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EDUCATION

Department of Botany, University of Calcutta Kolkata, India

Ph.D in Botany on the topic of '' Dissecting the role of *Os*R40C1 protein under Osmotic stress in rice'' 2018-2023

Department of Botany, University of Calcutta Kolkata, India

M.Sc. in Botany (Special Paper: Molecular Mycology and Plant Pathology),
1st Class 2013-2015

City College, University of Calcutta Kolkata, India

B.Sc in Botany (Honours), 1st Class 2010-2013

Lalbagh Singhi High School, W.B.C.H.S.E. Murshidabad, India

Higher Secondary, Science, 1st Class 2008-2010

Chhatai High School, W.B.B.S. E. Murshidabad, India

Secondary, 1st Class 2008

STATE LEVEL EXAMINATION QUALIFIED

WBSET (2016)

PROFESSIONS

- Working as an Assistant Professor in Botany at A.P.C Roy Govt. College Siliguri from 6th August, 2021.

RESEARCH PUBLICATION

1. Roy C, Majumder S, **Sahid S** (**2026**). Smart Scaffolds: How WD40 Proteins Integrate Plant Development, Metabolism, and Stress Adaptation. **Annals of Botany**. https://doi.org/10.1093/aob/mcag244
2. **Sahid S** (**2026**). Dirigent (DIR) Proteins: Molecular Switching for Metabolism of Lignan to Making Climate-Smart Plants. **Physiologia Plantarum**, 178(4). https://doi.org/10.1111/ppl.70984

3. **Sahid S**, Majumder S (2026). Beyond Carbohydrate Binding: Lectin-Domain Proteins in Crop Stress Resilience. **Journal of Crop Health**, 78(4). https://doi.org/10.1007/s10343-026-01368-0
4. Roy C, Majumder S, **Sahid S** (**2026**). Small Peptides, Smart Plants: The Emerging Significance of SCOOP Signalling. **Plant, Cell & Environment**, 49(9), 6453–6465. https://doi.org/10.1111/pce.70641
5. Roy C, Biswas A, Majumder S, **Sahid S** (2026). SHOOT MERISTEMLESS (STM): Where Development Meets Climate Resilience in Plants. **The Nucleus**. https://doi.org/10.1007/s13237-026-00656-4
6. **Sahid S**, Roy C, Majumdar P, Majumder S (2026). Membranes, Metabolism, and Messages: How Plant Lipids Drive Growth and Climate Resilience. **Physiologia Plantarum**, e70792. https://doi.org/10.1111/ppl.70792
7. Shee D, Saha T, Neethu T, Mondal A, Debgupta J, Roy C, **Sahid S**, Sircar G, Paul S, Datta R (2025). Rice lectin protein OsR40C1 interacts with Magnaporthe oryzae Sho1 protein to regulate leaf blast resistance. **Plant, Cell & Environment** 2025; 1-15.
8. Roy C, **Sahid S**, Debgupta J, Roy A, Shee D, Datta R, Paul S (2025). OsR40G3 imparts salinity tolerance by regulating GF14e-mediated modulation of gibberellin metabolism to activate expansin protein EG45 in rice**. Plant and Cell Physiology**, pcaf023. https://doi.org/10.1093/pcp/pcaf023
9. Roy C, **Sahid S**, Datta R, Paul S (**2024**). Ectopic expression of OsR40G3 confers salt tolerance in Arabidopsis thaliana. **Journal of the Botanical Society of Bengal**, 78(1), 62–70.
10. Shee R, Shee D, **Sahid S**, Paul S, Datta R (**2023**). Glutathione activates PHT1;5 gene via WRKY75 transcription factor to regulate phosphate homeostasis in Arabidopsis. **bioRxiv**. https://doi.org/10.1101/2022.11.03.515049
11. Saha T, Shee R, **Sahid S**, Shee D, Roy C, Sharma R, Pandey A, Paul S, Datta R (**2023**). Designer grass pea for transgene-free minimal neurotoxin-containing seeds with CRISPR-Cas9. **bioRxiv**. https://doi.org/10.1101/2023.03.26.534271
12. **Sahid S**, Roy C, Shee R, Shee D, Datta R, Paul S (**2023**). Drought-responsive transcription factors NAC94, ZFP37, bHLH148 and CCCH6 positively regulate OsR40C1 expression to impart drought tolerance in rice. **Environmental and Experimental Botany**, 214, 105480.
13. Shee R, Ghosh S, Khan P, **Sahid S**, Roy C, Shee D, Paul S, Datta R (**2022**). Glutathione regulates subcellular iron homeostasis via transcriptional activation of iron-responsive genes in Arabidopsis. **Plant, Cell & Environment**, 45(7), 2176–2190.
14. **Sahid S**, Roy C, Shee D, Datta R, 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.
15. **Sahid S**, Roy C, Datta R, Paul S (2020). Rice lectin protein OsR40C1 imparts drought tolerance by modulating OsSAM2, OsSAP8 and chromatin-associated proteins. **Journal of Experimental Botany**, 71(22), 7331–7346.
16. Acharya K, Khatua S, **Sahid S** (**2015**). Pharmacognostic standardization of Macrocybe crassa: An imminent medicinal mushroom. **Research Journal of Pharmacy and Technology**, 8(7), 860–866.

BOOK CHAPTERS

1. **Sahid S**, Roy C, Mukherjee S, Nath A, Sarkar J (2026). *Innovative Methods and Strategies for Sustainable Agriculture*. In: **Innovations and Challenges in Water and Sustainable Agriculture**. *Water Science and Technology Library*, Vol. **132**, pp. 323–366. Springer Nature. https://doi.org/10.1007/978-3-032-10879-1_19
2. Datta R, **Sahid S**, Paul S (2020). *Networking by Small Molecule Hormones During Drought Stress in*

Plants. In: **Improving Abiotic Stress Tolerance in Plants**. CRC Press, Taylor & Francis Group.

AWARDS AND HONOURS

1. Best Poster Presentation Award, International Conference on Food and Nutritional Security, NABI, Mohali, India (2023).
2. Best Poster Award, National Conference of Plant Physiology, ICAR–National Institute for Abiotic Stress Management & Indian Society for Plant Physiology (2021).
3. Best Oral Presentation Award, 42nd Meeting of the Plant Tissue Culture Association (PTCA), International Symposium on Advances in Plant Biotechnology and Genome Editing (2021).
4. Best Oral Presentation Award, National Virtual Conference on Genomics to Phenomics: A New Horizon in Plant Science Research, University of Calcutta (2021).
5. Senior Research Fellowship (DST-PURSE), University of Calcutta (2019–2020)

SKILL & EXPERTISE

Isolation of DNA, RNA and Protein, PCR, qRT PCR, Molecular Cloning, Yeast two hybrid, Yeast One hybrid, BiFC, Chip q PCR, Western blot, Rice tissue culture, *Agrobacterium* mediated rice, *Arabidopsis* and *Nicotiana* transformation, Greenhouse maintenance.