

CURRICULUM VITAE

Hasan Mahmud Reza, PhD

Professor

Department of Pharmaceutical Sciences

North South University

Bangladesh

Fellow, Bangladesh Academy of Sciences

Member, National Research Ethics Committee

Former Dean, School of Health and Life Sciences, NSU

Former Chairman, Department of Pharmaceutical Sciences, NSU

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Scopus profile:

<https://www.scopus.com/hirsch/author.uri?accessor=authorProfile&auIdList=6603830556&origin=AuthorProfile>

Web of Science profile:

<https://www.webofscience.com/wos/author/record/1378795>

Researchgate profile:

<https://www.researchgate.net/profile/Hasan-Reza>

My bibliography

<https://www.ncbi.nlm.nih.gov/myncbi/dr.%20hasan.mahmud%20reza.1/bibliography/public/>

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Summary

I have over 27 years of teaching and research experience and 9 years of administrative experience in reputed universities and institutes in Bangladesh, Japan and Singapore.

Career: I started my career as a Product Officer in Beximco Pharmaceuticals Ltd., however, ended it shortly to join Khulna University as a Lecturer in the Pharmacy discipline in 1997. Having obtained my PhD in 2002 from Nara Institute of Science and Technology (NAIST), Japan, I worked as a Postdoctoral Fellow at NAIST, and then, joined the Faculty of Biological Sciences as an Assistant Professor in 2004 where I rendered my service for 3 years. In 2007, I joined North South University in the Department of Pharmaceutical Sciences. During 2008-2010, I worked as a Research Scientist/Fellow at Singapore Eye Research Institute (SERI) under the National University of Singapore. I performed as the Chair of the Department of Pharmaceutical Sciences for 5 years, and as the Dean of the School of Health and Life Sciences for 4 years at NSU.

Education: I completed my Bachelor of Pharmacy and Master of Pharmacy from the University of Dhaka. I earned my PhD in Biological Sciences from the Nara Institute of Science and Technology (NAIST), Japan in 2002 with a scholarship from the Japanese government (MONBUSHO). I obtained my pre-university education from Jhenidah Cadet College, Jhenidah. I was granted merit scholarships at all levels of my education.

Research and community engagement: I am an active researcher. Currently, I am leading several research groups working on pharmacology of the natural products, pharmaceutical dosage form development, behavioral neuroscience and antimicrobial resistance. I have published 128 research articles in renowned peer-reviewed journals including, *Science, British Medical Journal, Lancet-Regional Health-SA, Scientific Reports, Biomedicine and Pharmacotherapy, Plos one and Heliyon*. My google scholar citations are over 5000 and Scopus citations are over 3200. I am serving as an Associate Editor of the journal *Frontiers in Public Health*. I am an elected Fellow of the Bangladesh Academy of Sciences (BAS) and a member of the National Research Ethics Committee (NREC). I am also an active member of different social and professional organization/associations.

Awards and notable achievements: I have received the ‘Chancellor’s Award’ in recognition of the academic performance in the Secondary School Certificate Examination from the government of Bangladesh. I have also received ‘Dean’s Award’, ‘Research Excellence Award’ as well as ‘Best Researcher Award’ for outstanding research performance from NSU. I have received over 10 research grants from different sources. I am also up for the UGC Gold Medal for exceptional research outcome (to be awarded).

