

CURRICULUM VITAE

Hasan Mahmud Reza, PhD

Professor

Department of Pharmaceutical Sciences

North South University

Bangladesh

Fellow, Bangladesh Academy of Sciences

Former Dean, School of Health and Life Sciences, NSU

Former Chairman, Department of Pharmaceutical Sciences, NSU



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Google scholar profile:

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Scopus profile:

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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/>

Linkedin profile:

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Summary

I have more than 28 years of experience in teaching and research, along with approximately 9 years of administrative experience at prestigious universities and institutions in Bangladesh, Japan, and Singapore.

Career: I started my career as a Product Officer in Beximco Pharmaceuticals Ltd., however, ended it shortly after 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 services for 3 years. In 2007, I joined North South University in the Department of Pharmaceutical Sciences. From 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 about 5 years, and as the Dean of the School of Health and Life Sciences for about 4 years at NSU.

Education: I completed my Bachelor of Pharmacy (1st class 6th) and Master of Pharmacy (1st class 3rd) 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 secured 7th and 5th positions in the combined merit lists in SSC and HSC, respectively under the Jessore Board. 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 natural products, pharmaceutical dosage form development, behavioral neuroscience and antimicrobial resistance. I have published 140 research articles in renowned peer-reviewed journals including, *Science*, *British Medical Journal*, *Lancet*, *JAMA*, *Scientific Reports*, *Biomedicine and Pharmacotherapy*, *Plos one*, *Antioxidants* and *Heliyon*. My current Google Scholar citations are over 6300. 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 former member of the National Research Ethics Committee (NREC). I am also an active member of different social and professional organizations/associations.

Awards and notable achievements: I have been awarded the prestigious BAS Gold Medal in Biological Sciences (Senior Category) from the Bangladesh Academy of Sciences (2025). I have also received the Dean's Award, the Research Excellence Award, and the Best Researcher Award from NSU in recognition of my outstanding research performance. Previously, I received the Chancellor's Award from the Government of Bangladesh for my academic achievements in the Secondary School Certificate Examination. Additionally, I have received over 15 research grants from various sources.

APPOINTMENT HISTORY

Position	Institution	Duration
Professor	North South University	March 2024 to date
Dean School of Health and Life Sciences	North South University	June 2021 to March 2024
Acting Dean School of Health and Life Sciences	North South University	May 2020 to May 2021
Professor Department of Pharmaceutical Sciences	North South University	July 2018 to May 2020

Professor and Chairman , Department of Pharmaceutical Sciences	North South University	Mar 2015 to June 2018
Acting Dean , School of Health & Life Sciences	North South University	18 July to 6 Sep, 2016
Associate Professor and Chairman Department of Pharmacy	North South University	Jan 2013 to Mar 2015
Associate Professor	North South University	Dec 2011 to Jan 2013
Assistant Professor Department of Pharmacy	North South University	Jan 2011 to Dec 2011
Research Scientist	Singapore Eye Research Institute, Singapore	Jan 2009 to Dec 2010
Postdoctoral Research Fellow	Singapore Eye Research Institute (SERI), Singapore	July 2008 to Jan 2009
Assistant Professor Department of Pharmacy	North South University	Jan 2007 to July 2008
Assistant Professor Laboratory of Molecular and Developmental Biology, Dept. of Molecular Biology, Graduate School of Biological Sciences	Nara Institute of Science & Technology, Japan	Apr 2004 to Dec 2006
Post-Doctoral Research Fellow (COE) Laboratory of Molecular and Developmental Biology Graduate School of Biological Sciences	Nara Institute of Science & Technology, Japan	Nov 2002 – Mar 2004
Post-Doctoral Research Fellow (NAIST Foundation) Laboratory of Molecular and Developmental Biology,	Nara Institute of Science & Technology, Japan	July 2002 – Oct 2002
Lecturer , Discipline of Pharmacy	University of Khulna, Khulna	Oct 1997 – Mar1998
Product Officer in the Central Product Management Department	Beximco Pharmaceuticals Ltd., Dhaka	June 1996 – Sep 1997

