

Dibyendu Shee

Research Scholar
Department of Botany
University of Calcutta

PERSONAL DETAILS

ADDRESS: 22/2, kashinath Chatterjee Lane, PS Sibpur, Dist. – Howrah, Pin-711102, West Bengal, India

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Date of Birth: 10th December, 1994

NATIONAL LEVEL EXAMINATION QUALIFIED

GATE: 2018, NET-2023 (Assistant Professor/LS, Percentile Score- 99.5)

ACADEMIC CREDENTIALS

(2018 to present): PhD [Reg. No.06764/Ph.D.(Sc.)Proceed/2021](continuing) at Molecular plant physiology laboratory, **Department of Botany, University of Calcutta**, Kolkata-700019, West Bengal, India.

Thesis title: Functional characterization of iron responsive micro RNAs in *Arabidopsis thaliana*

(2015-2017): M.Sc. in Biochemistry (Special paper: **Systems Biology**) from Department of Biochemistry, University of Calcutta, West Bengal. **Percentage obtained: 61 %**(1st Division)

(2012-2015): B.Sc. in Zoology (Hons.), from Surendranath College, University of Calcutta, West Bengal.

Percentage obtained: 70%(1st Division)

(2010-2012): Higher Secondary Examination or 12th Std. (Subjects: Biological Sciences, Physics, Chemistry, English and Bengali) from Sibpur Sri Ramkrishna Vidyalaya, WBCHSE.

Percentage obtained: 73% (1st Division)

(2010): Madhyamik or 10th Std. (Subjects: Bengali paper I & II, English, History, Geography, Physical Science, Life Science, Mathematics) from Sibpur Sri Ramkrishna Vidyalaya, WBSE.

Percentage obtained: 77.17 % (1st Division)

PROFESSIONAL EXPERIENCE:

- Worked as a Full time **Teacher** in Roy's Institute of Competitive Examination (RICE), West Bengal from November, 2017 to September, 2018.
- Worked as Full time **Teacher** in Imperial Institute, Kohima, Nagaland from June, 2023 to August, 2024.
- Currently working as Full time **Teacher** in Don Bosco Convent School, Jhanjharpur (R.S.), Madhubani, Bihar.

LIST OF PUBLICATIONS:

1. Sahid, S, Roy, C, **Shee, D.**, Datta, R., and Paul, S. (2021). Jacalin domain containing protein *OsSalT* interacts with *OsDREB2A* and *OsNAC1* to impart drought stress tolerance in planta. **Environmental and Experimental Botany** (183): 104362. **Impact Factor -6.028**
2. Shee, R., Ghosh, S., Khan, P., Sahid, S., Roy, C., **Shee, D.**, Paul, S., and Datta, R. (2022). Glutathione regulates transcriptional activation of iron transporters via S-nitrosylation of bHLH factors to modulate subcellular iron homeostasis. **Plant, Cell and Environment**. doi: <https://doi.org/10.1101/2021.05.09.443283>. **Impact Factor – 7.3**
3. Sahid, S., Roy, C., **Shee, D.**, Shee, R., Datta, R., and Paul, S. (2023). ZFP37, C3H, NAC94, and bHLH148 transcription factors regulate cultivar-specific drought response by modulating r4OC1 gene expression in rice. **Environmental and Experimental Botany** (214), 105480

AWARDS AND HONORS:

1. **Best Poster Presentation Award in National Conference of Plant Physiology (NCPPI) – 2021, Baramati, Pune, Maharashtra.**

PARTICIPATION IN WORKSHOP:

1. **Participation** in Two weeks of Industrial training in the area of "Python, R, MD Simulations, NGS data analysis & Genomics" organized by Next Gen Helper, New Delhi on 15th to 30th September, 2021.
2. **Participation** in the National Virtual Conference (NVC-2021) on Genomics to Phenomics: A New Horizon in Plant Science Research held on 28th February and 1st March, 2021.

PARTICIPATION IN CONFERENCES/SYMPOSIUM:

- 1. Participation** in the international symposium on “advances in plant biotechnology and genome editing” & 42nd meeting of plant tissue culture association organized by the ICAR-Indian Institute of Agricultural Biotechnology, Ranchi, India during 8-10th April,2021.
- 2. Participation** in the National Virtual Conference (2021) on „Genomics to Phenomics: A new Horizon in plant Science research organized by the Department of Botany, University of Calcutta during 28th February- 1st March, 2021.
- 3. Participation** in the 4th lecture of the international webinar series on “Recent Advances in Life Sciences (RALS) organized by the Department of Botany, University of Calcutta by 6th February,2021.
- 4. Participation** in the international E-Conference on Advances and Future Outlook in Biotechnology and Crop Improvement for Sustainable Productivity”organized by the Department of Biotechnology and Crop Improvement, College of Horticulture, Bengaluru during 24-27th November,2020.
- 5. Participation** in the National Virtual Conference on „Current Trends and Challenges in Plant Biochemistry and Biotechnology” organized by the Society for Plant Biochemistry and Biotechnology, New Delhi & Birla Institute of Technology and Science, Pilani, K. K. Birla Goa Campus during 20th -21st November,2020.
- 6. Participation** in the National Webinar on „Emerging Trends in Plant Research” organized by the Archana Sharma Foundation of Calcutta and Department of Botany, University of Calcutta held on 27th October, 2020.
- 7. Participation** in the international Conference on “Algae, Fungi and Plants: Systematics to Applications (AFPSA-2020)” organized by the CAS, Department of Botany, University of Calcutta in collaboration with Botanical Survey of India held on 24-25th January,2020.
- 8. Participation** in the national seminar on “Advancement in Plant Sciences: An insight” organized by the Botanical Society of Bengal in joint collaboration with CAS, Department of Botany, University of Calcutta held on 30th September 2019.
- 9. Participation** in the one day symposium on “Applications of the advanced tools and technology in plant biology” organized by the West Bengal Academy of Science and Technology (WAST) in joint collaboration with Centre of Advance

Study, Department of Botany, University of Calcutta and Archana Sharma
Foundation of Calcutta held on 6th March, 2019.

PROJECT TRAINING:

- Works in a project on “**Determination of Reactive Oxygen Species from peripheral blood sourced from adults and children**” from the period of 15th June, 2016 to 13th August, 2016 under the guidance and supervision of Prof. Mitali Chatterjee.

EXPERTISE:

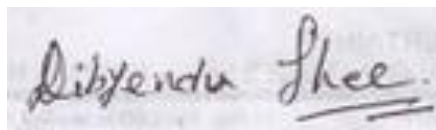
1. Isolation of DNA, RNA and Proteins
2. Quantitative real time PCR (q-RT PCR)
3. Molecular Cloning
4. Yeast two and one hybrid assay
5. Gel Electrophoresis analysis
6. Bimolecular fluorescence complementation assay
7. Raising of transgenic and plant tissue culture
8. Fluorescence Activated Cell Sorting (FACS)
9. *In silico* Protein structure designing, protein-protein docking, MD simulation
10. *In silico* Promoter analysis

REFERENCES:

1. Dr. Soumitra Paul, Assistant Professor, Department of Botany, University of Calcutta.
2. Dr. Riddhi Datta, Assistant Professor, Department of Botany, Dr. A.P.J Abdul Kalam Govt. College, West Bengal State University.

DECLARATION:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.



(DIBYENDU SHEE)