Curriculum Vitae

Personal details

Name: Dr. Glory Borah

Designation: Assistant Professor, Pub Kamrup College, Baihata Chariali, Assam

Date of Joining: 01/12/205

Address: Mukta Duwarah Path, Old Amlapatty, Golaghat, Assam, India

Date of birth: 25/10/1993

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Educational background:

COURSE	INSTITUTION	BOARD/ UNIVERSITY	DIVISION	Year of passing
Ph.D in Botany **Tittle: Earthworm Assisted Bacterial Remediation of Heavy Metals (HMs) from Crude Oil Contaminated Soil of Assam**	Gauhati University, Guwahati	Gauhati University, Guwahati	NA	2024
M.Phil in Botany **Tittle: A study on anatomy of herbaceous plants growing in and around the refinery effluent contaminated soil**	Gauhati University, Guwahati	Gauhati University, Guwahati	NA	2019
M Sc. in Botany	Gauhati University, Guwahati	Gauhati University	1ST	2017
B Sc. in Botany	Debraj Roy College, Golaghat	Dibrugarh University	1ST	2015
Higher secondary	Debraj Roy College, Golaghat	AHSEC	1ST	2012
HSLC	Sri Sathya Sai Vidya Vihar, Golaghat	CBSE	1ST	2010

Examination qualified: **NE-SET 2023**

Teaching experiences:

-Worked as a Guest Faculty in Debraj Roy College, Golaghat (2017)

- Worked as a Guest Faculty in NEHU, Shillong, Meghalaya (2023)

-Assistant Professor at Pub Kamrup College, Baihata Chariali, Kamrup (2025-Present)

Publications

1. Borah, G., & Deka, H. (2023). Vermiremediation of heavy metals (HMs)-contaminated agricultural land: synergistic changes in soil enzyme activities and earthworm's growth parameters. Environmental Science and Pollution Research, 30(54), 115266-115278. https://doi.org/10.1007/s11356-023-30500-0
2. Borah, G., & Deka, H. (2023). Synergistic Interactions in Enzyme Activities During Vermiremediation of Heavy Metals (HMs) Polluted Soil: Elucidating the Impact of Eudrilus eugeniae. Soil and Sediment Contamination: An International Journal, 1-18. https://doi.org/10.1080/15320383.2023.2273348
3. Borah, G., & Deka, H. (2023). Crude oil associated heavy metals (HMs) contamination in agricultural land: Understanding risk factors and changes in soil biological properties. Chemosphere, 310, 136890. https://doi.org/10.1016/j.chemosphere.2022.136890
4. Hazarika, M., Borah, G., Singha, W. J., & Deka, H. (2023). Metals stress on soil enzyme activities and herbs defense in the vicinity of high traffic roadways. Environmental Monitoring and Assessment, 195(12), 1546. https://doi.org/10.1007/s10661-023-12142-4
5. Singha, W. J., Borah, G., & Deka, H. (2022). Physico-chemical, biological and heavy metal status of spent oil-contaminated soils in the vicinity of garages in and around Guwahati city, Assam, India. Current Science (00113891), 123(10).
6. Das, D., Kalita, N., Langthasa, D., Faihriem, V., Borah, G., Chakravarty, P., & Deka, H. (2022). Eisenia fetida for vermiconversion of waste biomass of medicinal herbs: Status of nutrients and stability parameters. Bioresource Technology, 347, 126391. https://doi.org/10.1016/j.biortech.2021.126391
7. Borah, G., Nath, N., & Deka, H. (2021). Effects on anatomy of some abundantly growing herbs in the effluents contaminated soil of oil refinery. Environmental Science and Pollution Research, 28, 11549-11557. https://doi.org/10.1007/s11356-020-11407-6

Book chapters

1. Bacterial Remediation of Radioactive Waste: Current Understanding on Mechanistic Insights and Future Direction (2025) In book: Environmental Sustainability and Biotechnology: Opportunities and Challenges (Springer Nature)

2. Heavy metals (HMs) pollution in NE India: Current research and Future direction- in Bioremediation Research and applications (2021)

