

Islamic University
Md. Masud Rana, Ph.D.

Natural Product Chemistry | Isolation & Structure Elucidation | Total Synthesis | Organic
Synthesis

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Google Scholar: <https://scholar.google.com/citations?user=XVbqCdsAAAAJ&hl=en>

ResearchGate: https://www.researchgate.net/profile/Md-Masud-Rana-40?ev=hdr_xprf

Permanent address: Aragi Bhatpara, Nandongachi, Charghat, Rajshahi, Bangladesh

PROFESSIONAL EXPERIENCE

Position	Organization	Duration
Associate Professor	Islamic University, Kushtia-7003, Bangladesh (http://www.iu.ac.bd)	20 March, 2026 - till date
Assistant Professor	Islamic University, Kushtia-7003, Bangladesh (http://www.iu.ac.bd)	09 December, 2020 - 19 March, 2026
Lecturer	Islamic University, Kushtia-7003, Bangladesh (http://www.iu.ac.bd)	15 July, 2018 - 08 December, 2020
Lecturer	Khwaja Yunus Ali University, Sirajgonj-6751, Bangladesh (http://www.kyau.edu.bd)	02 May, 2017- 14 July, 2018

EDUCATION

Name of Degree	Board/University	Subject/Group	Passing Year	Result
Ph.D.	Toyama Prefectural University, Japan	Biotechnology and Pharmaceutical Engineering	03/20/2026	Awarded
Master of Pharmacy (Thesis)	University of Rajshahi	Pharmacy	2014 (Held in 2016)	3.74 (Out of 4.00)
Bachelor of Pharmacy (4 Years Hon's)	University of Rajshahi	Pharmacy	2013 (Held in 2014)	3.75 (Out of 4.00)
Higher Secondary Certificate (HSC)	Rajshahi Board	Science	2008	5.00 (Out of 5.00)
Secondary School	Rajshahi Board	Science	2006	5.00

Certificate (SSC)				(Out of 5.00)
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MAJOR RESEARCH TECHNIQUES ACQUAINTED WITH

- Total synthesis & Design: Natural product synthesis, multi-step organic synthesis, route design, medicinal chemistry
- Analytical Method: TLC, NMR, HPLC, LCMS, GC-MS, IR, UV.
- Microbiology: Liquid and solid culture of bacteria and isolation, identification and characterization of bacteria.
- Determination of antimicrobial activities, MIC, MBC.

RESEARCH INTEREST

- Natural product for cancer prevention and treatment, Mechanistic investigation of anticancer natural products, Total synthesis, Microbiology, Biotechnology, Molecular Biology, Cell Biology, Oncology, Antibiotic resistance etc.

COMPUTER SKILL

- Competent with most Microsoft Office Programs and internet browsing.

LANGUAGE PROFICIENCY

- Bengali (Mother tongue)
- English (Listening, Reading, Writing and Speaking)

SCHOLARSHIP / AWARDS

- Ministry of Education, Culture, Sports, Science and Technology (MEXT) scholarship, Japan for Ph.D. program, 2021.
- Best Award for Poster Presentation at ISE-SFEC conference, 2018.
- National Science and Technology (NST) fellowship, Ministry of Science & Technology, Government of the people's Republic of Bangladesh M. Pharm(Thesis), 2016
- Rajshahi University Master Merit Scholarship, 2016
- Rajshahi University Honours Merit Scholarship, 2015.
- Sonali Bank Scholarship in Honours level, 2014.

PROFESSIONAL MEMBERSHIP

- Registered "A" grade Pharmacist, Bangladesh Pharmacy Council, Dhaka, Bangladesh. Registration No. A-10613

COFERENCES/SEMINARS/WORKSHOP/TRAINING ATTENDED

- International conference on "Translational Research in Biochemistry for Better Life and sustainable Development held at senate Bhaban University of Rajshahi, Organized by Department of Biochemistry and Molecular biology, University of Rajshahi, Bangladesh on 06 September, 2018.