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

- Exploring the protective effect of astaxanthin in age-related macular degeneration using a sodium iodate-induced mouse model. Funding Source: NSU (2023); Tk. 1,000,000
- Unveiling Rural-Urban Disparities in Cervical Cancer Incidence: A "See and Treat" Investigation in Bangladesh. Funding source: NSU-UIU collaborative grants (2024); Tk. 1,494,400
- A study of reno-hepatoprotective effects of Cassia fistula extract and underlying molecular mechanisms against chlorpyrifos-induced damage, oxidative stress and inflammation in rats. Funding Source: NSU (2023); Tk. 490,000
- Development and optimization of ellagic acid-loaded TPGS/lysophosphatidylcholine nanoparticles by QbD for increased bioavailability. Funding Source: NSU (2022); Tk. 495,000
- 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); 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.

As an advisor:

- USAID's Community-Health-Systems Strengthening Activity (CHSS): Project Monitoring & Evaluation. Funding source: Brac; Tk. 3,302,540

AWARDS AND HONORS

1. BAS Gold Medal in Biological Sciences (Senior Category) from Bangladesh Academy of Sciences (2025).
2. Researcher Excellence Award (2022) from North South University for Outstanding Research Performance during 2021-2022 (Bronze).
3. Best Researcher Award (2021) from North South University for Outstanding Research Performance during 2018-2020.
4. Dean's Award (2016) from North South University for Outstanding Research Performance during 2011-2015.
5. Best Poster- SingHealth Duke-NUS Scientific Congress 2012, Raffles City Convention Center. Singapore.
6. Alcon Research Prize (Best Paper, Senior category), NHG International Ophthalmology Congress 2009, Singapore.
7. NHG-NUHS Silver Award, NHG International Ophthalmology Congress 2009, Singapore.
8. Japanese Govt. Scholarship (MONBUSHO) for post-graduate studies in the Nara Institute of Science and Technology (1998-2002).
9. 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 70 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 (2024-), Institutional Review Board (IRB), UIU
- 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**

LIST OF PUBLICATIONS (145)

Citations: **6383**; h-index: **41**; i10-index: **93** (Source: Google Scholar, 8 July, 2025)

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

[Scopus Author ID: 6603830556](#)

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

Journal publications:

1. Hossain N, Shabnam S, Emran T, Zahid ZI, Alam S, Bepari AK, Rahman GS, **Reza HM**. Coenzyme Q10 alleviates oxidative stress, inflammation and fibrosis via activation of TGFβ1/TNF-α in FCA-Salt hypertensive rats. *Archives of Biochemistry and Biophysics*. 2025 Apr 28;110444. (IF: 3.8)
2. Namme JN, **Reza HM**, Bepari AK. Unraveling the impact of ZG16B missense mutations: computational prediction of structural and functional consequences. *In Silico Pharmacology*. 2025 Jun 3;13(2):79.
3. Sharif AB, Chowdhury SS, Hossain MZ, Hossain MA, Hossain A, **Reza HM**. Prevalence and determinants of medication adherence among hypertensive patients: An institution-based cross-sectional study. *PloS one*. 2025 May 20;20(5):e0321449. (IF: 2.9)
4. Biswas AM, Emran T, Khan SI, Shabnam S, Jain P, Bepari AK, Shill MC, Hossain MM, **Reza HM**. Transforming Growth Factor-β-mediated attenuation of cardio-renal oxidative stress, inflammation and fibrosis by L-arginine in fludrocortisone acetate induced-hypertensive rats. *European Journal of Pharmacology*. 2025 June 5;996:177559. (IF: 4.2)
5. Ahmed R, Safa MR, Zahid ZI, Chowdhury MM, Hasan AK, Mostaid MS, **Reza HM**. Association of SIRT1 rs3758391 Polymorphism With T2DM in Bangladeshi Population: Evidence From a Case-Control Study and Meta-Analysis. *Health Science Reports*. 2025 Feb;8(2):e70495. (IF: 2.1)
6. **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)
7. Sarker M, Chowdhury N, Bristy AT, Emran T, Karim R, Ahmed R, Shaki MM, Sharkar SM, Rahman GS, **Reza HM**. Astaxanthin protects fludrocortisone acetate-induced cardiac injury by attenuating oxidative stress, fibrosis, and inflammation through TGF-β/Smad signaling pathway. *Biomedicine & Pharmacotherapy*. 2024 Dec 1;181:117703.(IF: 6.9)
8. Hossain A, Baten RBA, Saadi A, Saadi A, Rana J, Rahman T, **Reza HM**, Alameddine M. Chronic Illness and Quality of Life 5 Years After Displacement Among Rohingya Refugees in Bangladesh. *JAMA Netw Open*. 2024;7(9):e2433809. doi:10.1001/jamanetworkopen. - 2024.33809. (IF: 10.5)