APPOINTMENT HISTORY

Position	Institution	Duration
Professor	North South University	May ‘24 to date
Dean School of Health and Life Sciences	North South University	June ‘21 to April ‘24
Acting Dean School of Health and Life Sciences	North South University	May ‘20 to May ‘21
Professor Department of Pharmaceutical Sciences	North South University	Jul ‘18 to May ‘20

Professor and Chairman , Department of Pharmaceutical Sciences	North South University	Mar '15 to Jun '18
Acting Dean , School of Health & Life Sciences	North South University	18 Jul to 16 Sep, 2016
Associate Professor and Chairman Department of Pharmacy	North South University	Jan '13 to Mar '15
Associate Professor	North South University	Dec'11 to Jan'13
Assistant Professor Department of Pharmacy	North South University	Jan'11 to Dec'11
Research Scientist	Singapore Eye Research Institute, Singapore	Feb '09 to Dec'10
Research Fellow	Singapore Eye Research Institute (SERI), Singapore	Jul '08 to Jan '09
Assistant Professor Department of Pharmacy	North South University	Jan '07 to Jul '08
Assistant Professor Laboratory of Molecular and Developmental Biology, Dept. of Molecular Biology, Graduate School of Biological Sciences	Nara Institute of Science & Technology, Japan	Apr '04 to Dec '06
Post-Doctoral Research Fellow (COE) Laboratory of Molecular and Developmental Biology Graduate School of Biological Sciences	Nara Institute of Science & Technology, Japan	Nov '02 – Mar '04
Post-Doctoral Research Fellow (NAIST Foundation) Laboratory of Molecular and Developmental Biology,	Nara Institute of Science & Technology, Japan	Jul '02 – Oct '02
Lecturer , Discipline of Pharmacy	University of Khulna, Khulna	Oct'97 – Mar'98
Product Officer in the Central Product Management Department	Beximco Pharmaceuticals Ltd., Dhaka	Jun '96 – Sep '97

SPECIAL APPOINTMENT (National level)

Fellow, Bangladesh Academy of Sciences (BAS)

Member, National Research Ethics Committee, Bangladesh Medical Research Council (July 2019-)

RESPONSIBILITIES

As Dean, School of Health and Life Sciences

Reporting directly to the Pro Vice-Chancellor or Vice-Chancellor, the position has the following major responsibilities:

- supervise the operations of Advanced Bioscience Research Center, NSU Genome Research Institute (NGRI), and NSU Global Health institute (NGHI).
- provide strong academic leadership to meet the university's vision and mission.
- develop and sustain appropriate strategies for the smooth management of the concerned departments under the school.
- create strategies to conduct cutting-edge research in line with the school's vision.
- create and exploit new opportunities for knowledge transfer activity to enter new areas of teaching and research.
- promote and represent the school and university both internally and externally.
- contribute to university-wide initiatives to improve the rankings of the university.

As Professor and Chairman, Department of Pharmaceuticals Sciences

Reporting directly to the Dean, School of Health and Life Sciences, the position had the following major responsibilities:

- provide strong academic leadership
- develop and sustain appropriate structures for management, consultation, and communication with faculty and students
- ensure the best possible student experience through the fulfillment of students needs
- create a dynamic and up-to-date research environment for both faculty and students
- promote and represent the department both internally and externally
- contribute to university-wide initiatives in order to improve ranking of the university

RESEARCH GRANTS AWARDED as Principal Investigator

- Cervical Cancer Screening and Survey Using the "See and Treat" Approach. Funding source: NSU-UIU collaborative grants (2022); Tk. 499,530
- A QbD-based approach to developing a scale-independent design space for curcumin-loaded monoacyl phosphatidylcholine/cremophor EL superstable nanoparticles for diverse clinical applications. Funding Source: NSU (2021-2022); Tk. 500,000
- A novel phytosome development from *Carica papaya* for the treatment of dengue. Funding source: BANBEIS, Ministry of Education, Bangladesh (2021-24); Tk. 1,100,000.
- A survey on knowledge, attitude and practice among quack doctors and pharmacy shopkeepers towards the use of antibiotics in rural Bangladesh. Funding source: BMRC (2020-21); Tk. 400,000.
- Development of resveratrol containing Self-nano emulsifying drug delivery systems (SNEDDS) to enhance bioavailability and efficacy of drug. Funding source: BMRC (2020-21); Tk. 500,000.
- Post-market in-vitro quality assessment of different brands of ciprofloxacin 500 mg tablet. Funding source: BMRC (2019-20); Tk. 500,000. Development of a novel formulation of Flutamide using self-nanoemulsifying drug delivery systems (SNEDDS) to increase bioavailability and reduce hepatotoxicity via Quality by Design (QbD) approach. Funding Source: NSU (2019-2020); Tk. 498500.
- Study of Antioxidants for the prevention and treatment of cardiovascular disorder in rats. Funding source: BANBEIS, Ministry of Education, Bangladesh (2018-20); Tk. 2,200,000.
- Evaluating the role of natural antioxidants in diet-induced obesity and fat metabolizing gene expression in animal models. Funding source: Ministry of Science and Technology, Bangladesh (2016). Tk. 300,000.

