

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

APPOINTMENT HISTORY

Position	Institution	Duration
Dean School of Health and Life Sciences	North South University	June '21 to date
Acting Dean School of Health and Life Sciences	North South University	May '20 to June '21
Professor Department of Pharmaceuticals Sciences	North South University	Jul '18 to May '2020
Professor and Chairman , Department of Pharmaceuticals 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	June '10 to Dec '11
Research Scientist	Singapore Eye Research Institute, Singapore	Feb '09 to June '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

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

ACADEMIC QUALIFICATION

- 2002** **PhD in Molecular & Developmental Biology**, 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.
- 1995** **MPharm**, Dept. of Pharmacy, Faculty of Biological Sciences, University of Dhaka, Dhaka, Bangladesh, 1st class (positioned 3rd)
- 1993** **BPharm**, Dept. of Pharmacy, Faculty of Biological Sciences, University of Dhaka, Dhaka, Bangladesh, 1st class (positioned 6th)

1986 H.S.C (Science), Secured 1st Division and stood 5th in the combined merit list from Jhenidah Cadet College.

1988 S.S.C (Science), Secured 1st Division and stood 7th in the combined merit list from Jhenidah Cadet College.

Awarded merit scholarship at all levels of education

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 smooth management of the concerned departments under the school
- create strategies to conduct cutting-edge research in line with school's vision
- create and exploit new opportunities for knowledge transfer activity in order to enter new areas of teaching and research
- promote and represent the school and university both internally and externally
- contribute to university-wide initiatives in order to improve ranking 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

AREAS OF EXPERTISE

- **Molecular biology and biochemistry:** DNA recombination, 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 cell sheet. 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 on animal disease models** (oxidative stress, cardiovascular disease and neurodisorder)
- **Software:** MS word, Gene works, Genetyx, Adobe Illustrator, Adobe Photoshop, etc.

RESEARCH & JOURNAL PUBLICATIONS

- 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.
- 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.
- 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.
- Ahmed R, **Reza HM**, Shinohara K, Nakahata Y. Cellular senescence and its impact on the circadian clock. *The Journal of Biochemistry*. 2021 Oct 20.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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
- 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
 - 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
 - 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
 - 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 CCl₄-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>.
 - 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>.
 - Johra FT, Bepari AK, Bristy AT, **Reza HM**. A Mechanistic Review of β -Carotene, Lutein, and Zeaxanthin in Eye Health and Disease. *Antioxidants (Basel).* 2020 Oct 26;9(11): E1046. doi: 10.3390/antiox9111046.
 - 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.
 - **Reza HM**, Sultana F, Khan IO. Disruption of Healthcare Amid COVID-19 Pandemic in Bangladesh. *TOPHJ*, 2020; 13: 438-440. DOI: 10.2174/1874944502013010438.
 - 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>.
 - 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.
 - **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>
 - 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. *DUJPS*, EPUB: MARCH 4, 2020, 19(1):14-24. [HTTPS://DOI.ORG/10.3329/DUJPS.V19I1.47814](https://doi.org/10.3329/dujps.v19i1.47814)
 - 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
 - Khan F, Kuddus SA, Shohag MH, **Reza HM** Hossain M. Astaxanthin, the natural antioxidant, reduces reserpine induced depression in mice. *Current Bioactive Compounds.* 2020; DOI: 10.2174/1573407216666 200203142722.

