

# **Curriculum Vitae**

## **Professor Hasan Mahmud Reza, PhD**

### **Chairman**

Department of Pharmaceutical Sciences

North South University (NSU), Bangladesh

Plot # 15, Block # B, Bashundhara R/A

Dhaka 1229, Bangladesh

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### **Permanent Address:**

Block A, Road 2, Plot 113, Unit- 5A, Bashundhara R/A, Dhaka 1229.

### **Education**

#### **Ph.D.** (June, 2002)

1999-2002 Nara Institute of Science & Technology (NAIST), Japan.

Laboratory of Molecular and Developmental Biology,

Graduate School of Biological Sciences

Thesis Title: The role of Pax6 and L-Maf in lens development.

Major Contribution: Proposed a gene cascade involved in chick lens development program.

#### **Research Student**

1998-1999 (October-March) Nara Institute of Science & Technology (NAIST), Japan.

Laboratory of Molecular and Developmental Biology,

Graduate School of Biological Sciences

Major achievement: Gained knowledge in molecular and embryological techniques.

1998 (April-September) Osaka University of Foreign Language.

Major achievement: Increased my proficiency in Japanese language.

**MPharm** (thesis, exam held in 1995)

1<sup>st</sup> class (positioned 3<sup>rd</sup>)

1991-1992 University of Dhaka, Dhaka, Bangladesh.

Dept. of Pharmacy, Faculty of Biological Sciences.

Thesis Title: Studies on a *Streptomyces* species.

Major Contribution: Three antibiotics effective against several gram-positive and gram-negative bacteria were isolated from a *Streptomyces* species.

Major achievement: Gained knowledge in Pharmaceutical sciences integrated with related subjects like chemistry, pharmacology, microbiology and physiology.

**BPharm** (exam held in 1993).

1<sup>st</sup> class (positioned 6<sup>th</sup>)

1988-1991 University of Dhaka, Dhaka, Bangladesh.

Dept. of Pharmacy, Faculty of Biological Sciences.

Major achievement: Gained knowledge in Pharmaceutical sciences integrated with related subjects like chemistry, pharmacology, microbiology and physiology.

**Pre-university education: SSC and HSC**

12 years of pre-university education in Bangladesh. Excellent results in both Secondary School (**positioned seventh in combined merit list**) and Higher Secondary (**positioned fifth in combined merit list**) Certificate examinations from Jhenidah Cadet College, Jhenidah, Bangladesh.

### **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 human 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.

**Software:** MS word, Gene works, Genetyx, Freehand, Photoshop, etc.

### **Major Foreign Languages**

English - excellent, all skills

Japanese - working level proficiency, all skills

### **Previous Appointments and Research Experience**

Feb 2015 to date, North South University (NSU), Bangladesh

**Professor and Chairman (from 2013)**

Department of Pharmaceutical Sciences

Plot # 15, Block # B, Bashundhara R/A  
Dhaka 1229, Bangladesh

July 18, 2016 to September 06, 2016, North South University (NSU), Bangladesh  
**Acting Dean**

School of Health and Life Sciences  
Plot # 15, Block # B, Bashundhara R/A  
Dhaka 1229, Bangladesh

Dec 2011 to Feb 2015, North South University (NSU), Bangladesh  
**Associate Professor and Chairman (from 2013)**

Department of Pharmacy  
Plot # 15, Block # B, Bashundhara R/A  
Dhaka 1229, Bangladesh

June 2010 to Dec 2011, North South University (NSU), Bangladesh  
**Assistant Professor**

Department of Pharmacy  
Plot # 15, Block # B, Bashundhara R/A  
Dhaka 1229, Bangladesh

Feb 2009 to June 2010, Singapore Eye Research Institute, **Singapore**  
**Research Scientist**

11 Third Hospital Avenue, SNEC Building  
Singapore 168751

**Research Brief:** Our aim was to find an alternative source of stem cell for transplantation in ocular surface to regenerate damaged cornea in certain disease conditions in human. In the project, I played the key role in designing and executing experiments, data analysis, manuscript writing etc. We started this work by characterizing a new cell-type from human umbilical cord tissue, which we termed mucin-expressing cord lining epithelial cell (CLEC-muc). Later, we succeeded to generate stratified cell sheets on denuded HAM and, these were

grafted onto rabbit eyes which successfully reconstructed the damaged cornea in LSC-deficient rabbits. Our results have been published in 'Stem Cell Reviews and Reports'. I also worked on investigating the roles of cord blood serum and human adult serum in supporting the growth and proliferation of conjunctival and limbal epithelial cells in comparison with fetal bovine serum which has been published in IOVS.

