

CURRICULUM VITAE

DR. ANUSHREE BARUAH

MSc (Botany), PhD (Environmental Sciences)

Assistant Professor

Dept. Of Botany,

Royal Global University, Guwahati

Life Member: Indian Lichenological Society

Life Member: Botanical Society of Assam

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Career Objective

To obtain a position that will enable me to use exceptional interpersonal, communication, technical and teaching skills in biological sciences with emphasis to flora, agriculture, and climate of the region.

Academic Qualifications

Ph.D., (Environmental Science), Tezpur Central University, Tezpur, Assam (2017)

M.Sc., (Botany), Cotton College, Gauhati University, Assam (2007), 1stclass (68.6%)

B.Sc., (Botany Honors'), D.C.B. Girls College, Dibrugarh University, (2005), 1stclass (63.5%)

AISSCE, (Science), Kendriya Vidyalaya, AFS, Jorhat, CBSE, (2002), 1stdivision (68.4%)

AISSE, Kendriya Vidyalaya, AFS, Jorhat, CBSE, (2000), 1stdivision (71.6%)

Professional and Research Experience

Lead analyst & Scientific Consultant, Eastern Envo Protect, Guwahati, February 2018 - July 2018

Head – QC, Alliance India Pvt Ltd., A Franchisee Partner of Hindustan Unilever Ltd., Guwahati, March 2017 – August 2017

Lecturer (Biology), Pragati Study Centre, Golaghat, March 2016 – December 2017

Research Scholar (Environmental Science), Tezpur Central University, January 2010 - February 2016

Executive- QC (Microbiology), S.C. Johnson Products Pvt. Ltd., December 2007 - October 2009

Master's project supervised: 23 passed out; 6 continuing

Bachelor's project supervised: 03 passed out.

PhD supervised (continuing): 03

Research Interest

Environmental pollution and remediation, Greenhouse gas emission and mitigation from Agriculture Sector and Carbon Sequestration of terrestrial ecosystem; plant nutrition and soil health management.

Awards/ Recognition

Institutional fellowship for Ph. D research

Internal auditor of **Integrated management system** of **ISO 9001:2008, ISO 14001:2004**, Certified by PMG consultants, Gurgaon, India, 2009

Quality control microbiologist, Certified by **FDA**, Guwahati, Assam, 2008

Implant Training

Internal auditor course on **Integrated management system** of **ISO 9001:2008, ISO 14001-2004** held at S.C. Johnson Products Pvt. Ltd. Guwahati delivered by PMG consultants, Gurgaon, India.

Training on **Computer-Based Statistical Programme (SPSS)** held at NECRD, IGNOU, Guwahati.

National workshop on **Climate change** held at Dept. of Environmental Science, Tezpur University.

Short – term training course on **Cheminformatics and computer aided drug designing** held at bioinformatics infrastructure Facility, Biotechnology, CSIR-NEIST, Jorhat, Assam.

National orientation workshop in **Micro-organisms: let us observe and learn** held at department of Botany, Cotton College, Guwahati, Assam.

Workshop on **Bioinformatics and its prospects** held at Department of Botany, Gauhati University, Assam.

Research projects:

Doctoral research

Title: Mitigation of Nitrous oxide emission from Rice-Wheat ecosystem of Assam with reference to soil management

Supervisor: Prof. Kushal Kumar Baruah, Dept. of Environmental Science, Tezpur Central University

Brief details:

- ✓ Estimation of nitrous oxide (N₂O) emission from rice-wheat ecosystem.
- ✓ Reduction of N₂O emission in rice and wheat cropping system in Assam through application of readily available organic waste of the farmers having different C-N ratios.
- ✓ Affect of organic amendments on soil qualities and crop productivity.
- ✓ To regulate the microbial production potential of N₂O in the soil by the use of organic amendment and use of biological inhibitors may affect N₂O emission.
- ✓ Contributing to national budget for N₂O emission from India.

Seminars/ Conferences participated and papers presented:

- International Conference on **Multidisciplinary Approaches in Lichenology**, held at CSIR-NBRI, Lucknow, 28 - 30 September 2022
- International conference on “**Recent Trend and Practices in Science, Technology, Management and Humanities for Sustainable Rural Development (STMH - 2019)**” held at University of Science and Technology, Meghalaya, September 2019.
- National conference on “**Recent advancements in Environmental Research**” held at Centre for the Environment, IIT, Guwahati, Assam, June 2016
- **4th International Rice Congress** held at Bangkok, Thailand organized by IRRI, October 2014
- National Seminar on “**Climate change and sustainable development**” held at Dept. of Environmental Science, Tezpur University, Tezpur, Assam, April , 2010
- UGC sponsored National seminar on “**Management and utilization of Resources for Sustainable Development and prospects of Eco-friendly Industrialization in N.E. India**” held at Department of Geography, Tezpur College, Tezpur, Assam, January 2011.
- UGC sponsored National seminar on “**Challenges to mitigation of global warming**” held at Nazira College, Sivasagar, Assam, October 2008.