- Al-Amin MM, Chowdury MIA, Saifullah ARM, Alam MN, Jain P, Hossain M, Alam MA, Kazi M, Ahmad A, Raish M, Alqahtani A, **Reza HM** (2019). Levocarnitine Improves AIC13-Induced Spatial Working Memory Impairment in Swiss albino Mice. *Front Neurosci.* 2019 Mar 26;13:278. DOI: 10.3389/fnins.2019.00278.
- Jain P, Haque A, Islam T, Alam MA, **Reza HM**. Comparative evaluation of *Ziziphus mauritiana* leaf extracts for phenolic content, antioxidant and antibacterial activities, *Journal of Herbs, Spices & Medicinal Plants.* 2019, DOI:10.1080/10496475.2019.1600627
- Shariare MH, Altamimi MA, Marzan AL, Tabassum R, Jahan B, **Reza HM**, Rahman M, Ahsan GU, Kazi M. In vitro dissolution and bioavailability study of furosemide nanosuspension prepared using design of experiment (DoE). *Saudi Pharm J.* 2019 Jan;27(1):96-105. DOI: 10.1016/j.jsps.2018.09.002
- Prianka TR, Subhan N, **Reza HM**, Hosain MK, Rahman MA, Lee H, Sharker SM. Recent exploration of bio-mimetic nanomaterial for potential biomedical applications. *Mater Sci Eng C Mater Biol Appl.* 2018 Dec 1;93:1104-1115. DOI: 10.1016/j.msec.2018.09.012
- Al-Amin MM, Choudhury MFR, Chowdhury AS, Chowdhury TR, Jain P, Kazi M, Alkholief M, Alshehri SM, **Reza HM**. Pretreatment With Risperidone Ameliorates Systemic LPS-Induced Oxidative Stress in the Cortex and Hippocampus. *Front Neurosci.* 2018 Jun 8;12:384. DOI: 10.3389/fnins.2018.00384
- Nahar K, Kabir F, Islam P, Rahman MM, Al Mamun MA, Faruk M, Subhan N, Rahman GMS, **Reza HM**, Alam MA. Cardioprotective effect of *Amaranthus tricolor* extract in isoprenaline induced myocardial damage in ovariectomized rats. *Biomed Pharmacother.* 2018 Jul;103:1154-1162. DOI: 10.1016/j.biopha.2018.04.151
- Machado KDC, Islam MT, Ali ES, Rouf R, Uddin SJ, Dev S, Shilpi JA, Shill MC, **Reza HM**, Das AK, Shaw S, Mubarak MS, Mishra SK, Melo-Cavalcante AAC. A systematic review on the neuroprotective perspectives of beta-caryophyllene. *Phytother Res.* 2018 Dec;32(12):2376-2388. DOI: 10.1002/ptr.6199
- Alam MA, Sagor AT, Tabassum N, Ulla A, Shill MC, Rahman GMS, Hossain H and **Reza HM**. Caffeic acid rich Citrus macroptera peel powder supplementation prevented oxidative stress, fibrosis and hepatic damage in CCl₄ treated rats. *Clinical Phytoscience.* 2018; 4:14. DOI: <https://doi.org/10.1186/s40816-018-0074-y>
- Marzan AL, Tabassum R, Jahan B, Asif MH, **Reza HM**, Kazi M, Alshehri SM, de Matas M, Shariare MH. Preparation and Characterization of Stable Nanosuspension for Dissolution Rate Enhancement of Furosemide: A Quality by Design (QbD) Approach. *Curr Drug Deliv.* 2018;15(5):672- 685. DOI: 10.2174/1567201815666180123094320
- Shariare MH, Sharmin S, Jahan I, **Reza HM**, Mohsin K. The impact of process parameters on carrier free paracetamol nanosuspension prepared using different stabilizers by antisolvent precipitation method. *J Drug Deliv Sci Technol.* 2018 Feb 43:122-28.
- Saleh R, **Reza HM**. Short review on human umbilical cord lining epithelial cells and their potential clinical applications. *Stem Cell Res Ther.* 2017 Oct 10;8(1):222.
- Sharker SM, Alam MA, Shill MC, Rahman GMS, **Reza HM**. Functionalized hBN as targeted photothermal chemotherapy for complete eradication of cancer cells. *International Journal of Pharmaceutics*, 2017;13;534(1-2):206-212.
- Md. Ariful Islam, Md. Abdullah Al Mamun, Md. Faruk, Md. Tauhid ul Islam, Md. Mizanur Rahman, Mohammad Nazmul Alam, AFM Towheedur Rahman, **Hasan Mahmud Reza**, Md. Ashraful Alam. Astaxanthin ameliorates hepatic damage and oxidative stress in carbon tetrachloride (CCl₄) administered rats. *Pharmacognosy Research.* 2017;9:84-91.
- Md Abu Taher Sagor, **Hasan Mahmud Reza**, Nabila Tabassum, Md. Moshfequr Rahman and Md. Ashraful Alam. Fresh bitter melon fruit (*Momordica charantia*) attenuated oxidative stress, fibrosis and renal injury in carbon tetra-chloride treated rats. *Dhaka University Journal of Pharmaceutical Sciences*, 2017;16(2):205-214.
- Rahman MM, Alam MN, Ulla A, Sumi FA, Subhan N, Khan T, Sikder B, Hossain H, **Reza HM**, Alam MA. Cardamom powder supplementation prevents obesity, improves glucose

intolerance, inflammation and oxidative stress in liver of high carbohydrate high fat diet induced obese rats. *Lipids Health Dis.* 2017 Aug 14;16(1):151.

