

## PERSONAL PROFILE

NAME OF THE TEACHER: Dr. Moumita Basu

DEPARTMENT AND DESIGNATION: Assistant Professor

OFFICIAL ADDRESS: Department of Botany, M.U.C. Women's College, Burdwan

TOTAL PERIOD OF SERVICE: 16 years 6 months (Joined Durgapur Govt. College, W.B.E.S on 15.11.2007 and continued there till 21.01.2015; joined M.U.C. Women's College, Burdwan on 22.01.2015)

DATE OF BIRTH: 04.05.1979

FATHER'S NAME: Late Prof. Arun Sankar Basu

MOTHER'S NAME: Smt. Debi Basu

NATIONALITY: Indian

PRESENT RESIDENTIAL ADDRESS: University Teachers' Co-op. Housing Society, Krishnapur Road, P.O.- Rajbati, Burdwan – 713 104

PERMANENT ADDRESS: Do

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ACADEMIC QUALIFICATIONS:

Examinations passed	Board/University	Year of passing	Marks obtained
I.C.S.E.	Council for the Indian School Certificate Examinations, New Delhi	1995	91.83%
H.S.	West Bengal Council of Higher Secondary Education	1997	75.80%
B.Sc. (with Hons. in Botany)	Burdwan University	2001	66.38%
M.Sc. (Special Paper – Palaeobotany & Palynology)	Burdwan University	2003	72.42%
GATE	Indian Institute of Technology Delhi, New Delhi	2004	86.76 (Percentile score), All India Rank-630
NET	CSIR-UGC	2003	Junior Research Fellowship & Lectureship

Ph.D. (as per UGC Regulations 2009)	Burdwan University	2012	-
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#### PAPERS PUBLISHED

1. Pal, P. K. and **Basu, M.** (2007). A revision of *Equisetites rajmahalensis* Oldham & Morris. *Indian Journal of Biological Sciences*, **13**: 36-40.
2. **Basu, M.** and Pal, P. K. (2008). Callogenesis of *Abroma augusta* (L) L.f. (Sterculiaceae), a medicinally important plant of South-East Asian tropics. *J. Botan. Soc. Beng.*, **62(1)**: 19-22.
3. Pal, P. K., Arefin, M. B. and **Basu, M.** (2009). Addition to the knowledge of megafloral diversity from the Rajmahal Formation. *The Palaeobotanist*, **58**: 83-91.
4. **Basu, M.**, Mitra, B. and Pal, P. K. (2009). Agromyzid pollination in semi-trap lantern flowers of *Abroma augusta*. *Bionotes*, **11(2)**: 61.
5. **Basu, M.** and Pal, P. K. (2009). Floral biology vis-à-vis pollination ecology of *Abroma augusta* (L) L.f. *Bull. Bot. Surv. India*, **50(1-4)**: 57-66.
6. Pal, P. K. and **Basu, M.** (2011). The occurrence of *Pachypteris* in the Triassic of India. *Palaeobotanist*, **60** : 309-313.
7. **Basu, M.** and Pal, P. K. (2012). Anther dehiscence, pollen presentation, stigma receptivity and anthesis of *Abroma augusta*(L) L.f., a medicinally important plant of Asiatic tropics, in G. Maiti and S. K. Mukherjee (eds). *Multidisciplinary approaches in Angiosperm Systematics*, pp. 805-811. University of Kalyani, West Bengal, India.
8. **Basu, M.** and Pal, P. K. (2013). Occasional occurrence of staminodial anthers in *Abroma augusta* (L.) L.f. and their significance in reproductive biology of the plant. *J. Economic and Taxonomic Botany*, **37(2)**: 419-423.
9. 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.
10. **Basu, M.** and Pal, P. K. (2016). Post-pollination developments and seed ecology of *Abroma augusta* (L.) L.f. *Geophytology* **46(1)**: 89-97.
11. **Basu, M.** (2023). Obligate entomophily and probable self-pollination in *Abroma augustum* (L.) L.f., the Devil's Cotton. *Journal of Arts, Science and Teaching*. **5(1)**: 87-102.

#### PARTICIPATION IN INTERNATIONAL/ NATIONAL SYMPOSIA/CONFERENCES

1. Participated in the *National Seminar on Recent Advances in Plant Sciences*, held in the Department of Botany and Forestry. Vidyasagar University, on March, 30-31, 2004 and presented the paper entitled 'Plant diversity in Peninsular India during the Triassic time'.
2. Participated in the *National Conference on Plant and Microbial diversity: prospects and potentials*, held in the Department of Botany, Visva-Bharati on 17-19 December, 2005 and presented the paper entitled 'The occurrence of *Pachypteris* in the Triassic of India'.

