



Dr. Namita Das Saha
M.Sc., Ph.D.(Environmental Sciences)

Sr. Scientist

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**Employment
Record**

- Assistant Professor, Central University of Bihar, Patna: 01/09/2011 – 24/12/2013
- Scientist, ICAR – IARI, New Delhi: 01/01/2014 – 31/08/2020
- Sr. Scientist, ICAR – IARI, New Delhi: 01/09/2020 – 16/04/2022
- Sr. Scientist, ICAR – CTTRI-RS, Dinhata: 17/04/2022 – till date

Area of Interest

- Environmental Microbiology
- PGPR based biotic and abiotic stress alleviation in crops
- Microbial inoculants based improvement in Turmeric, Chilli and other crops
- Developing microbial mitigation technique for mitigating GHG emission from Agricultural soil
- Impact analysis of anthropogenic stressors like agricultural management practices like organic farming, elevated CO₂, temperatures, tropospheric Ozone (O₃) on soil ecosystems with an emphasis on soil microbiota, different extracellular enzymes and related ecosystem functions like nutrient mineralization processes and dynamics
- Microbial quorum sensing mediated plant pathogenesis in the context of climate change in vegetable crops
- Microplastics contaminations in soil and consequent effects on agriculture and vice versa

Publications

1. **Saha, Namita Das.,** Chaudhary, A. K. Singh and Bhowmik, A. 2021. Evaluation of Bt cotton effects on belowground microbial community structure and function in tropical western India. *International Journal of Environmental Science and Technology* DOI: 10.1007/s13762-021-03543-4.
2. **Saha, Namita Das.,** Chaudhary, A., Singh, S.D., Singh, Singh, D., Walia, Suresh and Das, T.K. 2015. Plant Pathogenic Microbial Communication Affected by elevated temperature in *Pectobacterium carotovorum* subsp. *carotovorm*. *Current Microbiology* 71:585-593.
3. Saha, Partha., Ghoshal, Chandrika., **Saha, Namita Das.,** Aakriti Verma, Srivastava, Mohita., Pritam Kalia and B.S. Tomar 2021. Marker assisted pyramiding of downy mildew resistant gene Ppa3 and black rot resistant gene Xca1bo in popular early cauliflower variety Pusa Meghna. *Frontier in Plant Science*. [https://doi: 10.3389/fpls.2021.603600](https://doi.org/10.3389/fpls.2021.603600)
4. Trivedi, Ankita., Bhattacharyya, R., Ghosh, Abhijit., **Saha, Namita Das.,** et al. 2021. 60 years of fertilization and liming impacts on soil organic carbon stabilization in a sub-tropical Alfisol. *Environmental*

Science and Pollution Research DOI: <https://doi.org/10.1007/s11356-021-14019-w>

5. **Das, N** and Chaudhary, A. 2014. Effect of elevated temperature and CO₂ on Quorum sensing mediated virulence in soft rot causing *Pectobacterium carotovorum* pv. *carotovorum*. *Indian Journal of Horticulture* 71:227-231
6. Mahmoud, A., Singh, S.D. Muralikrishna, K.S., Pathak, H. and **Saha, N.D.** 2016. Soil microbial responses as influenced by *Jatropha* plantation under rainfed condition in North-West India. *Agroforestry Systems*. DOI: 10.1007/s10457-016-0010-4.
7. Maity, Partha Pratim., Chakrabarty, Bidisha., Purakayastha, T J., Bhatia, Arti., **Das Saha, Namita.**, Jatav, Raghuveer., Sharma, Abhilasha., Bhowmik, Arpan., Kumar, Vinod and Chakrabarty, Debasish 2020. Do elevated CO₂ and temperature affect organic nitrogen fractions and enzyme activities in soil under rice crop? *Soil Research* (Accepted)
8. Nandi, LL., Saha, P., Sarika Jaiswal., Lyngdoh, Y.A., Behera, T.K., Pan, R.S., Munshi, A.D., **Saha, N.D.**, Hossain, F., Srivastava, M. and Tomar, BS. 2020. Bioactive compounds, antioxidant activity and elements content variation in indigenous and exotic *Solanum* sp. and their suitability in recommended daily diet. *Scientia Horticulturae* 287 110232. <https://doi.org/10.1016/j.scienta.2021.110232>
9. Saha, P., Ghoshal, C., Ray, S., **Saha, N.D.**, Srivastava, M., Kalia, P. and Tomar, B.S. 2020. Genetic analysis of downy mildew resistance and identification of molecular markers linked to resistance gene Ppa207 on chromosome 2 in cauliflower. *Euphytica* 216:183. <https://doi.org/10.1007/s10681-020-02696-6>
10. Vanlalneihi, B., Saha, P., Kalia, P., Jaiswal, S., Kundu, A., **Saha, N.D.**, Singh, S., Singh, N. 2020. Chemometric approach based characterization and selection of mid-early cauliflower for bioactive compounds and antioxidant Activity. *Journal of Food Science and Technology*. 57(1):293-300. <https://doi.org/10.1007/s13197-019-04060-6>
11. Vanlalneihi, B., Saha, P., Kalia, P., Singh, S. **Saha, N.D.**, Kundu, A., Singh, N. and Bhowmik, A 2020. Genetic and principal component analysis for agro-morphological traits, bioactive compounds, antioxidant activity variation in breeding lines of early Indian cauliflower and their suitability for Breeding. *The Journal of Horticultural Science and Biotechnology*. 95 (1): 93-105. <https://doi.org/10.1080/14620316.2019.1627912>

Awards/Honors

Awarded **SERB Indo-US Post Doctoral Fellowship** by IUSSTF (self declined) in 2016

Recipient of **Young Achiever Award** by SADHANA, HP, 2020

Recipient of **Environmentalist of the year** by National Environmental Science Academy (NESA), New Delhi by 2020

Recipient of **best oral presentation** by SCSi, New Delhi in 2020.

Finalist in **National “e-Poster Olympiad** on ‘Soils, Biomes and Resilience to Climate Change’ by Soil Conservation Society of India (SCSI) in 2020
Recipient of **Young Environmental Scientist Award** from Society for Horticultural Research and Development, SD-70 Shastri Nagar, Gaziabad 201002 (U.P.), India
Recipient of **UGC-Junior Research Fellowship** in 2007
Recipient of **ICAR-Junior Research Fellowship** in 2005
NET in Environmental Science by UGC in 2007
NET in Environmental Science by ICAR in 2008
Editorial Board member of “Frontiers in Environmental Microbiology”
Academic editor of “International Journal of Environment and climate change”