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Department of Agronomy

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Educational Qualification:

- **Master of Science in Agronomy, 2015**
C.G.P.A: 3.96 in a scale of 4.00
Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
- **Bachelor of Science in Agriculture (Honors), 2013**
C.G.P.A: 3.67 in a scale of 4.00
Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
- **Higher Secondary School Certificate (HSC), 2009**
Group: Science, GPA: 5.00 in a scale of 5.00
Gazipur Cantonment College, Gazipur, Bangladesh
- **Secondary School Certificate (SSC), 2007**
Group: Science, GPA: 5.00 in a scale of 5.00
Joydebpur Govt. Girls' High School, Gazipur, Bangladesh

Achievements:

- Attained Ph.D. scholarship in “Tokyo Global Partner Scholarship Program”
- Awarded Research and Development (R&D) Fellowship 2021-2022, Ministry of Science and Technology, Bangladesh
- Awarded as best presenter in the 3rd international conference on “Global Initiative in Agricultural, Forestry and Applied Sciences for Food Security, Environmental Safety and Sustainable Development (GIAFAS-2021)”
- Awarded Research and Development (R&D) Fellowship 2020-2021, Ministry of Science and Technology, Bangladesh
- Dean’s award 2019, Sher-e-Bangla Agricultural University
- Awarded National Science and Technology (NST) Fellowship 2015-2016, Ministry of Science and Technology, Bangladesh
- Attained scholarship in General grade in Govt. Junior Scholarship Exam, 2004

Publications:

• JOURNAL ARTICLES:

- Nowroz F, Hasanuzzaman M, Siddika A, Parvin K, Caparros PG, Nahar K, Prasad PVV (2024) Elevated tropospheric ozone and crop production: potential negative effects and plant defense mechanisms. *Frontiers in Plant Science* 14:1244515
- Hasanuzzaman M, Nowroz F, Raihan MRH, Siddika A, Alam MM, Prasad PVV (2023) Application of biochar and humic acid improves the physiological and biochemical processes of rice (*Oryza sativa* L.) in conferring plant tolerance to arsenic-induced oxidative stress. *Environmental Science and Pollution Research* 31, 1562-1575
- Hasanuzzaman M, Raihan MRH, Nowroz F, Nahar K (2023) Insight into the physiological and biochemical mechanisms of biostimulating effect of *Ascophyllum nodosum* and *Moringa oleifera* extracts to minimize cadmium-induced oxidative stress in rice. *Environmental Science and Pollution Research* 30, 55298-55313
- Hasanuzzaman M, Raihan MRH, Nowroz F, Fujita M (2022) Insight into the mechanism of salt-induced oxidative stress tolerance in soybean by the application of *Bacillus subtilis*: coordinated actions of osmoregulation, ion homeostasis, antioxidant defense, and methylglyoxal detoxification. *Antioxidants* 11, 1856
- Nowroz F, Alam MM, Raihan MRH (2022) Zinc priming triggers osmoregulation to enhancing growth of soybean (*Glycine max* L.) under salinity. *Bangladesh Agronomy Journal* 25 (1):47-56
- Hasanuzzaman M, Raihan MRH, Masud AAC, Rahman K, Nowroz F, Rahman M, Nahar K, Fujita M (2021) Regulation of reactive oxygen species and antioxidant defense in plants under salinity. *International Journal of Molecular Sciences* 22, 9326
- Rahman K, Ahmed N, Raihan MRH, Nowroz F, Jannat F, Rahman M, Hasanuzzaman M (2021) Jute responses and tolerance to abiotic stress: mechanisms and approaches. *Plants* 10, 1595
- Nowroz F, Roy TS, Haque MT, Ferdous J, Noor R, Mondal GC (2021) Yield and grading of potato (*Solanum tuberosum* L.) as influenced by different mulch materials. *Agrotechniques in Industrial Crops* 1(1):1-10
- Taufique T, Roy TS, Chakraborty R, Mostofa M, Kundu BC, Delowar HKM, Nowroz F (2019) Suitability of potato varieties grown from true seed and seed tubers for chips making using a microwave oven. *African Crop Science Journal* 27(4):545 – 556
- Ferdous J, Roy TS, Chakraborty R, Mostofa M, Noor R, Nowroz F, Kundu BC (2019) Vermicompost influences processing quality of potato tubers. *SAARC Journal of Agriculture* 17(2):173-184
- Mostofa M, Roy TS, Chakraborty R, Ferdous J, Nowroz F, Noor R (2019) Effect of vermicompost and tuber size on total soluble solids, sucrose and skin color of potato under ambient storage condition. *Azarian Journal of Agriculture* 6(3):58-66
- Ferdous J, Roy TS, Chakraborty R, Mostofa M, Nowroz F, Noor R (2019) Starch and sugar content of some selected potato varieties as influenced by vermicompost. *Azarian Journal of Agriculture* 6(2):47-57