9. Tee TX, Kee LT, Chai TT, Yam HC, **Reza HM**, Wong FC, Law JX, Tan SA. Plant-Derived Nrf2 Activators to Enhance Liver Antioxidative and Regenerative Potentials. *Revista Brasileira de Farmacognosia*. 2024 Dec 7:1-7. (IF: 1.4)
10. 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)
11. Newaj SM, Kashem TB, Ferdous J, Jahan I, Rawshan H, Prionty 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)
12. 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)
13. 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)
14. 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)
15. 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)
16. 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)
17. Imtiaz R, Saha P, Brishty EM, Kamal S, Shill MC, **Reza HM**, Jain P. Prevalence of Multiple Antibiotic Resistance Among Salmonella Isolates from Clinical Samples in Dhaka, Bangladesh. DOI 10.5001/omj.2024.105
18. Bepari AK, Shatabda S, **Reza HM**. Virtual screening of flavonoids as potential RIPK1 inhibitors for neurodegeneration therapy. *PeerJ*. 2024;12. (IF: 3.8)
19. 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)
20. 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: 2.7)
21. 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: 2.7)
22. 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).
23. Shill MC, Biswas B, Islam M, Rima SS, Ferdousi 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)
24. 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)
25. 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)
 26. 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)
 27. 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)
 28. 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)
 29. 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)
 30. 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)
 31. 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: 2.7)
 32. **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.(IF: 5.0)
 33. 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)
 34. 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)
 35. 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)
 36. 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)
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INVITED TALKS (PROCEEDINGS)

Hasan Mahmud Reza. ‘Manoneeta Sarkar, Nowreen Chowdhury, Tushar Emran, G. M. Sayedur Rahman Antioxidants in maintenance of organ health’ in the International Conference on Pharmaceutical and Health Sciences (ICPHS) on 6-7 December 2024, Dhaka.

Hasan Mahmud Reza. ‘Potentials of human umbilical cord-derived cells in clinical application’ in the International Conference on Molecular Biology and Genetic Engineering, November 07-08, 2019 | Melbourne, Australia. DOI: 10.35841/2591-7986-C1-002

Hasan Mahmud Reza. ‘Stem cells rekindle vision for the blinds’ in the The 1st International Conference of Bangladesh Stem Cell & Regenerative Medicine Society, Dhaka, 2017.

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.

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 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).

