

## CURRICULUM VITAE

### Professor Hasan Mahmud Reza, PhD

#### CURRENT POSITION

##### Dean

School of Health and Life Sciences

##### Professor

Department of Pharmaceutical Sciences

North South University

Bangladesh

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Google scholar profile:

<https://scholar.google.com/citations?user=RCvg1LUAAAAJ&hl=en>

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>

Linkedin profile:

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Facebook page:

<https://www.facebook.com/drhasanmahmudreza>

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## ACADEMIC AND RESEARCH BRIEF

I have solid experience in research and teaching for more than 25 years in reputed universities and institutes in Bangladesh, Japan and Singapore. I completed my BPharm and MPharm degrees from the University of Dhaka and joined Khulna University as a Lecturer in 1997. I obtained 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). Later, I worked as a Postdoctoral Researcher and then joined the Faculty of Biological Sciences, NAIST, Japan as an Assistant Professor in 2004. In 2007, I joined North South University (NSU) and currently am working as a Professor in the Department of Pharmaceutical Sciences, as well as, the Dean of the School of Health and Life Sciences, NSU. I worked as a Research Scientist at Singapore Eye Research Institute (SERI) under the National University of Singapore and gained experience and knowledge in ocular tissue engineering (regenerative medicine). I am currently leading several research teams working on antimicrobial resistance, pharmacology, public health, pharmaceutical dosage form development, behavioral neuroscience, and natural products. I have published over 110 research articles in renowned peer-reviewed journals including, *Science*, *British Medical Journal*, *Scientific Reports* etc. My google scholar citations are over 3600 and Scopus citations are over 2200. My ORCID id is- <https://orcid.org/0000-0003-3287-942X>. I am serving as the Associate Editor of the journal *Frontiers in Public Health*. I am a fellow (2023-) of the Bangladesh Academy of Sciences (BAS).

## APPOINTMENT HISTORY

Position	Institution	Duration
<b>Dean</b> School of Health and Life Sciences	North South University	June '21 to date
<b>Acting Dean</b> School of Health and Life Sciences	North South University	May '20 to May'2021
<b>Professor</b> Department of Pharmaceuticals Sciences	North South University	Jul '18 to May '2020
<b>Professor and Chairman</b> , Department of Pharmaceuticals Sciences	North South University	Mar '15 to Jun '18
<b>Acting Dean</b> , School of Health & Life Sciences	North South University	18 Jul to 16 Sep, 2016
<b>Associate Professor and Chairman</b> Department of Pharmacy	North South University	Jan '13 to Mar '15
<b>Associate Professor</b>	North South University	Dec'11 to Jan'13
<b>Assistant Professor</b> Department of Pharmacy	North South University	Jan'11 to Dec'11
<b>Research Scientist</b>	Singapore Eye Research Institute, <b>Singapore</b>	Feb '09 to Dec'10

<b>Research Fellow</b>	Singapore Eye Research Institute (SERI), <b>Singapore</b>	Jul '08 to Jan '09
<b>Assistant Professor</b> Department of Pharmacy	North South University	Jan '07 to Jul '08
<b>Assistant Professor</b> Laboratory of Molecular and Developmental Biology, Dept. of Molecular Biology, Graduate School of Biological Sciences	Nara Institute of Science & Technology, <b>Japan</b>	Apr '04 to Dec '06
<b>Post-Doctoral Research Fellow (COE)</b> Laboratory of Molecular and Developmental Biology Graduate School of Biological Sciences	Nara Institute of Science & Technology, <b>Japan</b>	Nov '02 – Mar '04
<b>Post-Doctoral Research Fellow (NAIST Foundation)</b> Laboratory of Molecular and Developmental Biology,	Nara Institute of Science & Technology, <b>Japan</b>	Jul '02 – Oct '02
<b>Lecturer</b> , Discipline of Pharmacy	University of Khulna, Khulna	Oct'97 – Mar'98
<b>Product Officer</b> in the Central Product Management Department	Beximco Pharmaceuticals Ltd., Dhaka	Jun '96 – Sep '97