- Anayet Ulla, Md Ashrafal Alam, Biswajit Sikder, Farzana Akter Sumi, Md Mizanur Rahman, Zaki Farhad Habib, Mostafe Khalid Mohammed, Nusrat Subhan, Hemayet Hossain, **Hasan Mahmud Reza**. Supplementation of *Syzygium cumini* seed powder prevented obesity, glucose intolerance, hyperlipidemia and oxidative stress in high carbohydrate high fat diet induced obese rats. *BMC Complement Altern Med.* 2017 Jun 2;17(1):289. doi: 10.1186/s12906-017-1799-8).
- Anayet Ulla, Mustafe Khalid Mohamed, Biswajit Sikder, AFM Towheedur Rahman, Farzana Akther Sumi, Murad Hossain, **Hasan Mahmud Reza**, G. M. Sayedur Rahman, Md Ashrafal Alam. Coenzyme Q10 prevents oxidative stress and fibrosis in isoprenaline induced cardiac remodeling in aged rats. *BMC Pharmacol Toxicol.* 2017 Apr 20;18(1):29. doi: 10.1186/s40360-017-0136-7.
- Mohammad Nazmul Alam , Md. Murad Hossain , Md. Mizanur Rahman, Nusrat Subhan, Md. Abdullah Al Mamun , Anayt Ulla, **Hasan Mahmud Reza**, Md. Ashrafal Alam. Astaxanthin prevented oxidative stress in heart and kidneys of isoproterenol-administered aged rats. *J Diet Suppl.* 2018 Jan 2;15(1):42-54. doi: 10.1080/19390211.2017.1321078. Epub 2017 May 10.
- Marina Mostafizar, Pritha Puloma Haque, Md. Abdul Mazid, Mohammad Shohel, Gamal shazly, Mohsin Kazi and **Hasan Mahmud Reza**. Characterization of binding sites of clopidogrel and interference of linoleic acid at the binding site on bovine serum albumin. *Acta Poloniae Pharmaceutica- Drug Research*, Vol. 74 No. 1 pp. 119-125, 2017.
- Zinchenko A, Al-Amin M.M, Alam M.M, Mahmud W, Kabir N, **Reza H.M**, Burne THJ. Content specificity of attentional bias to threat in post-traumatic stress disorder. *Journal of Anxiety Disorders*, 50; 33–39, 2017.
- Md Mizanur Rahman, Awale Yousuf Muse, D.M. Isha Olive Khan, Ismaile Hussein Ahmed, Nusrat Subhan, **Hasan Mahmud Reza**, Md Ashrafal Alam, Lutfun Nahar, Satyajit Dey Sarker. Apocynin prevented inflammation and oxidative stress in carbon tetra chloride induced hepatic dysfunction in rats. *Biomed Pharmacother.* 2017 Aug; 92: 421-428. doi: 10.1016/j.biopha.2017.05.101. Epub 2017 May 27.
- Saleh R, Zahid ZI, Rahman MA, Jain P, Alam A, Kawaichi M, **Reza HM**. (2016). Prevalence of PPAR- γ 2 (rs1801282), RETN (rs3745367) and ADIPOQ (rs2241766) SNP markers in the Bangladeshi type 2 diabetic population. *Meta Gene*10: 100-107, 2016.
- Subash Pandaya, Razwa Saleh, Md. Ashrafal Alam, Md. Mamun Al Amin, Preeti Jain and **Hasan Mahmud Reza**. Interleukin-6 Gene Polymorphism (-572 C>G) In Type 2 Diabetes of Bangladeshi Origin. *Advances in Biological Research* 10 (3): 167-174, 2016.
- Syed Yeasin Arafat, Mohammad Nayeem, Sharfiat Jahan, Zarifa Karim, **Hasan Mahmud Reza**, Md Hemayet Hossain, Mohammad Shohel, Md Ashrafal Alam. Ellagic acid rich Momordica charantia fruit pulp supplementation prevented oxidative stress, fibrosis and inflammation in liver of alloxan induced diabetic rats. *Oriental Pharmacy and Experimental Medicine* 2016, Volume 16, Issue 4, pp 267–278.
- Anayt Ulla, Md Tariqur Rahman, Zaki Farhad Habib, Md. Moshfequr Rahman, Nusrat Subhan, Biswajit Sikder, **Hasan Mahmud Reza**, Md Hemayet Hossain, Md Ashrafal Alam. Mango peel powder supplementation prevents oxidative stress, inflammation and fibrosis in carbon tetrachloride induced hepatic dysfunction in rats, *JFoodBiochem.* 2017;41:e12344.
- Md Abu Taher Sagor, **Hasan Mahmud Reza**, Nabila Tabassum, Biswajit Sikder, Anayt Ulla, Nusrat Subhan, Md Hemayet Hossain and Md Ashrafal Alam. Supplementation of rosemary

(*Rosmarinus officinalis*) prevents oxidative stress, inflammation, fibrosis, & iron overload on CCl₄ treated rat's model. *Current Nutrition and Food Science*, Vol 12; DOI 10.2174/1573401312666160816154610, 2016.