CONFERENCE PROCEEDINGS

- Firoz Ahmed, Md. Aminul Islam¹, 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.
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- Jannatun Nayem Namme, **Hasan Mahmud Reza**, G.M. Sayedur Rahman, Asim Kumar Bepari. In-silico prediction of high-risk pathogenic nsSNPs in the human ADAM10 gene. *ICGNB-2022*, Dhaka.
- Jannatun Nayem Namme, **Hasan Mahmud Reza**, Asim Kumar Bepari. Molecular docking and ADMET profiling of approved drugs and marine natural product to screen FBXO7 inhibitors for treatment of Parkinson's disease. *ICGNB-2022*, Dhaka.
- Syed Abdul layes Gausuzzaman, Mithun Saha, Shahid jaman Dip, and **Hasan Mahmud Reza**. QbD approach to developing self-emulsifying resveratrol-phospholipid complex: a paradigm shift in bioavailability enhancement through lymphatic transport. *ICGNB-2022*, Dhaka.
- Mithun Saha, Umma Hani Raihan, Tania Tabassum, Israt Jahan Pata and **Hasan Mahmud Reza**. QbD-based development of curcumin-loaded monoacyl phosphatidylcholine/TPGS super-stable nanoparticles: enhancing bioavailability and developing scale-independent design space. *ICGNB-2022*, Dhaka.
- Md. Jakariya, Firoz Ahmed, Md. Aminul Islam, Abdullah Al Marzan, Mohammad Nayeem Hasan, Maqsood Hossain, Tanvir Ahmed. Ahmed Hossain, **Hasan Mahmud Reza**, Foysal Hossen, Turasa Nahla, Mohammad Moshir Rahman, Newaz Mohammed Bahadur, Md Tahmidul Islam, Md Didar-ul-Alam, Nowrin Mow, Hasin Jahan, Damia Barcelo, Kyle Bibby, Ananya Majumder, Prosun Bhattacharya. Wastewater based epidemiological system to monitor the prevalence of SARS-CoV-2 in developing countries with onsite sanitation facilities. *ICGNB-2022*, Dhaka.
- Sadia Kamal, Tasnuva Sharmin Zaman, Sadika Tamanna Shathi, **Hasan Mahmud Reza**, Preeti Jain. Chromium (VI) Reduction by Chromate Resistant Bacteria Isolated From Industrial Waste Contaminated Rivers In Bangladesh. *ICGNB-2022*, Dhaka.
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- Fatima Tuj Johra, Sukria Hossain, Anika Tabassum Bristy, Tushar Emran, Asim Kumar Bepari, Preeti Jain, **Hasan Mahmud Reza**. Evaluation of the hepatoprotective effect of *Ganoderma lucidum* on CCl₄-induced hepatotoxicity. *ICGNB-2022*, Dhaka.
- Nowreen Islam Chowdhury Tushar Emran, Syeda Fatima - Tuz - Zahra, Sabrin Islam Khan, **Hasan Mahmud Reza**. *Nigella sativa* and *Salvia hispanica* reduce blood glucose level and oxidative stress in diabetic rats. *ICGNB-2022*, Dhaka.
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- **Hasan Mahmud Reza** (2020). Umbilical Cord-Derived Cells in Corneal Epithelial Regeneration. Oral presentation in the *International Conference on Biotechnology and Bioengineering* (ICBB 2020), February 03-04, 2020. Melbourne, Australia.
- Md. Abdullah Al Mamun, Md. Faruk, Md. Mizanur Rahman, Kamrun Nahar, Fariha Kabir, **Hasan Mahmud Reza** and Md. Ashraful Alam, (2016). *Psidium guajava* leaf powder supplementation prevents metabolic syndrome and oxidative stress in liver of high carbohydrate high fat diet induced obese rats. Poster presented in *National Conference on Biochemistry and Molecular Biology for Life Sciences 2016*, Dhaka.
