Sozoni Khatun

Current Address: Patuakandi, Bheramara, Shatbaria -7040, Kushtia, Bangladesh, **Cell- phone:** +8801794059430
LinkedIn ID: linkedin.com/in/sozoni-khatun-b9b8511bb , **E-mail:** sozonikhatun980@gmail.com/ sozoni@pharmacy.iu.ac.bd
Google Scholar: https://scholar.google.com/citations?user=DtvnGZ0AAAAJ&hl=en

PROFESSIONAL EXPERIENCE

January 2026- Present **Lecturer**
Department of Pharmacy
Islamic University, Kushtia-7003, Bangladesh

August 2025- January 2026 **Lecturer**
Department of Pharmacy
Khwaja Yunus Ali University, Sirajganj, Rajshahi, Bangladesh

ACADEMIC CREDENTIAL

November 2023- October 2025 **Master of Pharmacy (M. Pharm)** **CGPA: 3.97/4.00**
Department of Pharmacy Total course credit: **60**
Faculty of Biological Sciences, Islamic University, Kushtia-7003, Bangladesh

- **Master's Thesis:** Multi-Target Pharmacological Evaluation of the Ethyl Acetate Leaf Extract *of Cucurbita maxima*: Analgesic, Antidiarrheal, Sedative, and Anticancer Activities. (Feb 2025-Aug 2025)

January 2018 - October 2023 **Bachelor of Pharmacy with Honours (B. Pharm)** **CGPA: 3.87/4.00**
Department of Pharmacy Total course credit: **160**
Faculty of Biological Sciences, Islamic University, Kushtia-7003, Bangladesh

- **Bachelor's Project:** Molecular docking approach to identify potential anticancer (prostate cancer) and anti-diabetic compounds from *Cucurbita maxima* leaves and investigation of alpha-amylase inhibitory and free radical scavenging activity. (Sep 2022-Sep 2023)

International English Language Testing System (IELTS) **TRF No:** 23BD036187KHAS050A ,Expired-6th Jan, 2026

Module	Listening	Reading	Writing	Speaking	**Overall**
Band Score	6.5	7.0	6.5	7.0	**7.0**

RESEARCH EXPERIENCES

August 2021- July 2025 **Research Assistant**
Department of Pharmacy
Faculty of Biological Sciences, Islamic University, Kushtia-7003, Bangladesh
Role: Collecting and analyzing data, conducting experimental tests with the research team, and helping to develop a project methodology

- Biological activity of essential oils in Bangladesh
- High table salt practices alter the behavioral and molecular changes in human physiology
- Evaluation and comparision of antidiabetic properties of different parts of the plant *Heritiera fomes* (Sundori) available in Sundarban of Bangladesh
- Evaluation of antidiabetic properties of *Bixa Orellana* seeds available in Bangladesh
- *In silico* elucidation of *Langenaraia siceraria* leaf phytochemicals against diabetes mellitus, and ovarian cancer along with in vitro antioxidant and alpha amylase inhibitory activity.
- *In vitro* and *in silico* study of compounds characterized by methanolic and ethyl acetate extracts of bitter melon (*Momordica charantia*) leaf towards ovarian cancer, diabetes treatment and oxidative stress.

RESEARCH PUBLICATION

- Enam, T., Ali, S., **Khatun, S.,** Siam, S. F. R., Jahan, M. I., Islam, M. T., & Rahman, A. (2026). Chemical Compositions and Biological Activities of Essential Oils from Aromatic and Medicinal Plants in Bangladesh-A Review. *International Journal of Chemistry and Technology*, *11*, 1-36. https://doi.org/10.32571/ijct.1899554
- Rahman, M. E., Rahman, M. A., Sheikh, S., Polash, M. J. I., **Khatun, S.,** Bristi, M. S. A., ... & Islam, M. T. (2025). D-pinitol modulates the anti-emetic effects of aprepitant, domperidone, and ondansetron in chicks. *Pharmaceutical Science Advances*, *3*, 100073
- Islam, M. S., Agarwala, R., **Khatun, S.,** Enam, T., Siddika, A., Saffat, T., ... & Tasmin, R. (2025). A Cross-Sectional Study on Gastric Diseases and FGIDs in Bangladesh: Insights Into Causes, Symptoms, and Medications. *Health Science Reports*, *8*(8), e71188.

