

MD. Hasanur Rahman

Graduate Research Assistant

Bangladesh Agricultural University
Mymensingh-2202, Bangladesh.

Email: hasanurrahman.bge@gmail.com

Phone: +8801650158512

ResearchGate 

Google Scholar 

ORCID 

LinkedIn 

Personal Website 

ACADEMIC CREDENTIALS

Faculty of Life Sciences, Bangabandhu Sheikh Mujibur Rahman Science and Technology University,
Gopalganj-8100, Bangladesh.

Bachelor of Science (Hons.), Biotechnology and Genetic Engineering

Academic Year: Jan 2017 - Dec 2020 (Graduated Jan, 2022)

Result: 2.86/4.00 | 82th Percentile

Major Courses: Biotechnology, Microbiology, Oncology and Virology, Molecular Biology, Biochemistry, Immunology, Cell Signaling, Genetic Engineering, Human Physiology, Biostatistics, Bioinformatics, etc.

NOTABLE PUBLICATIONS

1. MD. Hasanur Rahman, et al. (2022). An In-Silico Identification of Potential Flavonoids against Kidney Fibrosis Targeting TGF β R-1. *Life*, 12(11), DOI: [10.3390/life12111764](https://doi.org/10.3390/life12111764) [JCR IF: 2.943]
2. Salima Akter, et al. (2022). Dietary Carbohydrates: Pathogenesis and Potential Therapeutic Targets to Obesity-associated Metabolic Syndrome. *BioFactors*, 48(5), DOI: [10.1002/biof.1886](https://doi.org/10.1002/biof.1886) [JCR IF: 6.438]
3. Md. Sarwar Zahan, et al. (2022). Protective effects of fucoidan against kidney diseases: Pharmacological insights and future perspectives. *International Journal of Biological Macromolecules*, 209. DOI: [10.1016/j.ijbio-mac.2022.04.192](https://doi.org/10.1016/j.ijbio-mac.2022.04.192) [JCR IF: 6.953]
4. Abdullah Al Mamun Sohag, et al. (2022). Molecular pharmacology and therapeutic advances of the pentacyclic triterpene lupeol. *Phytomedicine*, 99, p.154012. DOI: [10.1016/j.phymed.2022.154012](https://doi.org/10.1016/j.phymed.2022.154012) [JCR IF: 5.340]
5. Md. Ataur Rahman, et al. (2022). p53 Modulation of Autophagy Signaling in Cancer Therapies: Perspectives Mechanism and Therapeutic Targets. *Frontiers in Cell and Developmental Biology*, 10. DOI: [10.3389/fcell.2022.761080](https://doi.org/10.3389/fcell.2022.761080) [JCR IF: 6.684]
6. Md. Ataur Rahman, et al. (2022). Potential Therapeutic Action of Autophagy in Gastric Cancer Managements: Novel Treatment Strategies and Pharmacological Interventions. *Frontiers in Pharmacology*, 12. DOI: [10.3389/fphar.2021.813703](https://doi.org/10.3389/fphar.2021.813703) [JCR IF: 5.810]
7. Md Aminul Islam, et al. (2022). Evaluation of In Vitro and In Silico Anti-inflammatory Potential of Some Selected Medicinal Plants of Bangladesh Against Cyclooxygenase-II Enzyme. *Journal of Ethnopharmacology*, 285, 114900. DOI: [10.1016/j.jep.2021.114900](https://doi.org/10.1016/j.jep.2021.114900) [JCR IF: 4.360]
8. Partha Biswas, et al. (2021). Analysis of SYK Gene as a Prognostic Biomarker and Suggested Potential Bioactive Phytochemicals as an Alternative Therapeutic Option for Colorectal Cancer: An In-Silico Pharmacoinformatics Investigation. *Journal of Personalized Medicine*. DOI: [10.3390/jpm11090888](https://doi.org/10.3390/jpm11090888) [JCR IF: 4.945]