## **SPECIAL APPOINTMENT (National level)**

Member, National Research Ethics Committee, Bangladesh Medical Research Council (July 2019-June 2022)

## **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:**

- 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

- Cervical Cancer Screening and Survey Using the "See and Treat" Approach. Funding source: NSU-UIU collaborative grants (2022); Tk. 499530
- 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: Monbukagakusho, Japan (Apr 2004-Mar 2006); amount: 300,0000 Japanese yen.
- Study of HtrA gene in embryonic chick eye. Principal Investigator. Funding source: Naist-Bio-COE, Japan (Apr 2005-Mar 2006); amount: 180,0000 Japanese yen.

## AWARDS AND HONORS

1. Best Researcher Award (2022) from North South University for Outstanding Research Performance during 201-2021.
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 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*

I am currently working 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) is 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 50 scientific protocols for ethical approval as a NREC member.

## PROFESSIONAL AFFILIATIONS

- Fellow (2023-), Bangladesh Academy of Sciences (BAS)
- President (2017-), Bangladesh Neuroscience Society
- 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)
- Member (2019-2022), National Research Ethics Committee (NREC)
- Member (2000), The Molecular Biology Society of Japan (MBSJ)
- Member (2001), The Japanese Society of Developmental Biologists (JSDB)
- Member (2009), Association for Research in Vision and Ophthalmology (ARVO)
- Life Member (2017), Japanese Universities Alumni Association in Bangladesh (JUAAB)
- Life member (1988), Jhenidah Ex-Cadet Association (JEXCA)

- Life member (2007-), Dhaka University Pharmacy Alumni Association (DUPAA)

#### *Editorial affiliation*

- **Associate Editor** (2022-) Frontiers in Public Health (IF: 6.461)
- **Review Editor** (2016-) Frontiers in Public Health (IF: 6.461)
- **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 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, 1<sup>st</sup> class (positioned 3<sup>rd</sup>)

**1994\*\***     **BPharm**, Dept. of Pharmacy, Faculty of Biological Sciences, University of Dhaka, Dhaka, Bangladesh, 1<sup>st</sup> class (positioned 6<sup>th</sup>)

**1988**     **H.S.C (Science)**, Secured 1<sup>st</sup> Division (5th in the combined merit list from Jhenidah Cadet College).

**1986**     **S.S.C (Science)**, Secured 1<sup>st</sup> 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

Citations: **3781**; h-index: **32**; i10-index: **68** (Source: Google Scholar, 7 March 2023)

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

[Scopus Author ID: 6603830556](#)

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

### Journal publications:

1. 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.
2. **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.
3. 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)**
4. 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)**
5. Islam A, Hossen F, Rahman A, Sultana KF, Hasan MN, Haque A, Sosa-Hernández JE, Oyervides-Muñoz MA, Parra-Saldívar R, Ahmed T, Islam T, Dhama K, Sangkham S, Bahadur NM, **Reza HM**, Jakariya, Al Marzan A, Bhattacharya P, Sonne C, Ahmed F. An opinion on Wastewater-Based Epidemiological Monitoring (WBEM) with Clinical Diagnostic Test (CDT) for detecting high-prevalence areas of community COVID-19 Infections. *Curr Opin Environ Sci Health*. 2023 Feb 1;31:100396. **(IF: 7.59)**
6. 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)
7. 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:e069506. doi: 10.1136/bmj-2021-069506. (IF: 96.22)
  8. 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)
  9. 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)
  10. 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)
  11. 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. (Scopus)
  12. 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)
  13. 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)
  14. 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.
  15. 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)
  16. 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*. 2021 Dec 2;eabi9069. Online ahead of print. (IF: 47.728)
  17. 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)
  18. 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)
  19. Emran T, Chowdhury NI, Sarker M, Bepari AK, Hossain M, Rahman GS, Reza HM. L-carnitine protects cardiac damage by reducing oxidative stress and inflammatory response via inhibition of tumor necrosis factor-alpha and interleukin-1beta against isoproterenol-induced myocardial infarction. *Biomedicine & Pharmacotherapy*. 2021 Nov 1;143:112139. (IF: 6.529)
  20. Rahman MA, Shanjana Y, Tushar MI, Mahmud T, Rahman GM, Milan ZH, Sultana T, Chowdhury AM, Bhuiyan MA, Islam MR, Reza HM. Hematological abnormalities and comorbidities are associated with COVID-19 severity among hospitalized patients: Experience from Bangladesh. *Plos One*. 2021 Jul 27;16(7):e0255379. (IF: 3.752)



