



Module PMRF-ISSS001/2022

Introduction to Cellular and Molecular Neuroscience

Name of the PMRF student

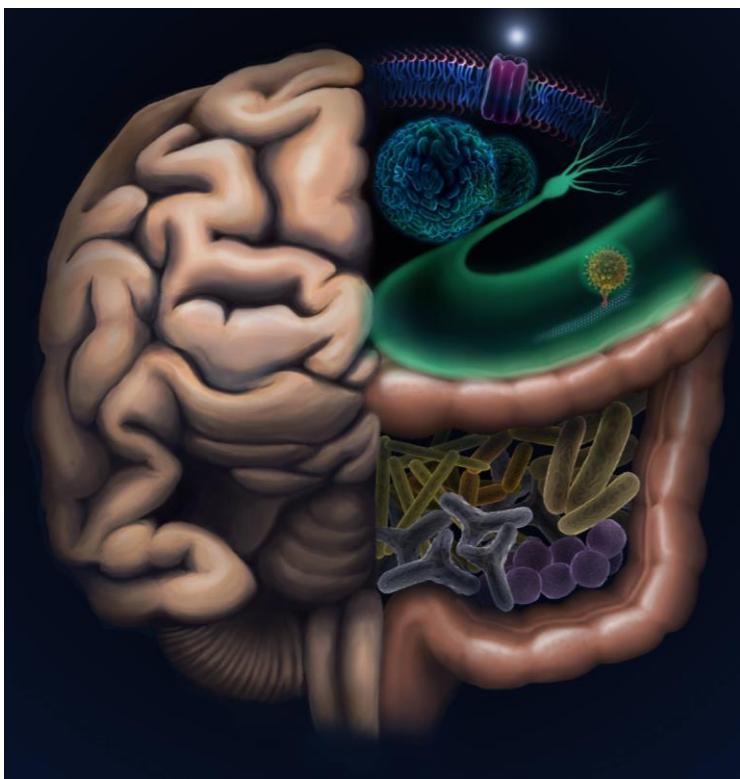
Vanika Dhingra, IISc

Required background of the students taught

- Undergraduates & Postgraduates in Biological Science
- Anybody curious to learn the basic biology of the brain

Online session coordinator

Will be chosen from the list of registrants



Details of the content of the module

1. Brief history of neuroscience
2. Cellular organization of nervous system
 - Structure of Neuron
 - Neuronal classification
 - Non-neuronal cells
3. Neuronal membrane at rest
 - Ionic basis of resting membrane potential
4. Action Potential
5. Neurotransmitter
 - Synthesis, storage & release
6. Neurotransmitter receptors & effectors
7. Principles of synaptic transmission & integration
8. Molecular mechanism of Learning and Memory

Schedule of the module

Start date: 17-February-2022

End date: May-2022

Lecture: Thursday 6:00 – 7:00 pm

Discussion class: First Wednesday of the month from
6:00 – 7:00 pm

Meeting link : Will be shared later

Contact email ID: issc.forum@gmail.com

Registration link:

<https://forms.gle/TUPJxUA459Wkuw2y7>