

CURRICULUM VITAE

Abdur Rahman

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EDUCATION

Exam Title	Concentration/Major	Institute	Result	Passing Year
Master of Pharmacy	Pharmacy	Pabna University of Science and Technology	CGPA - 3.63 on a scale of 4.00	2022
Bachelor of Pharmacy Professional	Pharmacy	Pabna University of Science and Technology	CGPA - 3.56 on a scale of 4.00	2021
HSC	Science	Shahid Bul Bul Govt. college, Pabna	CGPA – 4.80 on a scale of 5.00	2012
Dakhil (SSC)	Science	Pabna Islamia Alim Madrasah, Pabna	CGPA - 5 on a scale of 5.00	2010

JOB EXPERIENCE

Bangladesh Council of Scientific and Industrial Research (BCSIR)	Dhaka, Bangladesh
Postgraduate Research Fellow	Aug 2023 – Present
- Isolation and characterization of endophytes from <i>Alternanthera philoxeroides</i>, and extraction of crude extract from endophytes - Study of the biological activities of the crude extract by different methods, characterization, and identification of compounds from the crude extract	
SQUARE Hospitals Ltd., Bangladesh	Dhaka, Bangladesh
Hospital Pharmacist (OPD, IPD, and compounding pharmacy)	Oct 2022 - Sep 2023

RESEARCH EXPERIENCE

The Red-Green Research Centre, Bangladesh	Dhaka, Bangladesh
Researcher	Jan 2024 – Present
Using several computational tools, such as Molecular docking, Molecular dynamics (MD) simulation tools such as Gromacs, Desmond, and YASARA, SNPs retrieval from database, and filtering deleterious SNPs by bioinformatics algorithms.	
Pabna University of Science and Technology	Pabna, Bangladesh
Master's thesis	2022
Antibacterial and Antioxidant Potential of Crude Extract of Endophytic <i>Aspergillus fumigatus</i> from <i>Centella asiatica</i> (L.) Urban: In vitro and In Silico Insights	

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PUBLISHED ARTICLES

- Rahman, A., Begum, M. N., Moni, F., Akhter, S., Haq, M. A., Rony, S. R., & Sohrab, M. H. (2025). GC-MS/MS-Based metabolite profiling and bioactivity studies of endophytic fungi from the medicinal plant *Alternanthera philoxeroides* (Mart.) Griseb. Bangladesh Journal of Scientific and Industrial Research, 60(4), 225–250. <https://doi.org/10.3329/bjsir.v60i4.83767>
- Islam M, Ali B, Islam F, Rahman A, Nusrat F, Islam M. Assessment of the Distribution of ABO and Rh Phenotype Blood Groups: A Study among the Students of Pabna University of Science and Technology, Pabna, Bangladesh. Bangladesh University Journal. 2021, Dec 4(1):103–11.
- Antibacterial and Antioxidant Potential of Crude Extract of Endophytic *Aspergillus fumigatus* from *Centella asiatica* (L.) Urban: In vitro and In Silico Insights (Under review)

ONGOING RESEARCH PROJECTS

1. Mutational Effects of Non-synonymous SNPs in Human Amyloid Beta Peptide Protein
Collaborator: Dr. Mohammad A. Halim, Kennesaw State University, USA
2. Chemical exploration of bioactive molecules and investigating their biological activities isolated from the endophytic fungi of the medicinal plant *Alternanthera philoxeroides* (Mart.) Griseb.
Collaborator: Dr. Md. Hossain Sohrab, BCSIR, Bangladesh

CONFERENCES AND SEMINARS

- Workshop on Basic Bioinformatics & Hands-on Training, 2018, arranged by the CSE Department, Pabna University of Science and Technology, Pabna-6600.
- New Trends in Cancer Care, organized by 18th IVPN-AR (Intravenous-parenteral nutrition webinar) on March 20, 2021
- Scoping Medication Management Technologies." Organized by 18th IVPN-AR on June 5, 2021

TECHNICAL SKILLS

Software and Programming Skills

- Molecular modeling and docking: Gaussian 09, AlphaFold, AutoDock Vina; Molecular Dynamics Simulation: Desmond, YASARA; Molecular visualization: ChimeraX, PyMOL, BIOVIA Discovery Studio; Bioinformatics tool: BLAST, MEGA, and Graphics: BioRender, Canva, IrfanView

Experimental Skills

- Natural product isolation & characterization from endophyte and to evaluate their bioactivities (Ultraviolet–visible spectroscopy, Column Chromatography, Thin Layer Chromatography, freeze dryer); Culture Media Preparation for Bacterial and Fungal Culture; Antioxidant by DPPH and Antibacterial by Disk Diffusion method

ACADEMIC TRAININGS AND PROJECTS

1. Hospital training at 250 Bedded General Hospital, Pabna Dec 2020 - Jan 2021
 - Analyzing prescriptions to identify errors, determine correct dosages, and calculate appropriate dosages for critical patients according to the patient's age, sex, and weight; Patient management, including counselling and patient history recording, and monitoring drug administration, side effects, and drug-drug interactions

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2. **Assessment of the Distribution of ABO and Rh Phenotype Blood Groups: A Study among the Students of Pabna University of Science and Technology, Pabna, Bangladesh** March 2020
3. **Industrial training at Square Pharmaceuticals Ltd., Pabna, Bangladesh** Feb 2019
- Visited Production, QA, QC, Microbiology, Validation, PPIC, PMD, Engineering unit, Warehouse, and R&D department

AWARDS

Jan 2022 NST fellowship Issued by the Ministry of Science and Technology of Bangladesh

Aug 2023 Postgraduate fellowship Issued by the Bangladesh Council of Scientific and Industrial Research

PERSONAL DETAILS

Father's Name	: Kamal Husain	Religion	: Islam
Mother's Name	: Rokeya Begum	Nationality	: Bangladeshi
Date of Birth	: March 31, 1995	Present Address	: House-22, Road-5, Block-C, Mohammadpur Future Town, Dhaka, 1207
Gender	: Male		
Marital Status	: Married	Permanent Address	: Char Shibrampur, Hemayetpur, Pabna Sadar, Pabna, 6602

REFERENCES

Name	: Dr. Md. Hossain Sohrab	Name	: Dr. Shariful Haque
Designation	: Director	Designation	: Associate Professor
Organization	: Bangladesh Council of Scientific and Industrial Research (BCSIR)	Organization	: Pabna University of Science and Technology
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06.06.2026

Abdur Rahman

Postgraduate research fellow

Pharmaceutical Sciences Research Division, BCSIR, Dhaka