

## CV of Md. Arif Hussain Contact

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Google scholar: <https://scholar.google.com/citations?hl=en&user=93BBxe8AAAAJ>

### Academic Degrees and Qualification

#### 1) 2023: PhD

##### Dissertation title:

“Sulfur Fertilization and Waterlogging Stress Resistance: Elucidation of the underlying mechanisms in Wheat and Rapeseed”

Institute of plant nutrition and soil science, Kiel University, Germany

Supervisor: Prof. Dr. Karl.H. Mühling

#### 2) 2014: Master of Science (MS) in Genetics and Plant Breeding

Master thesis project: “Genetic variability and character association of advanced lines in *Brassica rapa* L.”

Advisor: Professor Dr. Md. Sarwoar Hossain

Sher-e- Bangla Agricultural University, Dhaka, Bangladesh

#### 3) 2012: Bachelor of Science in Agriculture (Honors)

Sher-e- Bangla Agricultural University, Dhaka, Bangladesh

### Professional Experiences and Skills

**Assistant Professor:** October, 2014 – September, 2018, Department of Biochemistry, Sher-e-Bangla Agricultural University (SAU), Dhaka-1207, Bangladesh

#### Skill and Experiences:

- ✓ GC-MS, AAS, ICP-MS, CNS elemental analyzer, Microwave digestion of ions
- ✓ Antioxidant metabolites and enzyme activity
- ✓ Plant physiological-stress assays
- ✓ SDS-PAGE (1D and 2 D)
- ✓ Protein Extraction, purification and quantification
- ✓ Licor-6400
- ✓ PCR Techniques: PCR, RT-PCR

#### Area of Interest

- 1) Plant nutrition
- 2) Plant stress physiology
- 3) Environmental toxicity
- 4) Protein chemistry

### Award and Scholarship

**2018,** Fellow, Bangabandhu Science and technology fellowship trust, Government of the People's Republic of Bangladesh, Ministry of Science and technology.

**2014,** Dean's Award

## Scientific output and recognition

- 1) **Hussain, M.A.**, Naeem, A., Pitann, B. et al. **2023**. High Sulfur (S) Supplementation Imparts Waterlogging Tolerance to Oilseed rape (*Brassica napus* L.) Through Upregulating S Metabolism and Antioxidant Pathways. **Journal of Plant Growth Regulation**. <https://doi.org/10.1007/s00344-023-11034-8>
- 2) Zannat, A. **Hussain, M.A.**, Abdullah, A.H.M., Hossain, M. I., et al. **2023**. Exploring genotypic variability and interrelationships among growth, yield, and quality characteristics in diverse tomato genotypes. **Heliyon**, 9 (8), e18958. <https://doi.org/10.1016/j.heliyon.2023.e18958>.
- 3) **Hussain, M. A.**, Naeem, A., Sulieman, S., Pitann, B., & Mühling, K. **2022**. Sulfur uptake and distribution, grain yield, and quality of hybrid and inbred winter wheat (*Triticum aestivum* L.) varieties under early and late waterlogging. **Journal of Plant Nutrition and Soil Science**. <https://doi.org/10.1002/jpln.202200149>
- 4) Jannat, S., **Hussain, M.A.**, Abdullah, A.H.M., Shompa, B.N., Hossain, M.S., Mohsin, S.M. **2022**. Yield Potentiality and Grain Physio-Chemical Properties of Some Advanced Lines and High Yielding Varieties of Rice in Bangladesh. *Journal of Plant Sciences*, 17: 134-143. <https://doi.org/10.3923/jps.2022.134.143>
- 5) Afsana, N., Mahbub Islam, M., Elias Hossain, M., Nizam, R., Monalesa, N., **Hussain, M.A.**, & Parvin, S. **2017**. Response of Tomato (*Solanum lycopersicum* L.) to Salicylic Acid and Calcium. *Journal of Applied Life Sciences International*, 15(2), 1–7. <https://doi.org/10.9734/JALSI/2017/37408>
- 6) **Hussain, M.A.**, Hossain, M.S., Bhuiyan, M.S.R., Zeba, N. and Mohsin, S.M. **2016**. Field performance and genetic analysis in some advanced lines of mustard (*Brassica rapa* L.). *The Agriculturists*, 14(1), pp.112-121. <https://doi.org/10.3329/agric.v14i1.29109>

**Conference Abstracts:** 10

**Events Participation:**

International conference: 8, National conference: 20, Workshop and training: 30, Webinar: 35

## Societal Memberships

1. Member of German Society of Plant Nutrition (DGP)
2. Member of German Society for Plant Sciences (DBG)
3. Member of the Bangladesh Society for Biochemistry and Molecular Biology (BSBM)
4. Member of the Sher-e Bangla Agricultural University Alumni Association (SAUAA), Bangladesh
5. Member of the Sher-e-Bangla Agricultural University Teacher's Association (SAUTA), Bangladesh

**Language Proficiency:** Bangla, English and German (conversational)