21. Jain P, Hossain KR, Islam T, Gias ZT, Hossain M, **Reza HM**. Antioxidant and antibacterial activities of different solvent extracts of Citrus acida leaf and correlation with phenolic content. *MEDICINAL PLANTS*. 2021;13(2):302-12. (Scopus)
22. Islam, T., Hossain, M., Tabassum, N., Haque, M.A., **Reza, HM**. and Øvreås, L., 2021. Two Novel Thermotolerant Methane Oxidizers from a Tropical Natural Gas Field in Bangladesh. *Bangladesh Journal of Microbiology*, 38(2), pp.63-71.
23. Bari R, Bepari AK, **Reza HM**. COVID-19: Lessons from Norway tragedy must be considered in vaccine rollout planning in least developed/developing countries. *Open Medicine*. 2021 Jan 1;16(1):1168-9. (IF: 2.199)
24. Bari R, Bepari AK, **Reza HM**. Building confidence in COVID-19 vaccine rollout: the importance of responsible presentation and follow-on investigation of Adverse Events Following Immunization (AEFI) reports for elderly patients. *GJMEDPH*. 2021, Vol. 10, No. 1.
25. Akash SZ, Lucky FY, Hossain M, Bepari AK, Rahman GM, **Reza HM**, Sharker SM. Remote Temperature-Responsive Parafilm Dermal Patch for On-Demand Topical Drug Delivery. *Micromachines*. 2021 Aug;12(8):975. (IF: 4.757)
26. Ahmed F, Islam MA, Kumar M, Hossain M, Bhattacharya P, Islam MT, Hossen F, Hossain MS, Islam MS, Uddin MM, Islam MN, Bahadur NM, Didar-UI-Alam M, **Reza HM**, Jakariya M. First detection of SARS-CoV-2 genetic material in the vicinity of COVID-19 isolation Centre in Bangladesh: Variation along the sewer network. *Sci Total Environ*. 2021 Jul 1;776:145724. doi: 10.1016/j.scitotenv.2021.145724. Epub 2021 Feb 9. PMID: 33652314 (IF: 7.967)
27. Bepari AK, **Reza HM**. Identification of a novel inhibitor of SARS-CoV-2 3CL-PRO through virtual screening and molecular dynamics simulation. *PeerJ*. 2021 Apr 13;9:e11261. doi: 10.7717/peerj.11261. eCollection 2021. PMID: 33954055. (IF: 3.06)
28. Abedin M, Islam MA, Rahman FN, **Reza HM**, Hossain MZ, Hossain MA, Arefin A, Hossain A. Willingness to vaccinate against COVID-19 among Bangladeshi adults: Understanding the strategies to optimize vaccination coverage. *PLoS One*. 2021 Apr 27;16(4):e0250495. doi: 10.1371/journal.pone.0250495. eCollection 2021. PMID: 33905442 (IF: 3.752)
29. Shill MC, Bepari AK, Khan M, Tasneem Z, Ahmed T, Hasan MA, Alam MJ, Hossain M, Rahman MA, Sharker SM, Shahriar M, Rahman GMS, **Reza HM**. Therapeutic Potentials of *Colocasia affinis* Leaf Extract for the Alleviation of Streptozotocin-Induced Diabetes and Diabetic Complications: In vivo and in silico-Based Studies. *J Inflamm Res*. 2021 Feb 19;14:443-459. doi: 10.2147/JIR.S297348. eCollection 2021. PMID: 33642871 (IF: 6.532)
30. Lamia SS, Emran T, Rikta JK, Chowdhury NI, Sarker M, Jain P, Islam T, Gias ZT, Shill MC, **Reza HM**. Coenzyme Q10 and Silymarin Reduce CCl<sub>4</sub>-Induced Oxidative Stress and Liver and Kidney Injury in Ovariectomized Rats—Implications for Protective Therapy in Chronic Liver and Kidney Diseases. *Pathophysiology* 2021, 28(1), 50–63; <https://doi.org/10.3390/pathophysiology28010005>. (IF: 2.148)
31. Saha M, Saha DR, Ulhosna T, Sharker MS, Shohag MH, Islam MS, Ray SK, Rahman GMS, **Reza HM**. QbD based development of resveratrol-loaded mucoadhesive lecithin/chitosan nanoparticles for prolonged ocular drug delivery. *J Drug Deliv Sci Technol*. 2021; 63, 2021, <https://doi.org/10.1016/j.jddst.2021.102480>. (IF: 3.981)
32. Johra FT, Bepari AK, Bristy AT, **Reza HM**. A Mechanistic Review of  $\beta$ -Carotene, Lutein, and Zeaxanthin in Eye Health and Disease. *Antioxidants (Basel)*. 2020 Oct 26;9(11): E1046. doi: 10.3390/antiox9111046. (IF: 7.38)
33. Sultana F, **Reza HM**. Are SAARC countries prepared to combat COVID-19 to save young, working-age population? *AIMS Public Health*, 2020, 7(3): 440-449. DOI: 10.3934/publichealth.2020036. (Scopus)
34. Reza HM, Sultana F, Khan IO. Disruption of Healthcare Amid COVID-19 Pandemic in Bangladesh. *TOPHJ*, 2020; 13: 438-440. DOI: 10.2174/1874944502013010438. (IF: 0.672)
35. Rashid MM, Ahmed I, Islam MA, Tasnim T, Nahid NA, Apu MNH, AIMamun MMA, Islam MR, Ahmed MU, Karim M, Islam MN, Yokota K, Shabnaz S, **Reza HM**, Islam MS, Hasnat A. Influence of TPMT polymorphisms on azathioprine-induced myelosuppression in Bangladeshi patients with systemic lupus erythematosus. *Drugs Ther Perspect*. 2020; 36: 202–207. <https://doi.org/10.1007/s40267-020-00716-y>. (IF: 0.167)