9. Md. Ataur Rahman, et al. (2021). Phytochemicals as a Complement to Cancer Chemotherapy: Pharmacological Modulation of the Autophagy-Apoptosis Pathway. *Frontiers in Pharmacology*, 12. DOI: [10.3389/fphar.2021.639628](https://doi.org/10.3389/fphar.2021.639628) [JCR IF: 5.810]
10. Bishajit Sarkar, et al. (2021). Analysis of Plant-derived Phytochemicals as Anti-cancer Agents Targeting Cyclin Dependent Kinase-2, Human Topoisomerase IIa and Vascular Endothelial Growth Factor Receptor-2. *Journal of Receptors and Signal Transduction*, 41, 217-233. DOI: [10.1080/10799893.2020.1805628](https://doi.org/10.1080/10799893.2020.1805628) [JCR IF: 2.092]
11. Bishajit Sarkar, et al. (2020). Designing Novel Epitope-based Polyvalent Vaccines Against Herpes Simplex Virus-1 and 2 Exploiting the Immunoinformatics Approach. *Journal of Biomolecular Structure and Dynamics*, pp.1-21. DOI: [10.1080/07391102.2020.1803969](https://doi.org/10.1080/07391102.2020.1803969) [JCR IF: 3.549]
12. MD. Hasanur Rahman, et al. (2020). Current Knowledge on Mechanisms Involved in SARS-CoV-2 Infection and Kidney Diseases. *Journal of Advanced Biotechnology and Experimental Therapeutics*, 3(4), p.30. DOI: [10.5455/jabet.2020.d153](https://doi.org/10.5455/jabet.2020.d153) [Scopus Indexed]
13. Md. Asad Ullah, et al. (2020). Curcumin Analogs as the Inhibitors of TLR4 Pathway in Inflammation and their Drug Like Potentialities: A Computer-Based Study. *Journal of Receptors and Signal Transduction*, 40, 324-338. DOI: [10.1080/10799893.2020.1742741](https://doi.org/10.1080/10799893.2020.1742741) [JCR IF: 2.092]

CONFERENCE PAPERS/POSTERS

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|---|------------------|
| General Laboratory Safety and Development of SOP, Conference: Hands-on Training in Laboratory Biosafety and Biosecurity 2020 at Jahangirnagar University, Bangladesh. | Conference Paper |
| Designing Novel Epitope Based Vaccine Against Human Respiratory Syncytial Virus, Presented in "4th Latin American Student Council Symposium (LA-SCS) 2020" | Poster |
| Computational Exploration of Curcumin Analogs to Identify Natural Anti-inflammatory Drugs, Presented in "European Student Council Symposium 2020" | Poster |
| In-Silico Approach to the Analysis of Plant-derived Phytochemicals as Anticancer Agents, Presented in "International Poster Presentation Competition 2020" | Poster |

RESEARCH EXPERIENCES

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|---|---------------------|
| Research Assistant at ABEx Bio-Research Center , East Azampur, Dhaka-1230, Bangladesh. | Aug 2019 - Present |
| Focus: Reviewing Emerging Research Findings, Molecular Pharmacology Strategies and Drug Designing Using In-Silico Techniques. | |
| Research Assistant (Virtual) at Department of Pathology, College of Korean Medicine , Kyung Hee University, Seoul, 02447, Republic of Korea. | Feb 2022 - Dec 2022 |
| Focus: Molecular Signaling Pathways Design, Reviewing Cancer Immunotherapies. | |
| Bioinformatician and Designer at Swift Integrity Computational Lab , Savar, Dhaka, Bangladesh. | Nov 2019 - Dec 2021 |
| Focus: Anticancer Phytochemicals Analysis, Designing and Developing Molecular Biology Pathways. | |

Research Fellow under a Ministry of Education Research Project Titled: Effects of Insulin on Breast Cancer Growth and Proliferation Among Diabetic Patients in Bangladesh, [Bangladesh University of Health Science \(BUHS\)](#), Dhaka, Bangladesh.

Mar 2021 - Jun 2021

ORGANIZING LEADERSHIP EXPERIENCES

Executive Member of [1st BSMIAB-COB International Conference on COVID-19 Pandemic](#) (Virtual)

Nov 2020

Managing Team Leader of [International Biotech Symposium 2021](#) (Virtual)

Feb 2021

Executive Member of [2nd BSMIAB-COB International Conference On COVID-19 Pandemic](#) (Virtual)

Nov 2021

TECHNICAL SKILLS

Molecular Docking, Dynamic Simulation, Scientific Figure Illustrations, Biological Data Visualization, Computer-aided Drug & Vaccine Design, Cancer Informatics, Protein Modeling, Alignment & Analysis, DNA Sequencing Algorithms, Tools for Genomic Data Science, etc.

Dry- Lab Expertise

Microbial Cell Culture, PCR, Animal Handling, UV Techniques, Centrifuge, Western Blot Analysis, etc.

