

Dr. Manjusha Sarkar

Assistant Professor

Educational Qualification – M.Sc., M.Phil., Ph.D.

Residential Address – 366, N.S. Road, Sarkarpara, Sheoraphuli, Dist.- Hooghly, West Bengal, 712223

Teaching Experience – 6 years

Specialization – Genetics and Molecular Biology

Area of Research - Plant Biotechnology

Area of Interest – Plant Tissue Culture

Position Held: 1. JRF (Department of Botany, University of Kolkata)

2. SRF (Department of Botany, University of Kolkata)

3. Post Doctoral Fellow (Department of Biochemistry, Bose Institute Kolkata)

4. Principal Investigator (Ramakrishna Vivekananda Mission, Institute of Advanced Studies, Kolkata (W.B.) Development of Herbal Medicinal Garden.

Publications –Sarkar, M., Roy, SC. 2014. Rapid scale micropropagation of *Glycyrrhiza glabra* L. (Leguminosae) a valuable medicinal herb. International Journal of Scientific Research.

Sarkar, M. 2024. Biochemical Changes in Embryogenic and Nonembryonic Callus of *Glycyrrhiza glabra* L. during SomaticEmbryogenesis.Environment and Ecology.

DOI: <https://doi.org/10.60151/envec/AJXP2551>

Seminar and Symposia –

- Seminar cum workshop on Food security and Genetically Modified Crops sponsored By W. B. State Council of Science and Technology and NCSTS, DST, New Delhi.
- Workshop on Preservation methods along with the practical techniques in Botany. Organized by the Department of Botany, UGC- Centre for Advanced Study, University of Burdwan.
- Workshop on Molecular Systematics: beyond the flowering plants; Principles, methods and its applications- an analytical approach. Conducted by Department of Botany, Madras Christian College, Tambaram, Chennai.

Research Activities –

- Micropropagation of medicinal plants and study of bio-chemical and other changes during differentiation.
- Organogenetic studies involving the regeneration of plants.
- Encapsulation techniques for storage of somatic embryos.
- Application of biochemical methods (SDS-PAGE analysis and Isozyme analysis) during Differentiation.
- Application of analytical methods TLC, Column chromatography, HPLC, and IR to the characterization of secondary metabolites present in tissue-cultured plants.



Achievements –

- Qualified GATE (Indian Institute of Technology)
- Received UGC- Fellowship
- Received DBT Fellowship

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