CURRICULUM VITAE

MST. NADIRA BEGUM
Senior Scientific Officer,
Plant Pathology Section, Biological Research Division
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EDUCATIONAL QUALIFICATIONS

2002 (Held in 2006)

Master of Science (M.S) in **Botany (**Plant Pathology)
Results: First Class
Department of Botany, University of Dhaka, Bangladesh

2001 (Held in 2004)

Bachelor of Science in Botany (4 years)
Results: First Class
Department of Botany, University of Dhaka, Bangladesh

1996

Higher Secondary Certificate (H.S.C.)
Begum Badrunnesha Govt. Girls' College, Dhaka.
Results: First Class

1994

Secondary School Certificate (S.S.C.)
Khanjanpur Mission Girls' High School, Joypurhat
Results: First Class

PROFESSIONAL EXPERIENCE

Senior Scientific Officer, July 2017-Present
Plant Pathology Section, Biological Research Division, BCSIR Dhaka Laboratories,
Bangladesh Council of Scientific and Industrial Research

Scientific Officer July 2011- July 2017
Plant Pathology Section, Biological Research Division, BCSIR Dhaka Laboratories,
Bangladesh Council of Scientific and Industrial Research

Research Chemist June 2006 - July 2011
Plant Pathology Section, Biological Research Division, BCSIR Dhaka Laboratories,
Bangladesh Council of Scientific and Industrial Research

PUBLICATIONS (Selected)

1. Rahman A, **Begum MN**, Moni F, Akhter S, Haq MA, Rony SR and Sohrab MH 2025. GC-MS/MS-Based metabolite profiling and bioactivity studies of endophytic fungi from the medicinal plant *Alternanthera philoxeroides* (Mart.) Griseb. Bangladesh Journal of Scientific and Industrial Research 60(4): 225-250.

2. Noor S, **Begum MN**, Rony SR, Uddin MZ, Sohrab MH and Mazid MA 2024. Bioactivity and chemical screening of endophytic fungi associated with the seaweed *Ulva* sp. of the Bay of Bengal, Bangladesh. Botanica Marina, 67(2):115-129.

3. **Begum N**, Zenat EA, Sarkar MK, K Roy C, Munshi JLand A Jahan MA 2019. In vitro micropropagation of soybean (Glycine max) BARI-5 variety. The Open Microbiology Journal, 13(1).
4. Khan, N., Afroz, F., **Begum, M.N.,** Rony, S.R., Sharmin, S., Moni, F., Hasan, C.M., Shaha, K. and Sohrab, M.H., 2018. Endophytic *Fusarium solani*: A rich source of cytotoxic and antimicrobial napthaquinone and aza-anthraquinone derivatives. Toxicology reports 5: 970-976.

5. **Begum N**, Rahman M M, Bashar M A, Hossain M A, and Uddin M N (2011). Effect of Potassium Fertilizer on the Development of Bacterial Blight of Rice. Bangladesh Journal of Scientific & Industrial Research 46(1): 69-76.

6. Bashar M A, Hossain M A, Rahman M M, Uddin M. N and **Begum M N** (2010). Biological Control of Sheath Blight Disease of Rice by using Antagonistic Bacteria. Bangladesh Journal of Scientific & Industrial Research 45(3): 225-232.

Research Grants (Selected)

Associate investigator: Effect of Sodium Tungstate on Bioenergy Production Using Food Waste through Anaerobic digestion, Ministry of Science and Technology, Bangladesh (Project ID: SRG 231177)

Associate investigator: Effect of Sodium Molybdate on Bioenergy Production Using Household Waste through Anaerobic Digestion, Ministry of Science and Technology, Bangladesh (Project ID: SRG 221137)

Conference presentation

- ✓ Participated and delivered an oral presentation at an international conference "**BCSIR Congress-2023**" held at the Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, on 8-10 March, 2024.
- ✓ Participated and delivered an oral presentation at an international conference "**BCSIR Congress-2022**" held at the Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, on 01-03 December, 2022.

Thesis Supervision

Supervised more than 10 MS thesis students in different fields of Botany, Natural Product Research, Microbiology etc.

Professional Members

1. Bangladesh Botanical Society
2. Scientist Forum of the Bangladesh Council of Scientific and Industrial Research.

Professional Training

- ✓ Training program on "Operation and Maintenance of Nuclear Magnetic Resonance (NMR) Spectrometer" from 24-28th August 2025 at the Bangladesh Council of Scientific and Industrial Research.
- ✓ Training program on "Operating System and Maintenance of Atomic Absorption Spectrometer (AAS)" from 10-14th March 2019 at Bangladesh Council of Scientific and Industrial Research