

## Shahnaz Parvin “Sweety”

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ResearchGate: <https://www.researchgate.net/profile/Shahnaz-Sweety>

### EDUCATION

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<b>University of Rajshahi</b> Master’s of Pharmacy (M. Pharm, Thesis)	2022 CGPA 3.86/4.00
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#### Thesis:

Exploring the Biological Potential of *Lagerstroemia speciosa* (L) Pers. Bark Extracts through Anti-inflammatory, Anticancer, and DNA Damage Protection Activities: In Silico Molecular Docking with GC-MS Analysis.

<b>University of Rajshahi</b> Bachelor of Pharmacy (B. Pharm)	2020 CGPA 3.93/4.00 (Position 1 <sup>st</sup> )
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<b>New Govt. Degree College, Rajshahi.</b> Higher Secondary Certificate (H.S.C)	2016 GPA 5.00/5.00
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<b>Shahid Nazmul Huq Girls’ High School, Rajshahi.</b> Secondary School Certificate (S.S.C)	2014 GPA 5.00/5.00
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### ACADEMIC EXPERIENCE

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Lecturer in Pharmacy Manarat International University (MIU) Dhaka-1340, Bangladesh.	July 2024- Present
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**Responsibilities:** Teach undergraduate theory and laboratory courses in pharmaceutical sciences. Supervise students’ research and thesis projects, design examination questions and assessment materials, evaluate academic performance, and provide academic mentoring and guidance.

### PUBLICATIONS

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- Biswas, M., Murad, M. A., Ershadian, M., **Sweety, S. P.**, Hasan, S. A., & Sukasem, C. (2025). Genotype-guided ticagrelor/prasugrel versus clopidogrel therapy in stroke patients with *CYP2C19* loss of function alleles: a systematic review and meta-analysis. *Pharmacogenomics*, 26(15–16), 649–656. <https://doi.org/10.1080/14622416.2025.2603565>
- Sweety, S. P.**, Rupok, T. A., Shoily, M. S. A., Parvin, M. S., Barmon, J., & Islam, M. E. (2025). GC–MS analysis, molecular docking and pharmacokinetic evaluation of phytocompounds from *Lagerstroemia speciosa* (L.) Pers. bark and their effect on inflammation target proteins. *Food Chemistry Advances*, 9, 101172. <https://doi.org/10.1016/j.focha.2025.101172>

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- **Sweety, S. P.**, Rupok, T. A., Parvin, M. S., Barmon, J., Yeasmin, M. S., & Islam, M. E. (2025). Exploring the anticancer and antioxidant properties of *Lagerstroemia speciosa* bark extract via phytochemical and molecular docking analysis. *Journal of Genetic Engineering and Biotechnology*, 23(3), 100553. <https://doi.org/10.1016/j.jgeb.2025.100553>
  - Shoily, M. S. A., Islam, M. E., Rasel, N. M., **Parvin, S.**, Barmon, J., Aqib, A. H., Roy, D. N., & Parvin, M. S. (2025). Unveiling the biological activities of *Heliotropium indicum* L. plant extracts: Anti-inflammatory activities, GC-MS analysis, and in-silico molecular docking. *Scientific Reports*, 15, Article 3285. <https://doi.org/10.1038/s41598-024-79559-w>
  - Munira, S., Parvin, M. S., Al Basher, M., **Parvin, S.**, Islam, M. E., & Haruni, M. J. (2024). HPLC analysis, molecular docking of phenolic compounds and screening of antioxidant and cytotoxic potential of *Diospyros malabarica* bark extract. *Phytomedicine Plus*, 4, 100657. <https://doi.org/10.1016/j.phyplu.2024.100657>
  - Rupok, T. A., **Sweety, S. P.**, Rahman, M. M., Rahman, M. T., Zaman, F., Ahmed, M. R., Islam, T., Islam, M. N., Rana, M. M., Riaz, A. R., Riaz, A., Sadik, M. G., & Sadik, G. (2024). Food safety profile of university food handlers in Bangladesh: A multicenter cross-sectional study. *Food and Humanity*, 3, 100386. <https://doi.org/10.1016/j.foohum.2024.100386>
  - Rupok, T. A., Dey, S., **Sweety, S. P.**, & Bostami, B. (2023). No Tendencies of Personality Traits in Blood Groups: A Cross-Sectional Study. *Journal of Blood and Lymph*, 13(3). DOI: 10.37421/2165-7831.2023.13.308

