

**Curriculum Vitae
Of
MN Islam, PhD**



Present status:

Associate Professor
Department of Pharmaceutical Sciences
North south University, Bashundhara, Dhaka-1229
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Research and Teaching Experience: 20 Years

Associate Professor- Jan, 2016 to till date
Assistant Professor- May, 2012 to December-2015
Lecturer- Jan 2007 to April 2012

North South University (NSU)

Department of Pharmaceutical Sciences, Dhaka, Bangladesh
(January 2007 to till date)

Assistant Professor

Head of the Department
Department of Pharmacy
Southern University (SU)
Chittagong, Bangladesh
(May, 2005 to December, 2006)

Lecturer- May, 2002-February, 2005

Department of Pharmacy
University of Science & Technology Chittagong (USTC)
Foyes Lake, Chittagong

Academic Affiliation:

1. Puntland State University, Department of Pharmacy, Somalia; Honorary Advisor and Help guided in establishment of the Pharmacy Department
2. USTC, Pharmacy Department- External and Question setter; Thesis Evaluator
3. Jahangir Nagar University, Department of Pharmacy; Graduate Thesis Evaluator & Exam question Setter
4. Gono Bishyabidyal, Department of Pharmacy- Question Setter

Research Collaboration:

1. Clinical Research Project
Department of Pharmacology
Uttara Adhunik Medical College & Hospital, Dhaka
2. Department of Pharmacy, Jahangir Nagar University, Bangladesh

Areas of Expertise:

1. Basic research of Hepatology and Liver damage
2. Histamine receptor signaling research.
3. Bio-assay Guided lead Isolation & Characterization.
4. Protozoal Transplasmamembrane Electron transport system Characterization.

Present Research Focus:

- a) Investigation of idiopathic hepatotoxicity and its underlying causes and prevention
- b) Investigation of underlying causes of Parkinsonism and its management approaches.

Technical Know-how:

- a. I am capable to perform biological study based on Cell line and Animal Models.
- b. Expert in handling of laboratory Animals such as rat, mice, gerbils, rabbits.
- c. Thermo-cycler, RT-PCR, Tissue staining and Gel electrophoresis of DNA and Protein
- d. HPLC, LCMS, UV-Visible Spectroscopy, Mass spectroscopy,
- e. We acquainted with Tissue cultural technique and handling of HeLa, RBL and Ascetic breast cancer cell line.
- f. In vivo & In vitro experiment using rat & mouse model.

Present Research activities:

1. Hepatotoxicity and its underlying mechanism by hydrazine moiety containing drugs and therapeutics. Special focus of this study also covers anti-tubercular drugs rational uses and hepatotoxicity induced by them.
2. Screening the traditional plants for their potential anti-allergic properties, elucidating their possible mechanism of action. Based on effect on level of expression of TNF and

Eosinophil accumulation we are trying to locate the signaling compounds.

List of Publications:

Published Articles:

Kashfia Nawrin¹ , Mohammad Mustakim Billah¹ , Fairuza Ahmed , Arif Hossin³, Razwanur Rahman Tushar¹ and **MN Islam***; **Protective potential of *C. sinensis* fruit peel** aqueous extract on *in vitro* inflammation; Pharmacotherapy and Pharmascience Discovery 2021 1(1) 10-18 (<http://dx.doi.org/10.13140/RG.2.2.25825.02408/1>)

Mohammad Mustakim Billah¹ , Kashfia Nawrin¹ , Md. Abu Rayhan² , Fairuza Ahmed, Arif Hossin⁴ and **MN Islam***; Honeys from diverse geographical sources supplement the action of penicillin and amoxiclav - a comparative antibacterial study; Pharmacotherapy & Pharmascience Discovery 2021 1(1) 19-28 (<http://dx.doi.org/10.13140/RG.2.2.36256.71682>)

Mohammad Mustakim Billah¹ , Kashfia Nawrin¹ , Mohammed Sahek Ullah Jabed² Arif Hossin³ and **MN Islam***; Antitussive and expectorant activities of formulated leaf-root extract mixtures of *Ocimum sanctum* and their conjugation with standards; Pharmacotherapy and Pharmascience Discovery 2021 1(2) 65-73 (<http://dx.doi.org/10.13140/RG.2.2.18341.83684>)

Hashim Reza, **MN Islam***; Glycyrrhiza glabra Modulate the Anti-tuberculin Drugs Induced Hepatotoxicity; Exacerbates Isoniazid Induced Hepatotoxicity: Journal of gastroenterology and hepatology; submitted; June; 2021

Nitol Debnath, Farzana Binte Rafique, Nasrin Akhter, Anayt Ulla, Tahmina Yesmin*, Md Nurul Islam and Md Ashraful Alam* Supplementation of *Psidium guajava* Leaves Powder Prevents Hepatotoxicity and Inflammation in Carbon Tetrachloride (CCl₄) Administered Rats; Year 2020: ISSN: 1875-6646 (Online) ISSN: 1573-4072.

Emranul Haque Masum, Hashim Mushtasin Reza, Mohammad Jobaer, Razia Sultana, Md Rafin Hossain, Shamim Hossen, Md Ashraful Ala and **MN Islam*** Anti-Inflammatory, and Anti-Nociceptive Properties of Leaf

and Root Extracts of *Amaranthus spinosus*; EC PHARMACOLOGY AND TOXICOLOGY; 8.6(2020): 44-51.

