

# MD. ZAMILUR RAHMAN

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Dr. Quadrat-I-Khuda road, Dhanmondi, Dhaka 1205, Bangladesh

## Education

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### PhD in Biological Sciences

September 2017

University of Rajshahi, Rajshahi, Bangladesh

### M.Sc. in Botany

2001

University of Rajshahi, Rajshahi, Bangladesh

### B.Sc. in Botany

2000

University of Rajshahi, Rajshahi, Bangladesh

## Professional Experience

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### Senior Scientific Officer

July 2017 - Present

Biological Research Division, BCSIR Dhaka Laboratories,  
Dhaka, Bangladesh

### Scientific Officer

July 2011- June 2017

Applied Botany Research Division, BCSIR Rajshahi  
Laboratories, Rajshahi, Bangladesh

### Research Botanist

July 2006 – June 2011

Applied Botany Research Division, BCSIR Rajshahi  
Laboratories, Rajshahi, Bangladesh

## Technical Skills and Competences

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**Research Skills:** Micropropagation, Bacterial culture, PCR, Mass Spectrometry, Data analysis

**Administrative Competence:** Project formulation, Procurement, and Office management.

## Research Grants (Selected)

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BCSIR (2024-26), Development of Effective Bioinsecticide for Mosquito Control

BCSIR (2022-24), Integrated Biocontrol of Mosquito

MOST-SAFST (2020-21), Bioremediation of environmentally hazardous tannery effluents by using *Chlorella*, *Arthrospira*, and *Scenedesmus* sp (ES-350)

MOST-SAFST (2022-23), Eco-friendly and sustainable mosquitocide from *Lysinibacillus*

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spp bacteria. (SRG-223439)

**MOST-SAFST (2023-24)**, Performance Evaluation of a Developed Bioreactor System for the Production of Annonaceous acetogenins (SRG-231176)

**BCSIR (2018-19)**, Isolation, purification and identification of beneficial fungi from rhizospheric soil of papaya and eggplants in and around Rajshahi metropolitan city

**BCSIR (2017-18)**, Antibacterial activity of plant extracts on poultry bourn antibiotic resistant bacteria

**BCSIR (2015-16)**, *In vitro* and conventional mass production of some important cut flowers - tuberose, gerbera, gladiolus, marigold and rose

**BCSIR (2014-15)**, Detection of potato viruses by real time PCR and development of virus elimination technologies (BCSIR 2014-15).

**MOST R&D (2013-14)**, Development of bioreactor system for plant tissue culture using local technology.

**BCSIR (2013-14)**, Artificial seed production and *in vitro* conservation of indigenous potato cultivars in Bangladesh.

**IBSc, Rajshahi University (2011-12)**, *In vitro* culture of *Solanum tuberosum* (L) in Bioreactor systems: Growth, development and production of microtubers.

**BCSIR (2010-2012)**, Micro-propagation and different product development from mulberry.

## **Publications (Selected)**

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Haque NN, Alam MA, Baidya, AS, Zenat EA, **Rahman MZ**, Roy CK, & Munshi, JL. (2024). Bioremediation Capacity of Indigenous Hydrophytes and Microalgae of Bangladesh: A Comparative Study on their Potential in Tannery Effluent Treatment. *Asian Journal of Environment & Ecology*, 23(6), 53–65. <https://doi.org/10.9734/ajee/2024/v23i6554>

Munshi JL, Baksha R, **Rahman MZ**, Huque NN, Zinat EA, & Momtaz N (2021). *In Vitro* Plant Regeneration from Leaf Explants of *Tagetes erecta* L. *Bangladesh Journal of Scientific and Industrial Research*, 56(2), 69–74. <https://doi.org/10.3329/bjsir.v56i2.54313>

**Rahman MZ**, Islam SMS, Chowdhury AN, & Subramaniam S (2018). Effect of Physical and Chemical Factors on Efficient *in vitro* Production of Microtuber Using Three Potato Genotypes in Bangladesh. *SKUAST Journal of Research*, 20(2), 139–144.

**Rahman MZ**, Islam SMS, Chowdhury AN and Subramaniam S (2017) Identification and prevention of microbial contaminants of potato culture in temporary immersion bioreactor (TIB) system. *Malaysian Journal of Microbiology*. 13(4): 289-297.

**Rahman MZ**, Islam SMS, Chowdhury AN, Subramaniam S. (2015) Efficient microtuber production of potato in modified nutrient spray bioreactor system. *Scientia Horticulturae*. 192: 369-374.

## **Conference Presentations**

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BCSIR Congress 2024 & 2022 (Oral)

International Plant Tissue Culture & Biotechnology Conference 2010, 2014 and 2016 (Oral)

## **Thesis Supervision**

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Supervised 5 (Five) M.Sc thesis on topics including Biocontrol, Bioremediation, Biomass production and Micropropagation (2010-26)

## **Professional Trainings**

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- Different Techniques of R&D Data Analysis and their Application, BCSIR Dhaka Labs, 26 June 2023.
- Ethics in Conducting Research and Development Activities, BCSIR Dhaka Labs, 07 November 2022
- Operating and maintenance of Liquid Chromatograph Mass Spectrometer (LC-MS), BCSIR Dhaka Laboratories, 28 February – 04 March 2021
- Basic Principle, Application, Operation, and Maintenance of HPLC, BCSIR Dhaka Laboratories, 26 January 2021
- Project Appraisal, E/A and formulation of DPP, National Academy for Planning and Development (NAPD)
- Preparing laboratory accreditation requirements and criteria based on ISO/IEC 17025:2005, BCSIR Labs, Rajshahi, 20-21 July 2014.
- RT-PCR Applications, BCSIR Labs, Rajshahi, 26-27 June 2014.
- Understanding laboratory accreditation requirements and criteria based on ISO/IEC 17025:2005, BCSIR Labs, Rajshahi, 03 April 2014.
- Toxicological analysis using LC-MS/MS and GC-MS, CAATS, Universiti Sains Malaysia, 3-7 February 2014.
- Business Analysis Using SPSS, Dept. of Marketing, University of Rajshahi. 11 July 2013

## **Awards**

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PhD Fellowship, Institute of Biological Sciences, University of Rajshahi, Rajshahi, Bangladesh (July 2011 – June 2012)

## **References**

Available upon request

*Last updated: Monday 23 February 2026*