

Dr. ARIJIT GHOSH

Assistant Professor

M. Sc (Botany); Ph. D. (Botany)

Overview:

I am an Assistant Professor in Botany of Triveni Devi Bhalotia College under Kazi Nazrual University and was trained in this field at Burdwan University and Botanical Survey of India, pursuing diverse topics including Plant Reproductive Biology and *In-vitro* culture i.e., Pollination Ecology, Seed Biology and Micropropagation. I enjoy teaching in a way that compels clear communication and that confronts students with the kinds of problems encountered in modern-day research settings. Outside of science, I enjoy distance running, cooking, singing and spending time with family & friends.

Date of appointment to the present job: 30th December, 2016.

Other Academic/ Administrative post: Coordinator in Department of Biochemistry since June, 2018.

Academic background:

- ❑ Post Doctoral Fellow (NPDF), 2016, Botanical Survey of India, West Bengal, India.
- ❑ Ph. D. in Botany, 2014, The University of Burdwan, West Bengal, India.
- ❑ M. Sc. in Botany (Special Paper – Plant Physiology and Biochemistry), 2007, The University of Burdwan, West Bengal, India.
- ❑ B. Sc. in Botany, 2005, Burdwan Raj College, The University of Burdwan, West Bengal, India.

Information about M Phil/Ph D etc.:

- ❑ **PhD Title:** Reproductive Biology and Micropropagation of the medicinally important plant *Clerodendrum indicum* (L.) O. Kuntze.

Area of present academic/ Research interest/Research Projects& Schemes and Collaborations:

- ❑ **Research interest:** Plant Reproductive Biology (Pollination Ecology and Seed Biology) and *In-vitro* culture.

Publications:

- ❑ **Ghosh, A.**, Pal, P. K. 2017. Pollination ecology of *Clerodendrum indicum* (Lamiaceae): first report of deceit pollination by anther-mimicking stigma in a bisexual flower. *Revista de biologia tropical*. 65(3):988. DOI: 10.15517/rbt.v65i3.29450. (Weblink: <https://www.researchgate.net/publication/320207374>)
- ❑ **Ghosh, A.**, Pal, P. K. 2015. Seedling phenology of *Clerodendrum indicum* exhibiting the unusual epigeal cryptocotylar type of germination. *Acta Botanica Gallica: Botany Letters*. 162 (3): 233-237. DOI: 10.1080/12538078.2015.1023218. (Weblink: <https://www.researchgate.net/publication/275225346>)
- ❑ Basu, A., **Ghosh, A.**, Pal, S., Basu, M., Karmakar, P., Mitra, B. and Pal, P. K. 2013. Pollination of the mahogany trees (*Swietenia mahagoni*) by an ovipositing thysanopteran insect (*Priesneriola*). *Bionotes* 15(3): 88-89. (Weblink: <https://www.researchgate.net/publication/280527009>)
- ❑ **Ghosh, A.**, Chatterjee, N. C. and Pal, P. K. 2012. Germination deterrence of *Abrus precatorius* L. seeds by the seed borne pathogen, *Sclerotium rolfsii*. *J. Mycopathol. Res.* 50(1): 115-116. (Weblink: <https://www.researchgate.net/publication/280573408>)
- ❑ **Ghosh, A.** and Pal, P. K. 2012. Biology of *Abrus precatorius* L. Seeds: Influence of H₂SO₄ and GA₃ on enhanced germination potential and optimization of relative humidity for safe storage. *Sci. & Cult.* 78(9-10): 463-465. (Weblink: <https://www.researchgate.net/publication/280527146>)
- ❑ **Ghosh, A.** and Pal, P. K. 2012. *In vitro* plantlet regeneration of *Clerodendrum indicum* through callus-mediated organogenesis. *J. Botan. Soc. Bengal*, 66(1): 77-80. (Weblink: <https://www.researchgate.net/publication/280573369>)

Seminars, Webinars and Conferences attended:

- ❑ **Ghosh, A.**, Ray, M. B., Bhattacharjee, A & Gupta, K. invigoration of the seeds of a low vigour medicinally important oil crop sunflower through treatment with IAA. Presentation at National Seminar on "*Medicinal plants: aspects and prospects*", Department of Botany, Burdwan University (Abstracts):66-67. 15-16 March, 2008.
- ❑ **Ghosh, A.**, Bhattacharjee, A & Pal, P. K. Germination enhancement and storage-moisture optimization of *Abrus precatorius* L. seeds. Presentation at "*Golden Jubilee Symposium on Contemporary Trends in Plant and Microbial Sciences*", Department of Botany, Burdwan University (Abstracts): 34-35. 19-20 March, 2010.
- ❑ **Ghosh, A.** and Pal, P. K. Studies in the seed biology of *Clerodendrum indicum* (Linn.) O. Kuntze. Presentation at National Seminar on "*Plant Diversity: Aspects and Prospects*", Department of Botany & Forestry, Vidyasagar University (Abstracts): 42. 9-10 March, 2011.
- ❑ **Ghosh, A.** and Pal, P. K. Micropropagation through organogenesis of *Clerodendrum indicum*, a threatened medicinal plant of Asiatic tropics. Presentation at National Symposium on "*Plant diversity and Resources: Evolution, analyses, Stress and Challenges*", Department of Botany, Calcutta University (Abstracts): 59. 20-22 December, 2011.
- ❑ **Ghosh, A.** and Pal, P. K. Dynamics of floral events of *Clerodendrum indicum*, a threatened medicinal plant of South-East Asian tropics. Presentation at National Conference on "*Utilization of Plant and Microbial Resources*", Department of Botany, Visva-Bharati, Santiniketan (Abstracts): 10. 17-18 March, 2012.
- ❑ **Ghosh, A.** and Pal, P. K. Deceit pollination in *Clerodendrum indicum* by means of pollen-mimicking stigmatic lobes of the dichogamous protandrous flowers. Presentation at International Symposium on "*Innovative prospects in angiosperm taxonomy*", Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra (Abstracts): 84-85. 28-30 October, 2012.
- ❑ Pal, P. K., Basu, M., Pal, S., **Ghosh, A.**, Basu, A. and Ahmed, Md. T. Significance of obligatorily entomophilous monophilic pollination in Mahogany trees with respect to seed production. Participation at "*21st West Bengal State Science and Technology Congress*" (Abstracts): 111. 20-21 February, 2014.
- ❑ **Ghosh, A.** and Pal, P. K. Floral visitors *vis-à-vis* pollinators and mechanism of pollen transfer in *Clerodendrum indicum*, a medicinally important plant of South East Asia. Presentation at National Symposium on "*Plant diversity: Structure, Function, Utilization and Conservation*", Department of Botany, Calcutta University (Abstracts): 56. 4-6 December, 2014.
- ❑ **Ghosh, A.** and Pal, P. K. Dichogamy, self-incompatibility and breeding system of *Clerodendrum indicum* (L.) O. Kuntze. Proc. National Seminar on "*Contemporary Progress in Plant Sciences*", Department of Botany, Burdwan University (Abstracts): 45-46. 20-21 March, 2015.
- ❑ **Ghosh, A.** and Pal, P. K. Discrimination of the illegitimate visitors by the otherwise monophilic flowers of *Clerodendrum indicum* (L.) O. Kuntze. Proc. UGC Sponsored National Seminar on "*Plant and Microbes in Human Welfare and Sustainability*", Department of Botany, Midnapore College, Paschim Midnapore, West Bengal. (Abstracts): 10. 24 February, 2017.

Awards:

- ❑ Awarded with National Post Doctoral Fellowship from SERB, Govt. of India on 2016.
 - ❑ Awarded with INSPIRE Fellowship from DST, Govt. of India on 2010.
 - ❑ Awarded with University Gold Medal for obtaining First position in M. Sc. Examination from The University of Burdwan on 2007.
 - ❑ Awarded with Certificate of Merit for obtaining Third position in B. Sc. Examination from The University of Burdwan on 2005.
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