- Expression profiling of c-Maf and Sox2 in limbal tissue as possible stem cell markers and cultivation of limbal stem cells in vitro for clinical transplantation. Funding source: NSU (2013-2014); Tk. 350,000.
- Functional analysis of maf family members in chick lens development. Principal Investigator. Funding source: Ministry of Education, Science, Sports, and Culture of Japan, Japan (Apr 2004-Mar 2006); amount: 300,0000 Japanese yen.
- Study of HtrA gene in embryonic chick eye. Principal Investigator. Funding source: Ministry of Education, Science, Sports, and Culture of Japan, Japan (Apr 2005-Mar 2006); amount: 180,0000 Japanese yen.

As a co-investigator: Building Capacity to Study Mixed Metal-Induced Neurotoxicity in Bangladeshi Children. Funding source: NIH (1R01ES032149-01A1), (2021-2026); amount US\$ 575,138

AWARDS AND HONORS

1. Researcher Excellence Award (2022) from North South University for Outstanding Research Performance during 2021-2022 (Bronze).
2. Best Researcher Award (2021) from North South University for Outstanding Research Performance during 2018-2020.
3. Dean's Award (2016) from North South University for Outstanding Research Performance during 2011-2015.
4. Best Poster- SingHealth Duke-NUS Scientific Congress 2012, Raffles City Convention Center. Singapore.
5. Alcon Research Prize (Best Paper, Senior category), NHG International Ophthalmology Congress 2009, Singapore.
6. NHG-NUHS Silver Award, NHG International Ophthalmology Congress 2009, Singapore.
7. Japanese Govt. Scholarship (MONBUSHO) for post-graduate studies in the Nara Institute of Science and Technology (1998-2002).
8. Chancellor Award for outstanding result in Secondary School Certificate Examination (1986).

RESEARCH SUPERVISION

- One PhD student of Jahangirnagar University
- Over 50 Master's thesis
- Over 150 undergraduate research projects

As an international thesis evaluator (India)

As a convener of the PhD thesis committee (Dhaka University)

As an external member of the PhD thesis committee (Dhaka University)

As an external examiner of the PhD & M Phil thesis (Dhaka University)

As an external examiner of the M Pharm thesis (Dhaka Univ. & Jahangirnagar Univ., Khulna Univ.)

Clinical trial

Acted as the member of the Data Monitoring Committee (DMC) for the phase III clinical trial titled 'Effectiveness of Calcium Channel Blockade for Organophosphorus and Carbamate Pesticide Poisoning - an Open, Pragmatic, 3-arm RCT Repurposing Two Widely Available Licensed Medicines (NCT03925025).' The role of the Data Monitoring Committee (DMC) was to monitor the data

emerging from the trial, in particular as they relate to the safety of participants, and to advise the Trial Steering Committee on whether there are any reasons for the trial not to continue. It is the only body involved in the trial that has access to the unblinded (unmasked) comparative data during the trial.

Reviewer for BMRC

I have reviewed more than 60 scientific protocols for ethical approval as a NREC member.