3. Ethno-Medicinal plants of Northeast India for diabetic treatment: A review -in Wild edible bioresources of North East India (2021)

4. Indigenous Healing Properties of Leucas aspera- Published in- STEAM, An interdisciplinary exploration for Bridging Science and Humanities (2022)

5. Ethnomedicinal Plants used for Various Stomach Ailments by the Rural Peoples of Golaghat, Assam, India. Published in Reflection (2021)

Awards and Achievements:

- Received the **"Best oral presentation award"** in International Conference sponsored by DBT and DST- SERB (Govt. of India) on Advances in Plants, Microbes and Agricultural Sciences on 2nd - 4th March, 2023, in Dept. Of Botany, University of North Bengal.

- Received the **"Best poster presentation award"** in 5th International Conference on Reuse and Recycling of Materials (Polymers, Wood, Paper, Leather, Glass, Metals, Ceramics, Semi-conductors, Water etc.) and their product (ICRM- 2020) on 11th -13th December 2020 Kottayam, Kerala, India

Presentations

1. Presented a research paper on the topic- "Isolation, screening and identification of heavy metals (HMs) tolerant bacteria from crude oil contaminated soil" in International Conference sponsored by DBT and DST- SERB (Govt. of India) on Advances in Plants, Microbes and Agricultural Sciences on 2nd -4th March, 2023, in Dept. Of Botany, University of North Bengal
2. Presented a research paper on the topic-"Efficacy of two earthworm species for remediation of heavy metals from crude oil contaminated soil" in International Seminar on "Advances in Entrepreneurial Botany: Entrepreneurship opportunities from plant Resources for Sustainable Development" on 27th-29th Oct, 2022 organized by Department of Botany, University of Science and Technology Meghalaya in collaboration with CSIR-National Botanical Research Institute Lucknow
3. Presented a research paper on the topic- "Crude oil associated heavy metals (HMs) contamination in agricultural land: Understanding risk factors and changes in soil properties" in a national Seminar on Biodiversity: conservation and Sustainable utilization for Atmanirbhar Bharat organized by Department of Botany, Jawarharlal Nehru College, Boko.
4. Presented a research paper on the topic- "Bioremediation of heavy metals in crude oil polluted ecosystems: A review" in International Conference on Plant Science 4th-6th Feb, 2019, organized by Dept of Botany, Gauhati University
5. Presented a research paper 'Physico-chemical and enzymatic analysis of effluent contaminated soil of Numaligarh Refinery, Assam, India' in National Seminar entitled "Science, Society and Sustainable development" at J N College, Boko in collaboration with Botanical society of Assam, 2019
6. Presented a research paper titled ' Medicinal Plants of Golaghat District for Stomach Ailment' in the seminar organized by Assam Science Society, Golaghat Branch,Assam 2018, sponsored by DST, govt. of Assam
7. Presented a research paper titled ' Effect of Jagiroad, paper mill lime sludge on physico chemical properties of soil' in the National seminar organized by Botanical Society of Assam (BSA), 2018
8. Presented a research paper titled 'Wild edible fruit plants of Golaghat District' in the National Seminar ' Under plant resources of North-east India' organized by Institutional Biotech Hub, Assam University- Diphu Campus 2018
9. Presented a poster titled 'Uses of Alpinia allughas in Indigenous Mishing Community' in U.G.C sponsored National seminar in 2018 on Natural resources for drug discovery and development organized by Department of Pharmaceutical sciences, Dibrugarh University

10. Presented a research paper titled ‘Traditionally used herbs in the preparation of Rice beer by Karbi Tribe’ in U.G.C sponsored National seminar in 2017 on Indigenous Food of Different communities of North-East India organized by Department of Home Science, Digboi Mahila Mahavidyalaya, Digboi
11. Presented a research paper titled‘ Physicochemical variation of rhizosphere soil of some selected herb species growing in garage oil contaminated place’ in U.G.C sponsored National seminar in 2017 on Recent Trends in Environment Responsive Chemical Processes
12. Presented a poster titled ‘ Anatomical variation in some selected plant species growing in and around the garage oil contaminated soil’in Indian Institute of Technology, Guwahati (IITG) in 2017 sponsored by RAER