- Akter,S., Sarkar, A. P., Sarkar, B. K., Saha,N., Chowdhury,A.R., **Khatun, S.,** Enam, T.,…& Kundu,S.K.(2024). Development and Validation of HPLC Method for Estimation of Ibandronic Acid in Tablet Dosage Form. *Journal of Pharmaceutical Research and Innovation (JPRI)*
- Sarkar, A. P., **Khatun, S.,** Enam, T., Jahan, M., Sarker, A., Saha, N., ... & Sani, S. S. (2022). Promising Actions of Certain Medicinal Plants of Bangladesh against Diabetes and Oxidative Stress:A Review. *Pharmacology & Pharmacy*, **DOI:** 10.4236/pp.2022.1310030
- Md Anisur Rahman, **Sozoni Khatun,** Mst. Sonia Bristi, Tonima Enam, Md.Mosahaq Ali, Md. Hasibul Hasan, Anwar Parvez, Muhammad Torequl Islam, "Botanical sources and biological activities of crisiliol and its derivatives: a review on the basis of database reports" *Molecular Biology Reports.* [IF: 2.6, Q2] (**Under review**)

TECHNICAL SKILLS

Dry Lab Skill	Molecular Docking, Computer-Aided Drug Design, Vaccine Design, Molecular Dynamics Simulation
Wet Lab Skill	Plant extraction, *In vivo* anti- diabetic test on mice, Antioxidant assay, Alpha -amylase inhibitory activity, Bacteria and Fungi culture, Essential oil separation, Antimicrobial test, Antibiotic sensitivity test, Preparation and Maintenance of Different Microbiological Media, Antiemetic activity in mice model, qPCR
Analytical	UV-Vis Spectrometry, Drug IPQC test apparatus, Rotary evaporator, Steam distillation *apparatus*, Thin Layer Chromatography (TLC), HPLC, GC-MS, & Polarimeter
Tools & Software	PyMol, PyRx, MS Office, MS Excel, Discovery Studio, Codon Code Aligner, SPSS, Mendeley, T test AutoDock Vina, and Swiss pdb

TRAINING EXPERIENCE

Sep 4 - Sep 17, 2022	Two weeks of in-Plant Training at Square Pharmaceuticals Ltd., Dhaka Unit, Kaliakoir, Gazipur, Bangladesh
April 2018	36 hours of in-plant training at Modern Pharmaceutical Ltd

ADDITIONAL INFORMATION

Awards & Achievements

- **National Science and Technology fellowship** (NST) in 2024-2025 fiscal year
- **UGC Research Fellowship** for M. Pharm Thesis
- **Secondary and Higher Secondary Education Scholarship** based on undergrad results
- **Dean's List Award** for the Academic Year 2017-18
- **Golden Award** in Poster presentation
- **University Merit Scholarship** in 4 years of honors.

Presentation

- **Poster presentation** entitled "A Concept of Increasing Food Value by Using Organic Waste Material" at the 1st 'International Poster Competition on Achieving Sustainable Development Goals (SDGs) in Developing Countries', organized by UniV.

Participant

- International Conference on Drug Discovery and Development organized by Independent University Bangladesh.
- A day- long seminar on 'Nanomedicines: Current Status and Future Aspect of Drug Delivery' organized by Pharmacy Department, Islamic University
- PSE-NPS 2020 Summit on Natural Products for Healthy Living

Organizations & Leadership experience

- Program organizer of Science Fairs, Orientation, Pohela Boishakh, Ekushe Boimela, Religious Festival, and Games and Sports organizer at Department of Pharmacy, Islamic University, Bangladesh

ACADEMIC REFERENCE

- Dr. Md. Masud Rana, Chairman, Department of Pharmacy, Islamic University, Kushtia-7003, Bangladesh, Mobile Number: +8801723-836968, Email: masud.ru.ph@gmail.com
- Arghya Prosun Sarkar (Thesis supervisor), Assistant Professor, Department of Pharmacy, Islamic University, Kushtia-7003, Bangladesh, Mobile Number: +8801724713549, Email: arghya@pharmacy.iu.ac.bd