

Fahad Imtiaz Rahman

9/1 & 9/2, Road 01, Shyamoli,
Dhaka-1207, Bangladesh
[Google Scholar Profile](#) | [ResearchGate](#)



Contact No. +8801670410991
Email: fahad@du.ac.bd (Work)
fahad.du46@gmail.com (Personal)



ACADEMIC BACKGROUND

- **Master of Pharmacy** | July 2015 - June 2016
University of Dhaka | *Major*: Clinical Pharmacy and Pharmacology
CGPA **4.00/4.00** (Placed 1st in class)
- **Bachelor of Pharmacy** | July 2010 - June 2015
University of Dhaka | *Major*: Pharmaceutical Sciences
CGPA **3.95/4.00** (Placed 1st in class)
- **Higher Secondary Certificate** | Passing Year 2010
Notre Dame College | Dhaka Board (Science)
GPA 5.00 (out of 5.00)
- **Secondary School Certificate** | Passing Year 2008
St. Joseph Higher Secondary School | Dhaka Board (Science)
GPA 5.00 (out of 5.00)

RESEARCH INTERESTS

- **Medicinal chemistry**: Mastering advanced methods and approaches of discovering new therapeutic molecules.
- **Computational biology**: Learning advanced molecular docking and structure optimization techniques to understand the pharmacodynamics of potential lead compounds by predicting drug-receptor interactions.
- **Cell Biology/ Chemical Physiology**: Utilizing sophisticated cell culture techniques and analyzing chemical physiology for researching cancer, Alzheimer, cardiovascular diseases etc.
- **Pharmacology and Toxicology**: Performing pharmacological and toxicological assay of potential lead compounds using various *in vitro* cellular models and *in vivo* animal models.
- **Microbiology**: Unravelling novel pathophysiology of viral diseases such as dengue, zika, SARS-CoV-2, Ebola etc.

RESEARCH EXPERIENCE

M.Pharm Thesis (June 2016-July 2017) | Role: Master's Research Student at University of Dhaka

- Synthesis and evaluation of *in vivo* pharmacological activities of ribofuranose derivatives as potential anti-inflammatory agents and analgesics. | *Mentor*: Prof. Dr. S.M. Abdur Rahman ([Google Scholar](#))

Research at University of Dhaka (June 2019-July 2020) | Role: Co-Investigator

- Computational modeling and molecular dynamic simulation study of novel α -D-ribofuranose derivatives with potent anti-inflammatory and analgesic activity. | *Mentor*: Prof. Dr. S.M. Abdur Rahman

Research at University of Asia Pacific (April 2018-Dec 2020) | Role: Co-Investigator / Principal Investigator

- Studying medication understanding and health literacy of multimorbidity patients.
- Comparative *in vitro* quality and bioequivalence determination of different brands of local generic tablets.

- Systematic review on traditional uses, phytochemistry, and pharmacology of *Zanthoxylum rhetsa* (Roxb.)
Mentor: Dr. Monira Ahsan ([Google Scholar](#))

Research at University of Dhaka (Jan 2021-Present) / Role: Co-Investigator

- Synthesis, in vivo and in silico pharmacological activity evaluation of potent α -chloralose derivatives.
Mentor: Prof. Dr. S.M. Abdur Rahman
- Systematic review of natural diterpenes and diterpenoids with potent antimicrobial properties.
Mentor: Prof. Dr. S.M. Abdur Rahman
- Cross-sectional survey to assess the knowledge, attitude and practice levels against COVID-19 variants among Bangladeshi population. | *Mentor:* Dr. Md. Rabiul Islam ([Google Scholar](#))
- Assessing the side effects following administration of Oxford-AstraZeneca's Covishield vaccine in Bangladesh.
Mentor: Dr. Md. Nur Haque Alam ([Profile](#))
- Reviewing the Delta-plus COVID-19 variant and other public health concerns during COVID-19 pandemic.
Mentor: Dr. Md. Rabiul Islam

