



Module PMRF-ISSS064/II/2024

Techniques in Cell Biology

Name of the PMRF student

S Manasa Veena

Required background of the students taught

Basic Biology, UG/PG in Life sciences/Biotechnology

Details of the content of the module

1. Introduction to cell culture
2. Cell culture media
3. Cell lines, development of cell lines
4. Types of cell cultures
5. Cell separation techniques
6. Differentiation
7. Transformation
8. Microscopy (Light microscopy, AFM, SEM, TEM)
9. Immunostaining, FRET, FRAP
10. Annexin assay
11. MTT assay
12. Calcein/PI assay
13. Proliferation assay
14. Knock out, Knock down assays



Schedule of the module

16 April 2024 – 25 April 2024

Video lectures would be uploaded everyday by 8pm.

10-12 hrs of course tentatively

Meeting link : Will be shared later

Contact email

ID: veenamanasa@iisc.ac.in

Registration link:

<https://forms.gle/xcqKPET5j3sqd5Tq8>

