PLANT AND ANIMAL CELL CULTURE

Semester	Subject Code	Category	Lecture	Theory	Practical		Credits
V	21CBT51	Core Practical - III	0	0	3hrs per week	45	3

COURSE OBJECTIVES

To create an opportunity to students for experimentally testing the principles and concepts studied in respective theory.

LIST OF EXPERIMENTS

- 1. Preparation of MS medium
- 2. Ex-plant preparation
- 3. Callus induction
- 4. Surface sterilization of explants
- 5. Synthetic seed preparation
- 6. Isolation DNA from human blood
- 7. Preparation of Animal cell culture media
- 8. Sterilization of Animal cell culture media
- 9. Instrument and facilities for animal cell culture.
- 10. MTT assay demo

REFERENCE BOOKS

- 1. Plant Biotechnology The genetic manipulation of plants (2nded) Slater A, Scott NW, Fowler MR (2008) Oxford University press.
- 2. Plant Tissue culture: Techniques and Experiments (3rded) Smith RH (2013) Academic Press, USA.
- 3. Plant Tissue culture: Theory and Practice, BhojwaniSS and RazdanMK (1996), Elsevier, India.
- 4. Biotechnology, Sathyanarayanan.U, Paperpack Publications (2005).
- 5. https://www.thermofisher.com

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