Jul '08 to Jan '09, Singapore Eye Research Institute (SERI), **Singapore**

**Research Fellow**

11 Third Hospital Avenue, SNEC Building  
Singapore 168751

**Research brief:** I worked on characterization of a novel stem cell population from human umbilical cord tissue, which we termed mucin-expressing cord lining epithelial cell (CLEC-muc).

Jan '07 to Jul '08, North South University (NSU), Bangladesh

**Assistant Professor**

Department of Pharmacy  
Dhaka 1213, Bangladesh

Apr '04 to Dec '06, Nara Institute of Science & Technology, **Japan**

**Assistant Professor**

Laboratory of Molecular and Developmental Biology,  
Dept. of Molecular Biology,  
Graduate School of Biological Sciences.

**Research brief:** My work aimed to determine the role of several key transcription factors in eye development using chick as the model organism. Mainly my research includes the functional analysis of *Pax6* and *maf* family genes during lens and retina development to understand vertebrate eye morphogenesis. Micro-electroporation is comparatively a new tool, which is used to introduce genes in the chick embryo in ovo in order to define functional role of any particular gene in

vivo. Using this technique with others, I proposed a genetic cascade in vertebrate lens induction program. Experimental outcome demonstrates the regulation mechanism of *delta-crystallin* gene by the transcription factors in lens cells. I have also been looking for determining the functional link between transcription factors and signaling molecules, both are indispensable for eye formation. Categorically, I have been 1) studying the interactions among the transcription factors and signaling molecules during lens induction and further differentiation, 2) working on different members of Maf family transcription factors to establish their hierarchical position and precise role in lens development, and 3) examining the expression of a new family of BMP antagonist, HtrA in lens and retina to understand their functions in chick eye morphogenesis.

Nov '02 – Mar '04, Nara Institute of Science & Technology, Japan

**Post-Doctoral Research Fellow (COE)**

Laboratory of Molecular and Developmental Biology,

Dept. of Molecular Biology,

Graduate School of Biological Sciences.

**Research brief:** Extensive work was done to understand the in-vivo regulation of *crystallin* genes during lens formation. I also worked to determine the neural retina Pax6 activity in lens fiber differentiation. I found that Pax6 function in optic vesicle is indispensable for optic cup formation and Pax6 positively regulates the expression of FGF8, a diffusible factor, which presumably acts to maintain L-Maf in differentiating lens during development.

Jul '02 – Oct '02, Nara Institute of Science & Technology, Japan

**Post-Doctoral Research Fellow (NAIST Foundation)**

Laboratory of Molecular and Developmental Biology,

Dept. of Molecular Biology,

Graduate School of Biological Sciences.

**Research brief:** I worked to establish the gene cascade in chick lens development. Mainly I focused to identify the initial factors that play major roles in induction and

differentiation of lens. I found that Pax6 and Sox2 simultaneously activate the principal differentiation factor, L-Maf in presumptive lens ectoderm upon the receipt of the inductive signal from the optic vesicle. Later, L-Maf transactivates *crystallin* genes, and Sox2 plays a synergistic role with L-Maf in the process.

Oct'97 – Mar'98, University of Khulna, Khulna

**Lecturer** in the Discipline of Pharmacy.

I was in charge of teaching a course of physical pharmacy at undergraduate level.

Jun '96 – Sept '97, Beximco Pharmaceuticals Ltd., Dhaka, Bangladesh.

**Product Officer** in the Central Product Management Department

### **Professional Memberships**

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

### **Publications**

- (1) Anayt Ulla, Md Ashraful 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).
- (2) Anayt Ulla, Mustafe Khalid Mohamed, Biswajit Sikder, AFM Towheedur Rahman, Farzana Akther Sumi, Murad Hossain, **Hasan Mahmud Reza**, G.