3. Participated in the *National Seminar on medicinal plants: aspects and prospects* held in the Department of Botany, Burdwan University on 15-16 March, 2008 and presented the paper entitled 'Pollen viability and *in-vivo* germination study of pollen grains of *Abroma augusta* (L.) L.f. '.
4. Participated in the *International Seminar on Multidisciplinary approaches in Angiosperm Systematics*, held in the Department of Botany, Kalyani University, on 11-13 October, 2008 and presented the paper entitled 'Pollen presentation, stigma receptivity and anthesis of *Abroma augusta*'.
5. Participated in the *Golden Jubilee Symposium on Contemporary Trends in Plant and Microbial Sciences* held in the Department of Botany, Burdwan University on 19-20 March, 2010 and presented the paper entitled 'Vivipary of the seeds of *Abroma augusta* (L.) L.f.'.
6. Participated in the *National Conference on Utilization of Plant and Microbial Resources*, held in the Department of Botany, Visva-Bharati on 17-18 March, 2012 and presented the paper entitled 'Occasional occurrence of staminodial anthers in *Abroma augusta*(L.) L.f. and their significance in reproductive biology of the plant'.
7. Participated in the *National Seminar on Contemporary Progress in Plant Sciences* organized by CAS [UGC], Department of Botany, Burdwan University during 20-21 March, 2015 and presented the paper entitled 'Pollination syndrome of *Abroma augusta* (L.) L.f. with reference to its monophilic agromyzid pollination'.
8. Participated in the *National Seminar on Plant and Microbe: Diversity and Utilization* organized by the Department of Botany, Visva-Bharati during 19-20 March, 2016 and presented the paper entitled 'Seed ecology of the medicinally important plant *Abroma augusta* (L.) L.f.'.
9. Participated in the 19<sup>th</sup> National Conference of Indian Aerobiological Society on Airborne Bioaerosols: Impact on Human Health and Agriculture organized by the Bose Institute, Kolkata during 09-11 December, 2016 and presented the paper entitled 'Significance of monophilic pollination of the medicinally important shrub *Abroma augusta* (L.) L.f.'
10. Participated in the one-day State level Webinar on *Mosquito-borne Diseases, Their Control and Perspectives of Environmental Health*, organized by the Department of Zoology, M.U.C.Women's College, Burdwan on 04.09.2020.
11. Participated in the two-day National Seminar on *Biodiversity Conservation & Sustainable Development - With a sense of urgency to combat desertification and climate change*, organized by Sarat Centenary College, Dhaniakhali on 22-23 April, 2022 and presented a paper entitled "Pollination Biology in the perspective of Biodiversity Conservation".
12. Participated in the 5<sup>th</sup> Regional Science & Technology Congress, 2022-2023, organized jointly by the University of Burdwan and the Department of Science & Technology and Biotechnology, Govt. of West Bengal, on 6-7 January, 2023 and presented a paper entitled "Pollination system in the semi-trap lantern flowers of *Abroma augusta* (L.)L.f."
13. Participated in the two-day International Conference on *Opportunities and Challenges in Biological Science and Sports Science*, organized by the IQAC, Gushkara Mahavidyalaya on 5-6 March, 2023 and presented a paper entitled "Probable self-pollination in *Abroma augusta* (L.) L.f., the Devil's Cotton".
14. Participated in the one-day International Conference on *Life and Environment: Issues and Concern*, organized by the Department of Botany, Vivekananda Mahavidyalaya on 9 March, 2023 and presented a paper entitled "Protogyny in *Abroma augusta* (L.) L.f."
15. Participated in the one-day National Seminar on *A Glimpse of Plant Science* organized by the Department of Botany, Ramananda Centenary College, Purulia on 17 March, 2023.

16. Participated in the one-day International Seminar on *Bio-resources: Uses and Sustainable Management* organized by the Department of Botany, M.U.C. Women's College, in collaboration with the Anthropological Survey of India, Ministry of Culture (Govt. of India) on 9-10 February, 2024 and presented a paper entitled "Hydroponics for sustainable agriculture - a review".

**AREA OF RESEARCH:** Worked on the reproductive ecology of a few medicinally important plants.

**ATTENDANCE OF ORIENTATION PROGRAMME/REFRESHER COURSE/SHORT TERM COURSE:**

Attended the 93<sup>rd</sup> Orientation Programme held at the Academic Staff College of Burdwan University from 04-31 January, 2014.

Attended the Winter School in Environmental Science and Earth Sciences held at the UGC Human Resource Development Centre, Burdwan University from 30 January-19 February, 2018.

Attended the online Refresher Course on Sustainable Technologies for Skill Development and Research, organized by the UGC Human Resource Development Centre, Guru Ghasidas Viswavidyalaya, Bilaspur from 11-25 September, 2023.

Attended a Short Term Course on Mental Health: Need of the Era, organized by the MMTTC, Burdwan, from 2-8 November, 2023.