- Md Abu Taher Sagor, Md Mohabbulla Mohib, Nabila Tabassum, Ishfaq Ahmed, **Hasan Mahmud Reza** and Md Ashraful Alam. Fresh Seed Supplementation of *Syzygium Cumini* Attenuated Oxidative Stress, Inflammation, Fibrosis, Iron Overload, Hepatic Dysfunction and Renal Injury in Acetaminophen Induced Rats. *J Drug Metab Toxicol*, 7:2. 2016.
- Md Mohabbulla Mohib, Istiaque Hasan, Wahida Khan Chowdhury, Nafees Uddin Chowdhury, Sarif Mohiuddin, Md Abu Taher Sagor, **Hasan Mahmud Reza** and Md. Ashraful Alam. Role of Angiotensin II in Hepatic Inflammation through MAPK Pathway: A Review. *JHep.* 2016, 2:2: 13.
- Alam MA, Subhan N, Hossain H, Hossain M, **Reza HM**, Rahman MM, Ullah MO. Hydroxycinnamic acid derivatives: a potential class of natural compounds for the management of lipid metabolism and obesity. *Nutr Metab (Lond)*. 2016 Apr 11;13:27. doi: 10.1186/s12986-016-0080-3.
- Al-Amin MM, Sultana R, Sultana S, Rahman MM, **Reza HM**. Astaxanthin ameliorates prenatal LPS-exposed behavioral deficits and oxidative stress in adult offspring. *BMC Neuroscience* 2016 Feb 8;17(1):11.
- Al-Amin MM, **Reza HM**, Saadi HM, Mahmud W, Ibrahim AA, Alam MM, Kabir N, Saifullah AR, Tropa ST, Quddus AH. Astaxanthin ameliorates aluminum chloride-induced working memory impairment and neuronal oxidative stress in mice. *Eur J Pharmacol.* 2016 Feb 27. pii: S0014-2999(16)30105-4. doi: 10.1016/j.ejphar.2016.02.062.
- [Alam A](#), [Uddin R](#), [Subhan N](#), [Rahman](#), M M, [Jain P](#), **Reza H M**. Beneficial role of Bitter melon supplementation on obesity and related complications in metabolic syndrome. *J Lipids*. 2015;2015:496169.
- **Hasan Mahmud Reza**, Zarin Tasnim Gias, Priota Islam, Sadia Sabnam, Preeti Jain, Md Hemayet Hossain, Md Ashraful Alam (2015). HPLC-DAD system based phenolic content analysis and *in vitro* anti-oxidant activities of rice bran obtained from Aush Dhan (*Oryza sativa*) of Bangladesh. *Journal of Food Biochemistry*, 39 (4): 462-470.
- **Hasan Mahmud Reza**, Md Abu Taher Sagor, Md Ashraful Alam (2015) Iron deposition causes oxidative stress, inflammation and fibrosis in carbon tetrachloride (CCl₄) induced liver dysfunction in rats. *Bangladesh Journal of Pharmacology*, 10: 152-59.
- **Reza HM**, Tabassum N, Sagor MA, Chowdhury MR, Rahman M, Jain P, Alam MA. Angiotensin converting enzyme inhibitor prevented oxidative stress, inflammation and fibrosis in liver of carbon tetrachloride (CCl₄) treated rats. *Toxicol Mech Methods*. 2016 Jan;26(1):46-53.
- Alam MA, Chowdhury MR, Jain P, Sagor MA, **Reza HM**. DPP-4 inhibitor sitagliptin prevents inflammation and oxidative stress of heart and kidney in two kidney and one clip (2K1C) rats. *Diabetol Metab Syndr*. 2015 Nov 25;7:107.
- Ang L, Jain P, Phan TT, and **Reza HM**. Human Umbilical Cord Lining Cells as Novel Feeder Layer for Ex-vivo Cultivation of Limbal Epithelial Cells. *Invest Ophthalmol Vis Sci*. 2015 Jul 1;56(8):4697-704.

