

Brief Profile

Name: Dr. Anjan Hazra

Designation: Assistant Professor

Department: Botany

Email: anjanhazrabort@gmail.com

Highest Qualification (Year and Name of the University or Institute if applicable): Ph.D.
(2019, Indian Statistical Institute Kolkata and University of Kalyani)

Teaching Experience: One Year

Subjects Taught: Genetics, Molecular Biology, Ecology and Evolution

Vidwan id: 317170

Scopus/Orcid/any other id:

1. **Scopus Author ID:** 56195267400
2. **ORCID iD:** 0000-0003-1469-3277
3. **Web of Science - Researcher ID:** AAM-3101-2021

Research Experience: Eight Years

Research Interest: Genetic diversity, phylogenetics and functional genomics of plant

Awards or Recognitions received (Achievements):

1. National Post-Doctoral Fellowship 2021 by Science and Engineering Research Board, Department of Science and Technology, Govt. of India
2. Young Scientist Award at 9th International Congress of Environmental Research 2018, Gwalior, India
3. First prize in Oral Presentation (Biology) at 5th India Biodiversity Meet 2018
4. International Young Scientist Award for best oral presentation at 6th International Science Congress 2016, Pune, India
5. Best Paper Presentation Award (Oral-Biology Section) at 4th India Biodiversity Meet 2016
6. Biotech-RISE fellowship for Research Internship, Govt. of West Bengal (2015)
7. West Bengal Govt. Merit cum Means Scholarship for Higher Secondary (2008-10) and Post Graduate Studies (2013-15)

Member of Professional Bodies:

1. Life member of Indian Science Congress Association, Govt. of India
2. General body member of Archana Sharma Foundation of Calcutta

List of Selected Publications:

1. **Hazra A**, Ghosh S, Naskar S, Rahaman P, Roy C, Kundu A, Chaudhuri RK, Chakraborti D. (2023) Global transcriptome analysis reveals fungal disease responsive core gene regulatory landscape in tea. *Scientific Reports*, 13(1), 17186. [IF: 4.6] <https://doi.org/10.1038/s41598-023-44163-x>
2. Laskar P, **Hazra A**, Pal A, Kundu A (2023) Deciphering the role of alternative splicing as modulators of defense response in the MYMIV- *Vigna mungo* pathosystem. *Physiologia Plantarum*, e13922:1-15 [IF: 6.4] <https://doi.org/10.1111/ppl.13922>
3. **Hazra A**, Pal A, Kundu A (2023) Alternative splicing shapes the transcriptome complexity in blackgram [*Vigna mungo* (L.) Hepper]. *Functional & Integrative Genomics*, 23:144 [IF: 2.9] <https://doi.org/10.1007/s10142-023-01066-4>
4. **Hazra A**, Dutta M, Dutta R, Bhattacharya E, Bose R, & Biswas SM (2023) Squalene synthase in plants—Functional intricacy and evolutionary divergence while retaining a core catalytic structure. *Plant Gene*, 33:100403 <https://doi.org/10.1016/j.plgene.2023.100403>
5. **Hazra A**, Mahadani P (2022) Delineating genome-wide alternative splicing landscapes and their functional significance in orchids. *South African Journal of Botany* 148: 552-560 <https://doi.org/10.1016/j.sajb.2022.05.016> [IF: 3.1]
6. Mahadani P, **Hazra A** (2021). Expression and splicing dynamics of WRKY family genes along physiological exigencies of tea plant (*Camellia sinensis*). *Biologia* 76: 2491–2499 <https://doi.org/10.1007/s11756-021-00784-z> [IF: 1.5]
7. **Hazra A**, Saha S, Dasgupta N, Kumar R, Sengupta C, Das S (2021) Ecophysiological traits differentially modulate secondary metabolite accumulation and antioxidant properties of tea plant [*Camellia sinensis* (L.) O. Kuntze]. *Scientific Reports* 11: 2795 <https://doi.org/10.1038/s41598-021-82454-3> [IF: 4.6]
8. **Hazra A**, Kumar R, Sengupta C, Das S (2021) Genome-wide SNP discovery from Darjeeling tea cultivars - their functional impacts and application toward population structure and trait associations. *Genomics (Elsevier)* 113(1): 66-78 <https://doi.org/10.1016/j.ygeno.2020.11.028> [IF: 4.4]
9. **Hazra A**, Mahadani P, Das S, Bhattacharya S, Kumar R, Sengupta C, Das S (2021) Insight to the ancestral relations and varietal diversity of Indian tea through plastid and nuclear phylogenetic markers. *Genetic Resources and Crop Evolution (Springer)* 68: 773–783 <https://doi.org/10.1007/s10722-020-01022-2> [IF: 2.0]