PUBLICATIONS

Research Articles

1. Spriha, S.E., **Rahman, F.I.** and Rahman, S.A., (2021). Synthesis, in vivo and in silico analgesic and anti-inflammatory studies of α -D-ribofuranose derivatives. *Saudi Pharmaceutical Journal*, 29(9), pp.981-991. [[PubMed](#)]
2. Jahan, N., **Rahman, F. I.**, Saha, P., Ether, S. A., Roknuzzaman, A. S. M., Sarker, R., ... & Alam, N. H. (2021). Side Effects Following Administration of the First Dose of Oxford-AstraZeneca's Covishield Vaccine in Bangladesh: A Cross-Sectional Study. *Infectious Disease Reports*, 13(4), 888-901. [[PubMed](#)]
3. Monisha, S. T., Ela, K. N., Islam, R., Ether, S. A., & **Rahman, F. I.** Quality Attributes Comparison of Selected Brands of Rosuvastatin Calcium Tablets Marketed in the US and Bangladesh. *Journal of Pharmaceutical Research International*, 33(39A), pp. 46-55. [[Link](#)]
4. Aziz, F., **Rahman, F.I.**, Huque, S., Ether, S.A., Hasan, C.M., Ahsan, M. (2022) *Zanthoxylum rhetsa* (Roxb.) DC: A systematic review on traditional uses, phytochemistry, and pharmacology. *Journal of Pharmacy & Pharmacognosy Research* 10(1): 52–72. [[Link](#)]
5. **Rahman, F. I.**, Hussain, F., Saqueeb, N., & Rahman, S. A. (2020). Synthesis and evaluation of pharmacological activities of some 3-O-benzyl-4-C-(hydroxymethyl)-1, 2-O-isopropylidene- α -D-ribofuranose derivatives as potential anti-inflammatory agents and analgesics. *Research in Pharmaceutical Sciences*, 15(3), 209. [[PubMed](#)]
6. **Rahman, F. I.**, Aziz, F., Huque, S., & Ether, S. A. (2020). Medication understanding and health literacy among patients with multiple chronic conditions: A study conducted in Bangladesh. *Journal of Public Health Research*, 9(1). [[PubMed](#)]
7. Saha, P., **Rahman, F. I.**, Hussain, F., Rahman, S. A., & Rahman, M. (2022). Antimicrobial Diterpenes: Recent Development From Natural Sources. *Frontiers in Pharmacology*, 12(Art. 820312).
8. Ether, S. A., Emon, F. A., Roknuzzaman, A. S. M., Rakibuzzaman, M., **Rahman, F. I.**, & Islam, M. R. (2022). A cross-sectional study of COVID-19-related knowledge, risk perceptions, and preventive practices among pharmacy students in Bangladesh. *SAGE Open Medicine*, 10, 20503121211073014.
9. Hussain, F., Saha, P., **Rahman, F. I.**, Hossain, M. S., & Rahman, S. A. (2021). In vivo and in silico Evaluation of Analgesic and Hypoglycemic Activities of Roots of *Acacia nilotica*, *Azadirachta indica* and *Justica adhatoda*. *Dhaka University Journal of Pharmaceutical Sciences*, 20(2), 185-197.



Letter to Editors

10. **Rahman, F. I.**, Ether, S. A., & Islam, M. R. (2021). The “Delta Plus” COVID-19 variant has evolved to become the next potential variant of concern: mutation history and measures of prevention. *Journal of Basic and Clinical Physiology and Pharmacology*. [[PubMed](#)]
11. **Rahman, F. I.**, Islam, M. R., & Bhuiyan, M. A. (2021). Mucormycosis or black fungus infection is a new scare in South Asian countries during the COVID-19 pandemic: Associated risk factors and preventive measures. *Journal of Medical Virology*. [[PubMed](#)]
12. **Rahman, F. I.**, & Islam, M. R. (2021). Sexual violence against woman at quarantine center during coronavirus disease 2019 in Bangladesh: Risk factors and recommendations. *Women's Health*, 17. [[PubMed](#)]
13. **Rahman, F. I.**, Ether, S. A., & Islam, M. R. (2021). The growing rape incidences seems an epidemic turn of sexual violence in Bangladesh: A letter to the editor. *Women's Health*, 17, 17455065211063285.
14. **Rahman, F. I.**, Ether, S. A., & Islam, M. R. (2022). Upsurge of Dengue Prevalence During the Third Wave of COVID-19 Pandemic in Bangladesh: Pouring Gasoline to Fire. *Clinical Pathology*, 15, 2632010X221076068.

RESEARCH SKILLS

- **Medicinal Chemistry:** Efficient at designing synthesis schemes and performing reactions, purifying compounds using column chromatography and identifying compounds using TLC, FT-IR and NMR techniques.
- **Pharmacology and Toxicology:** Experienced in conducting *in vitro* assays such as DPPH antioxidant assay, cell viability assay, antibiotic susceptibility testing and *in vivo* assays such as hypoglycemic assay on diabetic rats, several analgesic and anti-inflammatory assays.
- **Computational Biology:** Capable of operating instruments such as UV-VIS spectrophotometer, rotary evaporator, and using advanced computational chemistry software such as Gaussian®, Chemdraw®, SciFinder®, PyRx®, PyMol® and Discovery Studio® Visualizer.
- **Biostatistics:** Capable of basic statistical analysis including utilization of tools of inferential statistics (*t*-test, Z-test, ANOVA, chi-square test, and several rank correlations tests).
- **Systematic Reviews:** Experienced in conducting systematic reviews using PRISMA protocols on various medicinal chemistry topics

WORK EXPERIENCE

- **Faculty (Lecturer) | (Jan 2021 – Present)**
Department of Clinical Pharmacy and Pharmacology | University of Dhaka.
- **Faculty (Lecturer) / (May 2018 - Dec 2020)**
Department of Pharmacy | University of Asia Pacific.

