

MD. SAKHAWAT HOSSAIN

✉ sakhawat.du11@gmail.com 📞 +8801737507075 📍 Dhaka, Bangladesh

Google Scholar ResearchGate

Scientific Officer, Pharmaceutical Sciences Research Division

BCSIR Dhaka Laboratories, Bangladesh Council of Scientific and Industrial Research (BCSIR)
Dhaka, Bangladesh

Research Interest

- Medicinal Chemistry and Drug Discovery
- Natural Product Chemistry
- Synthetic Chemistry
- Pharmacology
- Toxicology
- Targeted Drug Delivery
- Analytical Chemistry

Academic Credential

Master of Pharmacy in Pharmaceutical Chemistry **2016–2017**

University of Dhaka, Bangladesh *CGPA: 3.89 out of 4.00 (WES evaluated CGPA: 3.96)*

Bachelor of Professional Pharmacy (5 years) **2011–2015**

University of Dhaka, Bangladesh *CGPA: 3.45 out of 4.00 (WES evaluated CGPA: 3.52)*

Professional Experience

Scientific Officer **November 2021 – Till Now**

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

Senior Lecturer **March 2021 – October 2021**

Department of Pharmacy, Daffodil International University, Dhaka, Bangladesh

Lecturer **July 2018 – February 2021**

Department of Pharmacy, Daffodil International University, Dhaka, Bangladesh

Research Experience

R&D Projects

- Isolation of bioactive compounds from the leaves of *Heptapleurum hypoleucum* and assessment of their pharmacological potentiality
- Synthesis of metformin and naproxen as Active Pharmaceutical Ingredients (APIs)

M.Pharm. Thesis

- Phytochemical and Biological Investigations of *Curcuma amada* Leaves

B.Pharm. Project

- Causes of Surgical Site Infection (SSI) in Post-Operative Care and Its Management in the Surgery Department of Dhaka Medical College and Hospital

Publications

1. Sultana, T., Ashrafi, S., Das, S., **Hossain, M.S.**, Ahsan, M., Azam, A.Z. Isolation of Flavonoids and a Triterpene Ester with Potential Bioactivity from *Ludwigia octovalvis* (Jacq.) PH Raven (Onagraceae) Leaves. *Dhaka University Journal of Pharmaceutical Science*, **2024**, 23(2).
2. Islam, M.R., **Hossain, M.S.**, Hossain, M.S., Islam, M.T., Sultana, S., Nizhum, N., et al. Quality Assessment of Hydroxychloroquine Tablet: A Comparative Evaluation of Drug Produced by Different Pharmaceutical Companies in Bangladesh. *Progress In Microbes & Molecular Biology*, **2023**, 6(1).
3. Sultana, S., Rahman M.M., Aovi, F.I., Jahan, F.I., **Hossain M.S.**, Brishti, S.A., et al. Food Color Additives in Hazardous Consequences of Human Health: An Overview. *Current Topics in Medicinal Chemistry*, **2023**, 23(14).
4. Muzahid, A.A., Sharmin, S., **Hossain, M.S.**, Ahamed, K.U., Ahmed, N., Yeasmin, M.S., et al. Analysis of bioactive compounds present in different crude extracts of *Benincasa hispida* and *Cucurbita moschata* seeds by gas chromatography-mass spectrometry. *Heliyon*, **2022**, 9(1).
5. Islam, M.R., Nahar, Z., **Hossain, M.S.**, Hossain, M.J., Shahriar, M., Islam, S.M.A., & Bhuiyan, M.A. Prevalence and associated factors for elevated fear and depressive symptoms among the private service holders in Bangladesh during the Covid-19 pandemic: A cross-sectional study. *Health Science Reports*, **2022**, 5(5).
6. **Hossain, M.S.**, Islam, M.R., Islam, M.T., Islam, R., Khan, M.R., Saha, T., Hossain, M.J., & Bhuiyan, M.A. Knowledge, acceptance and perception about COVID-19 vaccines in Bangladesh: Findings from a web-based cross-sectional study. *Open Health*, **2022**, 3(1).
7. **Hossain, M.S.**, Rahaman, M.M., Rahman, M.A., Uddin, J., & Ahmed, F. Phytochemical and Biological Investigation of *Curcuma amada* Leaves. *Dhaka University Journal of Pharmaceutical Science*, **2020**, 19(1).
8. Akter, A., Begh, A.Z.M., Islam, F., Afroz, T., **Hossain, M.S.**, Faisal, M., & Rahman, M.M. Phytochemical Screening and Evaluation of Thrombolytic, Analgesic and Antidiarrhoeal Activity of the Leaves of *Cucumis sativus* Linn. (Cucurbitaceae) of Methanolic Extracts. *Journal of Pharmaceutical Sciences and Research*, **2020**, 12(3).
9. **Hossain, M.S.**, Islam, R., Sultana, S., Rahman, M.H., Bhowmick, A., Zohra, F.T., & Saha, T. Investigation of Thrombolytic and Antioxidant Potentials of *Centella asiatica*. *Galore International Journal of Health Sciences and Research*, **2018**, 3(4).
10. Saha, T., Masum, Z.U., Mondal, S.K., **Hossain, M.S.**, Jobaer, M.A., Shahin, R.I., & Fahad, T. Application of Natural Polymers as Pharmaceutical Excipients. *Global Journal of Life Sciences and Biological Research*, **2018**, 4(1).