Publications:

Book Chapter:

Baruah A. and Deb M. (2022). Microbial community structure and climate change: Impact of agricultural management practices in mountainous landscapes. In **Understanding Soils Of Mountainous Landscapes: Sustainable Use Of Soil Ecosystem Services And Management**. Edtrs. Bhadouria R., et al., Elsevier Pub. P 151 – 159; ISBN 978-0-323-95925-4

Baruah, K.K., Borah L. and **Baruah A.** (2012). An overview of mitigation option for greenhouse gas emissions from rice based agro-ecosystems in the northeastern region. In **Land management in marginal mountain**

Regions: L Adaptation and vulnerability to global change. Edtrs. Saxena K.G. et al., Bishen Singh Mahendra Pal Singh Pub. (New Delhi) p 245-263; ISBN 978-81-211-0836-2

Journal Publication (International):

Baruah, A., Baruah, K. K., and Bhattacharyya, P. (2016) Comparative Effectiveness of Organic Substitution in Fertilizer Schedule: Impacts on Nitrous Oxide Emission, Photosynthesis, and Crop Productivity in a Tropical Summer Rice Paddy. **Water Air Soil Pollution**, 227:410, DOI 10.1007/s11270-016-3111-9.

Baruah, A. Baruah, K. K., Gorh, D., and Gupta, P. K. (2016) Effect of Organic Residues with Varied Carbon-Nitrogen Ratios on Grain Yield, Soil Health and Nitrous Oxide Emission from a Rice Agroecosystem, **Communications in Soil Science and Plant Analysis**, DOI: 10.1080/00103624.2016.1178764

Baruah A., Bordoloi N., and Baruah K. K. (2016) Effect of organic amendments with varied C-N ratios on grain productivity and nitrous oxide (N₂O) emission from wheat grown in alluvial soil. **Australian Journal of Crop Science**, 10(4):460-469

Baruah, A. and Baruah, K.K. (2015) Organic Manures and Crop Residues as Fertilizer Substitutes: Impact on Nitrous Oxide Emission, Plant Growth and Grain Yield in Pre-Monsoon Rice Cropping System. **Journal of Environmental Protection**, 6, 755-770. <http://dx.doi.org/10.4236/jep.2015.67069>

Conference Proceedings (National/International):

Anushree Baruah, Sabnam Sultana, Sneha Mudoj and Kaberi Bordoloi (2022). Assessment of bio-active molecules and antimicrobial activities in lichens species of Golaghat District of Assam, India. ILS – 2022, Lucknow

Baruah A. and Baruah K. K. (2019) Biological mitigation of N₂O emission through application of plant-based nitrification inhibitors in wheat field. STMH – 2019, USTM - Meghalaya

Baruah A. and Baruah K. K. (2016) Influence of organic residues with varied C:N as amendments on Nitrous oxide emission and grain productivity in pre-monsoon rice ecosystem of Assam”. RAER 2016, IIT – Guwahati, Assam.

Baruah A., Gorh D. and Baruah K. K. (2014) Effect of organic manures with varied C/N ratios on nitrous oxide emission from winter rice (*Oryza sativa*). 4th International Rice Congress (IRC-2014) at Bangkok, Thailand.

Baruah, A., Bordoloi, N., and Baruah K. K (2013). “Organic management of soil with C: N for mitigation of Nitrous oxide from wheat agriculture”. Indian Science Congress.

Baruah K. K., Borah L., and **Baruah A.**, (2012). “Management of plant genotypes and soil C-N ratio as biological mitigation option for nitrous oxide emission from wheat (*Triticum aestivum*) agriculture” **IGAC, Beijing, China.**

Practical Experience in Instrument handling

Expertise in Gas chromatograph, TOC analyzer and Automated soil CO₂ flux system.

Operation and handling of Ion Chromatograph, Atomic absorption Spectrophotometer, Photosynthesis system, Leaf area Meter, Gel electrophoresis, Quantum photometer, Ultra Centrifugation.

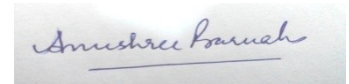
References:

Dr. Kushal Kumar Baruah, Former Professor, Dept. of Environmental Science, Tezpur (Central) University, Tezpur, Assam. Tel: +91-9365120550

Dr. Binoy Kr. Saikia, Scientist& Head, Coal Chemistry Division, CSIR-NEIST, Jorhat, Assam. Tel: +91-9435058087

I declare that the information above is true to the best of my knowledge.

Place: Guwahati

A rectangular box containing a handwritten signature in blue ink that reads "Anushree Baruah".

AnushreeBaruah
