

## Curriculum - Vitae

### **Dr. Nijara Baruah, MSc, PhD**

Assistant Professor  
Department of Botany  
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### **Personal Particulars:**

Date of Birth: 30th October, 1992  
Nationality: Indian  
Marital Status: Single



### **Academic Qualification:**

<u>Year</u>	<u>Qualifications</u>
2016-2022	<b>PhD, Dept. of Environmental Science</b> , Plant Physiology and Biochemistry Laboratory, Tezpur University, Napaam-784028 <b>Thesis title:</b> Bioavailability of heavy metals in acidic sandy loam soils of Assam: Influence of soil amendments <b>Supervisor:</b> Dr. Nirmali Gogoi, Dept. of Environmental Science, Tezpur University
2014-2016	<b>M.Sc. in Botany</b> , Specialization in Plant Physiology and Biochemistry, Cotton College State University, Pan Bazar, Guwahati, Assam, Pin-781001
2011-2014	<b>B.Sc. in Botany</b> , North Lakhimpur College, Khelmati, Lakhimpur, Assam, Pin- 787031
2010-2008	<b>Higher Secondary (HS)</b> , Brahmaputra Valley Academy, North Lakhimpur, Assam, Pin-787031
2008	<b>High School Leaving Certificate (HSLC)</b> , Tulshibari Adarsha High School, Gogamukh, Pin-787034

<u>Year</u>	<u>Other Qualifications</u>
2017	Qualified National Eligibility Test (NET) conducted by ASRB ( <i>Agricultural Scientists Recruitment Board</i> ) on 21 <sup>st</sup> May, 2017 in the Discipline of Plant Physiology for eligibility of Lectureship/Assistant Professorship.
2018	Qualified National Eligibility Test (NET) conducted by UGC (University Grants Commission) on 8 <sup>th</sup> July, 2018 in the discipline of Environmental Science for eligibility of Lectureship/Assistant Professorship

### **Research Interest:**

- Plant physiology and biochemistry
- Soil nutrient dynamics
- Stress physiology of plants
- Oxidative stress
- Abiotic stress tolerance
- Heavy metal stress,
- Remediation of heavy metal contaminated soil

- Soil chemistry
- Environmental pollution
- Grain quality of rice

### **Google Scholar Citation as of August 2023**

Citations: 82, h-index: 3

### **Publications**

#### **Research papers**

Baruah, N., Mondal, S. C., Farooq, M., & Gogoi, N. (2019). Influence of Heavy Metals on Seed Germination and Seedling Growth of Wheat, Pea, and Tomato. *Water, Air, & Soil Pollution*, 230(12), 273. (Impact factor: 2.984)

Baruah, N., Gogoi, N., & Farooq, M. (2020). Influence of biochar and organic soil amendments on bioavailability and immobilization of copper and lead to common cocklebur in acidic sandy loam soil. *Journal of Environmental Chemical Engineering*, 104480. (Impact factor: 7.968)

Boro, R. M., Baruah, N., & Gogoi, N. (2021). Impact of Biochar and Lime on Phytoavailability of Pb and Cd in a Contaminated Soil. *Tropical Agricultural Research*, 32(2), 125-134. (Impact factor: 0.127)

Baruah, N., & Gogoi, N. (2023). Contrasting impact of soil amendments on bioavailability, mobility and speciation of zinc in an acidic sandy loam soil. *South African Journal of Botany*, 154, 309-318. (Impact factor: 3.65)

#### **Book Chapters**

Borah, P., Baruah, N., Gogoi, L., Borkotoki, B., Gogoi, N., & Kataki, R. (2020). Biochar: A New Environmental Paradigm in Management of Agricultural Soils and Mitigation of GHG Emission. In *Biochar Applications in Agriculture and Environment Management* (pp. 223-258). Springer, Cham.

