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Dhaka, Bangladesh

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

Academic Qualifications

Master of Pharmacy in Pharmaceutical Chemistry **2010**
University of Dhaka, Dhaka, Bangladesh *Thesis: Chemical and Biological Investigations of Crotalaria incana (L.)*

Bachelor of Pharmacy
University of Dhaka, Dhaka, Bangladesh

Professional Experience

Senior Scientific Officer **July 2015 – November 2020**
Pharmaceutical Sciences Research Division, Bangladesh Council of Scientific and Industrial Research (BCSIR) Dhaka, Bangladesh

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

Product Development Officer
Aristopharma Ltd., Shyampur, Kadamtoli, Dhaka, Bangladesh

Technical Experiences

- Experienced in operation of different sophisticated instruments/techniques like LC-MS/MS, Analytical HPLC, Preparative HPLC, UPLC, UV-VIS spectrophotometry, IR spectrophotometry, NMR, GC-MS/MS, RT-PCR, Conventional PCR, pH meter, Shaking Incubator, Centrifuge, Rotary Vacuum Evaporator, Dissolution and Disintegration test apparatus, Tablet Friability tester, Hardness tester.
- Completed training program on some sophisticated instruments like Affinity Chromatography, DNA Sequencer, Raman Spectroscopy, Particle size analyzer, ELISA Plate Reader, TGA etc.

Research and Development Projects (Selected)

Principal Investigator

- Method Development for quantification of Naproxen, Pantoprazole and Atorvastatin using low volume of biological matrix by LC-MS/MS (July 2024 – June 2026)
- Bioanalytical method development and validation of some Non-steroidal Anti-inflammatory (NSAID) drugs (July 2020 – June 2021)
- Analytical method development for determination of drugs in blood samples (July 2016 – June 2020)

Associate Investigator

- Assessment of antibiotic susceptibility pattern of pathogens responsible for common infectious diseases (July 2024 – June 2026)
- In Vivo Efficacy and ADMET (Absorption, Distribution, Metabolism, Excretion, and Toxicity) Evaluation of anti-microbial compounds isolated from different endophytic fungi (July 2023 – June 2024)
- Metabolite profiling and bioassay correlation of *Vitex* sp. and *Persicaria* sp. for isolation of natural anticancer agent (July 2022 – June 2024)
- Development of dissolution, analytical and bioanalytical method development and validation of Trimetazidine Hydrochloride INN drug (July 2018 – June 2020)
- Isolation of bioactive metabolites from Marine Weeds and Sponges as well as their associated symbiotic Fungi (July 2016 – June 2021)
- Chemical exploration and value addition in bioactive molecules isolated from medicinal plants and their associated endophytic fungi (July 2015 – June 2018)

Publications (Selected)

1. 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.
2. **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, 344-351.
3. **Moni, F.**, Saifullah, N., Afroz, F., Rony, S. R., Sharmin, S., Shahinuzzaman, A. D. A., Al-Mansur, M. A., Al-Reza, S. M., & Sohrab, M. H. Antibacterial and Cytotoxic Compounds from Endophyte *Fusarium solani* isolated from *Centella asiatica* (L.). *Journal of Biologically Active Products from Nature*, **2022**, 12(5), 436-449.
4. **Moni, F.**, Sharmin, S., Rony, S. R., Afroz, F., Akhter, S., & Sohrab, M. H. Bioanalytical method validation of Esomeprazole by high performance liquid chromatography with PDA detection. *Acta Chromatographica*, **2021**, 33(2), 120-126.
5. Afroz, F., **Moni, F.**, Sharmin, S., Rony, S. R., Afroz, F., Masum, S., & Sohrab, M. H. Efficacy of Liquid-Liquid Extraction and Protein Precipitation Methods in Serum Sample Preparation for Quantification of Fexofenadine in Human Serum. *Acta Pharmaceutica Scientia*, **2022**, 60(3), 273-293.
6. Samapti, M. M. S., Afroz, F., Rony, S. R., Sharmin, S., **Moni, F.**, Akhter, S., Ahmed, S. F. U., & Sohrab, M. H. Isolation and Identification of Endophytic Fungi from *Syzygium Cumini* Linn and Investigation of Their Pharmacological Activities. *The Scientific World Journal*, **2022**, 9529665, 1-10.
7. Hoque, N., Sohrab, M. H., Afroz, F., Rony, S. R., Sharmin, S., **Moni, F.**, Hasan, C. M., & Rana, M. S. Cytotoxic metabolites from *Thysanolaena maxima* Roxb. available in Bangladesh. *Clinical Phytoscience*, **2020**, 6, 89.
8. Mahmud, S. M. N., Sohrab, M. H., Begum, M. N., Rony, S. R., Sharmin, S., **Moni, F.**, Akhter, S., Mohiuddin, A. K. M., & Afroz, F. Cytotoxicity, antioxidant, antimicrobial studies and phytochemical screening of endophytic fungi isolated from *Justicia gendarussa*. *Annals of Agricultural Sciences*, **2020**, 65(2), 225-232.
9. Sharmin, S., Sohrab, M. H., **Moni, F.**, Afroz, F., Rony, S. R., & Akhter, S. Simple RP-HPLC method for Aceclofenac quantitative analysis in pharmaceutical tablets. *Pharmacia*, **2020**, 67(4), 383-391.
10. Lini, I. F., Afroz, F., Begum, N., Rony, S. R., Sharmin, S., **Moni, F.**, & Sohrab, M. H. Identification and bioactive potential of endophytic fungi from marine weeds available in the coastal area of Bangladesh. *International Journal of Pharmaceutical Sciences and Research*, **2020**, 11(3), 1249-1257.
11. Khan, N., Afroz, F., Begum, M. N., Rony, S. R., Sharmin, S., **Moni, F.**, Hasan, C. M., Shaha,

- K., & Sohrab, M. H. Endophytic *Fusarium solani*: A rich source of cytotoxic and antimicrobial Naphthaquinone and Aza-anthraquinone derivatives. *Toxicology Report*, **2018**, 5, 970-976.
12. Azam, A. T. M., **Moni, F.**, Hamiduzzaman, Md., Masud, M. M., & Hasan, C. M. Two Cinnamoyl triterpenes and Steroides from *Crotalaria incana* (Fabaceae). *Research Journal of Phytochemistry*, **2013**, 7(1), 1-9.

Conference Presentations (Selected)

- Bioactive potential of the medicinal plant *Launaea asplenifolia*. Oral presentation at BCSIR CONGRESS-2022, BCSIR, Dhaka 1-3 December 2022
- Bioanalytical method development and validation for determination of Esomeprazole in human plasma by using RP-HPLC. Poster presented at 1st International Conference on Biological and Environment Research (ICBER 2018), Jessore University of Science & Technology (JUST), Jessore 16-17 September 2018
- Studies on chemical composition and bioactivity of an endophytic fungus of *Centella asiatica* (L.) urban. Poster presented at 38th Annual Conference of Bangladesh Chemical Society, Chittagong Region, Bangladesh 31 March 2017

Honors & Awards

- Junior Scholarship (Class: VIII) 1999
- Primary Scholarship (Class: V) 1996
- Board Scholarship for Secondary School Certificate result 2002-2004

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: Tuesday 24 February, 2026