- 18th International Congress of International Society for Ethnopharmacology and 5th International Congress Society for Ethnopharmacology, India held at Nabab Nawab Ali Chowdhury Senate Bhavan organized by Department of Pharmacy, Faculty of Pharmacy, University of Dhaka, Bangladesh; during 13-15 January, 2018.
- Attending workshop on “Computer Aided Drug Design” (CADD) held on 19 January 2018 at Khwaja Yunus Ali University organized by Department of Pharmacy, Enayetpur, Sirajgonj, Bangladesh.
- SQUARE-ACI International Conference on Biotechnology in Health and Agriculture 2017 Held in NababNawab Ali chowdhury Senate Bhaban at University of Dhaka, Bangladesh from 29-30 December 2017.
- Training on biosafety & biosecurity covering courses on basis of laboratory safety, general laboratory safety, biosafety & biosecurity, chemical safety and biological waste management from January 06, 2017 to January 07, 2017.
- In-plant training at Eskayef Bangladesh Limited in different units of technical division (warehouse, solid dosage formulations, topical & liquid preparations, product development, quality assurance and engineering), finance and administration division from February01,2014 to February 22, 2014.
- Attending the first divisional environment Olympiad held on 03 May, 2014 at Rajshahi University, Rajshahi-6205, Bangladesh.

PUBLICATIONS

1. Azumi Kasashima, **Md. Masud Rana**, Taisei Matoba, Chouma Kurihashi, Issey Osaka, Keisuke Fukaya, and Daisuke Urabe. Synthesis of the Decalin Structure of Cladoic acid. *Bioscience, Biotechnology, and Biochemistry*. **2026**, 90, 10-16.
2. **Md. Masud Rana**, Taku Oshima, Ei Horiuchi, Issey Osaka, Yasuhiro Igarashi, and Daisuke Urabe. Synthesis of farinomaleins and their antimicrobial activities. *Bioscience, Biotechnology, and Biochemistry*. **2025**, 89, 1557-1562.
3. **Md. Masud Rana**, Shiyang Lu, Tatiana Ascencio Menjivar, Keisuke Fukaya, Junko Nakajima-Shimada, Daisuke Urabe, and Yasuhiro Igarashi. Cladoic Acid, an Anti-*Trypanosoma cruzi* Polyketide from *Cladosporium* sp. TP-F2020. *Journal of Natural Products*. **2024**, 87, 2126-2131.
4. Most. Reshma Akter, Md. Shafiqul Islam, **Md. Masud Rana**. Comparative Evaluation of *In Vitro* Physicochemical Parameters of Some Commercially Available Metformin HCl 500mg Tablets in Bangladesh. *International Journal of Innovative Science and Research Technology*. **2020**, 5, 1019-1023.
5. Most Reshma Akter, Md. Khokon Miah Akanda, Md. Shafiqul Islam, **Md. Masud Rana**. Assessment of drug utilization pattern among outpatients in the orthopedic department of several private clinics in Rajshahi city, Bangladesh. *International Journal of Pharmaceutical Science and Research*. **2020**, 5, 13-16.
6. Thanmin Jarana Thammi, **Md. Masud Rana**, Farhanur Rahman, Apu Banik and Md. Anwar Ul Islam. *In vitro* Development of Resistance to Azithromycin in *Pseudomonas aeruginosa*. *Bangladesh Pharmaceutical Journal*. **2018**, 21, 42-46.