### **Workshop, Seminars, Conferences and Conclave attended and contributed**

Participated in DBT sponsored workshop on “Plant Tissue Culture and Micropropagation” held on 31<sup>st</sup> August and 1<sup>st</sup> September 2012 at North Lakhimpur College organized by Department of Botany, North Lakhimpur College, Assam.

Participated in the Omeo Kumar Das Institute of Social Change and Development sponsored seminar on “Flood Adaptation and Post Flood Management in Lakhimpur and Dhemaji Districts of Assam”, held on 14<sup>th</sup> and 15<sup>th</sup> March 2014 at North Lakhimpur College organized by Department of Geography North Lakhimpur College (Autonomous), Assam.

Participated in “Science Exhibition” in Science Fair 2015, held during February 28<sup>th</sup>-March 1<sup>st</sup> at IASST, Guwahati organized by Cotton College State University and IASST, Guwahati.

Participated in a the 3-days Workshop on “Hands on training on techniques on molecular biology & bioinformatics for postgraduate students” from April 28<sup>th</sup> to 30<sup>th</sup> 2016, organized by DBT sponsored Institutional Biotech Hubs, Cotton College and department of Chemistry, Kaziranga University, Assam.

Presented a poster entitled “Effect of Heavy Metals on Germination of some selected crops” in National seminar on Climate Change and Society, Tezpur University in 2017.

Participated in “Young Ecologist Talk and Interact (YETI-2017), held on 4<sup>th</sup> January to 7<sup>th</sup> January, 2017 at Tezpur University, Assam.

Presented a poster entitled “Seedling growth and accumulation of metal in crops grown under metal contaminated soil” in International Conference on Climate change, Biodiversity and Sustainable Agriculture (ICCBSA-2018) organized by Assam Agricultural University, Jorhat & Prof. Srivastava Foundation for Science, Lucknow, Uttar Pradesh.

Participated in the “Industry Academia Conclave” held on 20<sup>th</sup> January, 2019, organized by the Centre for University-Industry Interface (CUII), Tezpur University, Assam.

Presented a paper entitled “Bioavailability of Lead under *Phaseolus vulgaris* Cultivation: Role of Soil Amendments” in National Seminar on “Recent Trends in Ecological Research (RTER-2019) organized by Department of Ecology and Environmental Sciences and Centre for Biodiversity and Natural Resource Conservation, Assam University, Silchar.

Presented a paper entitled “Application of water hyacinth biochar for remediation of metal contaminated soil” in National Symposium on Sustainable Waste Management (SWM 2019) on 3<sup>rd</sup> August 2019 organized by Department of Energy, Tezpur University, Sonitpur, Assam.

Presented a paper entitled “Impact of biochar and lime on phytoavailability of Pb and Cd in a contaminated soil” in 32<sup>nd</sup> ANNUAL CONGRESS – 2020 on 19<sup>th</sup> November 2020 organized by Postgraduate Institute of Agriculture, University of Peradeniya, Old Galaha Road, Peradeniya, 20400, Sri Lanka.

Participated in Capacity Building Programme on “Tools and Techniques for Conservation of Biodiversity” held during 21<sup>st</sup> November to 27<sup>th</sup> November 2022, organized by DST’s Centre of Excellence (CoE), Department of Environmental Science, Tezpur University, Assam.

Participated in 5- Day Training Programme on “Climate Impact Modelling Techniques” held during 19<sup>th</sup> December to 23<sup>rd</sup> December 2022, organized by DST’s Centre of Excellence (CoE), Department of Environmental Science, Tezpur University, Assam.

Participated in One Day National Seminar on “Advances in Environmental Science” held on 10<sup>th</sup> March, 2023, organized by Department of Environmental Science, Tezpur University in association with Tezpur University Students’ Science Council (TUSSC), Tezpur University, Assam.

Participated in “National Workshop on Climate Action and SDGs (CAS-2023)” held on 21<sup>st</sup> March, 2023, organized by Department of Environmental Science, Tezpur University, Assam.

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## References

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Dr. Mina Ram Nath  
Retired Associate Professor  
Department of Botany  
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