- M. Sayedur Rahman, Md Ashraful 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.
- (3) Mohammad Nazmul Alam , Md. Murad Hossain , Md. Mizanur Rahman, Nusrat Subhan, Md. Abdullah Al Mamun , Anayt Ulla, **Hasan Mahmud Reza**, Md. Ashraful Alam. Astaxanthin prevented oxidative stress in heart and kidneys of isoproterenol-administered aged rats. *J Diet Suppl.* 2017 May 10:1-13. doi: 10.1080/19390211.2017.1321078.
  - (4) Marina mostafizar, Prithapuloma 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.
  - (5) A. Zinchenko, M.M. Al-Amin, M.M. Alam, W. Mahmud, N. Kabirc, **H.M. Reza**, T.H.J. Burne. Content specificity of attentional bias to threat in post-traumatic stress disorder. *Journal of Anxiety Disorders*, 50; 33–39, 2017.
  - (6) Md Mizanur Rahman, Awale Yousuf Muse, D.M. Isha Olive Khan, Ismaile Hussein Ahmed, Nusrat Subhan, **Hasan Mahmud Reza**, Md Ashraful 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.
  - (7) Saleh R, Zahid ZI, Rahman MA, Jain P, Alam A, Kawaichi M, **Reza HM**. (2016). Prevalence of PPAR- $\gamma$ 2 (rs1801282), RETN (rs3745367) and ADIPOQ (rs2241766) SNP markers in the Bangladeshi type 2 diabetic population. *Meta Gene* 10: 100-107, 2016.
  - (8) Subash Pandaya, Razwa Saleh, Md. Ashraful 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.
  - (9) Syed Yeasin Arafat, Mohammad Nayeem, Sharfiat Jahan, Zarifa Karim, **Hasan Mahmud Reza**, Md Hemayet Hossain, Mohammad Shohel, Md



- Ashraful 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* (Accepted, 2016).
- (10) Anayt Ulla, Md Tariqur Rahman, Zaki Farhad Habib, Md. Moshfequr Rahman, Nusrat Subhan, Biswajit Sikder, **Hasan Mahmud Reza**, Md Hemayet Hossain, Md Ashraful Alam. Mango peel powder supplementation prevents oxidative stress, inflammation and fibrosis in carbon tetrachloride induced hepatic dysfunction in rats, *Journal of Food Biochemistry* (Accepted).
  - (11) Md Abu Taher Sagor, **Hasan Mahmud Reza**, Nabila Tabassum, Biswajit Sikder, Anayt Ulla, Nusrat Subhan, Md Hemayet Hossain and Md Ashraful Alam. Supplementation of rosemary (*Rosmarinus officinalis*) prevents oxidative stress, inflammation, fibrosis, & iron overload on CCl<sub>4</sub> treated rat's model, *Current Nutrition and Food Science*, Vol 12; DOI 10.2174/1573401312666160816154610, 2016.
  - (12) 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.
  - (13) 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. *J Hep.* 2016, 2:2: 13.
  - (14) 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.
  - (15) 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.

- (16) 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.
- (17) 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.
- (18) **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.
- (19) **Hasan Mahmud Reza**, Md Abu Taher Sagor, Md Ashraful Alam (2015) Iron deposition causes oxidative stress, inflammation and fibrosis in carbon tetrachloride (CCl<sub>4</sub>) induced liver dysfunction in rats. *Bangladesh Journal of Pharmacology*, 10: 152-59.
- (20) **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 (CCl<sub>4</sub>) treated rats. *Toxicol Mech Methods*. 2016 Jan;26(1):46-53.
- (21) 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.
- (22) 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.
- (23) 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.

- (24) 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. *American Journal of Pharmacology and toxicology*. 2015 Vol : 9, Issue : 4 Pages : 223-231.
- (25) **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.
- (26) Saffoon N, Uddin R, Subhan N, Hossain H, **Reza H M**, Alam M A. *In vitro* Anti-oxidant 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.
- (27) 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
- (28) 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.
- (29) 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)
- (30) 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.
- (31) Al-Amin MM, **Reza HM**. Neuroinflammation: Contemporary anti-inflammatory treatment approaches. *Neurosciences*. 19(2):87-92. 2014.
- (32) 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.

