



Marina Khatun
Assistant Professor
Department of Biochemistry and Molecular Biology
Mawlana Bhashani Science and Technology University
E mail: marinakhatun.bmb@mbstu.ac.bd
marinakhatunru@gmail.com
Mobile: +8801725-111170

Teaching Experience:

12 Feb, 2019-Till date- Assistant Professor, Department of Biochemistry and Molecular Biology, Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902, Bangladesh.

12 Feb, 2017-11 Feb, 2019- Lecturer, Department of Biochemistry and Molecular Biology, Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902, Bangladesh.

Research Experience:

- **M. Sc Research Fellow** (July, 2013- September, 2015), Department of Biochemistry and Molecular Biology, University of Rajshahi, Rajshahi.
- **Research Assistant** (June 2014-November, 2015) in Cell Culture Laboratory at the department of Biochemistry and Molecular Biology, University of Rajshahi, Rajshahi.
- **Associate investigator** of a project (July, 2019- June 2020) under the title “Role of flavonoids rich food on respiratory health among the rice mill workers in Tangail district, Bangladesh”.
- **Associate investigator** of a project (July, 2022- June 2023) under the title “Prevalence of respiratory symptoms and the role of dietary antioxidant on respiratory health among sawmill workers in Bangladesh: A cross-sectional study”.
- Supervision of undergraduate student’s research projects.
- Supervision of MS thesis students.

Education :

M.Sc (2013)

M.Sc in Biochemistry and Molecular Biology, Rajshahi University, Rajshahi.

Thesis: Studies on Antioxidant and Antineoplastic Properties of *Carissa carandas* Linn.

B.Sc (Hons) (2012)

B.Sc in Biochemistry and Molecular Biology, Rajshahi University, Rajshahi.

HSC (2007)

Higher Secondary Certificate (H.S.C) in Science, Qadirabad Cantonment Sapper College, Natore, Rajshahi.

SSC (2005)

Secondary School Certificate (S.S.C.) in Science, Ar para high school, Bagha, Rajshahi.

List of Publications:

1.	Md. Julkar Nime, Md. Habibur Rahman, Ziasmin Khatun, Md. Rowshanul Habib, Ayesha Siddika, Marina Khatun , Md. Rezaul Karim and Md. Abdul Aziz (2023). “Studies on Antioxidant and Antineoplastic potentials of <i>Oldenlandia corymbosa</i> Linn. Leaves”. <i>Fundamentals and Applied Pharmaceutical Science</i> , 3(2), 83-98.
2.	Mozibullah, M., Ahammad, H., Tarin, T., Islam, M. J., Khatun, M. , Islam, M. J., & Sikder, M. A. (2023). Evaluation of anti-oxidant and antibacterial activities of <i>Ixora chinensis</i> and <i>Cascabela thevetia</i> leaf extracts: An in vitro study. <i>Journal of Pharmacognosy and Phytochemistry</i> , 12(1), 35–40. https://doi.org/10.22271/phyto.2023.v12.i1a.14545
3.	Mogal, M. R., Junayed, A., Mahmud, M. R., Sompa, S. A., Lima, S. A., Kar, N., TasminaTarin, Khatun, M. , Zubair, M. A., & Sikder, M. A. (2022). A computational approach to justifying stratifin as a candidate diagnostic and prognostic biomarker for pancreatic cancer. <i>BioMed Research International</i> , 2022, 1617989. https://doi.org/10.1155/2022/1617989
4.	Habibur, M. R., Aziz, M. A., Khatun, M. , & Rabbi, M. A. (2022). Inhibitory effect of <i>Ammannia bacifera</i> leaves against lipase and angiotensin-converting enzyme. <i>Journal of Pharmacognosy and Phytochemistry</i> , 11(2), 21–23. https://doi.org/10.22271/phyto.2022.v11.i2a.14371

5.	<p>Mahmod, M., Junayed, A., Bhowmick, C., Sompa, S., Sultana, T., Akter, T., Abedin, M., Zubair, M., Islam, M., Mogal, M., Khatun, M., & Sikder, M. (2021). Antibacterial activity of silver nanoparticles synthesized from leaf and flower extracts of <i>Galinsoga formosa</i>. <i>Journal of Advanced Biotechnology and Experimental Therapeutics</i>, 4(2), 178.</p> <p>https://doi.org/10.5455/jabet.2021.d118</p>
6.	<p>Islam MJ, Sarker TC, Jebin RA, Yasmin F, Khatun M, Islam MA, Ramzan SB, Nobel FA, Akter S, Islam M, Hasan MM, Khatun MM, Yesmin S, Sabrina S, Khatun M, Mamun AA, Islam MK, Asaduzzaman M, Das KC, Amin MB, and Uddin MKM (2020). Determination of optimum survivability factors of highly pathogenic <i>Vibrio cholerae</i> O1 serogroup specific bacteriophage JSF4φ. <i>American Journal of Pure and Applied Biosciences</i>; 2(2): 8-14.</p>

