



Module PMRF-ISSS0038/2022

Host-pathogen Interactions

Name of the PMRF student

Awantika Shah

Required background of the students taught

No prerequisite is required for attending the course. All students with interest in biology are welcome.

Online session coordinator

Will be chosen from the list of registrants



Details of the content of the module

The dynamics between the host-pathogen seem to fit the Red Queen hypothesis which states organisms must continually adapt to survive and thrive in the face of continually evolving opposing organisms. Indeed, encounters of hosts and pathogens result in the so-called 'arms races', whereby hosts are under pressure to evolve resistance to pathogens while pathogens strive to develop countermeasures to evade host surveillance and achieve a successful infection. In this online module, we aim to go through the following concepts:

Various host pathogen interactions

- Host defenses against pathogens
- Host Immune signaling
- Virulent factors of the pathogens
- Pathogen mediated host immune evasion strategies
- Discussions of recent research articles published

Interactive online classes with quizzes/ assignments for assessments

Schedule of the module

Start Date: 10rd November 2022

End Date: 12th January 2023

Total number of sessions: 8-10

Thursday- 4:00 PM-5:00 PM (1h/week)

Last date of registration: 3rd November 2022

Meeting link : Will be shared later

Link

Contact email ID: issc.forum@gmail.com

Registration link:

<https://forms.gle/J93yNhKtX2z21ysGA>