• BOOK CHAPTER

- Raihan, M.R.H., Nahar, K., Nowroz, F., Siddika, A., Hasanuzzaman, M. (2022). Oilseed Brassica responses and tolerance to salt stress. In M. Hasanuzzaman (Ed), "Oilseed Crops - Biology, Production and Processing". Intechopen (Accepted).
- Hasanuzzaman, M., Parvin, K., Anee, T. I., Masud, A. A. C., & Nowroz, F. (2022). Salt Stress Responses and Tolerance in Soybean. In M. Hasanuzzaman, & M. K. Nahar (Eds.), *Plant Stress Physiology - Perspectives in Agriculture*. IntechOpen. <https://doi.org/10.5772/intechopen.102835>

- **THESIS**

Nowroz, F. (2015). Yield and quality of potato as influenced by different mulch materials and their performance in ambient condition. M.S. thesis, SAU, Sher-e-Bangla Nagar, Dhaka.

- **ABSTRACT**

Nowroz, F.; Hasanuzzaman, M. (2022). Physiological Role of Biochar and Humic Acid in Conferring Arsenic-Induced Oxidative Stress in Rice (*Oryza sativa*). Journal of Bangladesh Academy of Sciences, 5th Young Scientist Congress, Nov. 25-27, Dhaka, Bangladesh, 46 (Suppliment 1): 108.

Nowroz, F. and Roy, T.S. (2017). Yield and quality of potato as influenced by different mulch materials and their performance in ambient condition. Souvenir of 16th Conference of Bangladesh Society of Agronomy, Oct. 28, SAU, Sher-e-Bangla Nagar, Dhaka, pp. 57-58.

Conferences Attended:

- 5th Young Scientist Congress of the **Bangladesh Academy of Sciences (BAS)** on Young Scientists for Health & Environment, 25-27 November, 2022, Dhaka, Bangladesh
- 3rd international conference on **Global Initiative in Agricultural, Forestry and Applied Sciences for Food Security, Environmental Safety and Sustainable Development (GIAFAS-2021)**, 17-18 October, 2021 at Shri Guru Ram Rai University, Dehradun, Uttarkhand, India, (Virtual)
- 1st **International Conference on Recent Advances in Agricultural Sciences (ICRAAS-2021)** organized by Amity Institute of Organic Agriculture (AIOA) on Innovations and Translational Research in Agriculture, 16–17 March, 2021, Amity University, U.P., India (Virtual)
- International E-Conference of **Department of Biotechnology and Microbiology, Gandhi FaizE-Aam College** on Challenges for Biotechnology in Agriculture and Drug Development, 20 June, 2020, Shahjahanpur-242001, U.P., India (Virtual)
- 18th Conference of **Bangladesh Society of Agronomy (BSA)** on Crop Diversification and Intensification for and Nutritional Security of Bangladesh, 07 December, 2019, Dhaka, Bangladesh
- 17th Conference of **Bangladesh Society of Agronomy (BSA)** on Agronomy for Food and Nutritional security, 01 December, 2018, Dhaka, Bangladesh
- 16th Conference of **Bangladesh Society of Agronomy (BSA)** on Agronomy for Sustainable Development Goal, 28 October, 2017, Dhaka, Bangladesh
- 14th Conference of **Bangladesh Society of Agronomy (BSA)** on Agronomic Challenges for Climate Smart Agriculture, 31 October, 2015, Dhaka, Bangladesh
- 5th Conference of the **Weed Science Society of Bangladesh (WSSB)** on Integrated Weed Management for Sustainable Agriculture, 16 May, 2015, Dhaka, Bangladesh

Training:

- Attended an international course on “Lost Harvest and Wasted Food” by WCDI, Wageningen, the Netherlands
- Attended a training program on “Teaching-Learning, Assessment and Implementation of Outcome Based Curriculum”
- Participated a training workshop on “Scientific Paper Writing and Publication”