10. **Hazra A**, Sengupta J, Sengupta C & Das S (2022) ROS mediated response in blister blight disease compatibility of tea [*Camellia sinensis* (L.) O. Kuntze]. *Archives of Phytopathology and Plant Protection*, 55(2): 162–174. [IF: 1.0] <https://doi.org/10.1080/03235408.2021.2004045>
11. **Hazra A**, Das S, Bhattacharya S, Sur S, Sengupta C, Das S. (2021) Phylogenetic inference of Ericales based on plastid genomes and implication of cp-SSRs. *BioTechnologia*, 102(3): 277-283. <https://doi.org/10.5114/bta.2021.108723>
12. **Hazra A**, Bhowmick S, Sengupta C, Das S. (2020) Lowest copy nuclear genes in disentangling plant molecular systematics. *Taiwania* 65(4): 413-422 <https://doi.org/10.6165/tai.2020.65.413> [IF: 0.9]
13. **Hazra A**, Dasgupta N, Sengupta C, Saha G, Das S. (2020). Temporal depletion of packaged tea antioxidant quality under commercial storage condition. *Journal of Food Science and Technology (Springer)* 57: 2640–2650 <https://doi.org/10.1007/s13197-020-04300-0> [IF: 3.1]
14. Banerjee A, **Hazra A**, Das S Sengupta C (2020) Groundwater inhabited *Bacillus* and *Paenibacillus* strains alleviate arsenic-induced phytotoxicity of rice plant. *International Journal of Phytoremediation (Taylor and Francis)* 22(10): 1048-1058 <https://doi.org/10.1080/15226514.2020.1725871> [IF: 3.7]
15. **Hazra, A**, Dasgupta, N, Kumar, R, Sengupta, C, Das, S (2020) miRNA precursor-derived SSR marker-mediated genotyping of tea (*Camellia sinensis*) cultivars with varying health benefit traits. *Plant Breeding (Wiley)* 139: 804–810 <https://doi.org/10.1111/pbr.12803> [IF: 2.0]
16. Karmakar NC, **Hazra A**, Das S (2019) *Bidens pilosa* L.: Exclusive report of vivipary in a non-mangrove taxa from the eastern Himalayas. *Plant Species Biology (Wiley)* 34: 122–126 <https://doi.org/10.1111/1442-1984.12237> [IF: 1.4]
17. **Hazra A**, Dasgupta N, Sengupta C, Das S (2019) MIPS: Functional dynamics in evolutionary pathways of plant kingdom. *Genomics (Elsevier)* 111: 1929–1945 <https://doi.org/10.1016/j.ygeno.2019.01.004> [IF: 4.4]
18. Phukan M, Savapondit D, **Hazra A**, Das S, Pramanik P (2018) Algorithmic derivation of CO₂ assimilation based on some physiological parameters of tea bushes in North-East India. *Ecological Indicators (Elsevier)* 91: 77–83 [IF: 6.9] <https://doi.org/10.1016/j.ecolind.2018.03.091>
19. **Hazra A**, Dasgupta N, Sengupta C, Das S (2017) Extrapolative microRNA precursor based SSR mining from tea EST database in respect to agronomic traits. *BMC Research Notes (Springer Nature)* 10: 261 [IF: 1.8] <https://doi.org/10.1186/s13104-017-2577-x>
20. **Hazra A**, Nandy Datta P (2016) myo-inositol 1-Phosphate Synthase – the chosen path of evolution. *BioTechnologia* 97(2): 95-108 <https://doi.org/10.5114/bta.2016.60780>