Academic responsibilities include giving lectures, taking lab courses, proctoring exams, curriculum mapping and enhancement. Non-academic responsibilities include enhancement of technical facilities at the department, organizing programs, convening club activities.

Courses Conducted so far: Medicinal Chemistry, Pharmacology I, Pathology, Advanced Pharmacology, Clinical Pharmacy, Pharmacy Practice, Drug Use Management etc.



INTERNSHIPS and TRAINING

- **Hospital training | (July 2015 - Dec 2015)**
Dhaka Medical College Hospital, Bangladesh.
Training involved observing treatment patterns of different patients, communicating with them and communicating with physicians regarding use of certain drugs.
- **Industrial training | (Feb 2015 - Mar 2015)**
Novartis Bangladesh Limited.
Training involved observation of activities carried out in principal departments of manufacturing plants and gaining practical experience on HPLC, FTIR, Potentiometer, Karl-Fischer apparatus, Dissolution tester etcetera.

OTHER SKILLS

- **Chemistry Package:** Proficient in chemistry software packages specially ChemOffice (Perkin Elmer, USA)
- **Microsoft Office:** Experienced in advanced word processing and presentation-making software (MS Word, MS PowerPoint).
- **Statistical Tools:** Experienced in basic spreadsheet analysis and statistical analysis (MS Excel, SPSS, and Google Spreadsheet).
- **Graphics:** Capable of basic graphics editing and design (Adobe Photoshop, GIMP, Google Sketchup).

AWARDS and HONORS

- **Dean's Award | Feb 2019**
Awarded for the highest CGPA in undergraduate Bachelor of Pharmacy program 2015
- **Bangladesh Pharmaceutical Society (BPS) Gold Medal | Feb 2019**
Awarded for the highest CGPA in undergraduate Bachelor of Pharmacy program 2015
- **Prime Minister Gold Medal | March 2018**
Awarded for extraordinary results among nationwide undergraduate program 2015
- **National Science and Technology (NST) Research Fellowship | Jan 2018**
Awarded for excellent research among nationwide Graduate programs
- **Presidential Gold Medal | March 2017**
Awarded for the highest CGPA in undergraduate Bachelor of Pharmacy program 2015
- **UGC Scholarship | July 2016**
Awarded for the highest CGPA in undergraduate Bachelor of Pharmacy program 2015
- **Trust Fund Scholarship | Feb 2016**
Awarded for the highest CGPA in undergraduate Bachelor of Pharmacy program 2015
- **Badrunnesa Gafur Memorial Trust Scholarship | Jan 2011, 2012 & 2014**
Awarded for obtaining the highest GPA in 1st, 2nd and 4th semesters of Bachelor of Pharmacy

STANDARDIZED TEST SCORES

- **GRE (General):** Verbal- **159** (82nd percentile), Quant- **162** (78th percentile), AWA-4.0
- **TOEFL (iBT):** Total Score: **117** | Reading: 29, Listening: 30, Speaking: 30, Writing: 28



EXTRA-CURRICULAR ACTIVITIES

- **Coordinator of Photography Club** | May 2018 to Dec 2020
Department of Pharmacy, University of Asia Pacific
- **Organizer** of various programs such as annual picnic, fresher's reception and farewell ceremony, seminars, and cultural programs at Department of Pharmacy, University of Asia Pacific.
- **Organizer** of study tour, orientation and festival programs as a graduate student at Department of Clinical Pharmacy and Pharmacology, University of Dhaka.

REFERENCES

- *Professor Dr. S.M. Abdur Rahman*
Chairman, Department of Clinical Pharmacy and Pharmacology
University of Dhaka
Contact: 0173-2477343
E-mail: rahman_du@yahoo.com
- *Professor Sharifullah Bhuiyan*
Professor
Department of History
University Of Dhaka
Contact no: +88029668415

I hereby declare that the details and information given above are complete and true to the best of my knowledge. I take full responsibility for the correctness of the said information.

Date: 22/04/2022



Fahad Intiaz Rahman