36. Gias ZT, Afsana F, Debnath P, Alam MS, Ena TN, Hossain MH, Jain P, **Reza HM**. A mechanistic approach to HPLC analysis, antinociceptive, anti-inflammatory and postoperative analgesic activities of panch phoron in mice. *BMC Complement Med Ther*. 2020 Mar 30;20(1):102. doi: 10.1186/s12906-020-02891-x. (IF: 2.838)
37. **Reza HM**, Saleh R, Jain P, Rahman GMS, Bepari AK. C-MAF Expression in Adult Human Ocular Surface and its Implication in Pterygium Pathogenesis. *Rep Biochem Mol Biol*. 2020 Jan;8(4):419-423. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7275840/pdf/rbmb-8-419.pdf> (IF: 1.6)
38. Islam T, Hossain N, Rahman M, Shabnam S, Chowdhury E, Nahar ST, Gias ZT, **Reza HM**. Study of Release-Retardant Polymers in Formulation Development of Cinnarizine-HCl Sustained-release Oral Suspension Using Raft Technology. *Dhaka University Journal of Pharmaceutical Sciences*. 2020 Jun 26;19(1):14-24.
39. Hakim ML, Nahar N, Saha M, Islam MS, **Reza HM** and Sharker SM. Local drug delivery from surgical thread for area-specific anesthesia. *Biomedical Physics & Engineering Express*, 2020, epub: 6;1. DOI: 10.1088/2057-1976/ab6a1e (IF: 1.46)
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## DISSERTATIONS

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- **Edited as a member:** Guidelines for Regulatory Approvals of Stem Cell and Cell Based Products (SCCPs). Directorate General of Drug Administration Ministry of Health and Family Welfare, Government of the People's Republic of Bangladesh (2020).

