

Dr. Manjusha Sarkar

Assistant Professor

Educational Qualification – M.Sc., M.Phil., PhD.

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

Teaching Experience – 8 years

Specialisation – Genetics and Molecular Biology

Area of Research - Plant Biotechnology

Area of Interest – Plant Tissue Culture

Contact Details

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Position Held:

1. JRF (Department of Botany, University of Kolkata)
2. SRF (Department of Botany, University of Kolkata)
3. Postdoctoral 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 –

1. Sarkar, M., Roy, SC. 2014. Rapid scale micropropagation of *Glycyrrhiza glabra* L. (Leguminosae), a valuable medicinal herb. International Journal of Scientific Research.
2. Sarkar, M. 2024. Biochemical Changes in Embryogenic and Nonembryonic Callus of *Glycyrrhiza glabra* L. during Somatic Embryogenesis. 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. Organised by the Department of Botany, UGC- Centre for Advanced Study, University of Burdwan.
- Workshop on Molecular Systematics: beyond the flowering plants; Principles, methods and their applications- an analytical approach. Conducted by the Department of Botany, Madras Christian College, Tambaram, Chennai.

- Research Activities –
- Micropropagation of medicinal plants and study of biochemical 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 characterisation of secondary metabolites present in tissue-cultured plants.

Achievements –

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