

MD. NAJEM UDDIN

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Scientific Officer, Pharmaceutical Sciences Research Division

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

Research Interest

- Drug discovery & design, Pharmaceutics, Medicinal chemistry, Cancer therapeutics, Pharmacology and Toxicology, Analytical chemistry, Biomedical sciences, Molecular & cell biology

Education

Master of Pharmacy (Thesis) **2012-2013**

University of Rajshahi, Rajshahi, Bangladesh *Earned 40 Credits, GPA 3.75 out of 4.00 (2nd position), (WES evaluated GPA: 3.89/4.00)*

Bachelor of Pharmacy (Honours) **2008-2012**

University of Rajshahi, Rajshahi, Bangladesh *Earned 160 Credits with cGPA 3.61 out of 4.00, (WES evaluated cGPA: 3.72/4.00)*

Professional Experience

Scientific Officer **2018 – Present**

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

Lecturer **2016-2018**

Department of Pharmacy, Varendra University, Rajshahi, Bangladesh

Executive, Production Department **2015-2016**

Tablet formulation section, SQUARE Pharmaceuticals Ltd., Pabna, Bangladesh

Lecturer **2014-2015**

TMSS Medical Technology Institute, Bogura, Bangladesh

Academic Research Experience

Graduate Research Assistant **2013**

Dissertation Title: Current trend of antibiotic resistance in Proteus isolates of UTI patients: Polyphenols of Tamarindus indica bark robustly inhibits Proteus toxin mediated hemolysis *Supervisor: Dr. Aktar Uzzaman Chouduri, Professor, Department of Pharmacy, University of Rajshahi*

Undergraduate Research Assistant **2011**

Dissertation Title: Quality evaluation of some generic drugs in Bangladesh market *Supervisor: Dr. Ranjan Kumar Barman, Professor, Department of Pharmacy, University of Rajshahi*

Professional Research Experience

- Development and validation bio-analytical methods for generic drugs quantification using LC-MS/MS (2014–Present)
- Performing impurity profiling, assay, identification, and purity method development for various pharmaceutical dosage forms
- Isolation and characterization of natural bioactive molecules with anti-cancer properties
- Development of novel biomaterials for biomedical applications
- Synthesis of APIs derivatives
- Cell culture techniques

Ongoing Research Projects

- Formulation development and LC-MS/MS based bio-analytical method development and validation for quantification of Rifampicin in human plasma for pharmacokinetic applications

Publications

- Publication list available at: Google Scholar - Md. Najem Uddin

Instrument Skills

- **Analytical Equipment:** LC-MS/MS (SCIEX and Waters), High resolution mass spectrometry (Waters), HPLC (Waters), GC-MS (Waters), Preparative HPLC (Shimadzu), GC-MS/MS (Agilent) with advanced software.

Professional Training

- Comprehensive hands-on Training on the Operation, and data analysis of LC-MS/MS with MassLynx Software 2023
- Advanced hands-on Training on LC-MS/MS method development and data processing using SCIEX OS workstation, BCSIR, Dhaka 2023
- Technical training on HPLC/UPLC with Empower3 workstation, WATERS Corporation 2022
- Comprehensive training on GC-MS/MS with MassHunter workstation, Agilent Corporation 2022
- Technical training on HVAC systems and operations, Geoclima Asia Co. Ltd., Thailand 2022
- R&D management at Council of Scientific and Industrial Research (CSIR), India 2021
- Industrial internship at Incepta Pharmaceuticals Ltd., Bangladesh 2013

Major Subjects Studied

Graduate Level

- Analytical Chemistry, Medicinal Chemistry, Pharmacology, Toxicology, Molecular Biology, Biopharmaceutics and Pharmacokinetics, Pharmaceutical Technology

Undergraduate Level

- Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Biochemistry, Medicinal Chemistry, Microbiology, Immunology, Molecular Biology, Biotechnology, Pharmacology, Physiology, Spectroscopy, Biopharmaceutics, Pharmaceutical Analysis, Pharmaceutical Engineering & Technology, Statistics and Computer Science

Grants and Certifications

- Research grant from Ministry of Science and Technology (MoST), Bangladesh on evaluation of Polyphenols from Tamarindus indica bark as potential antiurolithiatic agents for infection-induced kidney stone prevention 2025
- National Science and Technology Fellowship from Ministry of Science and Technology, Bangladesh on Graduate research project 'Antibiotic susceptibility patterns in uropathogen isolates from patients with urinary tract infection in Bangladesh' 2024
- Registered member of Scientist association, BCSIR 2018
- Registered Pharmacist from Pharmacy Council of Bangladesh (Reg. No. A-11082) 2016
- In Plant training certificate from Incepta Pharmaceuticals Ltd., Bangladesh 2013
- Bangladesh Education Board scholarships 2007

Professional Memberships

- Registered Pharmacist, Pharmacy Council of Bangladesh
- Member of BCSIR Scientists Association

References

- Available upon request.

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