Wet-Lab Expertise

Linux, Python, Biopython, Pymol, Schrödinger Suite, Javascript, PHP, Django, Endnote, Mendeley, Adobe illustrator, Adobe Indesign, Adobe Photoshop, etc.

Tools & Softwares

PERSONAL SKILL DEVELOPMENT

Programming for Everybody (Getting Started with Python) (19 hrs)

Instructed by: Charles Russell, University of Michigan

[Credential](#)

Jul 2020

Python Data Structures (19 hrs)

Instructed by: Charles Russell, University of Michigan

[Credential](#)

Jul 2020

Genomic Data Science with Galaxy (16 hrs)

Instructed by: James Taylor, PhD, Johns Hopkins University

[Credential](#)

May 2020

Introduction to Genomic Technologies (6 hrs)

Instructed by: James Taylor, PhD & Jeff Leek, PhD, Johns Hopkins University

[Credential](#)

Apr 2020

AWARDS

1. 4th Position out of Top 15 Researchers List 2021, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Published by Scopus.

Jan 2022

2. Best Performing Research Assistant Award of 2020, ABEx Bio-Research Center, East Azampur, Dhaka-1230, Bangladesh.

Dec 2021

3. 6th Position out of 14th Team in Bangladesh, International Hult Prize on campus 2019.

Jul 2019

PROFESSIONAL VOLUNTEERING EXPERIENCES

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|---|---------------------|
| Chief Operating Officer, Communiy of Biotechnology (COB) | Sep 2020 - Present |
| Editorial Assistant, Journal of Advanced Biotechnology and Experimental Therapeutics | Jun 2020 - Present |
| Founding Licensee & Organizer, TEDx BSMRSTU , TEDx BSMRSTU-Women | Nov 2020 - Feb 2022 |
| Chief of Visual Arts, TEDx Juniv & TEDx SUST | Aug 2020 - Mar 2021 |
| Steering Committee Core Member, ISCB RSG-Bangladesh | May 2020 - Dec 2021 |
| Campus Ambassador, Biotech Club, Jahangirnagar University | Oct 2019 - Dec 2019 |

LANGUAGE PROFICIENCY

International English Language Testing System (IELTS), Academic. Result Published on 18th Apr, 2022

| Overall | Listening | Reading | Writing | Speaking |
|---------|-----------|---------|---------|----------|
| 5.5 | 5.5 | 5.0 | 5.0 | 5.5 |

REFERENCES

Md. Abdul Hannan, PhD

Professor
Department of Biochemistry and Molecular Biology
Bangladesh Agricultural University,
Mymensingh, Bangladesh.
Email: hannanbmb@bau.edu.bd
Alt. Email: hannanbau@gmail.com
Phone: +8801719538440

Md. Sarafat Ali, PhD

Assistant Professor
Department of Biotechnology and Genetic
Engineering, Bangabandhu Sheikh Mujibur Rahman
Science and Technology University, Gopalganj-8100,
Bangladesh.
Email: sarafatbiotech@bsmrstu.edu.bd
Alt. Email: sarafatbiotech@ynu.ac.kr
Phone: +8801714775662

Md Jamal Uddin, PhD

Chief Executive Officer
ABEx Bio-Research Center
East Azampur, Dhaka-1230, Bangladesh.
Email: hasan800920@gmail.com
Alt. Email: research@abexbio.com
Phone: +8801943760028

Md. Masudur Rahman, PhD

Professor
Department of Pathology,
Faculty of Veterinary, Animal and Biomedical Sciences
Sylhet Agricultural University ,
Sylhet 3100, Bangladesh.
Mobile: +880 1712 056 240
E-mail: rahmanmm.dpp@sau.ac.bd

Md. Ataur Rahman, PhD

Research Professor
Department of Pathology, College of Korean Medicine
Kyung Hee University, 26 Kyungheedaero,
Dongdaemun-gu, Seoul, 02447, Republic of Korea.
Mobile: +82-10-8691-1323
E-mail: rahman23@khu.ac.kr
Alt. Email: ataur1981rahman@hotmail.com

Bonglee Kim M.D., PhD

Associate Professor
Department of Pathology, College of Korean Medicine
Kyung Hee University, Seoul, 02447, Republic of Korea.
Email: bongleekim@khu.ac.kr
Phone: +821090001406