

FACULTY MEMBERS' ACADEMIC PROFILE

- 1. Name of the Faculty member:** Dr. Alokemoy Basu
- 2. Designation:** Assistant Professor
- 3. Qualification:** M.Sc, Ph.D
- 4. Specialization:** Cytogenetics, Molecular Biology and Plant Biotechnology
- 5. E-mail address:** aloke84@gmail.com
- 6. Date of Joining in W.B.E.S.:** 02.03.2015
- 7. Date of Joining in this College:** 17.12.2021
- 8. Previous Colleges Served:** A. B. N. Seal College
- 9. Total Teaching experience in College level:** More than 11 years
- 10. Research interests:** Cytogenetics, Plant Reproductive Biology
- 11. Title of thesis (Ph.D.) with year:** Reproductive Ecology of The Medicinally Important Plant *Barleria prionitis* L. 2019
- 12. Research guidance:**
- 13. Research Projects (Completed and ongoing):**
- 14. List of publications:**

**A) Published papers in Journals:**

1. Basu, A., Mukherjee, P., & Sanyal, T. (2025). Mutualistic pollination ecology of *Swietenia mahagoni* (L.) Jacq. and thrips: A reproductive interdependence. *World Journal of Environmental Biosciences*, 14(3), 43–48. <https://doi.org/10.51847/lwQp2qa7qV>
2. Basu, A. (2024). Reproductive ecology of plants: A key approach to effective conservation. In N. R. Madhu, T. Sanyal, B. Ganguly, & R. I. C. Hansell (Eds.), *A basic overview of environment and sustainable development* (Vol. 3, pp. 66–76). International Academic Publishing House. <https://doi.org/10.52756/boesd.2024.e03.004>
3. Basu, A. (2023). Cytotoxic effects of silver nanoparticles on plants: A potential threat to the environment and its management. In S. Roychoudhury, T. Sanyal, K. Sen, & S. Mukherjee Sanyal (Eds.), *A basic overview of environment and sustainable development* (Vol. 2, pp. 231–243). International Academic Publishing House. <https://doi.org/10.52756/boesd.2023.e02.015>
4. Basu, A. (2023). Pollination ecology: Floral visitors vis-à-vis pollinators of *Barleria prionitis* L. *International Journal of Advanced Research Trends in Science*, 2(1), 42–46. <https://doi.org/10.70035/ijarts.2023.2142-46>
5. Basu, A. (2023). Reproductive ecology of a medicinal plant *Barleria prionitis* L. *International Journal of Advanced Research Trends in Science*, 2(2), 3–9.
6. Basu, A. (2019). Delayed autogamy during corolla abscission of *Barleria prionitis*: An efficient adaptation to overcome the pollinator crisis. *Geophytology*, 49(1–2), 1–6.
7. Basu, A., & Pal, P. K. (2017). Seed ecology of the important medicinal shrub, *Barleria prionitis* L. *Geophytology*, 47(2), 131–136.

8. Basu, A., Ghosh, A., Pal, S., Basu, M., Karmakar, P., Mitra, B., & Pal, P. K. (2013). Pollination of the mahogany tree (*Swietenia mahagoni*) by an ovipositing thysanopteran insect (*Priesneriola*). *Bionotes*, 15(3), 88–89.
9. Basu, A., Roychowdhury, R., Bhattacharyya, S. S., & Tah, J. (2012). Estimation of major heavy metals (Fe, Cu, and Zn) in the fruit of *Cucumis sativus* L. *World Journal of Science and Technology*, 2(7), 1–3.

B) Conference Proceedings:

1. A. Basu (2025). Seedling Phenology: a Key for Understanding the Growth and 'Adulthood' of an Annual Plant. International Conference on Frontiers in Science: An Integrative Approach in Solving Global Challenges, Organized by Krishnagar Government College in association with IQAC Krishnagar Government College.
2. A. Basu (2018). Origin of Life: From Prokaryote to Eukaryote. Extension Lecture organized by Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata.
3. A. Basu (2016). Plant Reproductive Biology: History and Endeavor. UGC-CPE Assisted Inter-Disciplinary (Science) National Seminar on Frontiers in Science and Technology towards National Development. A. B. N. Seal College, Cooch Behar.
4. A. Basu (2016). Maya Medicine: Science of Herbs. UGC sponsored International Seminar on Contemporary Trends in Humanities and Social Sciences. A. B. N. Seal College, Cooch Behar.
5. P.K. Pal, M. Basu, S. Pal, A. Ghosh, A. Basu, and T. Ahmed (2014). Significance of obligatory entomophilous monophilic pollination in Mahogany trees with respect to seed production. 21st West Bengal State Science and Technology Congress. The University of Burdwan and Government of West Bengal. (Abstracts): p 111.
6. A. Basu, P.K. Pal. (2012) 'Delayed autogamy during corolla abscission of *Barleria prionitis*: an efficient adaptation to overcome the pollinator crisis' National Conference on 'Recent Developments in Plant and Earth Sciences' Palaeobotanical Society, Lucknow and Birbal Sahani Institute of Palaeobotany, Lucknow. (Abstracts): P. 30.
7. A. Basu, and P.K. Pal. (2012). Influence of atmospheric temperature on floral events of the medicinally important plant *Barleria prionitis* L. International Symposium on Innovative Prospects in Angiosperm Taxonomy. Department of Botany, S. G. B. Amaravati University. (Abstract): p 117.
- A. Basu, A. Ghosh, S. Pal, M. Basu, P. Karmakar, B. Mitra and P.K. Pal (2011) "Monophilic Pollination of Mahogany Trees by Ovipositing Thrips". National Symposium on Plant diversity and resources: its aspects and prospects. Botanical Society of Bengal, Kolkata and Department of Botany, Calcutta University. (Abstracts): p. 39.
8. A. Basu, and P.K. Pal. (2012). "Influence of atmospheric temperature on floral events of *Barleria prionitis* L". National Conference on Utilization of Plant and Microbial Resources. Department of Botany, Visva-Bharati, (Abstracts): p.3.
9. A. Basu, and P.K. Pal. (2011) "Flowering phenology, flower longevity, anther dehiscence, stigma receptivity and anthesis of *Barleria prionitis*". National Seminar on Plant diversity: aspects and prospects. Department of Botany and Forestry, Vidyasagar University. (Abstracts): p. 41.
10. A. Basu, T. Dalal, A. Bandyopadhyay and J. Tah. (2008) "Studies on genetic variability with estimates of biochemical parameters in Cucumber (*Cucumis sativus* L)". National Seminar on Medicinal plants: aspects and prospects. Department of Botany, Burdwan University. (Abstracts): p. 89.