## INVITED TALKS (PROCEEDINGS)

**Hasan Mahmud Reza** and Kunio Yasuda, 'Regulation of L-Maf by Pax6 during chick lens development' in *International mini-symposium on Multiple roles of Pax6 in development* 2003, p 9 (abstract), Tohoku, Sendai, [Japan](#) (Invited speaker).

**Hasan Mahmud Reza** and Kunio Yasuda, 'Interactions between Pax6 and L-Maf during lens formation' in *International Symposium on Deciphering the regulatory network of transcription factors: Function and regulation of Maf and CNC transcription factor families* 2003, pp 29 (abstract), Tsukuba, [Japan](#) (Invited speaker).

**Hasan Mahmud Reza**, 'Apocyanin prevented inflammation and oxidative stress in carbon tetra chloride induced hepatic dysfunction in rats' in *1st International Conference on Scientific Research and Practice (icSRP)-2017* organized by GCSTMR, 2017, Dhaka, Bangladesh.

**Hasan Mahmud Reza** and Razwa Saleh, 'Umbilical cord lining stem cells: A promise in regenerative medicine' in *International Conference on Genomics, Nanotech and Bioengineering-2017 (ICGNB-2017)*. Dhaka, Bangladesh.

## CONFERENCE PROCEEDINGS

- Firoz Ahmed, Md. Aminul Islam<sup>1</sup>, Abdullah Al Marzan, Mohammad Nayeem Hasan, Maqsd Hossain, **Hasan Mahmud Reza**, Shatila Shahi, Newaz Mohammed Bahadur, Ananya Majumder, Prosun Bhattacharya, Md. Jakariya. SARS-CoV-2 mutational study from death patients' whole-genome sequences around the world: Refinements to design more active COVID-19 vaccine. *ICGNB-2022*, Dhaka.
- Jason Abaluck, Laura H Kwong, Ashley Styczynski, Ashraful Haque, Md. Alamgir Kabir, Ellen Bates-Jefferys, Emily Crawford, Jade Benjamin-Chung, Shabib Raihan, Shadman Rahman Salim Benhachmi, Neeti Zaman Binte, Peter J Winch, Maqsd Hossain, **Hasan Mahmud Reza**, Abdullah All Jaber, Shawkee Gulshan Momen, Aura Rahman, Faika Laz Banti, Tahrima Saiha Huq, Stephen P Luby, Ahmed Mushfiq Mobarak. Impact of community mask-wearing on COVID-19. *ICGNB-2022*, Dhaka.
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- Musfikur Rahman Safa, Rezwana Ahmed, **Hasan Mahmud Reza**, Md. Zahidul Islam Zahid. Association of the FTO gene (rs9939609) polymorphism with Type II Diabetes in Bangladeshi population. *ICGNB-2022*, Dhaka.



- Yusra Imam, Md. Musfikur Rahman Safa, Abidur Rahman Chowdhury, Maksuratun Kifayat Monisha, Md. Zahidul Islam Zahid, **Hasan Mahmud Reza**, Rezwana Ahmed. Association of SIRT1 gene polymorphism rs3758391 with T@DM in a population of Bangladeshi origin. *ICGNB-2022*, Dhaka.
- Monishita Shaswati, Fahima Hossain Oeishy, Sadia Biswas Mumu, Md Aminul Haque, **Hasan Mahmud Reza**, Md Shaki Mostaid. Cervical cancer risk in relation of Interleukin-6 gene polymorphisms in Bangladeshi women. *ICGNB-2022*, Dhaka.
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