

SAIMA MOLLICK

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Scientific Officer, Pharmaceutical Sciences Research Division

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

Education

Master of Pharmacy in Clinical Pharmacy and Pharmacology **2014**
University of Dhaka, Dhaka, Bangladesh

Bachelor of Pharmacy **2013**
University of Dhaka, Dhaka, Bangladesh

Professional Experience

Scientific Officer **October 2018 – Present**
Pharmaceutical Sciences Research Division, BCSIR Dhaka Laboratories Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh

Lecturer **June 2017 – October 2018**
Northern University Bangladesh

Technical Experiences

- Experienced in operating sophisticated analytical instruments and laboratory techniques including LC-MS/MS, HPLC, UV-Vis Spectrophotometry, IR Spectrophotometry, GC-MS/MS
- Skilled in pharmaceutical quality control instruments including Dissolution Test Apparatus, Disintegration Test Apparatus, Tablet Friability Tester, and Hardness Tester
- Proficient in handling general laboratory equipment such as pH meter, Centrifuge, and Rotary Vacuum Evaporator
- Completed training program on sophisticated instruments like DNA Sequencer, Conventional PCR, RT-PCR, Particle size analyzer, TGA, DSC etc.

Research and Development Projects (Selected)

Principal Investigator

- Assessment of antibiotic susceptibility pattern of pathogens responsible for common infectious diseases (July 2024 – June 2026)
- Identification of endophytic fungi by amplicon sequencing-based molecular characterization (July 2021 – June 2023)

Associate Investigator

- Method Development for quantification of Naproxen, Pantoprazole and Atorvastatin using low volume of biological matrix by LC-MS/MS (July 2024 – June 2026)
- Formulation of hemorrhoid healing herbal supplements (July 2024 – June 2026)
- Method Development and validation of two International Non Proprietary names (INN) drugs (July 2024 – June 2026)
- Identification of Pharmacophore of isolated bioactive compounds and their structure activity relationship (SAR) study (July 2019 – June 2023)
- Isolation of bioactive metabolites from Marine Weeds and Sponges as well as their associated symbiotic Fungi (July 2016 – June 2021)

Publications (Selected)

1. **Mollick, S.**, Hasnain, M.J., Islam, M.S. and Dasgupta, T. Prevalence and Characterization of Pathogens Responsible for Enteric Fever and Assessment of Their Antibiotic Susceptibility Pattern in Bangladesh. *Pharmacology & Pharmacy*, **2024**, 15(9), 303-313.
2. Shimu, S. N., **Mollick, S.**, Zinnurine, R., Haq, M. A., Chowdhury, S. A., Parvin, M. N., & Sohrab, M. H. Isolation of three metabolites from the plant *Cajanus cajan* (L.) Huth and evaluation of antibacterial and cytotoxic potentials of extract of *Cajanus cajan* (L.) Huth available in Bangladesh. *Bangladesh Journal of Scientific and Industrial Research*, **2025**, 60(1), 1–8.
3. Afroz, F., Moni, F., Sharmin, S., **Mollick, S.**, Rony, S. R., Masum, S. M., & Sohrab, M. H. Development and Validation of Simple and Convenient UV Spectrophotometric Methods of Trimetazidine in Five Different Solvent Systems. *The Scientific World Journal*, **2025**, 2025(1), 9262176.
4. Ahmed, N., Tabassum, N., Rashid, P.T., Deea, B.J., Richi, F.T., Chandra, A., Agarwal, S., **Mollick, S.**, Dipto, K.Z., Mim, S.A. and Alam, S. Clitoria ternatea L. (Butterfly Pea) Flower Against Endometrial Pain: Integrating Preliminary In Vivo and In Vitro Experimentations Supported by Network Pharmacology, Molecular Docking, and Molecular Dynamics Simulation Studies. *Life*, **2024**, 14(11), p.1473.
5. Moni, F., Sharmin, S., Shahinuzzaman, A. D. A., Rony, S. R., **Mollick, S.**, Uddin, M. N., & Sohrab, M. H. Development and Validation of a Bioanalytical Method for the Quantification of Aceclofenac in a Small Volume of Human Serum by RP-HPLC. *Journal of Analytical Chemistry*, **2023**, 78(3), 344-351.

Conference Presentations (Selected)

- **Oral Presentations:** BCSIR Congress 2023 & 2022

Honors & Awards

- NST Fellowship (2013–2014)

Professional Memberships

- Registered Pharmacist, Pharmacy Council of Bangladesh
- Member, Dhaka University Pharmacy Alumni Association (DUPAA)
- Member, BCSIR Scientists Association

References

- Available upon request.

Last Updated: Friday 6th March, 2026