

## *Curriculum vitae*

### **Nusrat Jahan Mouri**

BCSIR Chattogram Laboratories R/A, Chattogram Cantonment

Phone: +8801823803106, Email: nujah.mou@gmail.com

#### **CURRENT RESEARCH POSITION**

Senior Scientific Officer (2020-present), Scientific Officer (2013-2019), Pharmacology Research Division, Bangladesh Council of Scientific and Industrial Research (BCSIR), Chattogram 4220, Bangladesh.

#### **EDUCATION**

1. Master of Science (M.S.): Biotechnology, University of Science and Technology Chittagong, 2011.
2. Bachelor of Science (B.S.): Biochemistry & Biotechnology, University of Science and Technology Chittagong, 2010.

#### **PUBLICATIONS**

1. *Nyctanthes arbor-tristis* Linn.: A Review on its Traditional Uses, Phyto-chemistry, Pharmacological Activities, and Toxicity. Antica Barua, Md. Junaid<sup>2</sup>, Tahmida Shamsuddin, Muhammad Shaiful Alam<sup>1</sup>, **Nusrat Jahan Mouri**, Rasheda Akter, Tania Sharmin and S.M. Zahid Hosen. *Current Traditional Medicine*, Bentham Science. August, 2022. doi: 10.2174/2215083808666220512141937.
2. GreenMolBD: Nature Derived Bioactive Molecules' Database. Hosen SMZ, Junaid M, Alam MS, Rubayed M, Dash R, Akter R, Sharmin T, **Mouri NJ**, Moni MI, Khatun M, Mostafa M. *Medicinal Chemistry*. 2021 Nov 28. doi:10.2174/1573406418666211129103458. PMID: 34844546.
3. *Adhatoda vasica* (Nees.): A Review on Its Botany, Traditional Uses, Phytochemistry, Pharmacological Activities and Toxicity. Shamsuddin T, Alam MS, Junaid M, Akter R, Hosen SMZ, Ferdousy S, **Mouri NJ**. *Mini Rev Med Chem*. 2021; 21(14):1925-1964. doi: 10.2174/1389557521666210226152238. PMID: 33634759.
4. Natural Hydroxycinnamic Acid Derivatives to Inhibit Cyclooxygenase-2 for Colorectal Cancer: Bridging Molecular Docking to Molecular Dynamics. Nahrin A, Junaid M, Afrose SS, Alam MS, Akter Y, Sharmin T, **Mouri NJ**, Hosen SMZ. *Proceedings of International Conference on Drug Discovery (ICDD)*. 2020. Available at SSRN: <https://ssrn.com/abstract=3530298>
5. *Brassica oleracea* var. capitata f. alba: A Review on Its Botany, Traditional Uses, Phytochemistry and Pharmacological Activities. Ray LR, Alam MS, Junaid M, Ferdousy S, Akter R, Hosen SMZ, **Mouri NJ**. *Mini Rev Med Chem*. 2021 Jan 11. doi: 10.2174/1389557521666210111150036. PMID: 33430729.
6. In vitro Micropropagation of *Jasminum grandiflorum* L. Rahman MS, **Mouri NJ**, Nandi NC, Akter S and Khan MS. *Bangladesh Journal of Science and Industrial Research*. 2018; 53(4):277-282. doi:10.3329/bjsir.v53i4.39191
7. In silico ADME/T and 3D QSAR Analysis of KDR Inhibitors. Hosen SMZ, Dash R, Khatun M, Akter R, Bhuiyan MHR, Karim MR, **Mouri NJ**, Ahamed F, Islam KS, Afrin S. *Journal of Applied Pharmaceutical Science*. 2017; 7(1):120-128. doi:10.7324/JAPS.2017.70116
8. Vertical Distribution of AM Colonization and Relationship with Soil Properties in Medicinal Plants of BCSIR Reserve Forest Chittagong, Bangladesh. Halder M, Samina Akhter S, **Mouri NJ**, Rahman MS. *Bangladesh Journal of Botany*. 2016; 45(1):117-125.
9. Antidiabetic and Antidiarrhoeal Potentials of Ethanolic Extracts of Aerial Parts of *Cynodon dactylon* Pers. Rahman MS, Akter R, Mazumdar S, Islam F, **Mouri NJ**, Nandi NC, Mahmud ASM. *Asian Pacific Journal of Tropical Biomedicine*. 2015; 5(8):658–662. doi:10.1016/j.apjtb.2015.04.011.

10. Effect of Iron Dust on Arsenic Accumulation and Nutrient Status of *Ipomoea aquatica* Grown in Arsenic Contaminated Soil. Halder M, Mahmud ASM, Amin MS, Rabbi SMF, Islam F, Rahman MS, Nandi NC, **Mouri NJ**, Ray S, Joardar JC. *Research Journal of Soil Biology*. 2014; 6(1):17-24. doi:10.3923/rjsb.2014.17.24

## **RESEARCH TRAININGS**

1. Virtual Screening in Structure Based Drug Discovery, December 2018.
2. Advanced Training on Next Generation Drug Discovery, April 2017.
3. Operating System Maintenance of Ultra-Fast Liquid Chromatography, February 2016.
4. Operating System Maintenance of Particle Size Analyzer, October 2015.
5. Operating System Maintenance of High-Performance Liquid Chromatography, March 2014.

## **TECHNICAL SKILLS**

1. Animal experiments: Mice and rat handling, oral gavaging, injecting, euthanizing and tissue collection and processing.
2. Molecular biology: DNA and RNA purification, quantification, PCR and RT-PCR, gel electrophoresis; protein extraction and western blotting.
3. Microbiology: Microbial culture techniques, molecular identification of microbes.
4. Analytical chemistry: High performance liquid chromatography (HPLC) and ultra-fast liquid chromatography (UFLC).
5. Molecular modeling software for drug designing: BIOVIA Draw, Chimera, Discovery Studio.

## **TEACHING EXPERIENCE**

1. Basic Theory and Overview of Structure Based Drug Design, Undergraduate and Graduate Students, Molecular Modeling and Drug Design Laboratory, BCSIR Laboratories Chittagong, April 2019.
2. Computational Approach to Hit Identification and Characterization, Undergraduate and Graduate Students, Molecular Modeling and Drug Design Laboratory, BCSIR Laboratories Chittagong, April 2019.

## **RESEARCH SUPPORT**

1. *Project title:* Database development of nature derived molecules for rational drug discovery in Bangladesh.  
*Funded by:* BCSIR Research and Development (2017-2023).  
*Role:* Principal Investigator.
2. *Project title:* Inhibitory effects of common medicinal plant extract on dental plaque forming bacteria and the production of herbal toothpaste.  
*Funded by:* BCSIR Research and Development (2020-2022).  
*Role:* Principal Investigator.
3. *Project title:* Isolation and structure elucidation of bioactive constituents from endophytic fungi of a local medicinal plant *Blumea lacera* with antidiabetic potential.  
*Funded by:* BCSIR Research and Development (2017-2021).  
*Role:* Research Associate.