- Al-Amin MM, Rahman MM, Rahman F, Ema FZ and **Reza H M**. Astaxanthin improves behavioural disorder and oxidative stress in prenatal valproic acid-induced mice model of autism. *Behav Brain Res*. 2015 Jun 1;286:112-21.
- Jain P, Hossain MS, Fatema K, Hossain MAA , Mazumder KU, Hossain H, Alam MA and **Reza H M**. Anti-Inflammatory, Analgesic and Antioxidant Activities of *Allophylus Cobbe* Leaves. *Am J Pharmacol Toxicol*. 2015 Vol: 9, Issue : 4 Pages : 223-231.
- **Reza H M**, Shohel M, Aziz SB, Pinaz FI, Uddin M F, Al-Amin M, Khan I N, Jain P. Phytochemical and pharmacological investigation of ethanol extract of *Cissampelos Pareira*. *Indian J Pharm Sci* 2014;76:455-8.
- Saffoon N, Uddin R, Subhan N, Hossain H, **Reza H M**, Alam M A. *In vitro* Antioxidant Activity and HPLC-DAD System Based Phenolic Content Analysis of *Codiaeum variegatum* Found in Bangladesh. *Adv Pharm Bull*. 2014 Dec;4(Suppl 2):533-41.
- Jain P, **Reza HM**, Pal S. Molecular phylogenetic analysis of bacterial community and characterization of Cr(VI) reducers from the sediments of Tantloi hot spring, India. *Aquat Biosyst*. 2014 Sep 2;10:7
- Al-Amin MM, Reza HM, Islam MN, Uddin MMN, Choudhury SK. Studies of Lipid Profile, Liver and Kidney Function Parameters of Female Rat Plasma After the Administration of “Khadiraristha”. *Turk J Pharm Sci* 2014 11(2), 145-152.
- Jain P, Hossain S, Fatema K, Mazumder K, Hossain H, Alam A, **Reza HM**. Antinociceptive and anti-inflammatory activities of *Mycetia longifolia* (Wall.) O. Kuntze. *J of Herbs, spices & med. plants*. 2014 Doi: 10.1080-10496475.2014.983285.(in press)
- Alam MA, Subhan N, Rahman MM, Uddin SJ, **Reza HM**, Sarker SD. Effect of citrus flavonoids, naringin and naringenin, on metabolic syndrome and their mechanisms of action. *Adv Nutr*. 2014 Jul 14;5(4):404-17.
- Al-Amin MM, **Reza HM**. Neuroinflammation: Contemporary anti-inflammatory treatment approaches. *Neurosciences*. 19(2):87-92. 2014.
- Shohel M, Rahman MM, Zaman A, Uddin MM, Al-Amin MM, **Reza HM**. A systematic review of effectiveness and safety of different regimens of levonorgestrel oral tablets for emergency contraception. *BMC Womens Health*. 4;14:54. doi: 10.1186/1472-6874-14-54. 2014.
- Preeti Jain, Khondker Rufaka Hossain, Tamanna Rashid Mishu and **Hasan Mahmud Reza**. Antioxidant and Antibacterial Activities of *Spondias pinnata*. Kurz. Leaves. *European Journal of Medicinal Plants*. 4(2): 183-195, 2014.
- Al-Amin MM, Nasir Uddin MM, **Mahmud Reza H**. Effects of antipsychotics on the inflammatory response system of patients with schizophrenia in peripheral blood mononuclear cell cultures. *Clin Psychopharmacol Neurosci*. 2013 Dec;11(3):144-51. doi: 10.9758/cpn.2013.11.3.144. Epub 2013 Dec 24.
- Al-Amin MM, Uddin MM, Rahman MM, **Reza HM**, Rana MS. Effect of diclofenac and antidepressants on the inflammatory response in astrocyte cell culture. [Inflammopharmacology](#). Jul 30. [Epub ahead of print] 2013.
- Mohammad Shohel, Shoaib-Ul-Islam, Rasiqh Wadud, Zaki Farhad Habib, Farjana Malik, Sanjana Kabir and **Hasan Mahmud Reza**. Management of Benzodiazepine Dependence and

