

MD. SAIFUL ISLAM

✉ saiful.du.phr.50@gmail.com, saifulislam@bcsir.gov.bd 📞 +8801751035574 📍 Dhaka, Bangladesh

Scientific Officer, Pharmaceutical Sciences Research Division
BCSIR Dhaka Laboratories, Dr. Kudrat-i-Khuda Road
Dhaka-1205, Bangladesh

Education

Master of Pharmacy (M.Pharm) in Pharmaceutical Chemistry 2019–2020
University of Dhaka, Dhaka, Bangladesh

Bachelor of Pharmacy (B.Pharm) 2014–2015
University of Dhaka, Dhaka, Bangladesh

Professional Experience

Scientific Officer June 2023 – Present
Pharmaceutical Sciences Research Division, BCSIR Dhaka Laboratories Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh

Lecturer February 2023 – June 2023
Department of Pharmacy, ASA University Bangladesh

Technical Skills and Competences

- **Nuclear Magnetic Resonance (NMR) Spectrometry:** Bruker Avance NEO 600 MHz
- **Mass Spectrometry:** LC-q-cIMS-TOF
- **Chromatography:** Preparative HPLC, Vacuum liquid chromatography (VLC), Column chromatography (CC)

Research Grants

Principal Investigator

- Metabolomic profiling of medicinal plants (2024–2026) BDT 7.0 Lac

Associate Investigator

- Morpho-molecular Identification and Biochemical Profiling of Endophytic Fungi (2024–2026) BDT 3.5 Lac
- Identification and bioactive potential of endophytic fungi (2024–2026) BDT 5.0 Lac
- Synthesis of Metformin and Naproxen as Active Pharmaceutical Ingredients (APIs) (2025–2027) BDT 10.0 Lac
- Phytochemical and Mycochemical Screening, Structural Elucidation and Cytotoxicity Assessment of Secondary Metabolites (2025–2027) BDT 15.0 Lac

Publications

1. Bhuiyan, R. H., Rahman, M. M., Billah, M. M., Ehsan, M. F., Akter, T., Hossain, M. S., Rashid, M. M., **Islam, M. S.**, & Ray, S. K. Bio-adsorbent for wastewater treatment: amination of green coconut husk waste-derived lignin for the removal of Congo red dye. *RSC Advances*, **2026**, 16(3), 2093-2111.
2. Sumaiya, R. Y., Chhanda, S. A., Wasif, A., Zohora, F. T., Akhter, K., **Islam, M. S.**, Uddin, N., & Halim, M. E. Binary and Ternary metal complexes of Sal-OAPH2 ligand derived from o-Aminophenol and Salicylaldehyde: Synthesis, Spectral, Antimicrobial and Conductometric Studies. *Journal of Molecular Structure*, **2025**, 145000.
3. Karim, M. R., Hossain, M. S., **Islam, M. S.**, Hossen, M. R., & Ali, M. S. Exploration of Hypoglycemic, Analgesic, Antidiarrheal, and Antioxidant Properties of the Methanolic Extract of the Stems of *Gymnema inodorum* (Lour.) Decne. *Dhaka University Journal of Pharmaceutical Sciences*, **2025**, 24(1).
4. Karim, M. R., Hosen, M. R., Shamim, M., Hossain, M. A., **Islam, M. S.**, & Mizanur, M. Unveiling antidiarrheal, analgesic, and antioxidant activities of *Moringa oleifera* (Lam.) flower extract via in vivo and in vitro approaches. *Journal of Bioscience and Environment Research*, **2025**, 2(2), 10-15.
5. Rakhi, S. A., **Islam, M. S.**, Kuddus, M. R., Sarkar, M. R., & Ahmed, F. Antioxidant and thrombolytic activities of *Crinum asiaticum* L. *Bangladesh Journal of Scientific and Industrial Research*, **2024**, 59(4), 191-194.
6. Rakhi, S. A., Hara, Y., **Islam, M. S.**, Manome, T., Alam, S., Emon, N. U., Al-Mansur, M. A., Kuddus, M. R., Sarkar, M. R., Ishibashi, M., & Ahmed, F. Isolation of bioactive phytochemicals from *Crinum asiaticum* L. along with their cytotoxic and TRAIL-resistance abrogating prospect assessment. *Heliyon*, **2024**, 10(3).
7. Rahman, T., **Islam, M. S.**, Paul, S., Islam, M. M., Samadd, M. A., Reyda, R. N., & Sarkar, M. R. Prescription patterns in an intensive care unit of COVID-19 patients in Bangladesh: A cross-sectional study. *Health Science Reports*, **2023**, 6(11), e1711.
8. **Islam, M. S.**, Al-Monsur, M. A., Rakhi, S. A., Sarkar, M. R., Kuddus, M. R., & Ahmed, F. Antioxidant, thrombolytic, cytotoxic and antibacterial activities of leaves of *Vitex peduncularis*. *Bangladesh Journal of Scientific and Industrial Research*, **2022**, 57(4), 239-246.
9. Prattay, K. M. R., Sarkar, M. R., Shafiullah, A. Z. M., **Islam, M. S.**, Raihan, S. Z., & Sharmin, N. A retrospective study on the socio-demographic factors and clinical parameters of dengue disease and their effects on the clinical course and recovery of the patients in a tertiary care hospital of Bangladesh. *PLoS Neglected Tropical Diseases*, **2022**, 16(4), e0010293.

Professional Memberships

- Member of BCSIR Scientists Association

References

- Available upon request.

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