Conference Participation

- Oral presentation titled "Evaluation of in vitro thrombolytic, antioxidant and antimicrobial activities of *Heptapleurum hypoleucum* Kurz leaves" at BCSIR Congress-2023, Dhaka, Bangladesh 8–10 March 2024
- Poster presentation on "Evaluation of Phytochemicals, Thrombolytic, Anti-diabetic and Anthelmintic Activities of *Euphorbia tirucalli* L. Leaves" at BCSIR Congress-2022, Dhaka, Bangladesh 1–3 December 2022
- Oral presentation on "Present Scenario and Future Prospects of Hospital Pharmacy Practice in Bangladesh to Ensure Sustainable Health Service" at International Conference on Environmental Protection for Sustainable Development (ICEPSD)-2022, Dhaka, Bangladesh 2–4 September 2022

Professional Training

- In-plant training at Incepta Pharmaceuticals Limited, Bangladesh 28 February – 20 March 2015
- Internship as hospital pharmacist at Dhaka Medical College and Hospital, Dhaka 1 July – 31 December 2015

- Operation and maintenance of Gas Chromatography-Mass (GC-MS) Spectrometer, BCSIR, Dhaka, Bangladesh 11–15 February 2024
- Basic 1D & 2D NMR, Advanced NMR, and Protein NMR, Bruker Switzerland AG, Zurich, Switzerland 11–22 March 2024
- Operation and maintenance of Atomic Absorption Spectrometer (AAS), BCSIR, Dhaka, Bangladesh 5–9 January 2025

Skills

Laboratory Skills and Competencies

- NMR, FTIR, GC-MS, AAS, UV-Visible spectroscopy
- Column chromatography, TLC
- Mice handling

English Proficiency

- IELTS overall band score – 7.0 (L: 7.5, R: 6.5, S: 6.5, W: 6.5)

Soft Skills

- Microsoft Office Package, GraphPad Prism, SPSS, Mendeley, EndNote

Awards and Recognitions

- Best Oral Presenter Award for the presentation titled "Present Scenario and Future Prospects of Hospital Pharmacy Practice in Bangladesh to Ensure Sustainable Health Service" at the International Conference on Environmental Protection for Sustainable Development (ICEPSD)-2022, Dhaka, Bangladesh
- Director General's Award for securing 2nd position in '21st special foundation training course for government officers' at National Academy for Planning Development (NAPD), Dhaka, Bangladesh
- Awarded NST-Fellowship from Ministry of Science and Technology, Government of the People's Republic of Bangladesh 2017
- Trainer on "Operation and maintenance of Nuclear Magnetic Resonance (NMR) Spectrometer" at BCSIR, Dhaka, Bangladesh

Extracurricular Activities

- Member of Pharmacy Golden Jubilee Celebration, University of Dhaka, Dhaka
- Sports advisor in the Department of Pharmacy, Daffodil International University
- Member of scientific subcommittee in BCSIR Congress of 2022 and 2023
- Organizer for science fair at BCSIR, Bangladesh

Declaration

I hereby declare that the information provided in this resume is accurate and complete to the best of my knowledge. I understand that any false information or misrepresentation may lead to the rejection of my application and can be subjected to legal measures.

Md. Sakhawat Hossain
February 26, 2026

Last Updated: Thursday 26th February, 2026