- Toxicity. *Journal of Applied Pharmaceutical Science*. Vol. 3 (06), pp. 146-151. 2013.
- Tabinda Islam, Samina Ferdous, Preeti Jain and **Hasan Mahmud Reza**. Method development and validation of Baclofen mouth dissolving tablets by UV spectroscopy. *European Journal of Applied Sciences*. 5 (1): 07-11. 2013.
 - **Hasan Mahmud Reza**, Tabinda Islam, Mohammad Shohel and Preeti Jain. Formulation Development of Taste Masked Aceclofenac Orodispersible Tablets. *American-Eurasian Journal of Scientific Research*. 2012. 7 (6): 257-263.
 - **Hasan Mahmud Reza**, Layla Zaman, Tahmina Yasmin, Adit Muktedir Pavel and Preeti Jain. In vitro Dissolution Studies of Different Brands of Baclofen Tablets Available in Bangladesh. *International Journal of Basic Medical Sciences and Pharmacy* 2012. 2(2): 80-82.
 - Ogino H, Ochi H, **Reza HM**, Yasuda K. Transcription factors involved in lens development from the preplacodal ectoderm. *Dev Biol*. 2012 Mar 15;363(2):333-47.
 - Preeti Jain, Alina Amatullah, Samiul Alam Rajib and **Hasan Mahmud Reza**. Antibiotic resistance and chromium reduction pattern among actinomycetes. *American Journal of Biochemistry and Biotechnology*. 2012. 8(2): 111-117.
 - **Hasan Mahmud Reza**, Tabinda Islam, Mohammad Shohel and Preeti Jain. Formulation Design and Evaluation of Baclofen Mouth Dissolving Tablets. *European Journal of Applied Sciences* 4 (3): 110-116, 2012.
 - Ang LP, Do TP, Thein ZM, **Reza HM**, Tan XW, Yap C, Tan DT, Beuerman RW. Ex Vivo Expansion of Conjunctival and Limbal Epithelial Cells using Cord Blood Serum-Supplemented Culture Medium. *Invest Ophthalmol Vis Sci*. 2011 Aug 3;52(9):6138-47.
 - **Hasan Mahmud Reza**, Boon-Ye Ng, Federico Luengo Gimeno, Toan Thang Phan and Leonard Pek-Kinag Ang. Umbilical cord lining stem cells as a novel and promising source for ocular surface regeneration. *Stem Cell Rev*. 2011 Nov;7(4):935-47.
 - **Hasan Mahmud Reza**, Boon-Yee Ng, Toan Thang Phan, Donald TH Tan, Roger W Beuerman and Leonard PK Ang. Characterization of a novel umbilical cord lining cell with CD227 positivity and unique pattern of p63 expression and function. *Stem Cell Rev*. 2011 Sep;7(3):624-38.
 - Kanai K, **Reza HM**, Kamitani A, Hamazaki Y, Han SI, Yasuda K, Kataoka K. SUMOylation negatively regulates transcriptional and oncogenic activities of MafA. *Genes Cells*. 2010;15(9):971-82.
 - Nihar Ranjan Bhuyan, Md. Nurul Islam, **H M Reza**, J P Mohanty, B P Saha and Tanmoy Bera. An evidence of reduction of NQSA and DTNS by Leishmania Donovanii. *Int. J. Pharmacol. Biol. Sci*. 2009; 3(1):71-79.
 - **Hasan Mahmud Reza**, Hirofumi Nishi, Kohsuke Kataoka, Yoshiko Takahashi and Kunio Yasuda. L-Maf regulates p27kip1 expression during chick lens fiber differentiation. *Differentiation*. 2007; 75(8):737-44.
 - **Hasan Mahmud Reza**, Yoshiko Takahashi and Kunio Yasuda. Stage-dependent expression of Pax6 in optic vesicle/cup regulates patterning genes through signaling molecules. *Differentiation*. 2007; 75(8):726-36.
 - **Hasan Mahmud Reza**, Atsuyo Urano, Naoko Shimada and Kunio Yasuda. Sequential and combinatorial roles of maf family genes define proper lens development. *Mol Vis*. 2007 Jan 16;13:18-30.
 - **Hasan Mahmud Reza** and Kunio Yasuda. Impact of Biotechnology on Pharmacy and a

related talk. *International Journal of Development Studies*. 2005; 1: 60-77.

- **Hasan Mahmud Reza** and Kunio Yasuda. Gene Therapy: An emerging approach in treatment. *Journal of Science and Engineering*. 2005; 2: 1-9.
- **Hasan Mahmud Reza** and Kunio Yasuda. The involvement of neural retina Pax6 in lens fiber differentiation. *Dev. Neurosci*. 2004; 26: 318-327.
- **Hasan Mahmud Reza** and Kunio Yasuda. Lens differentiation and crystallin regulation: a chick model. *Int J Dev Biol*. 2004; 48(8-9): 805-17.
- **Hasan Mahmud Reza** and Kunio Yasuda. Roles of Maf family proteins in lens development. *Dev Dyn*. 2004 Mar; 229(3): 440-8.
- Naoko Shimada, Tomoko Aya-Murata, **Hasan Mahmud Reza** and Kunio Yasuda. Cooperative action between L-Maf and Sox2 on δ -crystallin gene expression during chick lens development. *Mech. Dev*. 2003; 120: 55-65.
- **Hasan Mahmud Reza**. Inhalation therapy: The targeted treatment for asthma management. *Bangladesh Pharmaceutical Journal* 2002; 12(3): 1-4.
- **Hasan Mahmud Reza**, Hajime Ogino and Kunio Yasuda. L-Maf, a downstream target of Pax6, is essential for chick lens development. *Mech. Dev*. 2002; 116(1-2): 61-73.
- Hajime Ogino, **Hasan Mahmud Reza**, Kiyo Sakagami and Kunio Yasuda. Ectopic expression of transcription factors by in ovo electroporation - an approach in studying molecular mechanisms of eye development. *Cell Technology* 1999; 18(10): 1556-61.
- **Hasan Mahmud Reza**, Abdul Jabbar, Abul Hasnat, Md. Abdur Rashid. Antibacterial and cytotoxicity of the metabolites of a *Streptomyces* species. *Bangladesh J Physiol Pharmacol* 1997; 13(1): 11-13

