Salman Sahid, Ph.D.

Assistant Professor (W.B.E.S), Department of Botany
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Education

- **Ph.D. in Botany** (2018–2023), University of Calcutta, India
  Thesis: Dissecting the role of OsR40C1 protein under osmotic stress in rice
- **M.Sc. in Botany** (2013–2015), University of Calcutta, India (1st Class; Specialization: Molecular Mycology & Plant Pathology)
- **B.Sc. (Hons) in Botany** (2010–2013), City College, University of Calcutta, India (1st Class)
- **Higher Secondary (Science)** (2008–2010), W.B.C.H.S.E, Murshidabad, India (1st Class)
- **Secondary Education** (2008), W.B.B.S.E, Murshidabad, India (1st Class)

STATE LEVEL EXAMINATION QUALIFIED- **WBSET, 2016**

Publications *(Citations: 129 | h-index: 6 | i10-index: 5)*

Peer-Reviewed Journal Articles

1. **Sahid S**, Roy C, Majumdar P, Majumder S. (2026). *Membrane, Metabolism and Messeages: How Plant Lipids Drive Growth and Climate Resilience*. **Physiologia Plantarum,** 178(1), e70792. https://doi.org/10.1111/ppl.70792**. IF-3.6**
2. Shee D, Saha T, Neethu T, Mondal A, Debgupta J, Roy C, **Sahid S**, et al. (2025). *Rice lectin protein r40c1 interacts with Magnaporthe oryzae Sho1 protein to regulate leaf blast resistance.* **Plant, Cell & Environment**. https://doi.org/10.1111/pce.70129**. IF-6.3**
3. 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 & Cell Physiology**. https://doi.org/10.1093/pcp/pcaf023. **IF- 4.7**
4. Roy C, **Sahid S**, Datta R, Paul S. (2024). *Ectopic expression of Osr40g3 confers salt tolerance in Arabidopsis thaliana.* **J. Botanical Society of Bengal**, 78(1), 62–70. **IF-0**

5. **Sahid S**, Roy C, Shee R, Shee D, Datta R, Paul S. (2023). *Drought-responsive transcription factors NAC94, ZFP37, bHLH148 and CCCH6 positively regulate r40c1 expression to impart drought tolerance in rice.* **Environmental and Experimental Botany**, 214: 105480**. IF-4.5**
6. Shee R, Ghosh S, Khan P, **Sahid S**, et al. (2022). *Glutathione regulates subcellular iron homeostasis via transcriptional activation of iron responsive genes in Arabidopsis.* **Plant, Cell & Environment**, 45(7), 2176–2190. **IF-7.3**
7. **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. **IF-6.02**
8. **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. **IF-6.93**
9. Acharya K, Khatua S, **Sahid S**. (2015). *Pharmacognostic standardization of Macrocybe crassa: an imminent medicinal mushroom.* **Research Journal of Pharmacy & Technology**, 8(7), 860–866. **IF-0.8**

Book Chapter

- 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.

Conferences & Awards

- *Best Poster Award — "Role of Osr40c1 in regulating drought stress tolerance in rice"*, International Conference on Food and Nutritional Security, NABI, India (2023).
- *Best Oral Presentation Award — "Rice r40c1 protein: a novel regulator of osmotic stress tolerance"*, National Virtual Conference on Genomics to Phenomics, University of Calcutta (2021).
- **Senior Research Fellowship** (DST-PURSE), University of Calcutta (2019–2020).

Skills & Expertise

- **Molecular Biology & Biochemistry:** DNA/RNA/protein isolation, PCR, qRT-PCR, molecular cloning, ChIP-qPCR, Western blotting.
- **Functional Genomics:** Yeast one/two-hybrid, BiFC, transcription factor assays.
- **Plant Biotechnology:** Rice tissue culture, *Agrobacterium*-mediated transformation (rice, Nicotiana).

- **Plant Stress Biology:** Drought, salinity, and osmotic stress signaling; lectin protein function.
- **Greenhouse Management** and phenotypic evaluation of stress responses.