- (33) 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.
- (34) 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.
- (35) 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.
- (36) 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.
- (37) 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.
- (38) **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.
- (39) **Hasan Mahmud Reza**, Layla Zaman, Tahmina Yasmin, Adit Mukhtadir 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.
- (40) 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.
- (41) 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.

- (42) **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.
- (43) 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.
- (44) **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.
- (45) **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.
- (46) 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.
- (47) 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.
- (48) **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.
- (49) **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.
- (50) **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.
- (51) **Hasan Mahmud Reza** and Kunio Yasuda. Impact of Biotechnology on Pharmacy and a related talk. *International Journal of Development Studies*. 2005; 1: 60-77.

- (52) **Hasan Mahmud Reza** and Kunio Yasuda. Gene Therapy: An emerging approach in treatment. *Journal of Science and Engineering*. 2005; 2: 1-9.
- (53) **Hasan Mahmud Reza** and Kunio Yasuda. The involvement of neural retina Pax6 in lens fiber differentiation. *Dev. Neurosci*. 2004; 26: 318-327.
- (54) **Hasan Mahmud Reza** and Kunio Yasuda. Lens differentiation and crystallin regulation: a chick model. *Int J Dev Biol*. 2004; 48(8-9): 805-17.
- (55) **Hasan Mahmud Reza** and Kunio Yasuda. Roles of Maf family proteins in lens development. *Dev Dyn*. 2004 Mar; 229(3): 440-8.
- (56) Naoko Shimada, Tomoko Aya-Murata, **Hasan Mahmud Reza** and Kunio Yasuda. Cooperative action between L-Maf and Sox2 on  $\delta$ -crystallin gene expression during chick lens development. *Mech. Dev*. 2003; 120: 55-65.
- (57) **Hasan Mahmud Reza**. Inhalation therapy: The targeted treatment for asthma management. *Bangladesh Pharmaceutical Journal* 2002; 12(3): 1-4.
- (58) **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.
- (59) 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.
- (60) **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.

#### **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.

#### **Book Chapters**

- (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)**

1. **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).
2. **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).
3. **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.
4. **Hasan Mahmud Reza** and Razwa Saleh, ‘Umbilical cord lining stem cells: A promise in regenerative medicine’ in *International Conference on Genomics, Nanotech and Bioengineering-2017 (ICGNB-2017)*. Dhaka Bangladesh.

### **Conference Proceedings**

1. 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.

2. 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.
3. Najeeba Nawar, Humaira Binte Noor, Tanima 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)
4. Rafidul Haq, Khadiza Binte Faruque, Md. Mosharaf Hossain, Anika Tabassum<sup>1</sup>, 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.
5. 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.
6. Shazid Md. Sharker and **Hasan Mahmud Reza**. Synthesis of magneto fluorescent nanodots towards target drug delivery. *ICGNB-2017*, Dhaka.
7. 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.
8. 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.
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10. Tahsin Jahan, Khondoker Ayesha Akther, FarihaMamun, Md.MizanurRahman, Md Ashraful Alam and **Hasan Mahmud Reza**. Effect of lotkon peel powder supplementation prevents hepatic damagein carbon tetrachloride (ccl<sub>4</sub>) induced in ovariectomized rats. *ICGNB-2017*, Dhaka.
  11. Mithun Saha<sup>1</sup>, 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.
  12. Sanjana Binte Mahbub, Pierce Ritchil, Md. Ashraful Alam, **Hasan Mahmud Reza** and Murad Hossain. Effect of astaxanthin on chronic restrain stress induced depressive mice. *ICGNB-2017*, Dhaka.
  13. Kulsum Sultana, Umme Safa Mohsina, Papia Saha, **Hasan Mahmud Reza** and Murad Hossain. Effect of rice bran oil on chronic restrain stress induced depressive mice. *ICGNB-2017*, Dhaka.
  14. 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.
  15. Md Faruk, Md. Mizanur Rahman, Md Abdullah Al Mamun, Nusrat Subhan, **Hasan Mahmud Reza** and Md Ashraful Alam. Ayurvedic formula triphola 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.
  16. D M Isha Olive Khan<sup>\*</sup>, Kazi Nafis Ullah, M D 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.