PROFESSIONAL AFFILIATIONS

- Fellow (2021-), Bangladesh Academy of Sciences (BAS)
- President (2017-), Bangladesh Neuroscience Society (BNSS)
- Member (2019-), National Research Ethics Committee (NREC, BMRC, Bangladesh)
- Member (2018-), Institutional Review Board (IRB), NSU
- Member (2018-), Institutional Animal Care and Use Committee (IACUC), NSU
- Member, (1995-), Bangladesh Pharmaceutical Society Association (BPSA)
- Member (1995-), Pharmacy Graduates Association, Bangladesh (PGA)
- Life Member (2017-), Japanese Universities Alumni Association in Bangladesh (JUAAB)
- Life member (1988-), Jhenidah Ex-Cadet Association (JEXCA)
- Member (2017-), Dhaka University Pharmacy Alumni Association (DUPAA)

Editorial affiliation

- **Associate Editor** (2022-) Frontiers in Public Health (Scopus indexed)
- **Editorial Board Member** (2023-) Oncology Research (Scopus indexed)
- **Editorial Board Member** (2023) Eurasian Journal of Medicine and Oncology (Scopus indexed)
- **Editorial Board Member** (2023-) Academia Biology
- **Editorial Board Member** (2022-) Bangladesh Pharmaceutical Journal
- **Reviewed many articles for different journals.**

- **As the Chair of the Organizing Committee for International Conference**
 - Organized the 1st International Conference on Genomics, Nanotech and Bioengineering in 2017 (ICGNB-2017) in Dhaka. A total of 380 papers were presented (oral and poster).
 - Organized the 2nd International Conference on Genomics, Nanotech and Bioengineering in 2022 (ICGNB-2022) in Dhaka. A total of 460 papers were presented (oral and poster).
 - <http://www.icgnb.org>

Attended over 120 public health awareness programs as a speaker in mass media (national and private TV Channels) during 2020-2022 (<https://www.facebook.com/drhasanmahmudreza>).

ACADEMIC QUALIFICATION

- 2002** **Ph.D in Biological Sciences**, Nara Institute of Science & Technology (NAIST), Laboratory of Molecular and Developmental Biology, Graduate School of Biological Sciences, Japan.
- Thesis Title:** The role of Pax6 and L-Maf in lens development.
- Major Contribution:** Proposed a gene cascade involved in chick lens development program.

- 1997*** **MPharm**, Dept. of Pharmacy, Faculty of Biological Sciences, University of Dhaka, Dhaka, Bangladesh, 1st class (positioned 3rd)
- 1994**** **BPharm**, Dept. of Pharmacy, Faculty of Biological Sciences, University of Dhaka, Dhaka, Bangladesh, 1st class (positioned 6th)
- 1988** **H.S.C (Science)**, Secured **1st** Division (5th in the combined merit list from Jhenidah Cadet College).
- 1986** **S.S.C (Science)**, Secured **1st** Division (7th in the combined merit list from Jhenidah Cadet College).
 *(session 1991-1992, exam held in May, 1995); ** (session: 1988-1991, exam held in October, 1993)
Awarded merit scholarship at all levels of education.

AREAS OF EXPERTISE

- **Molecular biology and biochemistry:** Gene cloning, plasmid construction, transformation, DNA amplification, prokaryotic protein expression and purification, primer designing, Real-time PCR, DNA/RNA gel electrophoresis, SDS-PAGE, DNA and RNA extraction, northern blot, western blot, DNA sequencing, gel-shift assay, RNAi experiment, polyclonal antibody production, cell-culture, reporter assay, RNA probe preparation, in-situ hybridization, immunostaining etc.
- **Cell culture:** Umbilical cord stem cell culture, primary human limbal and conjunctival epithelial culture, primary rabbit conjunctival culture, culture of different cell lines from human and animals (3T3, Hela, HCE etc.), targeted differentiation of stem cell, FACS etc.
- **Tissue-engineering and transplantation:** Engineering of primary eye cells or umbilical cord stem cells into cellsheet. Transplantation of tissue construct on rabbit eye. Cell sheet grafting in SCID mouse etc
- **Epithelial culture for transplantation:** Limbal epithelial culture, conjunctival epithelial culture, buccal mucosa epithelial culture for grafting in patient eye
- **Embryology:** Staging chick embryo, embryo isolation, in-ovo electroporation
- **Histology:** Microscopy, slide preparation, paraffin and cryosectioning, HE staining. Pharmaceutical Technology and Pharmacology research
- **Pharmaceutical dosage form development** (QbD-based and nanotechnology)
- **Pharmacological studies with natural products and available molecules using animal disease models** (oxidative stress, cardiovascular disease and neuro-disorder)
- **Survey based studies**

