Curricular Vitae of Rehnuma Tasmiyah Chowdhury

Personal Information	**Address:** Nishchintapur, Fatikchhari-4350, Chittagong, Bangladesh **Email:** reh.tas10@gmail.com, reh.tasmiyah@gmail.com **Phone:** +880 1913634303 **Research Gate:** https://www.researchgate.net/profile/Rehnuma-Tasmiyah-Chowdhury-2
Education	**Master of Science** in Biochemistry and Molecular Biology (January 2017- December 2017), University of Chittagong, Bangladesh, GPA: 3.54 (Out of 4.00) **Bachelor of Science** in Biochemistry and Molecular Biology in Biochemistry and Molecular Biology (January 2013- December 2016), University of Chittagong, Bangladesh, GPA: 3.54 (Out of 4.00)
Work Experience	**Scientific Officer** (March 2021- till now) Bangladesh Council of Scientific and Industrial Research (BCSIR), Bangladesh **Research Fellow** (October 2016- December 2018) Dept. of Biochemistry and Molecular Biology, University of Chittagong, Bangladesh
Research Experience	• Project leader on Formulation and Nutritional Evaluation of Weaning Food for Malnourished Children • Project leader on Effects of *Adhatoda vasica* Extract on Gouty arthritis and Hyperuricemia • Supervised MS thesis on In Vivo Study of *Adhatoda vasica* on Gouty Arthritis • Project associate on the Preparation of capsule shells from pectin-rich fruit peels • MS thesis on Gli1 expression in breast cancer increases metastatic potential
Research Skills	• Instrumentation Skill: PCR, RT-PCR, Biochemistry analyzer, Dumas Protein Analyzer, and Fat Extractor • Animal Model Handling (Swiss Albino, Wistar Rats), Histopathology • Bioinformatics: Molecular Docking, ADMET prediction • Microbiological experiment

Trainings	• Training on Dumas Protein Analyzer and Fat Extractor (September 2024) • Training on Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR) (February 2024) • Training on High Performance Liquid Chromatography (HPLC) (May 2023) • Training on Polymerase Chain Reaction (PCR) (February 2022) • Training on Liquid Chromatography- Tandem Mass Spectrometry (LC-MS/MS) (October 2021)
Awards and Grants Achieved	**MoST Grants for R&D Project** (2024-25)**:** Provided by Ministry of Science and Technology (MoST), Government of Bangladesh **Bangladesh Free Studentship**-2017: University of Chittagong, Bangladesh
Poster and Oral Presentation at Conference and Congress	• Poster Presentation on Identification of the phytoconstituents, antioxidant activity & in vivo analysis of ethanolic *Adhatoda vasica* leaf extract at **BCSIR Congress- 2023** (March 2024) • Poster Presentation on Status of pig-based adulteration in industrially processed food, feed, and pharmaceutical items at the **International Conference on Environmental Protection for Sustainable Development (ICEPSD)-2022** (September 2022) • *Oral Presentation on GC-MS chemical profiling of Adhatoda vasica ethanolic extract and in silico study of potential anti-hyperuricemic targets and their pharmacokinetics at the* **2nd International Conference on Recent Advances in Chemistry (ICRAC-2024)** *(January 2025)*
Extracurricular Activities	Volunteered in the following programs- • Fund collection for Cancer patients in the Pediatric department of Chittagong Medical College Hospital • Saline production and food packaging for flood-affected people of the Northeastern part of Bangladesh
Published Journal Articles	• Hajara Akhter, Susmita Sarker Ritu, Shahariar Siddique, Fariha Chowdhury, **Rehnuma Tasmiyah Chowdhury**, Samina Akhter, and Mahmuda Hakim . In silico molecular docking and ADMET prediction of biogenic zinc oxide nanoparticles: characterization and in vitro antimicrobial and photocatalytic activity. RSC Advances. 2024; 14(49): 36209–25. Available from: http://dx.doi.org/10.1039/D4RA06890D. (**Q-1, IF: 4.6**) • Dipongkor Chandra Roy, Debashish Adhikary, Md. Abdurrahim, Mridha Md. Kamal Hossain, **Rehnuma Tasmiyah Chowdhury**,

	Chadni Lyzu, Ashish Kumar Sarker. A simplex PCR-based approach to trace the pulp adulterant of sweet pumpkin in industrially processed mango juice items by targeting the chloroplast ycf1 gene fragment. Food and Humanity. 2023; 1:562-70. Available from: https://www.sciencedirect.com/science/article/pii/S2949824423000587 **(CiteScore- 1.7).**