

MST. MAYA KHATUN

maya2014pharmacy@gmail.com • +8801767244744 • Dhaka, Bangladesh

Research Pharmacologist, Pharmaceutical Sciences Research Division
BCSIR Dhaka Laboratories, Bangladesh Council of Scientific and Industrial Research (BCSIR)
Dhaka, Bangladesh

Personal Profile

- Research Pharmacologist at Pharmaceutical Sciences Research Division, Bangladesh Council of Scientific and Industrial Research (BCSIR).
- Working at BCSIR since May 2022.
- Date of Birth: 10 October 1995.

Education

Master of Pharmacy (M.Pharm) University of Rajshahi, Rajshahi, Bangladesh	2019
Bachelor of Pharmacy (Hons.) University of Rajshahi, Rajshahi, Bangladesh	2017

Professional Experience

Research Pharmacologist **May 2022 – Present**
Pharmaceutical Sciences Research Division, BCSIR Dhaka Laboratories Bangladesh Council
of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh

Research Projects

Project Leader

- Method Development and Validation of two International Nonproprietary Names (INN) drugs

Project Associate

- Isolation and Identification of Efflux Pump Inhibitors (EPIs) for Multi Drug Resistant Bacteria from Natural Sources
- Green Synthesis of Iron Oxide Nanoparticle for Enhanced Bioactivity Exploration and Environmental Pollution Remediation
- Method Development for quantification of Naproxen, Pantoprazole and Atorvastatin using low volume of biological matrix by LC-MS/MS

Publications (Selected)

1. Sultana, M. S., **Khatun, M.**, & Rahman, M. A. Antimicrobial Activities and Probiotic Properties of Bacillus sp. Strains Isolated from Fermented Cooked Rice. *Microbiology and Biotechnology Letters*, **2024**, 52(3).
2. **Khatun, M. M.**, Sarker, M. F., Hossain, M. H., Islam, M. T., Saha, B. K., Alam, S., Kibria, A. S. M. G., Murad, K., Hasan, J., Mouri, N. J., Hossain, A., Akter, R., et al. Assessment of protective effect of Vitamin E supplementation on oxidative damage of diabetic rat spleen induced by Streptozotocin. *Tissue and Cell*, **2024**, 91, 102605.

3. Sarkar, M. A. A. S. U., Saha, B. K., Kabir, M. A., Islam, M. T., **Khatun, M. M.**, & Siddik, M. N. A. Fatty acid profile, antioxidant capabilities and Physico-Chemical assessment of functional oils from safflower seeds: A potential source in Bangladesh. *Results in Chemistry*, **2025**, 15, 102235.
4. Mohammad, M., Mamun, M. J. I., Masum, M. A. A., Suma, K. J., **Khatun, M. M.**, Rasel, M. H., Haque, M. R., Rabbi, S. A. H., Hossain, M. H., Hasnat, H., Mahjabin, N., & Alam, S. A Multifaceted Exploration of Shirakiopsis indica (Willd) Fruit: Insights into the Neuropharmacological, Antipyretic, Thrombolytic, and Anthelmintic Attributes of a Mangrove Species. *Drugs and Drug Candidates*, **2025**, 4(3), 31.
5. Hayatullah, Mostafa, M. G., Rahman, M. A., Hossen, M. N., Lipy, E. P., Uddin, M. R., **Khatun, M. M.**, & Rahman, M. S. Toxicological Safety, Antimicrobial Efficacy, and Sensory Evaluation of River Sand-Derived Mica from Bangladesh: A Comprehensive Assessment for Cosmetic Applications. *Journal of Cosmetic Dermatology*, **2025**, 24, e70448.
6. Shahjahan, S., Ahmed, K. S., Khanum, S., Rupa, A. Z., Ethane, N. J., Kundu, P., **Khatun, M. M.**, Richi, F. T., Alam, S., & Hossain, M. H. Bioactivity and Phytochemical Characterization of Ceriops decandra (Griff.) Ding Hou. Leaves: HPLC-DAD Profiling, Antioxidant, Antimicrobial, and Antidiarrheal Potentials. *Chemistry & Biodiversity*, **2025**, 0, e01015.
7. Shandhi, S. P., Sikdar, K., Ahmed, S., **Khatun, M. M.**, & Nahar, A. GC-MS spectroscopic analysis of antimicrobial and antioxidant properties of Bangladeshi spice Piper chaba H. stems: a potential natural preservative for food. *Food Chemistry Advances*, **2025**, 9, 101127.

Professional Trainings

- R&D Data analysis with SPSS, BCSIR Laboratories, Dhaka 1 January 2025
- Operation and maintenance of Gas Chromatography Mass Spectrometer (GC-MS), BCSIR Laboratories, Chattogram 9-13 February 2025
- Basic principle, maintenance and troubleshooting of XRD, FTIR and Raman Spectroscopy, BCSIR Laboratories, Dhaka 21 May 2025
- Research Methodology and Publication, BCSIR Laboratories, Dhaka 26 May 2025
- Understanding of ISO 17025:2017- for Laboratory Accreditation, BCSIR Laboratories, Dhaka 27 May 2025
- Human Resource Development and Office Management, Institute of Energy Research and Development (IERD), Dhaka 19-23 November 2025
- Introduction to Python: Basic Programming and Data Analysis, BCSIR Laboratories Dhaka 5 November 2024
- Operation and maintenance of Preparative HPLC, BCSIR Rajshahi Laboratories 23-27 June 2024
- Basic Principle, Applications, Operation and Maintenance of HPLC, BCSIR Laboratories Dhaka 29 May 2024
- Getting Acquainted With R-An Introduction for smart Scientist, BCSIR Laboratories Dhaka 12 February 2024
- National Integrity Strategy, BCSIR Laboratories Dhaka 19 December 2023
- Omics Data Analysis: Concepts, Methods and Application, BCSIR Laboratories Dhaka 6 December 2023
- How to Write a Research Paper, BCSIR Laboratories Dhaka 7 November 2023
- UV-Visible Spectrophotometer & Ion chromatography, INARS, BCSIR, Dhaka 1-5 October 2023
- Chemical Inventory and Lab safety, BCSIR Laboratories Dhaka 20 September 2023
- High Performance Liquid Chromatography, IFST, BCSIR, Dhaka 7-11 May 2023

Professional Memberships

- Member of BCSIR Scientists Association

References

- Available upon request.

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