CONFERENCE PROCEEDINGS

- 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 optimisation 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 Tabassum¹, 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, Papiya Saha, **Hasan Mahmud Reza** and Murad Hossain. Effect of rice bran oil on chronic restraint stress induced depressive mice. *ICGNB-2017*, Dhaka.
- Nasrin Akhter, Md. Ashraful Alam, Tasfiq Zaman Paran, **Hasan Mahmud Reza** and Md. Saiful Islam. Yaba induced oxidative damage in rat liver after long term administration. *ICGNB-2017*, Dhaka.
- 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 diease 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 papilloma virus-16 (*hpv16ref*) 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.
- 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 (*Emblica 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.
- **Hasan Mahmud Reza**, Toan Thang Phan, Leonard Pek-Kiang Ang. Human Umbilical Cord Lining Epithelial Cells as Novel Feeder Layer for Ex-vivo cultivation of limbal epithelial cells. 2014. P-330, *International Conference of Life Science and Biological Engineering*, Japan.
- Mohammad Shohel, Rakibul Hasan, Md. Fakhar Uddin, Preeti Jain, Irfan Newaz Khan and **Hasan Mahmud Reza**. Phytochemical and pharmacological investigation of different extracts of *Dillenia Pentagyna*. 2013. Ist International Symposium on Pharmaceutical Sciences: A global approach, Chittagong, Bangladesh.
- Ang LPK1, Ng BY2, Gimeno FL1, Toan TP3, Beuerman RW2, **Reza HM**. Transplantation of Umbilical Cord Lining Stem Cells as a Promising Novel Method for Epithelial Regeneration for the Treatment of Corneal and Ocular Surface Diseases. 2012. SingHealth Duke-NUS Scientific Congress, Singapore.
- Leonard Ang, **HM Reza**, XW Tan, PT Do, MT Zaw, LPS Ang, C Yap, TH Koon, DTH Tan and RW Beuerman. The Novel Use of a Human Cord Blood Serum-Supplemented Culture Medium for the Ex Vivo Expansion of Conjunctival and Limbal Epithelial Cells. 2011 Asia-ARVO meeting, Singapore.
- Leonard PK Ang, Ng Boon Yee, Toan Thang Phan, Donald TH Tan, Roger W Beuerman and **Hasan Mahmud Reza**. Isolation And Characterization Of A Novel Stem Cell Population From Human Umbilical Cord. 2010, 1st Singapore Health and Biomedical Congress, Singapore.
- LPK Ang, **HM Reza**, XW Tan, PT Do, MT Zaw, LPS Ang, C Yap, TH Koon, DTH Tan and RW Beuerman, 'The Novel Use of a Human Cord Blood Serum-Supplemented Culture Medium for the Ex Vivo Expansion of Conjunctival and Limbal Epithelial Cells' 2009, NHG International Ophthalmology Congress, Singapore.
- **Hasan Mahmud Reza** and Kunio Yasuda, 'Sequential and combinatorial roles of *maf* family genes define proper lens development' in the proceedings of the 65th Annual Meeting of the Society for Developmental Biology, 2006, Michigan, USA.
- **Hasan Mahmud Reza**, Yoshiko Takahashi and Kunio Yasuda, 'Regulatory interactions among the *maf* family genes and their roles in lens development' in the proceedings of the 39th Annual Meeting of the Japanese Society of Developmental Biologists, 2006, pp 117 (abstract). Hiroshima, Japan. (oral)
- **Hasan Mahmud Reza** and Kunio Yasuda, 'Pax6 activity and the expression of FGF8 and BMP4 in neural retina during chick eye development' In *15th International Society of Developmental Biologists Congress*, Australia 2005. Abstract published in *Mech Dev* vol. 122 (suppl. 1), p92.
- **Hasan Mahmud Reza** and Kunio Yasuda, 'Functional comparison of Maf genes in lens development by in ovo electroporation'. In *2nd SERI-ARVO Meeting on Research in Vision and Ophthalmology*, Singapore 2005. (both oral and poster).
- **Hasan Mahmud Reza** and Kunio Yasuda, 'The involvement of neural retina Pax6 in lens fiber differentiation'. In *44th Annual Meeting of the American society for Cell Biology*, Washington, DC, USA 2004. Abstract published in *Mol. Biol. Cell* vol. 15 (suppl.), p217.
- **Hasan Mahmud Reza** and Kunio Yasuda, 'Pax6 in neural retina plays role in the maintenance of L-Maf required for continued lens-fiber differentiation'. In *the 2nd NAIST Bio-COE international*

symposium on Molecular network in cellular signal transduction and environment responses. Nara, Japan 2004. (both oral & poster).

