



Module PMRF-ISSS002/2025

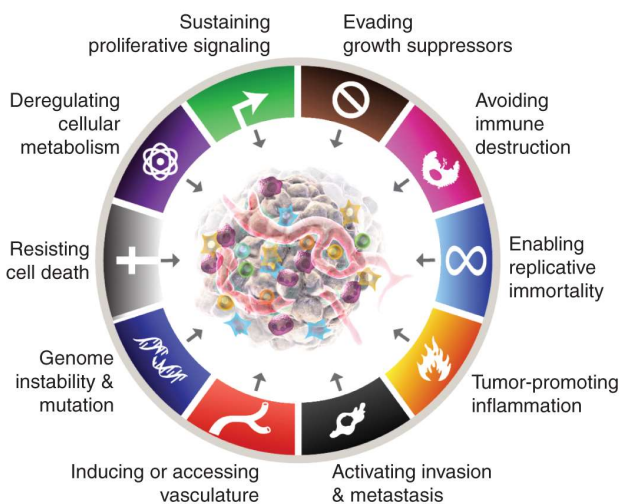
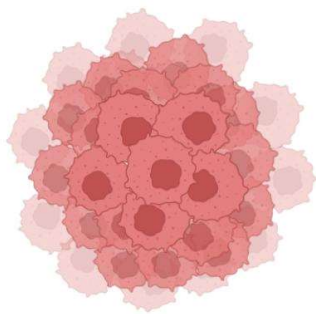
Advanced concepts in Cancer Biology and precision medicine

Name of the PMRF student

Ankita Bhattacharyya

Required background of the students taught

Undergraduate or postgraduate students with prior background in Biology who are interested in pursuing Biological research



Details of the content of the module

This course will delve into detailed concepts of cancer biology – focussing on the mechanisms of cancer onset and progression, and discuss strategies for early patient diagnosis and improved prognosis. The broad areas of focus will include :

- *Hallmarks of cancer – how do cancer cells become cancerous?*
- *Key signalling pathways altered in Cancer*
- *How do we detect cancer? (Traditional methods of cancer diagnosis and treatment)*
- *Advances in cancer diagnosis – The non invasive approach (exosomes, cell-free DNA)*
- *Advances in cancer treatment – combinatorial therapy and precision medicine*
- *Understanding cancer statistics –Hazard ratios, survival curves etc*
- *Understanding cancer evolution and drug resistance*

Schedule of the module

Course start date: 20.02.2025

Course end date: 31.03.2025

Timings: Monday (5pm-7pm) and
Thursday (5pm-7pm)

Meeting link : will be shared later

Contact email ID: issf.forum@gmail.com

Registration link:

https://docs.google.com/forms/d/e/1FAIpQLSdhU2O7_iSEkxR60MyPhfggbCRj_jfWfNtWWhLnanmXjLo9lw/viewform?usp=sharing