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Assistant Professor  
Department of Botany  
Gyanpeeth Degree College  
Assam, India

## Educational Qualification

2014

**Jawahar Navodaya Vidyalaya, Adalbari, Baksa- HSLC**

2016

**Jawahar Navodaya Vidyalaya, Nalbari - HS**

2019

**Bajali College, Pathsala - B.Sc. (Botany)**

2021

**Gauhati University - M.Sc. (Botany)**

2021

**CSIR UGC NET (NTA) Life Science**

2023

**GATE (IIT Kanpur) Life Science**

## Research Publications

- **Bharali, P., Gogoi, P., & Bhattacharyya, N.** (2025). Differences in oven-drying temperatures change quality and phytochemicals of medicinally potential *Boesenbergia rotunda* (L.) Mansf. rhizomes. *International Journal of Ayurvedic Medicine*, 16(4),980-988. [ISSN: 0976-5921]. <https://doi.org/10.47552/ijam.v16i4.6138>. (Published on 31<sup>st</sup> December, 2025).
- **Bharali, P., & Bhattacharyya, N.** (2025). Variations in drying processes alter bioactive phytochemicals and antioxidant activities of pharmaceutically potential *Curcuma caesia* rhizomes. *Journal of Pharmaceutical*

- Innovation*,20:242. <https://doi.org/10.1007/s12247-025-10162-w>. [ISSN: 1939-8042]. (Published on 20<sup>th</sup> October, 2025).
- Nath, M., Sharma, R., **Bharali, P.** Devi, D., & Nath, N. (2024). Phytochemical, antioxidant and antidiabetic evaluation of *Portulaca oleracea* L. *Medicinal plants*,16(2), 311-321.
  - **Bharali, P.**, Sharma, R., Nath, M., Devi, D., & Nath, N. (2024). Qualitative and GC-MS analysis of medicinally potent aquatic herb *Pistia stratiotes* L., Assam, India. *International Journal of Ayurvedic Medicine*, 15(3), 749–756.
  - **Bharali, P.**, & Bhattacharyya, N. (2024). Abiotic stress response of medicinally potential *Curcuma* spp. In changing climate: Do we have enough clues? *Israel Journal of Plant Science*, 1(aop), 1-16.
  - **Bharali, P.**, Sharma, R., Nath, M., Devi, D., & Nath, N. (2024). Phytochemical, Antioxidant and Antidiabetic Activities of *Pistia stratiotes* L. Assam, India. *Indian Journal of Applied & Pure Biology*, 39(3), 1453-1461.
  - **Bharali, P.**, & Bhattacharyya, N. (2024, June 9). Different drying methods alter the quality parameters of ethnobotanically important *Curcuma caesia* Roxb. rhizomes. *Plant Science Today*, 11(Sp1). <https://doi.org/10.14719/pst.3635>
  - Devi, J., **Bharali, P.**, & Kalita, S. (2023). An ethno-medicinal survey of anthelmintic medicinal plants used by the local people of Sonitpur district, Assam. *Indian Journal of Applied & Pure Biology*, 38(3), 1330–1340.

## Chapter in Books

- Mali, N., **Bharali, P.**, Mishra, R., & Bhattacharyya, N. (2025). Vegetation Cover for Sustainable Urban Planning: The Multifaceted Dimension. In *Environment and Public Health: Insights Towards Theory, Evidences and Sustainable Solutions* (pp. 337-352). Cham: Springer Nature Switzerland.
- **Bharali, P.**, & Bhattacharyya, N. (2024). Traditional uses, phytochemistry and pharmacology of three medicinally potential *Curcuma* In: Dimri A.G. *et al.* (eds) *Futuristic Trends in Biotechnology*. IIP Series, Volume 3, Book 8, Part 1, Chapter 1. Iterative International Publishers (IIP), Selfypage Developers Pvt. Ltd. e-ISBN: 978-93-6252-707-3. <https://www.doi.org/10.58532/V3BJBT8P1CH1>.
- **Bharali, P.** Devi, J., & Kalita, S (2024). Review on *Catharanthus roseus*: Taxonomy, Ethnobotany, Phytochemistry, Pharmacology and used by Ethnic Communities of Northeast India. In: *Research trends in Multidisciplinary Research*. Published by Akinik Publication. Pp. 105-116, [ISBN: 978-93-6135-114-3]
- **Bharali, P.** & Niyogi, P (2024). Ethnobotanical investigation of wild edible fruits consumed by the local people of Bongaigaon district of Assam, India. In: P. Saikia (eds) *Resonance*. Published by Tinsukia College Publication. Pp. 412-419 [ISBN: 978-81-19322-77-0]

- **Bharali, P.,** Devi, J., & Bhattacharyya, N. (2023). An ethno-medicinal survey and documentation of antidiabetic medicinal plants used by the local community of Baksa District, Assam. In: P. Sarma (eds) Emerging trends in research in sciences. Published by Research Committee Nalbari College, Nalbari, Assam. Pp. 11-32. [ISBN: 978-93-91878-96-2] (Published on 12-08-2023).

### Paper Presented in International seminar

- **Bharali P. & Bhattacharyya, N. (2024).** Variation in drying methods alter pharmaceutically important secondary metabolites and antioxidant activity of *Curcuma caesia* Roxb. In the Assam Botany Congress (ABC)-03 & International conference on Biodiversity and climate change: challenges and opportunities for nature-based solutions held at Dibrugarh University from 11 to 13 November 2024.
- **Bharali P. & Bhattacharyya, N. (2024).** Effect of different drying methods on quality of *Curcuma caesia* Roxb. International Conference on Emerging Trends in Biochemistry (ICETB-2024) 11<sup>th</sup> -13<sup>th</sup> March, 2024, Nalbari College, Nalbari.
- **Bharali P. & Bhattacharyya, N. (2023).** Ethno-medicinal properties of Black cardamom (*Amomum subulatum* Roxb.): A Review. 2<sup>nd</sup> International Conference on Biodiversity: Exploration, Exploitation and Conservation for Sustainable Development (ICB-2023) 10<sup>th</sup> February, 2023 organised by: Department of Botany Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Behali, Assam, India.

### Paper Presented in National seminar

- **Bharali P. & Bhattacharyya, N. (2024).** Different drying processes alter phytochemicals and antioxidant activity of *Curcuma caesia* Roxb. National seminar on Biodiversity for Sustainable future with special focus on Plant Taxonomy and Annual Conference of East Himalayan Society for Spermatophyte Taxonomy (EHSST) 27<sup>th</sup> -28<sup>th</sup> September, 2024 Department of Botany, Gauhati University.

### Research Conclave

- **Bharali P. & Bhattacharyya, N. (2025).** Different drying methods influence on the quality parameters and FTIR analysis of *Curcuma caesia* rhizomes over longer storage duration before and after preservation in Research conclave on Plant Science (RCPS), held on 9<sup>th</sup> -10<sup>th</sup> October, 2025 at Gauhati University.

## **Area of Interest**

Ethnobotany, Medicinal plant, Phytochemistry, Antidiabetic