JOURNAL PUBLICATIONS (123)

Citations: **5411**; h-index: **38**; i10-index: **84** (Source: Google Scholar, August 2024)

ORCID ID: <https://orcid.org/0000-0003-3287-942X>

[Scopus Author ID: 6603830556](#)

[ResearcherID: AFL-0151-2022](#)

Journal publications:

1. **Reza HM**, Rono S, Chemoiwa E, Ayua E, Chebichii S, Mkrtchyan H, Eltholth M, Zemanay W, Farlow A, Cole J. Establishing equitable partnerships between the Global North and Global South. *The Lancet*. 2024 Aug 24;404(10454):746-7. (IF: 98.4)
2. Shama AT, Shova LM, Bristy AT, Emran T, Shabnam S, Shill MC, Bepari AK, **Reza HM**. Anti-obesity effects and underlying molecular mechanisms of the ethanolic extract of figs from *Ficus hispida* using high fat-fed Wister rats. *Heliyon*. 2024 Jul 30. (IF: 3.4)
3. Newaj SM, Kashem TB, Ferdous J, Jahan I, Rawshan H, Priority NJ, Rakib R, Sadman MA, Faruk FB, **Reza HM**, Sharker SM. Skin Cancer Treatment with Subcutaneous Delivery of Doxorubicin-Loaded Gelatin Nanoparticles and NIR Activation. *ACS Applied Bio Materials*. 2024 Aug 22. (IF: 4.6)
4. Bhowmik L, Hasan MK, Bristy TA, Etu ST, Karim R, Mostaid MS, Shill MC, **Reza HM**. A Comparison of COVID-19 and post-COVID-19 Syndrome Among Symptomatic and Asymptomatic Patients in Bangladesh: A Retrospective Cohort Study. *Heliyon*. 2024 Aug 15. (IF: 3.4)
5. Chowdhury MM, Kabir N, Ahmed R, Yokota K, Mullins R, **Reza HM**. Generation of monoclonal antibody against 6-Keto PGF1 α and development of ELISA for its quantification in culture medium. *Biochemistry and Biophysics Reports*. 2024 E-pub 8 June 1;39:101748. (IF: 2.3)
6. Khan SI, Karim R, Khan SI, Chowdhury MAK, Shill MC, Pasha FM, Shohag MH, Khan F, Islam MA, Mitul AI, Ahmad R, Hossain MS, **Reza HM**. Factors affecting severity and prognosis of traumatic brain injury among Bangladeshi patients: An institution based cross-sectional study. *Traffic injury prevention*. 2024 Jun 6:1-9. (IF: 2.3)
7. Karim R, Khan SI, Bari R, Akash MA, Chowdhury AK, Seum MA, Yousuf KN, **Reza HM**. Factors Affecting Stress and Depression in Bangladeshi Students: A Cross-sectional Study. *Asian Journal of Social Health and Behavior*. 2024 Apr 1;7(2):84-93. (IF: 5.0)
