MD. RASUL KARIM



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ACADEMIC INFORMATION

M. Pharm
Department of Clinical Pharmacy and Pharmacology,
University of Dhaka,
Session: 2019-2020

B. Pharm
Department Of Pharmacy, Faculty ff Pharmacy,
University of Dhaka
Session: 2014-15,

Higher Secondary
Shahid Syed Nazrul Islam College, Mymensingh,
Year 2014, Dhaka Board

Secondary School
Nandina M.H.K Govt. Pilot High School, Jamalpur
Year 2012**,** Dhaka Board

PRESENT WORKPLACE AND POSITION

Lecturer
Department of Pharmacy, Islamic University, Kushtia, Kushtia-7003

PROFESSIONAL RECORD

- As a lecturer from September 04, 2023, to till date at the Department of Pharmacy, Islamic University, Kushtia, Kushtia-7003
- As a lecturer from July 18, 2023, to September 03, 2023, at Department of Pharmacy, ASA University, Bangladesh.

TRAINING

In Plant Training at "Aristo Pharma Limited, Dhaka."
Duration: 30 days

Training in Hospital Pharmacy at Dhaka Medical College Hospital, Dhaka.
Duration: 6 Months.

RESEARCH EXPERIENCE

M. Pharm thesis on "Chemical and Pharmacological Investigations of Stem of Gymnema inodorum (Lour.) Decne (Family-Apocynaceae)."

B. Pharm project on "A Study on Selling status of rural pharmacies in Jamalpur and influence of price and vendor's own choice over selling pattern."

FIELD OF SPECIALIZATION

- Pathology
- Natural product chemistry
- Pharmacology
- Toxicology
- Clinical trial
- Pathogenic protein identification
- PCR analysis

Research Interest

- Phytomedicine
- Drug discovery from Natural product
- Anticancer drugs
- Public health

PUBLICATIONS

1. **Karim, M.R**., Hossain, M.A., Shamim, M., Hosen, M.R., Hossain, M.S., Hossain, M.T., Akhter, M.S., Simran, K.T. and Islam, M.S., 2026. Unfolding the Pharmacological Potentialities and Phytochemical Characterization of Pajanelia longifolia (Wild) Leaves: A Multidimensional Study via GC-MS/MS, In Vitro, In Vivo, and In Silico Approaches. *Chemistry & Biodiversity*, *23*(8), p.e71574.
2. Afrose, M.S., Shamim, M., Islam, M.S., Shourav, S.Y., Hosen, M.R., Rahman, S.S., Alam, S. and **Karim, M.R**., 2026. An Integrated Pharmacological Evaluation and GC-MS/MS-Guided Metabolite Profiling of Diospyros sylvatica Roxb. Leaves Revealing Analgesic, Antioxidant, and Antidiabetic Activities. *Chemistry & Biodiversity*, *23*(6), p.e71364.
3. Baisnab, J., Islam, M.S., Kavey, M.R.H., Shourav, S.Y., Hosen, M.R., Abid, M.F., Rahman, S.S., Klamrak, A., Chaveerach, A., Daduang, S. and **Karim, M.R**., 2026. GC-MS Guided Phytochemical Fingerprinting and Multi-Target Therapeutic Evaluation of Ixora chinensis Lam. Leaves: Insights into Its Hypoglycemic and Analgesic Activities. *Biology*, *15*(8), p.592.
4. Rahman, S.S., Rahat, M.R.H., Klamrak, A., **Karim, M.R**., Fahim, M., Haque, M.I., Muhammad, A.B., Shurmi, S.D., Hossain, A., Baisnab, J. and Rouf, S.M., 2026. Integrative In Silico and Experimental Evaluation of Borassus flabellifer Immature Endosperm for Dual Modulation of Diabetes and Hypothyroidism. *Nutrients*, *18*(12), p.1931.
5. **Karim, M. R.,** Shohag, A. M., Hossain, M. S., Shamim, M., Rahman, M. A., Toma, T. S. and Islam, M. S. (2026) 'Exploration of in-vitro antioxidant and in-vivo analgesic, antipyretic, and antidiarrheal properties of the ethanolic extract of *Cyclea barbata* (Miers) (Menispermaceae)', *Trends in Phytochemical Research*, 10(1), pp. 41–50.
6. Hossain, M.A., Shamim, M., Islam, M.S., Shourav, S.Y., Hosen, M.R., Fariha, F.M., Alam, S. and **Karim, M.R.,** 2026. Multi-Target Biological Prospects of Persicaria viscosa (Buch.-Ham. ex D. Don) Supported by GC–MS-Based Phytochemical Profiling. *Journal of Pharmaceutical Innovation*, *21*(4), p.441.
7. Al-Amin, M., Tanjin, R., **Karim, M.R**., Etee, J.M., Siddika, A., Akter, N., Uddin, M.H., Mahmud, R., Saffat, T., Hossen, M.F. and Mowlee, S.I., 2025. Anti-cancer activity elucidation of geissolosimine as an MDM2-p53 interaction inhibitor: An in-silico study. *Plos one*, *20*(5), p.e0323003.
8. **Karim, M. R**., Hossain, M. A., Shamim, M., Hosen, M. R., Islam, M. S., Hossain, M. T., Simran, K. T. and Akhter, M. S. (2025) 'In vivo and in silico approaches for exploring the hypoglycemic potential of *Moringa oleifera* Lam. flowers' extract', *International Journal of Minor Fruits, Medicinal and Aromatic Plants*, 11(1), pp. 252–263.
9. **Karim, M.R.,** Hosen, M.R., Shamim, M., Hossain, M.A., Islam, M.S. and Rahman, M.M., 2025. Unveiling antidiarrheal, analgesic, and antioxidant activities of Moringa oleifera (Lam.) flower extract via in vivo and in vitro approaches. *J. Biosci. Environ. Res*, *2*, pp.10-15.
10. Mukhles, M.B., Al Mamun, A., Alam, M.K., Huq, M.A., Azad, M.A.K., **Karim, M.R**. and Rahman, M.M., 2025. Assessment of bacteriological quality and antibiotic resistance in locally and industrially produced ice creams: a study on probiotic incorporation for enhanced safety and health benefits in Kushtia City, Bangladesh. *Probiotics and Antimicrobial Proteins*, *17*(6), pp.4945-4954.
11. **Karim, M.R**., Hossain, M.S., Islam, M.S., Hossen, M.R. and Ali, M.S., 2025. Exploration of Hypoglycemic, Analgesic, Antidiarrheal, and Antioxidant Properties of the Methanolic Extract of the Stems of Gymnema inodorum (Lour.) Decne. *Dhaka University Journal of Pharmaceutical Sciences*, *24*(1), pp.39-48.
12. Hossain, M.S., Prattay, K.M.R., Shipa, S.J., Sarkar, M.R. and **Karim, M.R.,** 2024. Assessment of Health, Nutrition Status, Lifestyle Patterns, Job Satisfaction Level, and Sanitation Practices of Food Handlers Working in University Residential Hall's Canteens of Bangladesh. *Dhaka University Journal of Pharmaceutical Sciences*, *23*(2), pp.145-155.