15. Membership of Learned Societies/ Editorial Boards, etc.:

1. Life member of Botanical Society of Bengal

16. Patents:**17. Awards:**

1. Awarded with One of the best for the Poster presentation of a paper enthralled 'Delayed autogamy during corolla abscission of *Barleria prionitis*: an efficient adaptation to overcome the pollinator crisis' by the Palaeobotanical Society, Lucknow and Birbal Sahani Institute of Palaeobotany, Lucknow in the National Conference on 'Recent Developments in Plant and Earth Sciences'
2. Awarded with the best Presentation for the oral presentation of a paper enthralled 'Significance of obligatory entomophilous monophilic pollination in Mahogany trees with respect to seed production' by the University of Burdwan and Government of West Bengal in the 'West Bengal State Science and Technology Congress'

18. Other notable activities:**19. A) Participation in Seminars/Symposia/Conferences/Workshops:**

1. Attended a three-day workshop on LaTeX (29–31 August 2016), organized by the Department of Computer Science, Cooch Behar College, Cooch Behar, in collaboration with the Spoken Tutorial Project, IIT Bombay.
2. Participated in the UGC-CPE Assisted Interdisciplinary (Attended a Two-Day (14th – 15th July, 2021) Online National Workshop on Outcome-Based Education (OBE) organized by IQAC, A. B. N. Seal College, Cooch Behar, West Bengal.
3. Acted as Organizing Secretary in State Level Webinar on Ecosystem Restoration towards Sustainable Society held in A. B. N. Seal College, Cooch Behar, on 5th June 2021
4. Participated in the National Webinar on "Impact of COVID-19 upon the economy, polity, society and culture of Eastern and North-Eastern India" held in A. B. N. Seal College, Cooch Behar, on 29th August 2020.
5. Participated in the National Sseminar on Environmental issues: Current Scenario from the View Point of Scientific Studies held in A. B. N. Seal College, Cooch Behar, on 19th – 20th February 2019.
6. Science) National Seminar on "Frontiers in Science and Technology towards National Development", held at A. B. N. Seal College, Cooch Behar, on 10–11 April 2016.
7. Participated in the UGC-Sponsored International Seminar on "Contemporary Trends in Humanities and Social Sciences", held at A. B. N. Seal College, Cooch Behar, on 7–8 April 2016.
8. Participated in the 21st West Bengal State Science and Technology Congress, held at The University of Burdwan, on 20–21 February 2014.
9. Participated in the National Conference on "Recent Developments in Plant and Earth Sciences", held at the Birbal Sahni Institute of Palaeosciences, Lucknow, on 28–29 November 2013.
10. Participated in the International Symposium on "Innovative Prospects in Angiosperm Taxonomy", held in the Department of Botany, Sant Gadge Baba Amravati University, on 28–30 October 2012.
11. 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.
12. Participated in the National Symposium on "Plant Diversity and Resources", held in the Department of Botany, University of Calcutta, on 20–22 December 2011.

13. Participated in the UGC-Sponsored National Symposium on "Essence of Medicinal Plants: Their Conservation and Sustainable Exploitation", held at Vivekananda Mahavidyalaya, on 9 December 2011.
14. Participated in the National Seminar on "Plant Diversity: Aspects and Prospects", held in the Department of Botany and Forestry, Vidyasagar University, on 9–10 March 2011.
15. Participated in the UGC-Sponsored State-Level Seminar on "Biodiversity: Issues and Concerns", held in the Department of Botany, Guskara Mahavidyalaya, on 27 March 2010.
16. Participated in the Golden Jubilee Symposium on "Recent Trends in Contemporary Plant and Microbial Sciences", held in the Department of Botany, The University of Burdwan, on 19–20 March 2010.
17. Participated in the National Seminar on "Medicinal Plants: Aspects and Prospects", held in the Department of Botany, The University of Burdwan, on 15–16 March 2008.

B) Participation in OP/RC:

1. Participated in the 37th Orientation Programme organized by UGC-HRDC, The University of North Bengal from 20th February to 19th March 2019.
2. Participated in the Refresher Course on Nano Technology organized by UGC-HRDC, The University of Burdwan from 25th June to 8th July 2019.