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Designation	Assistant Professor					
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EDUCATIONAL PROFILE						
Degree	Institution				Year	Remarks
B. Sc.	Scottish College Church (University of Calcutta)				2011	
M. Sc.	Presidency University				2013	
Ph. D.	National Institute of Plant Biotechnology and Jamia Hamdard				2021	
CAREER PROFILE						
Organization / Institution		Designation		Duration		Role
Dr. Harisingh Gour Vishwavidyalaya		Assistant Professor		November, 2024 till present		Teaching and Research
Banasthali Vidyapith		Assistant Professor		2022-2024 (November)		Teaching and Research
Areas of Interest / Specialization						
My research work is mainly focused on molecular characterization (including genome editing- Crispr cas9) of stress tolerance and yielding improvement genes. I have experience in computational biology where my particular expertise is in gene editing, gene interaction and functional characterization of unknown genes. Additionally, chemical genomics in the frontline research area.						

Publications

1. Rajkumari N, **Chowrasia S**, Nishad J, Ganie SA, Mondal TK. 2023. Metabolomics-mediated elucidation of rice responses to salt stress. *Planta*, 258:111-138, PMID: 37919614, <https://doi.org/10.1007/s00425-023-04258-1>, **IF-4.3**, Q-1.
2. **Chowrasia S**, Nishad J, Pandey R, Mondal TK. 2021. *Oryza coarctata* is a triploid plant with initial events of C4 photosynthesis evolution. *Plant Science*. 308:110878-110884, <https://doi.org/10.1016/j.plantsci.2021.110878>, PMID: 34034879, **IF-5.2**- last five year, Q-1.
3. Panda AK, Rawal HC, Jain P, Mishra V, Nishad J, **Chowrasia S**, Sarkar AK, Sen P, Naik SK, Mondal TK. 2022. Identification and analysis of miRNAs-lncRNAs-mRNAs modules involved in stem-elongation of deepwater rice (*Oryza sativa* L.). *Physiologia Plantarum*. 174:13736-13754, PMID: 35716004, <https://doi.org/10.1111/ppl.13736>, **IF-6.4**, Q-1.
4. Nishad J, Panda AK, **Chowrasia S**, Nirmala C, Mondal TK. 2022. Allantoin mediated regulation of miRNAs for short term salinity stress tolerance in *Oryza sativa* L. cv. IR-29. *Journal of Plant Biochemistry and Biotechnology*., 16:1-8, <https://doi.org/10.1007/s13562-022-00774-5>, **IF-1.9**.
5. Krishnatreya DB, Baruah PM, Dowarah B, **Chowrasia S**, Mondal TK, Agarwala N. 2021. Genome-wide identification, evolutionary relationship and expression analysis of AGO, DCL and RDR family genes in tea. *Scientific Reports*. 11:1-8, PMID: 33883595, <https://doi.org/10.1038/s41598-021-87991-5>, **IF-3.8**, Q-1.
6. **Chowrasia S**, Nishad J, Mahato R, Kiran K, Rajkumari N, Panda AK, Rawal HC, Barman M, Mondal TK. 2023. Allantoin improves salinity tolerance in Arabidopsis and rice through synergid activation of abscisic acid and brassinosteroid biosynthesis. *Plant Molecular Biology*. 15:1-8, PMID: 37184674, <https://doi.org/10.1007/s11103-023-01350-8>, **IF-5.1**- last five year, Q-1.
7. **Chowrasia S**, Kaur H, Mujib A, Mondal TK. 2019. Evaluation of *Oryza coarctata* candidate reference genes under different abiotic stresses. *Biologia Plantarum*. 63:496-503, <https://doi.org/10.32615/bp.2019.054>, **IF-1.5**, Q-2.
8. Mondal TK, Rawal HC, **Chowrasia S**, Varshney D, Panda AK, Mazumdar A, Kaur H, Gaikwad K, Sharma TR, Singh NK. 2018. Draft genome sequence of first monocot-halophytic species *Oryza coarctata* reveals stress-specific genes. *Scientific reports*. 8:1-3. <https://doi.org/10.1038/s41598-018-31518-y>, **IF-3.8**, PMID: 30209320, Q-1.
9. **Chowrasia S**, Panda AK, Rawal HC, Kaur H, Mondal TK. 2018. Identification of jumonjiC domain containing gene family among the *Oryza* species and their expression analysis in FL478, a salt tolerant rice genotype. *Plant Physiology and Biochemistry*. 130:43-53, <https://doi.org/10.1016/j.plaphy.2018.06.031>, PMID: 29960182, **IF-6.1**, Q-1.
10. Kaur H, Chowrasia S, Gaur VS, Mondal TK. 2021. Allantoin: Emerging Role in Plant Abiotic Stress Tolerance. *Plant Molecular Biology Reporter*. 14:1-4, <https://doi.org/10.1007/s11105-021-01280-z>, **IF-2.1**, Q-2.

11. Bhattacharya S, Dutta S, Chowrasia S, Das S. Unveiling the Dynamics: A Comprehensive Review of Biological Membrane Kinetics During Cell Division. 2024. *Asian Journal of Biological Sciences*. 17: 815-845, <https://doi.org/10.3923/ajbs.2024.815.845>

Patents filed

1. A polynucleotide sequence from *Oryza coarctata* confers multiple abiotic stress tolerance Nishad J, **Chowrasia S**, Kaur H, Shasany A K, Mondal TK*-202211074347-2022.
2. A polynucleotide sequence from *Oryza sativa* indica confers multiple abiotic stress tolerance, Nishad J, **Chowrasia S**, Kaur H, Shasany A K, Mondal TK*-202211074345-2022
3. Formulation for mitigating abiotic stress and the method of preparation and mitigation Thereof- Mondal TK*, **Chowrasia S**, Rajkumari N, Mihra S -202411008821-2024

Awards

CSIR-Fellowship (File number-09/1071(0008)/2016-EMR-I)