8. Tasnim KN, Rahman A, Newaj SM, Mahmud O, Monira S, Khan TZ, **Reza HM**, Shin M, Sharker SM. Trackable Liposomes for *In Vivo* Delivery Tracing toward Personalized Medicine Care under NIR Light on Skin Tumor. *ACS Appl Bio Mater*. 2024 May 6. doi: 10.1021/acsabm.4c00203. (IF: 4.7)
9. Bepari AK, Shatabda S, **Reza HM**. Virtual screening of flavonoids as potential RIPK1 inhibitors for neurodegeneration therapy. *PeerJ*. 2024;12. (IF: 3.8)
10. Shill MC, El-Nashar HA, Mollick PP, Acharyya RN, Afrin S, Hossain H, Halder S, Islam MT, Bhuia MS, **Reza HM**, El-Shazly M. Longevity spinach (*Gynura procumbens*) ameliorated oxidative stress and inflammatory mediators in cisplatin-induced organ dysfunction in rats: comprehensive in vivo and in silico studies. *Chemistry & Biodiversity*. 2024 Feb 15:e202301719. (IF: 2.9)
11. Namme JN, **Reza HM**, Bepari AK. Computational analysis and molecular dynamics simulation of high-risk single nucleotide polymorphisms of the ADAM10 gene. *Journal of Biomolecular Structure and Dynamics*. 2024 Jan 2;42(1):412-24. (IF: 4.4)
12. Bepari AK, Takebayashi H, Namme JN, Rahman GM, Reza HM. A computational study to target necroptosis via RIPK1 inhibition. *Journal of Biomolecular Structure and Dynamics*. 2023 Sep 22;41(14):6502-17. (IF: 4.4)
13. Shill MC, Rakib AA, Khan SI, Hossain M, Alam S, Hossain H, Karmakar UK, Bhuia MS, Shahriar M, **Reza HM**, et al. Polyphenol-Standardized *Aphanamixis polystachya* Leaf Extract Ameliorates Diabetes, Oxidative Stress, Inflammation, and Fibrosis in Streptozotocin-Induced Diabetic Rats. *Journal of Food Biochemistry*. 2024 Jan 2;2024. (IF: 3.65).
14. Shill MC, Biswas B, Islam M, Rima SS, Ferdausi FA, Chowdhury Q, **Reza HM**, Bepari AK. Screening of plasma IL-6 and IL-17 in Bangladeshi lung cancer patients. *Heliyon*. 2023 Sep 27;9(10):e20471. doi: 10.1016/j.heliyon.2023.e20471. eCollection 2023 Oct. (IF: 3.776)
15. Rahman MA, Shuvo AA, Apu MM, Bhakta MR, Islam F, Rahman MA, Islam MR, **Reza HM**. Combination of epigallocatechin 3 gallate and curcumin improves d-galactose and normal-aging associated memory impairment in mice. *Scientific Reports*. 2023 Aug 4;13(1):12681. (IF: 4.997)