7. **Md. Masud Rana** and Md. Anwar Ul Islam. Isolation, Characterization and Antimicrobial Activities of the Metabolites from Different Sources of Bangladesh. *Bangladesh Pharmaceutical Journal*. **2017**, 20, 172-179.
8. **Md. Masud Rana** and Md. Anwar Ul Islam. In-vitro Assessment of Antimicrobial and Cytotoxic Activities of Crude Metabolites of DADA-1AIMR-24, a Bacterium Isolated from Soil in Bangladesh. *Science Arena Publications. Specialty Journal of Biological Sciences*. **2017**, 3, 20-28.
9. **Md. Masud Rana** and Md. Anwar Ul Islam. Isolation and In-vitro Antineoplastic Activities of Bioactive Metabolites Isolated from a Bacterium, DADA-1AIMR-24. *International Journal of Research in Pharmacy and Biosciences*. **2017**, 4, 1-6.
10. Thanmin Jarana Thammi, **Md. Masud Rana** and Md. Anwar Ul Islam. Lipid Peroxidation and Antioxidant Status in Bangladeshi Myocardial Infarction Patients. *International Journal of Research in Pharmacy and Biosciences*. **2017**, 4, 1-6.
11. **Md. Masud Rana**, Thanmin Jarana Thammi and Md. Anwar Ul Islam. Evaluation of Serum Antioxidants and Lipid Peroxidation Status in Bangladeshi Obese Patients. *Science Arena Publications. Specialty Journal of Medical research and Health science*. **2017**, 2, 26-34.
12. **Md. Masud Rana**, Thanmin Jarana Thammi, Shamima Akhter and Md. Anwar Ul Islam. In-Vitro Evaluation of Antioxidant, Membrane Stabilizing and Anthelmintic Activities with Phytochemical Screening of Methanolic Extract of *Alpinia Conchigera* Griff. *International Journal of Research in Pharmacy and Biosciences*. **2017**, 4, 16-23.
13. Thanmin Jarana Thammi, **Md. Masud Rana** and Md. Anwar Ul Islam. In-Vitro Assessment on Oxidative Stress and Antioxidant Status in Bangladeshi Peptic Ulcer Patients. *International Journal of Research in Pharmacy and Biosciences*. **2017**, 4, 6-11.
14. Sanjay Dutta, **Md. Masud Rana**, Md. Ekramul Islam, Md. Anwar Ul Islam. Evaluation of Protein Denaturation, Membrane Stabilizing and Cytotoxic Activities of Ethanol Extract of *Ficus hispida* L. *Fruits. Khwaja Yunus Ali Univ. J.* **2017**, 2, 7-13.
15. Md. Anwarul Haque, **Md. Masud Rana**, Koly Aktar, Md. Uzzal Haque, Md. Aktar Uzzaman Chouduri and Md. Anwar Ul Islam. In-vitro Antioxidant and Cytotoxic Activity of Crude Extracts of *Pleurotus highking*, a Potential Oyster Mushroom. *British Journal of Pharmaceutical Research*. **2016**, 14, 1-7.

ABSTRACT PUBLISHED IN CONFERENCE

1. Most. Reshma Akter, **Md. Masud Rana**, Md. Shafiqul Islam and Md. Aktar Uzzaman Chowduri. Mineral Zinc of Mango Juice Robustly Inhibits Urease Enzyme Purified from Uropathogen *Proteus*: A Target of Kidney Stone Prevention. Conference Title: Translational Research in Biochemistry for Better Life and sustainable Development. Date: September 06, **2018**. Place: senate Bhaban, University of Rajshahi, Rajshahi-6205, Bangladesh.
2. **Md. Masud Rana** and Md. Anwar Ul Islam. Antimicrobial and Anticancer Activities of Crude Metabolites of DADA-1AIMR-24, a Bacterium Isolated from Soil in Bangladesh. Conference Title: Ethnopharmacology and Drug Development: Innovation meets Tradition. Date: January 13-15, **2018**. Place: Nabab Nawab Ali senate Bhaban, Dhaka University, Bangladesh.

REFERENCES

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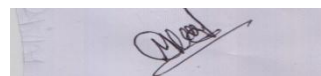
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SIGNATURE AND DECLARATION

I, hereby, declare that each of the information cited above is true and any intentionally made mistake will result me in disqualification.



(Md. Masud Rana)