

# Curriculum vitae of

## Fahim Shariar Rakib

**Permanent Address:** Shauderkhill, P.O: Shauderkhill Upozilla:  
Ramgonj, District: Lakshmipur.

**Phone No:** +8801771157918

**E-mail:** [fahimshariar158@gmail.com](mailto:fahimshariar158@gmail.com)



### Career Objective:

Dedicated and enthusiastic pharmacy graduate aspiring to build a career in academia as a university faculty member. I aim to inspire students through engaging teaching, contribute to innovative research, and foster a culture of critical thinking and lifelong learning. My long-term vision is to grow as an academic leader who bridges knowledge with practice and contributes meaningfully to the advancement of pharmaceutical sciences.

### Academic Qualifications:

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|----|---|---|
| 1. | <b>Master of Pharmacy<br/>(M. Pharm. Research)<br/>Schooling: 2 Years</b> | University: University of Rajshahi<br>Department: Department of Pharmacy<br><b>Master's Thesis Title:</b> "Preclinical toxicological evaluation of the candidate drug 2-APB during zebrafish embryogenesis."<br>Passing Year: 2024<br>Result: 3.78 out of 4<br><b>Merit Position:</b> 5 <sup>th</sup> in the Department of Pharmacy |
| 2. | <b>Bachelor of Pharmacy<br/>(B. Pharm.)<br/>Schooling: 4 Years</b>        | University: University of Rajshahi<br>Department: Department of Pharmacy<br>Passing Year: 2022<br>Result: cGPA 3.89 out of 4<br><b>Merit Position:</b> 2 <sup>nd</sup> in the Department of Pharmacy  |
| 3. | <b>Higher Secondary<br/>Certificate (HSC)<br/>Schooling: 2 Years</b>      | Board: Cumilla Board<br>College: Ramgonj Govt College<br>Major: Science<br>Passing Year: 2017<br>Result: GPA 4.83 out of 5  |
| 4. | <b>Secondary School<br/>Certificate (SSC)<br/>Schooling: 5 Years</b>      | Board: Cumilla Board<br>School: Shauder Khill High School<br>Major: Science<br>Passing Year: 2015<br>Result: GPA 4.72 out of 5  |

### Research Experience

- **Research Assistant | Pharmacology Laboratory | Department of Pharmacy, RU [ 2021 -2024]** **Project title:** Alterations of gene regulation in fishes by residual pesticides of agricultural fields and the consequent impact on human health. Average working hours: 20 hours (per week) **Principal Investigator:** Prof. Dr. Alam Khan, Department of Pharmacy, University of Rajshahi. Financed by: Ministry of Education, Bangladesh

- **Research Assistant| Pharmacology Laboratory | Department of Pharmacy, RU [ 2024]**  
**Project title:** Investigation of effects of ethanolic extract of *Lagenaria siceraria* peel in combination with linagliptin to target multiple underlying pathophysiology of diabetes in streptozotocin-induced diabetic mice. Financed by: Faculty of Science, University of Rajshahi, Bangladesh. **Principal Investigator:** Dr. Al Mamun, Associate Professor, Department of Pharmacy, University of Rajshahi

### Publication:

- Zaman, T., Hossain, M.A., **Rakib, F.S.** et al. Identification of chlorpyrifos and carbofuran residues in Kumari Beel, Bangladesh, and their coexposure effect on the cartilage development during zebrafish embryogenesis. *Environmental Science and Pollution Research* 32, 20199–20212 (2025). <https://doi.org/10.1007/s11356-025-36791-9>

### List of Conferences Attended:

1. **Rakib, F. S.,** Hossain, M. S., Hossain, M. A., Kawsar, M. A. B., Haque, M. A., Naz, T., & Khan, A. (2024). The effect of co-exposure of carbofuran, chlorpyrifos & lambda- cyhalothrin on cartilage during zebrafish embryogenesis [Oral presentation]. International Conference on Advances & Challenges through Translational Research in Biological Sciences. **Presenting Author.**
2. **Rakib, F. S** Hossain, M. S., Hossain, M. A., Kawsar, M. A. B., Shuvo, A. I., Mamun, A., Zaman, T., & Khan, A. (2024). Comparative study of carbofuran and lambda-cyhalothrin induced embryonic toxicity on zebrafish [Poster presentation]. International Conference on Advances & Challenges through Translational Research in Biological Sciences.
3. **Rakib, F. S.,** Hossain, M. S., Hossain, M. A., Kawsar, M. A. B., Shuvo, A. I., Mamun, A., Zaman, T., & Khan, A. (2024). Regulation of toxicity of imidacloprid during zebrafish embryogenesis under different temperature conditions [Oral presentation]. International Conference on Advances & Challenges through Translational Research in Biological Sciences.