17. 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.
18. 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.
19. 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.
20. 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)
21. Md. Fahim Akhter, G. M. Sayedur Rahman, **Hasan Mahmud Reza**. 3D structure determination of the nox-1 and nox-3 enzyme (nadph oxidases) as targets for the future development of new anti-atherosclerotic drugs. *ICGNB-2017*, Dhaka.
22. Nabila Tazneen, G. M. Sayedur Rahman and **Hasan Mahmud Reza**. In-silico inhibitor designing against gsk3a protein: a new approach in alzheimer dieases management. *ICGNB-2017*, Dhaka.
23. 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 (*hvp16ref*) as receptor for the development of new subtype specific anti-papilloma drugs. *ICGNB-2017*, Dhaka. (Awarded Best poster)

24. Momin Ul Hoque<sup>1</sup>, 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.

31. 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.
32. 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.
33. Razwa Saleh, Preeti Jain, Md. Ashraful Alam, **Hasan Mahmud Reza**. Prevalence of PPAR- $\gamma$ 2 (RS1801282), RETN (RS3745367) and ADIPOQ (RS2241766) SNP markers in the Bangladeshi diabetic population. Poster presented (Razwa Saleh) in *5<sup>th</sup> Biennial Conference of DASG (Diabetes in Asia Study Group)*, Dhaka, 2016.
34. 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)
35. 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.
36. 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.

37. **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.
38. 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. 1st International Symposium on Pharmaceutical Sciences: A global approach, Chittagong, Bangladesh.
39. 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.
40. 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.
41. 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.
42. 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.
43. **Hasan Mahmud Reza** and Kunio Yasuda, 'Sequential and combinatorial roles of *maf* family genes define proper lens development' in the proceedings of the 65<sup>th</sup> Annual Meeting of the Society for Developmental Biology, 2006,

Michigan, USA.

44. **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 39<sup>th</sup> Annual Meeting of the Japanese Society of Developmental Biologists, 2006, pp 117 (abstract). Hiroshima, Japan. (oral)
45. **Hasan Mahmud Reza** and Kunio Yasuda, 'Pax6 activity and the expression of FGF8 and BMP4 in neural retina during chick eye development' *In 15<sup>th</sup> International Society of Developmental Biologists Congress*, Australia 2005. Abstract published in *Mech Dev* vol. 122 (suppl. 1), p92.
46. **Hasan Mahmud Reza** and Kunio Yasuda, 'Functional comparison of Maf genes in lens development by in ovo electroporation'. *In 2<sup>nd</sup> SERI-ARVO Meeting on Research in Vision and Ophthalmology*, Singapore 2005. (both oral and poster).
47. **Hasan Mahmud Reza** and Kunio Yasuda, 'The involvement of neural retina Pax6 in lens fiber differentiation'. *In 44<sup>th</sup> Annual Meeting of the American society for Cell Biology*, Washington, DC, USA 2004. Abstract published in *Mol. Biol. Cell* vol. 15 (suppl.), p217.
48. **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 2<sup>nd</sup> NAIST Bio-COE international symposium on Molecular network in cellular signal transduction and environment responses*. Nara, Japan 2004. (both oral & poster).
49. **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).
50. **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).
51. **Hasan Mahmud Reza** and Kunio Yasuda, 'Pax6 expressed in neural retina plays role in lens fiber differentiation via maintaining L-Maf expression'. *In the*

- 25<sup>th</sup> Annual Meeting of the Molecular Biology Society of Japan 2002, pp. 620 (abstract) Yokohama, Japan.
52. **Hasan Mahmud Reza**, Hajime Ogino and Kunio Yasuda, 'Involvement of Pax6 in eye morphogenesis'. In 14<sup>th</sup> International Congress of Developmental Biology (ICDB) 2001, Kyoto, Japan, abstract published in *Dev. Growth Diff.* Vol. 43, Supplement , S9-p61.
53. **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.
54. **Hasan Mahmud Reza**, Hajime Ogino and Kunio Yasuda, 'Induction of lens differentiation factors L-Maf and Prox1 requires Pax6 function' in *the 23<sup>rd</sup> Meeting of Molecular Biology Society of Japan (MBSJ)* 2000, pp. 23-24 (abstract). Kobe, Japan.
55. Hajime Ogino, **Hasan Mahmud Reza** and Kunio Yasuda, in *the 14<sup>th</sup> International Congress of Eye Research (ICER)* 2000, Santa Fe, New Mexico, USA, abstract published in *Exp. Eye Res.* Vol. 71, Suppl. 1, S.190.