7.	Mogal, M. R., Islam, M. D., Hasan, M. I., Akter, A., Mahmud, M. R., Sompa, S. A., Junayed, A., Abedin, M. Z., Zubair, M. A., Khatun, M. , & Sikder, M. A. (2020). Prevalence of respiratory abnormalities and spirometric disparities among construction workers in Tangail, Bangladesh. <i>International Journal of Community Medicine and Public Health</i> , 8(1), 55. https://doi.org/10.18203/2394-6040.ijcmph20205676
8.	Kundo, N.K., Sultana, C., Islam, M.S., Ali, M.A., Khatun, M. , Uddin, A.H.M.M., Roy, R.K., Ahmed, R., Rahman, M.M., Rahman, M.A. Microbial and Physicochemical evaluations of Paracetamol in different brands of analgesic syrups sold in Bangladesh. <i>Journal of Innovations in Pharmaceutical and Biological Sciences</i> . 2018; 5(1) : 46-50.
9.	Asaduzzaman, M., Bappy, S.R., Fatema, B., Haque, S., Islam, M.J., Sikder, M.A., Aktar, S., Khatun, M. , Juliana ,F.M., Islam, M.S. Effect of HCV on hemoglobin, blood cells and random blood glucose levels among serologically positive HCV patients . <i>IOSR Journal of Nursing and Health Science</i> . 2017; 6(5) : 41-45.
10.	Khatun, M. , Habib, M. R., Rabbi, M. A., Amin, R., Islam, M. F., Nurujjaman, M., Karim, M. R., & Rahman, M. H. (2017). Antioxidant, cytotoxic and antineoplastic effects of <i>Carissa carandas Linn</i> .leaves. <i>Experimental and Toxicologic Pathology</i> : 69(7), 469–476. https://doi.org/10.1016/j.etp.2017.03.008

Published abstract in scientific conference:

1. “**In vitro studies on phytochemical and antioxidant potentials of leaves and flower of *Carissa carandas Linn.***” Marina khatun, Md.Istiaq Obaidi, Ziasmin khatun, M.Rowshanul Habib, Md. Habibur Rahman. (Abstract published and poster presented in the “International conference on Biological Sciences: Food, Health and Environmental perspectives” at university of Rajshahi by August 08, 2015).
2. “**Identification of pathogenic Missense Single Nucleotide Polymorphism of the human SAT1 Gene: A combined Computational Algorithmic and Molecular Dynamics based Approach**” Md. Mozibullah, Marina Khatun, Md. Asaduzzaman Sikder, Mohammad Johirul Islam and Mehbuba Sharmin. (Abstract published and poster presented in the “International conference on The Role of Science and Technology towards 4IR” at university of Rajshahi by October 05-06, 20235).

Training and Workshops:

- Participated in- plant training in "Rajshahi Diabetic Association" at Jhawtola, Laxmipur, Rajshahi-6000, as a part of Bachelor of Science degree.
- Completed "Advanced Training on Biotechnology" organized by National Institute of Biotechnology, savar, Dhaka-1349, Bangladesh.
- Attended a workshop on "Biological Data Analysis Using SPSS" at Mawlana Bhashani Science and Technology University.
- Attended a workshop on "Research Methodology, e-Research, Research proposal and Report Writing" at Mawlana Bhashani Science and Technology University.

Attended Scientific Seminars:

- A seminar on "Current Trends in Biochemistry & Molecular Biology Research in Bangladesh" organized by department of Biochemistry & Molecular Biology, University of Rajshahi & Bangladesh Society for Biochemistry & Molecular Biology.
- A seminar on "Cellular absorption and Mechanism of action Calcium and Zink" Held in the University of Rajshahi, Bangladesh by Professor Dr. Seiichiro Himeno, Tokushima Bunri University, Japan.
- A seminar on "Application of DNA technology in Medical Science especially in Gene therapy" Held in Bangladesh by Pro. Dr. Abul Mandal. School of Life Science, University of Skövde, Sweden.
- A seminar on "Exploring the knowledge of Molecular Biology and its application" organized by the Department of Biochemistry and Molecular Biology by 27 January, 2019 at Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902.
- A seminar on the "Role of Biochemists and Molecular Biologists to face the challenges of communicable and non- communicable Diseases", organized by the Department of Biochemistry and Molecular Biology by 6 June, 2022 at Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902.

Awarded Fellowship and Research Grants:

- Awarded UGC merit scholarship in both B.Sc. and M.Sc. for excellent result.
- Awarded National Science and Technology (NST) Fellowship-2013.
- Awarded research grants for 1 year (2019-2020) by the Ministry of Science and Technology, Bangladesh.
- Awarded research grants for 1 year (2022-2023) by the Ministry of Science and Technology, Bangladesh.
- Awarded research grants by the Research Cell , MBSTU.