- Fariha Mamun, Usran Ferdous, Md Mizanur Rahman, **Hasan Mahmud Reza**, Md Ashraful Alam (2016). Dried Amalaki (*Embllica officinalis*) powder prevents oxidative stress and fibrosis in two kidney one clip (2K1C) model rats. Poster presented in *National Conference on Biochemistry and Molecular Biology for Life Sciences 2016*, Dhaka.
- Mohammad Nazmul Alam, Md. Mizanur Rahman, Anayt Ulla, Murad Hossain, **Hasan Mahmud Reza**, Md Ashraful Alam. (2016) Evaluation of Astaxanthin in Isoprenaline Induced Cardiac Remodeling in Aged Rats. Poster presented in *National Conference on Biochemistry and Molecular Biology for Life Sciences 2016*, Dhaka.
- Md. Mizanur Rahman, Mohammad Nazmul Alam, Anayt Ulla, Hemayet Hossain, Md. Ashraful Alam and **Hasan Mahmud Reza** (2016). Phenolic content analysis of *Psidium guajava* leaves powder by HPLC-DAD system and In vivo cardioprotective and antioxidant activity in FCA induced rats. Poster presented in *National Conference on Biochemistry and Molecular Biology for Life Sciences 2016*, Dhaka.
- Fariha Kabir, Towheed Ul Islam, Waresa Sadeque Sananda, Shejuti Islam, Tahsin Zahan, Md Mizanur Rahman, Anayt Ulla, Md Ashraful Alam, **Hasan Mahmud Reza** (2016). Evaluation of L-carnitine in isoproterenol induced cardiac remodeling in aged rats. Oral presented in *National Conference on Biochemistry and Molecular Biology for Life Sciences 2016*, Dhaka.
- Syed Mustyen Quader, Dr. Murad Hossain, Md Mizanur Rahman, **Hasan Mahmud Reza**, Md Ashraful Alam (2016). Effect of superoxide dismutase mimetic, tempol, on carbon tetrachloride induced hepatic inflammation and fibrosis in the liver of rats. Oral presented in *National Conference on Biochemistry and Molecular Biology for Life Sciences 2016*, Dhaka.
- Razwa Saleh, Preeti Jain, Md. Ashraful Alam, **Hasan Mahmud Reza**. Prevalence of PPAR- γ 2 (RS1801282), RETN (RS3745367) and ADIPOQ (RS2241766) SNP markers in the Bangladeshi diabetic population. Poster presented (Razwa Saleh) in 5th *Biennial Conference of DASG (Diabetes in Asia Study Group)*, Dhaka, 2016.
- Farzana Akther Sumi, Umme Nahida Islam, Biswajit Kumer Sikder, Md Ashraful Alam, **Hasan Mahmud Reza**. Protective effect of antioxidant rich ethanolic extract of *Citrus maxima* Merr. fruit peels against carotid artery occlusion induced ischemia/reperfusion in brain of mice. Poster presented (by Farzana Akther Sumi) in *3rd National Conference on Natural Science and Technology (NCNST'16)*, Chittagong, Bangladesh, 2016. (Awarded Best poster)
- Anayet Ullah, Biswajit Sikder, Md Mizanur Rahman, Farzana Akther Sumi, Mostafe Khalid, Md Hemayet Hossain, **Hasan Mahmud Reza**, and Md Ashraful Alam. Supplementation of *Eugenia jambolena* seed powder prevented obesity, glucose intolerance, hyperlipidemia and oxidative stress