16. Khan TZ, Newaj SM, Rahman A, Tabassum R, Tasnim KN, **Reza HM**, Reza MS, Hong S, Sharker SM. NIR-light-trigger delivery of Doxorubicin-loaded PLGA nanoparticles for synergistic cancer therapy on DMBA/TPA induced tumor mice. *Materials Advances*. 2023. (IF: 5.36)
17. Shohag MH, Kuddus SA, Brishty EM, Chowdhury SS, Hossain MT, Hasan M, Khan SI, Hossain M, Reza HM. Post-market quality assessment of 22 ciprofloxacin brands by HPLC available in Bangladesh market. *Heliyon*. 2023 Jun 12. (IF: 3.776)
18. Johra FT, Hossain S, Jain P, Bristy AT, Emran T, Ahmed R, Sharker SM, Bepari AK, **Reza HM**. Amelioration of CCl₄-induced oxidative stress and hepatotoxicity by *Ganoderma lucidum* in long evans rats. *Scientific Reports*. 2023 Jun 19;13(1):9909. (IF: 4.997)
19. Bepari AK, Rabbi G, Shaon HR, Khan SI, Zahid ZI, Dalal K, **Reza HM**. Factors Driving Antimicrobial Resistance in Rural Bangladesh: A Cross-Sectional Study on Antibiotic Use-Related Knowledge, Attitude, and Practice Among Unqualified Village Medical Practitioners and Pharmacy Shopkeepers. *Advances in Therapy*. 2023 Jun 8:1-7. (IF: 4.2)
20. Rahman M, Chowdhury F, Uddin K, Ahmed KS, Hossain H, Jain P, **Reza HM**, Lee K, Sharker SM. Nanostructured chitosan-polyphenolic patch for remote NIR-photothermal controlled dermal drug delivery. *International Journal of Biological Macromolecules*. 2023 Jun 30;241:124701. (IF: 8.025)
21. Shaswati M, Oeishy FH, Mumu SB, Zahid MZ, Hossain M, Haque MA, **Reza HM**, Mostaid MS. Polymorphisms of the interleukin-6 (IL-6) gene contribute to cervical cancer susceptibility in Bangladeshi women: A case-control study. *Health Science Reports*. 2023 May;6(5):e1238. (IF: 1.71)
22. Namme JN, **Reza HM**, Bepari AK. Computational analysis and molecular dynamics simulation of high-risk single nucleotide polymorphisms of the ADAM10 gene. *Journal of Biomolecular Structure and Dynamics*. 2023 Mar 17:1-3. (IF: 5.235)
23. **Reza HM**, Sultana F, Bari R, Cole J, Baqui AH. Local distribution infrastructure and robust vaccine manufacturing facilities in LMICs should be prioritised to tackle ongoing and future pandemic risk. *The Lancet Regional Health-Southeast Asia*. 2023 Feb 21.
24. Hossain M, Suchi TT, Samiha F, Islam MM, Tully FA, Hasan J, Rahman MA, Shill MC, Bepari AK, Rahman GS, **Reza HM**. Coenzyme Q10 ameliorates carbofuran induced hepatotoxicity and nephrotoxicity in wister rats. *Heliyon*. 2023 Feb 14. (IF: 3.776)
25. Shill MC, Mohsin MN, Showdagor U, Hasan SN, Zahid MZ, Khan SI, Hossain M, Rahman GM, **Reza HM**. Microbial sensitivity of the common pathogens for UTIs are declining in diabetic patients compared to non-diabetic patients in Bangladesh: An institution-based retrospective study. *Heliyon*. 2023 Jan 10:e12897. (IF: 3.776)
26. Islam MA, Hossen F, Rahman MA, Sultana KF, Hasan MN, Haque MA, Sosa-Hernández JE, Oyervides-Muñoz MA, Parra-Saldívar R, Ahmed T, Islam MT. An opinion on Wastewater-Based Epidemiological Monitoring (WBEM) with Clinical Diagnostic Test (CDT) for detecting high-prevalence areas of community COVID-19 Infections. *Current Opinion in Environmental Science & Health*. 2023 Feb 1;31:100396. (IF: 7.59)
27. Kundu S, Kundu S, Rahman MA, Kabir H, Al Banna MH, Basu S, **Reza HM**, Hossain A. Prevalence and determinants of contraceptive method use among Bangladeshi women of reproductive age: a multilevel multinomial analysis. *BMC Public Health*. 2022 Dec 16;22(1):2357. doi: 10.1186/s12889-022-14857-4. PMID: 36526989; PMCID: PMC9756620. (IF: 4.135)
28. **Reza HM**, Agarwal V, Sultana F, Bari R, Mobarak AM. Why are vaccination rates lower in low and middle income countries, and what can we do about it? *BMJ*. 2022 Jul 13;378. doi: 10.1136/bmj-2021-069506. (IF: 107.7)
29. Gausuzzaman SAL, Saha M, Dip SJ, Alam, S, Kumar A, Das H, Sharker SM, Rashid MA, Kazi M, **Reza HM**. A QbD Approach to Design and to Optimize the Self-Emulsifying Resveratrol–Phospholipid Complex to Enhance Drug Bioavailability through Lymphatic Transport. *Polymers* 2022, 14, 3220. <https://doi.org/10.3390/polym14153220>. (IF: 4.967)