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## CONFERENCE PRESENTATIONS

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- **Sweety, S.P.**, Islam, M. E. (2025). Anti-Inflammatory and Anticancer Potential of *Lagerstroemia speciosa* Bark Explored Through Experimental Models and Computational Simulations. *2nd International Conference on Recent Advances in Science and Technology (2ndICRAST2025)* [Oral Presentation, Faculty of Science, RU, ID92]
- **Sweety S.P.**, Rupok, T.A., Barmon, J., Parvin, S., Islam, M. E. (2024). Exploring the Biological Potential of *Lagerstroemia speciosa* (L) Pers. Bark Extracts through Anti-inflammatory, and Anticancer Activities: In Silico Molecular Docking with GC-MS Analysis. *BCSIR Congress 2023* [Poster Presentation (PP), Bangladesh Council of Scientific and Industrial Research (BCSIR), PP-127, Abstract ID: 0800]
- Rupok, T.A., **Sweety, S.P.**, Sadik, M.G., Kader, M.A. (2024). Evaluation of the Antioxidant, Anti-Inflammatory, and Anti-Proliferative Potentialities of *Smilax zeylanica* Leaves. *BCSIR Congress 2023* [Poster Presentation (PP), Bangladesh Council of Scientific and Industrial Research (BCSIR), PP-128, Abstract ID: 0802]
- **Sweety, S.P.**, Islam, M. E. (2023). Evaluation of Antioxidant, Anti-inflammatory, Antimicrobial, and Anti-cancer Potential of *Lagerstroemia speciosa* Bark Extract. *International Conference on The Role of Science and Technology towards 4IR* [Poster Presentation (PP), Faculty of Science, RU, ID365]

## RESEARCH EXPERIENCE

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### 1. Natural Product Pharmacology Research

2022-Present

- Conducted antioxidant, anti-inflammatory, antibacterial, anticancer, and cytotoxic assays (*in vitro* & *in vivo*) on medicinal plants. Performed extraction and phytochemical screening. (Contributed to four Elsevier publications)

### 2. Public Health Research

2022-2024

- Investigated food safety patterns of food handlers in Bangladesh; designed surveys, collected data, and performed statistical analysis. (Contributed to one publication in the journal of "Food and Humanity" under the Elsevier publisher)
- Investigated tendencies of personality traits in blood groups; designed surveys, collected data, and performed statistical analysis. (Contributed to one publication in the "Journal of Blood and Lymph" under the Hilaris publisher)

## LABORATORY SKILLS

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- Phytopharmacological activity testing (*in vivo* & *in vitro*)
- Data analysis: SPSS, Microsoft Excel, PowerPoint, Word.

## PROFESSIONAL TRAINING & INTERNSHIPS

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- **Industrial Training, TEAM Pharmaceuticals Limited:** Three weeks of hands-on experience in pharmaceutical manufacturing, quality control, quality assurance, validation, packaging, and GMP compliance.
- **Training on Microsoft Database Programming:** Six months of hands-on experience in the Operating system (Microsoft Office Word, Microsoft Office Excel, Microsoft PowerPoint).

## AWARDS

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- **Dean's Award (2022):** Achievement of "Dean's Award-2022" in recognition of securing 1<sup>st</sup> position in Pharmacy in the B. Pharm (Hons.) Examination.
- **National Science and Technology (NST) Fellowship (2022):** Research Award sponsored by the Ministry of Science and Technology, Bangladesh.
- **Merit Scholarship (2020-2021):** Recognized for obtaining the highest CGPA (3.93/4.00) in the Department of Pharmacy under the Faculty of Science.
- **Govt. General Scholarship Award (2017):** Based on the Higher Secondary Certificate (HSC) under The Intermediate and Secondary Education Board.