### Unpublished Work:

- Ali , Hazrat; Manik , Md Imran ; Fahad , T M ; Hossain , Md Arif ; **Rakib, Fahim;** Fuad, Kazi; Islam, Shibli; Rahman , Aminur; Zaman , Tanjeena; Mamun, Al; Haque, Md Anwarul ; Islam , Md Shariful ; Rahman , Moizur ; Alam , Md Emtiaj ; Rahman , Mostafizur; Naz, Tarannum; Haque, Shariful; Mukul , Md Emdadul ; Hasan, Md Faruk ; Khan, Md Rafiqul ; Khan, Alam. The cesarean epidemic in Bangladesh: Non-medical drivers and associated maternal health risks

#### 1. Thesis work:

Preclinical Toxicological Evaluation of the Candidate Drug 2-Aminoethoxydiphenyl Borate (2-APB) during Zebrafish Embryogenesis.

**Principal Investigator:** Dr. Alam Khan

Professor

Department of Pharmacy, University of Rajshahi

#### 2. Project title:

Impacts of the extreme heat of summer in Bangladesh on arsenic toxicity regulation: Insights from morphological and gene expression studies in the zebrafish animal model.

**Principal Investigator:** Dr. Alam Khan

Professor

Department of Pharmacy, University of Rajshahi

### 3. Project title:

Investigation of effects of ethanolic extract of *Lagenaria siceraria* peel in combination with linagliptin to target multiple underlying pathophysiology of diabetes in streptozotocin-induced diabetic mice.

**Financed by:** Faculty of Science,  
University of Rajshahi, Bangladesh.

**Principal Investigator:** Dr. Al Mamun  
Associate Professor  
Department of Pharmacy, University of Rajshahi

### 4. Project title:

Exploration of the anti-inflammatory efficacy and characterization of bioactive constituents of endangered *Lophopetalum wightianum* leaf extracts through in vitro, in vivo, and in silico approaches

**Principal Investigator:** Dr. Most. Afia Akhtar  
Associate Professor  
Department of Pharmacy, Rajshahi University

### 5. Books:

“Innovations in Pediatric Drug Delivery Systems”

**Co-author-** contribute to writing and content development. (Under the submission process to the publisher.)

## Academic Awards:

#### ➤ National Science and Technology (NST)

Fellowship for M. Pharm. Thesis, Bangladesh. (2023)

#### ➤ Dean's Awards

University of Rajshahi, for outstanding (**First class 2<sup>nd</sup>**) academic performance.

## Experience:

Executive, Quality Assurance

Beximco Pharmaceuticals Ltd.

Dec 2024 – November 2025

## Membership of renowned organizations:

#### ➤ Executive Member

Rajshahi University Pharmacy Association (RUPA)

#### ➤ Co-Ordinator

CYB Rajshahi University Admission Test monitoring – Rajshahi

## Language Proficiency:

Bangla : Native.

English : Fluent in speaking & reading, and good at writing, and have good listening ability

## Training:

➤ Participated in a 2-week training in Incepta Pharmaceuticals Limited's Manufacturing and Quality Assurance Division, Dhaka (Bangladesh), as an intern during my final period of my undergraduate degree as a final year internship requirement.

➤ Hands-on Training on HPLC (Day-long)

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

## **Skills:**

### **Technical Skills:**

- **Animal model experiment:**
  1. Experiences on Zebrafish mating, handling, maintenance, and embryonic development observations by using a stereo microscope.  
Experiences of observation of Gene expression of zebrafish by using a Fluorescence Microscope.
  2. Experiences on animal (mice/rats) keeping, handling, and maintenance.  
Collection of blood (serum/plasma), different organs, and their biochemical and molecular analysis.
- Experiences the use of the Centrifuge machine, UV/Vis. Spectrophotometer, PCR, Incubator, Autoclave, Laminar Flow cabinet, Pathological test, Bacterial identification, Antibacterial activity test of metals, Microscopy.
- **Molecular Biology Techniques:** Proficient in the Preparation and activation of competent cells for efficient plasmid transformation

### **Computer Skills:**

- Microsoft Office.

## **Declaration:**

I thereby, declare that all information stated above is completely true to the best of my knowledge.



Signature