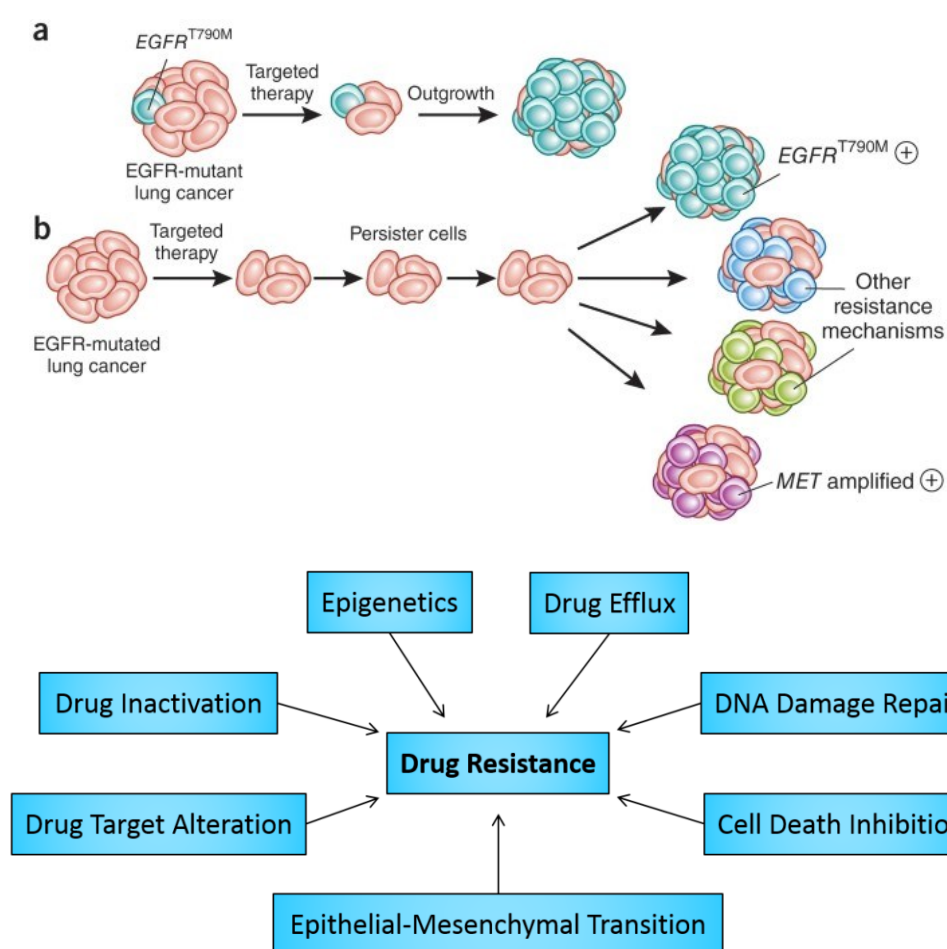
Special attention would be given to mathematical modelling of cell cycle in cancer

Other topics of mathematical modelling include:

Emergence of therapy resistance

Using high throughput data to build mathematical models

Mathematical models on bacterial and cancer cell persister states.

Schedule of the module

tentative start Date: 15th April 2023

Timings: Monday, Wednesday and Friday 6:00 pm to 8:00 pm (Lectures will be uploaded)

Discussion/Tutorial sessions as required

Meeting link : Will be shared later

Contact email ID: isss.forum@gmail.com

Registration link:
https://forms.gle/S1waYf9hPMNx4Yd99