30. Bepari AK, Takebayashi H, Namme JN, Rahman GMS, **Reza HM**. A computational study to target necroptosis via RIPK1 inhibition. *J Biomol Struct Dyn*. 2022 Aug 8:1-16. doi: 10.1080/07391102.2022.2108900. (IF: 3.392)
31. Rahman MA, Shuvo AA, Bepari AK, Hasan Apu M, Shill MC, Hossain M, Uddin M, Islam MR, Bakshi MK, Hasan J, Rahman A, Rahman GMS, **Reza HM**. Curcumin improves D-galactose and normal-aging associated memory impairment in mice: In vivo and in silico-based studies. *Plos one*. 2022 Jun 29;17(6):e0270123. (IF: 3.752)
32. Bristy AT, Islam T, Ahmed R, Hossain J, Reza HM, Jain P. Evaluation of Total Phenolic Content, HPLC Analysis, and Antioxidant Potential of Three Local Varieties of Mushroom: A Comparative Study. *International Journal of Food Science*. 2022 Oct 19;2022. (IF: 4)
33. Mostaid MS, Mumu SB, Haque MA, Sharmin S, Jamiruddin MR, Sayedur Rahman GM, **Reza HM**. Elevated serum expression of p53 and association of TP53 codon 72 polymorphisms with risk of cervical cancer in Bangladeshi women. *Plos One*. 2021 Dec 28;16(12):e0261984. (IF: 3.752)
34. Jakariya M, Ahmed F, Islam MA, Al Marzan A, Hasan MN, Hossain M, Ahmed T, Hossain A, **Reza HM**, Hossen F, Nahla T. Wastewater-based epidemiological surveillance to monitor the prevalence of SARS-CoV-2 in developing countries with onsite sanitation facilities. *Environmental Pollution*. 2022 Jun 23;119679. (IF: 8.071)
35. Mitra K, Raihan MA, Rahman MA, Rouf R, **Reza HM**, Uddin SJ, Muhammad I. Therapeutic Potential of *Nelumbo nucifera* (Sacred Lotus) in CNS Disorders. *Dhaka University Journal of Pharmaceutical Sciences*. 2022 Jun 9:347-58.
36. Ahmed R, **Reza HM**, Shinohara K, Nakahata Y. Cellular senescence and its impact on the circadian clock. *The Journal of Biochemistry*. 2021 Oct 20. (IF: 3.387)
37. Abaluck J, Kwong LH, Styczynski A, Haque A, Kabir MA, Bates-Jefferys E, Crawford E, Benjamin-Chung J, Raihan S, Rahman S, Benhachmi S, Binte NZ, Winch PJ, Hossain M, **Reza HM**, Jaber AA, Momen SG, Rahman A, Banti FL, Huq TS, Luby SP, Mobarak AM. Impact of community masking on COVID-19: A cluster-randomized trial in Bangladesh. *Science*. 2022 Jan 14;375(6577):eabi9069. (IF: 63.832)
38. Oka C, Saleh R, Bessho Y, **Reza HM**. Interplay between HTRA1 and classical signalling pathways in organogenesis and diseases. *Saudi Journal of Biological Sciences*. 2021 Dec 1. (IF: 4.219)
39. Jain P, Bepari AK, Sen PK, Rafe T, Imtiaz R, Hossain M, **Reza HM**. High prevalence of multiple antibiotic resistance in clinical *E. coli* isolates from Bangladesh and prediction of molecular resistance determinants using WGS of an XDR isolate. *Scientific Reports*. 2021 Nov 24;11(1):1-3. (IF: 4.996)
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