in high carbohydrate high fat diet induced obese rats. Poster presented (Md Mizanur Rahman) in *3rd National Conference on Natural Science and Technology (NCNST'16)*, Chittagong, 2016.

- Mohammad Nazmul Alam, Md. Mizanur Rahman, Anayt Ulla, Nusrat Subhan, **Hasan Mahmud Reza**, Murad Hossain, Md Ashraful Alam (2016). Effect of astaxanthin on oxidative stress and cardiac remodeling in isoproterenol administered aged rats. Oral presentation (by Mohammad Nazmul Alam) presented in *3rd National Conference on Natural Science and Technology (NCNST'16)*, Chittagong, 2016.
- Subash Pandaya, Razwa Saleh, Md Ashraful Alam and **Hasan Mahmud Reza**, Interleukin-6 snp marker in association with type-2 diabetes of Bangladeshi origin. *International Conference on Genomics, Nanotech and Bioengineering-2017 (ICGNB-2017)*, Dhaka.
- Mithun Saha, Nowrin Rahman Srithy, Zannatul Ferdous, Muhammad Saiful Islam, **Hasan Mahmud Reza**. Development and optimization of *diospyros peregrina* pulp powder as a multifunctional excipient in wet granulation process using QbD. *ICGNB-2017*, Dhaka.
- Najeeba Nawar, Humaira Binte Noor, Tanim Jahan, Shamshad Rahman Lubna, **Hasan Mahmud Reza**, Mohsin Kazi and Mohammad Hossain Shariare. Liposomal drug delivery of *Corchorus olitorius* leaf extract containing phytol and oleic acid. *ICGNB-2017*, Dhaka. (Awarded Best poster)
- Rafidul Haq, Khadiza Binte Faruque, Md. Mosharaf Hossain, Anika Tabassum ¹, Sung Young Park, **Hasan Mahmud Reza** and Shazid Md. Sharker. Tumor active photothermal therapy by using polyaniline ionic complexed fluorescence carbon nanoparticles. *ICGNB-2017*, Dhaka.
- Kazi Afnan, Saima Binte Haque, Tanzia Tasnim, Mohsin Kazi, **Hasan Mahmud Reza** and Mohammad Hossain Shariare. Nano phytosomal drug delivery of epigallocatechin gallate (egcg) using QbD approach. *ICGNB-2017*, Dhaka.
- Shazid Md. Sharker and **Hasan Mahmud Reza**. Synthesis of magneto fluorescent nanodots towards target drug delivery. *ICGNB-2017*, Dhaka.
- Tahmina Yesmin, Kamrun Nahar, Syeeda Hossain, Tasnim Tabasum, Fariha Kabir, Md. Mizanur Rahman, **Hasan Mahmud Reza** and Md Ashraful Alam. Metformin prevents obesity, improves glucose intolerance, inflammation and oxidative stress in liver of high carbohydrate high fat diet induced obese rats. *ICGNB-2017*, Dhaka.
- Anaytulla, Bishwajit Sikder, Md. Mizanur Rahman, Fariha Kabir, **Hasan Mahmud Reza** and Md. Ashraful Alam. Supplementation of neem leaves powder prevented oxidative stress, fibrosis and cardiac remodeling in isoprenaline induced rats. *ICGNB-2017*, Dhaka.
- Kamrun Nahar, Fariha Kabir, Md Mizanur Rahman, Salma Khan, Md Ashraful Alam and **Hasan Mahmud Reza**. Cardioprotective effect of satkara peel powder against isoproterenol induced myocardial infarction in rats. *ICGNB-2017*, Dhaka. *ICGNB-2017*, Dhaka.
- Tahsin Jahan, Khondoker Ayesha Akther, Fariha Mamun, Md. Mizanur Rahman, Md Ashraful Alam and **Hasan Mahmud Reza**. Effect of lotkon peel powder supplementation prevents hepatic damage in carbon tetrachloride (ccl₄) induced in ovariectomized rats. *ICGNB-2017*, Dhaka.
- Mithun Saha¹, Mohammad Ashraf Uddin, Muhammad Saiful Islam, Tahamina Ulhosna and **Hasan Mahmud Reza**. Divalent cation induced sol to gel transformation of iota-carrageenan as a carrier for floating in situ gelling drug delivery system. *ICGNB-2017*, Dhaka.
- Sanjana Binte Mahbub, Pierce Ritchie, Md. Ashraful Alam, **Hasan Mahmud Reza** and Murad Hossain. Effect of astaxanthin on chronic restraint stress induced depressive mice. *ICGNB-2017*, Dhaka.
- Kulsum Sultana, Umme Safa Mohsina, Papia Saha, **Hasan Mahmud Reza** and Murad Hossain. Effect of rice bran oil on chronic restraint stress induced depressive mice. *ICGNB-2017*, Dhaka.
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- Md Faruk, Md. Mizanur Rahman, Md Abdullah Al Mamun, Nusrat Subhan, **Hasan Mahmud Reza** and Md Ashraful Alam. Ayurvedic formula triphala powder supplementation prevents obesity, improves glucose intolerance, inflammation and oxidative stress in liver of high carbohydrate high fat diet induced obese rats. *ICGNB-2017*, Dhaka.
- D M Isha Olive Khan*, Kazi Nafis Ullah, MD Sadman Sakib Dipto, Aniya Azam Rakhi and