### **Awards and Honors**

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

### **Session Chair of International Conference:**

**Chair:** *In the 12th International Congress on AIDS in Asia and the Pacific (ICAAP 12), Dhaka, 2016.*

**Chair:** *1st International Conference on Scientific Research and Practice (icSRP)-2017 organized by GCSTMR, Dhaka. 2017.*

### **Research Grants Awarded**

1. 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).
2. 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.
3. 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.
4. 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.

### **Special Mention**

1. Editorial Board Member, Asian Journal of Applied Sciences & Engineering
2. Convener/Member of MPhil/PhD examination committee, Nutrition Institute, University of Dhaka.
3. Member of MPhil/PhD examination committee, Jahangirnagar University, Savar, Dhaka.
4. Member of MPhil/PhD examination committee, Khulna University, Khulna.
5. Reviewers of many International Journals like BMC Neuroscience, IOVS, Developmental Dynamics, Journal of Neurochemistry, Biomedicine and Pharmacotherapy, Molecular Vision, Journal of Ethnopharmacology, Metagene, etc.



### **Other Publications (Community Awareness)**

#### ***In Daily Newspaper***

1. **Dr. Hasan Mahmud Reza.** Biotechnology influencing pharmacy: a perspective. The Daily Star, July 21, 2007.
2. **Dr. Hasan Mahmud Reza.** Gene And Stem Cell Therapies: New frontiers in ophthalmic medicine. The Daily Star, Jan 21, 2012.
3. **Dr. Hasan Mahmud Reza.** Bangladesher Oshudh Shilpa O Prashongik Bhavna. Daily Kaler Kantho, Nov 9, 2012
4. **Dr. Hasan Mahmud Reza.** Ucchoshikkha prosare durokom varsitir bhumika, Daily Kaler Kantho, March 15, 2013
5. **Dr. Hasan Mahmud Reza.** Bishwabiddhalaygulor halchal, Daily Samokal, September 10, 2013.
6. **Dr. Hasan Mahmud Reza.** Overall salary scenario for pharmacists in the country is not encouraging- an interview with *Scientific Bangladesh*. <http://www.scientificbangladesh.com/en/interviews>.
7. **Dr. Hasan Mahmud Reza.** Interview with *Daily Jugantor*, Jan28, 2016
8. **Dr. Hasan Mahmud Reza.** Private sector's role in pharmacy education and profession. *The Daily Independent*, Jan 15, 2016.
9. **Dr. Hasan Mahmud Reza.** A paradigm shift of pharmacy curriculum aiming public health improvement initiated by private sector. *The News Today*, June 09, 2017.
10. **Dr. Hasan Mahmud Reza.** Interview with Ekushey-tv online. *Medhabi tarunner pochondo pharmacy*, July 23, 2017.

#### ***In Pharma Magazine***

1. **Hasan Mahmud Reza.** Pharmacy education and profession in US and Bangladesh a crosstalk between BPharm and PharmD *Medipharma* Jan-Feb, 2014; 48-50.
2. **Hasan Mahmud Reza.** New frontiers in ophthalmic medicine: gene and stem cell therapies. *The Pharma World*, 2011 Aug-Sept 69-71.
3. **Hasan Mahmud Reza.** Recent bird flu occurrence in Bangladesh; Situation

should be strictly controlled to avoid Influenza Pandemic: a time to increase public awareness. *The Pharma World*, 2007 May-June 24-25.

4. **Hasan Mahmud Reza.** Part I: Biotechnology Influencing Pharmacy: a Perspective part I. *Pharma See*, 2007; 3:13-16.

5. **Hasan Mahmud Reza.** Part II: Biotechnology Influencing Pharmacy: a Perspective part I. *Pharma See*, 2007; 4:18-20.

### **TV Talk show**

Attended as speaker in many TV Talk shows to deliver expert opinion.

### **REFEREES**

1. Assoc Professor Phan Toan-Thang

Lab. of Gene Expression, Nara Institute of Science and Technology, Japan.

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

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