

GOVERNMENT GENERAL DEGREE COLLEGE, SINGUR

ACADEMIC PROFILE



DR. SHARMISTHA MAITY

Associate Professor in Botany (W.B.E.S)

M.Sc., Ph.D.

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- **Specialization:** Cytology, Genetics, Tissue Culture and Plant Breeding
- **Date of joining in this college:** 15.09.2021
- **Total teaching experience in college level:** 19 years
- **Area of research:** Biochemistry & Plant Biotechnology
- **Title of Ph.D. thesis (if any):** “TISSUE CULTURE AND BIOCHEMICAL STUDIES OF SOME SELECTED FUEL WOOD SPECIES”
- **Research guidance (if any):** Nil
- **Research projects [completed / ongoing] (if any):**
 1. Study of medicinal plant diversity with special emphasis on folklore medicinal plant of Nadia district and assessment of their antimicrobial activity (As a Co-investigator) vide letter No F. PSW- 085/10-11 (ERO) Dated 20.10.2010.
 2. Development of suitable *in vitro* regeneration technique of some medicinally important tree legumes, Reference No. - PSW- 069/11-12 (ERO) Dated 24.06.2013
- **List of publications:**

A Published papers in Journals:

 1. S. Maity, N. Banerjee, S Ray. The role of Plant growth regulators on direct and direct plant regeneration from various organs of *Leucaena leucocephala*. Acta Physiologia Plantarum vol 27, 473-480, 2005
 2. S. Maity, N.Banerjee, S Ray. Influence of plant organ on rapid clonal propagation of Albizzia lebbeck: A fast growing fuel wood species. Journal of Botanical Soc. Bengal vol 60(2):78-82, 2006.
 3. P.Banerjee, S. Maity, S.S.Maity and N.Banerjee. Influence of genotype on *in vitro* multiplication potential of *Arachis hypogaea* L. Acta Botanica Croatica 66(1) pp. 15-23, 2007.

4. P. Banerjee, **S. Maity**. High frequency somatic embryogenesis and plantlet Regeneration of *Bauhinia variegata*, a multipurpose Tree legume. Indian Journal of Fundamental and Applied Life Sciences Vol. 2 (2) April-June, pp. 87-95, **2012**.
5. **S.Maity**. Down's syndrome: a chromosomal disorder. Conscientia **2012**: vol. 1, No. 1.
6. **S. Maity**. Organogenesis and Somatic Embryogenesis of *Nyctanthes arbor-tristis*, an Important Medicinal Shrub. Manan, vol.1(1), 29-34, **2014**.
7. **Sharmistha Maity**. Bi-directional in vitro propagation of *Arachis hypogaea* L. Var. ICGS 44 through different explants. Indian Journal of Applied & Pure Biology **ISSN: 0970-2091. 2017**
8. **Sharmistha Maity**. In vitro regeneration of plantlets of *Albizia lebbeck* (L.) Benth. through direct shoot bud development from different explants on MS solid and liquid media. Indian Journal of Applied & Pure Biology **ISSN: 0970-2091. 2017**.
9. **Sharmistha Maity**. Regeneration of Plantlet through Somatic Embryogenesis in a Tikka Immune Variety of *Arachis hypogaea* L. Var. ICG 6284. Indian Journal of Applied & Pure Biology **ISSN: 0970-2091. 2017**.
10. **Sharmistha Maity**. In Vitro regeneration of a high yielding variety of *Arachis hypogaea* L. Var. ICG 11337 through different explants. Indian Journal of Applied & Pure Biology **ISSN: 0970-2091. 2017**.
11. **S, Maity, S, Chatterjee, S. K Sen**. Characterization of red pigment from *Monascus* in submerged culture. Journal of Applied Sciences Research, Vol.5 (12):, pp. 2102-2108, **2009**.
12. **S, Maity, S, Chatterjee, S. K Sen**. A water soluble, nonaromatic, nitrogenous compound from a hyper-red pigment producing mutant of *Monascus purpureus*. Dynamic Biochemistry, Process Biotechnology and Molecular Biology (**2011**).
13. **P.Banerjee, S. Maity**. Regeneration of Plantlet through somatic embryogenesis in a high yielding variety of *Arachis Hypogaea* L. var.ICG 11337. Manan, vol.1(1) 29-34,**2014**. ISSN-2348-3849.
14. **S. Maity**. Bioremediation :What, How and Why. MS Academic, Vol 3, 67-70,**2013**. ISSN-2229-6484.
15. **S. Maity**. Tri-directional *in vitro* multiplication on a single medium of *Leucaena leucocephala*, a medicinally important leguminous tree. Indian Journal of Plant Sciences, pp.11-18, 2014 Vol. 3 (1).
16. **S. Maity, N. Banerjee, S Ray**. Direct and indirect plant regeneration through in vitro cotyledonary node culture in *Albizzia lebbeck*(Linn) Benth. Perspectives in Cytology and Genetics vol.10,737-742, **2001**.
17. **S. Maity, P. Banerjee, N. Banerjee, S. Ray**. Plant regeneration through callus mediated organogenesis in *Albizzia lebbeck*. Perspectives in Cytology and Genetics vol.11, 201-204,**2004**.

18. P. Banerjee, S. Maity. In vitro propagation of *Arachis hypogaea* L var. AK 1224: direct and indirect plant regeneration. Plant Cell Biotechnology and Molecular Biology 11(1&2) Pp. 57-62, **2010**.

19. S. Maity. Cytochrome p450: A biotransformer. Conscientia (October): vol. 1, No. 2 pp. 39-42, **2011**.

➤ **Published papers in Seminars/Symposia/Conferences: Nil**

➤ **Published Books / Chapters in Books:**

1. Sharmistha Maity, Animesh Acharjee, Bidyut Saha.2022. Chapter 15- Application of biosurfactant as biocontrol agents against soil-borne and root-borne plant pathogens, Editor(s): Dr. Inamuddin, Charles Oluwaseun Adetunji, Applications of Biosurfactant in Agriculture, Academic Press, Pages 283-302, ISBN 9780128229217, <https://doi.org/10.1016/B978-0-12-822921-7.00015-5>

➤ **Participation in Seminars/Symposia/Conferences/Workshops: Nil**

➤ **Participation in OP/RC/FIP/FDP: Nil**

➤ **Membership of Learned Societies/ Editorial Boards, etc. (if any):**

1. Association of Microbiologists of India

➤ **Patents (if any): Nil**

➤ **Awards (if any):** Awarded with the best poster award in the 46th Annual Conference of Association of Microbiologists of India held at Osmania University, Hyderabad in the year 2005.

➤ **Other notable activities (if any): Nil**