- Hasan Mahmud Reza.** Evaluation of analgesic and antimicrobial activity of crude ethanolic extract of leaves of *Litchi chinensis*. *ICGNB-2017*, Dhaka.
- Nasrin Akhter, Md. Ashraful Alam, Md. Anower Hussain Mian, **Hasan Mahmud Reza** and Md. Saiful Islam. High dose of caffeine induces liver inflammation and fibrogenesis in rat. *ICGNB-2017*, Dhaka.
 - Md. Mizanur Rahman, Mohammad Nazmul Alam, Anayt Ulla, Hemayet Hossain, **Hasan Mahmud Reza** and Md. Ashraful Alam. Effect of guava leaves supplementation on oxidative stress, inflammation and fibrosis in heart of fludrocortisone induced cardiac remodeling in rats. *ICGNB-2017*, Dhaka.
 - Eshaba Karim, Tairin Islam, A T M Feroz Tushar, Shafia Akhter, **Hasan Mahmud Reza** and Preeti Jain. Association of metal tolerance with multiple antibiotic resistance in bacteria isolated from metal contaminated environments. *ICGNB-2017*, Dhaka.
 - Fawzia Mohammed Pasha, Sazia Javed Shifa, Anika Anjum Alam, Preeti Jain and **Hasan Mahmud Reza**. Chromate reducers from contaminated marine environments of Bangladesh with potential in bioremediation. *ICGNB-2017*, Dhaka. (Awarded Best poster)
 - Md. Fahim Akhter, G. M. Sayedur Rahman, **Hasan Mahmud Reza**. 3D structure determination of the nox-1 and nox-3 enzyme (nadh oxidases) as targets for the future development of new anti-atherosclerotic drugs. *ICGNB-2017*, Dhaka.
 - Nabila Tazneen, G. M. Sayedur Rahman and **Hasan Mahmud Reza**. In-silico inhibitor designing against gsk3a protein: a new approach in alzheimer diseases management. *ICGNB-2017*, Dhaka.
 - Tasmia Momin, G. M. Sayedur Rahman and **Hasan Mahmud Reza**. 3D structure determination of the non-structural proteins and endonuclease enzyme of human papillomavirus-16 (*hvp16ref*) as receptor for the development of new subtype specific anti-papilloma drugs. *ICGNB-2017*, Dhaka. (Awarded Best poster)
 - Momin Ul Hoque¹, A.S.M. Zihad Hossain, G. M. Sayedur Rahman and **Hasan Mahmud Reza**. 3D structure determination of the non-structural proteins of zika virus (strain mr 766) as receptors for the development of new anti-zika drugs. *ICGNB-2017*, Dhaka.
 - Preeti Jain, Khan Sanjana Mahmood Promee, Galib Muhammad Abrar, Sazia arifin Kochi and **Hasan Mahmud Reza**. Metagenomic approach for accessing chromium reducing genes from environmental samples. *ICGNB-2017*, Dhaka.
 - Khondker Ayesha Akter, **Hasan Mahmud Reza**, Mohammed A. Mansour, Toshinori Hyodo and Takeshi Senga. A significant positive correlation exists between PRMT1 and FAM98a expression in colorectal cancer. *ICGNB-2017*, Dhaka.
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