- **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** and Kunio Yasuda, 'Pax6 expressed in neural retina plays role in lens fiber differentiation via maintaining L-Maf expression'. In *the 25th Annual Meeting of the Molecular Biology Society of Japan* 2002, pp. 620 (abstract) Yokohama, Japan.
- **Hasan Mahmud Reza**, Hajime Ogino and Kunio Yasuda, 'Involvement of Pax6 in eye morphogenesis'. In 14th International Congress of Developmental Biology (ICDB) 2001, Kyoto, Japan, abstract published in *Dev. Growth Diff.* Vol. 43, Supplement , S9-p61.
- **Hasan Mahmud Reza**, Hajime Ogino and Kunio Yasuda, 'Requirement for Pax6 activity in lens progenitor cells is prerequisite for the expression of transcription factors L-Maf and Prox1' in *proceedings of 2001 Meeting on Stem and Progenitor Cells: Biology and Application* 2001, pp. 57 (abstract), Cold Spring Harbor Laboratory, New York, USA.
- **Hasan Mahmud Reza**, Hajime Ogino and Kunio Yasuda, 'Induction of lens differentiation factors L-Maf and Prox1 requires Pax6 function' in *the 23rd Meeting of Molecular Biology Society of Japan (MBSJ)* 2000, pp. 23-24 (abstract). Kobe, Japan.
- Hajime Ogino, **Hasan Mahmud Reza** and Kunio Yasuda, in *the 14th International Congress of Eye Research (ICER)* 2000, Santa Fe, New Mexico, USA, abstract published in *Exp. Eye Res.* Vol. 71, Suppl. 1, S.190.

DISSERTATIONS

1. **Hasan Mahmud Reza** and Kunio Yasuda. The role of Pax6 and L-Maf in chick lens development (PhD thesis). Naist publication, Japan 2002.
2. **Hasan Mahmud Reza** and Abdul Jabbar. A study on Streptomyces species (MPharm thesis), Department of Pharmacy, University of Dhaka 1996.

BOOKS

1. Kunio Yasuda and **Hasan Mahmud Reza**. Series: New Century of Biological Sciences; Body Plan of Animals; Eye Formation. Chapter 7, Kyoritsu Publishing House, Japan 2004.
2. Leonard P.K. Ang, **Hasan M Reza**, Donald T.H. Tan. Stem cells of the eye: basic science and clinical applications. Chapter 15, Stem Cells: From Bench To Bedside; edited by EH Lee and A Bongso, Second Edition, World Scientific Publishing Group. 2011.

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.

RESEARCH GRANTS AWARDED

- A survey on knowledge, attitude and practice among quack doctors and pharmacy shopkeepers towards the use of antibiotics in rural Bangladesh. (2020-21); Tk. 400,000.
- 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. (2019-2020); Tk. 498500.
- Development of resveratrol containing Self-nano emulsifying drug delivery systems (SNEDDS) to enhance bioavailability and efficacy of drug. Bangladesh Medical Research Council. (2020-21) Tk. 500,000.
- Post-market in-vitro quality assessment of different brands of ciprofloxacin 500 mg tablet. Bangladesh Medical Research Council. (2019-20); Tk. 500,000.
- Study of Antioxidants for the prevention and Treatment of Cardiovascular disorder in Rats. Funding source: BANBEIS, Ministry of Education (2018-20); Tk. 2,200,000.
- Evaluating the role of natural antioxidants in diet induced obesity and fat metabolizing gene expression in animal model. Funding source: Ministry of Science and Technology, Bangladesh. Tk. 300,000. (2016).
- 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: North South University Research Grants (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 (2021) from North South University for Outstanding Research Performance during 2018-2020.
2. Dean’s Award (2016) from North South University for Outstanding Research Performance during 2011-2015.
3. Best Poster- SingHealth Duke-NUS Scientific Congress 2012, Raffles City Convention Centre. Singapore.
4. Alcon Research Prize (Best Paper, Senior category), NHG International Ophthalmology Congress 2009, Singapore.
5. NHG-NUHS Silver Award, NHG International Ophthalmology Congress 2009, Singapore.
6. Japanese Govt. Scholarship (MONBUSHO) for post-graduate studies in the Nara Institute of Science and Technology (1998-2002).
7. Chancellor Award for outstanding result in Secondary School Certificate Examination (1986).

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MEMBERSHIP in professional Societies

- Editor (2016-), Frontiers in Public Health
- Consulting Editor (2012-), Asian Journal of Applied Science and Engineering
- BPSA (1995-) Bangladesh Pharmaceutical Society Association
- PGA (1995-) Pharmacy Graduates Association, Bangladesh
- MBSJ (2000 -) The Molecular Biology Society of Japan
- JSDB (2001-) The Japanese Society of Developmental Biologists
- ARVO (2009-) Association for Research in Vision and Ophthalmology
- JEXCA (1988-) Life member, Jhenidah Ex-Cadet Association
- DUPAA (2007-) Life member, Dhaka University Pharmacy Alumni Association

REFERENCES

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3. Professor Kunio Yasuda

Ex President, Nara Institute of Science and Technology, Japan

Lab. of Molecular and Developmental Biology, Nara Institute of Science and Technology, Japan,

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4. Assoc Professor Phan Toan-Thang

Department of Surgery and Faculty of Dentistry (join appointment).

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Signature _____