Afrin Jahan; Abdulla Al Mamun; Fariha Akhter Chowdhury ; R M Shariar Kabir; Rajib Bhattacharjee; M. Mosaddek; **Mohammad Nurul Islam***; Co-existence of Arthritis in Type 2 Diabetic Patients alter the liver enzyme and lipid biomarkers. Diabetic & endocrinology; December 05-07, 2016 Dallas, USA.

Fariha Akhter Chowdhury; Rajib Bhattacharjee; Sabrina Mahboob; Anamika Sah; Afrin Jahan; **Mohammad Nurul Islam***: Oxidative Stress alters the Level of Glutathione Reductase Activity of *E. coli* Clinical Isolates from Urine Samples of Patients with Urinary Tract Infection. J Immunol Cliniac Microbiol. 2017

Nawrin K, Billah, M, Jabed S, Ibrahim Kahlil, Main Uddin M, **MN Islam***, Suppression of inflammatory mediator by ethanol extract of *Crotalaria verrucosa* leaf. European journal of medicinal plants. 11(3): 2016, 1-7, EJMP.21894.

Billah M, Nawrin K, **MN Islam***, Evaluation of analgesic and neuropharmacological activity of *E. hirta* leaf. British journal of pharmaceutical research (Accepted for the next Issue).

F. Chowdhury, **MN Islam**, M. Shohel, Easin Uddin Syed and Rajib Bhattacharjee*. Purification, Extraction and Visualization of Lipopolysaccharide of *Escherichia coli* from Urine Samples of Urinary Tract Infection Patients. Avicenna J of Clin Microb Infec, 2(3), Nov, 2015, Doi: 10.17795/ajcmi-31990.

Rehana Hossain. **Mohammed Nurul Islam**, Md. Moniruzzaman, Ummul Khair. Phytochemical screening and evaluation of anti-inflammatory activity of *Jasminum sambac* flower. Internatinal Journal of Innivative Pharmaceutical Sciences and Research. 3 (1) 2014, 1-14

Md. Mamun Al-Amin, Hasan Mahmud Reza, **Mohammad Nurul Islam**, Mir Muhammad Nasir Uddin, Shahabuddin Kabir Choudhuri, studies of lipid profile, liver and kidney function parameters of female rat plasma after the administration of "khadiraristha" Turkish Journal of Pharmaceutical Science. 11 (2), 2014, 145-152.

M N Islam, H. Mizuguchi, M. Shahriar, P. Venkatesh, K Maeyama, P.K. Mukherjee, M. Hattori, MSK Choudhuri, N. Takeda, H. Fukui. *Albizia lebbeck* suppresses histamine signaling by the inhibition of H1

receptor and histidine gene transcription. *Inter. Immunopharmacol*, 11(2011) 1766-1772.

P.Venkatesh, PK. Mukherjee, NS. Kumer, A. Bandyopadhyay, H. Mizuguchi, **MN.Islam**; Anti-allergic activity of standardized extract of *Albizia lebbek* with reference to catechin as phytomarker. *Immunopharmacol. and Toxicol.* 32(2) 2010, 272-276.

Lipi Sarkar, N. Bhuvanewari, S K Samanta, **M.N.Islam**. T. Sen, H Fukui, H. Mizuguchi, S. Karmakar. A report on anti-oedemogenic activity of *Byttneria herbacea* roots-Possible involvement of histamine receptor (type 1). *J Ethnopharmacol.* 140 (2012) 443-446.

T. Bera, K. Lakshman, D. Ghanteswari, S. Pal, D. Sudhahar, **M N Islam**. N R Bhuyan, P. Das, Characterization of the redox component of transplasma membrane electron transport system from *Leishmania donovani* promastigotes. *Biochimica Biophysica Acta* 1725 (2005) 314-326.

N.R. Bhuyan, **M.N.Islam**, H.M Reza, J.P Mohanthy, B. P Saha and T. Bera. An evidence of reduction of the NQSA and DTNS by *Leishmania donovani* Promastigotes. *Int.J.Pharmacol.Sci.* 3 (2009) 71-79.

Scientific Abstract Published

R. battacharjee, S. Zaman, L. Akther, **MN Islam*** Study of the anti-inflammatory activity of *Curcuma zedoaria*. 1st International congress of society for Ethnopharmacology. Globalizing traditional medicine: present and future prospect. 7-9 March, 2014.

S.M. Khanam, K.K. Nandy, S.S. Chowdhury, M.H. Shaon, S.A. Haque, **M.N. Islam** and J.M.A. Hannan, Effects of *Dillenia indica* on carbohydrate digestion and absorption, hepatic glycogen and serum lipids in Type 2 diabetic rats, 9th Diabetologist conference, 6-8th June, Dallas, USA.

S.M.N. Haque, K.K. Nandy, S.A. Haque, S. M. Khanam, Z. Chowdhury, **M.N. Islam** and J.M.A. Hannan: Hypoglycemic and hypolipidaemic potential of *Ficus bengalensis* bark extract in streptozotocin induced diabetic rats, 9th Diabetologist Conference, 6-8th June, Dallas, USA.

List of Articles submitted for publication:

MN Islam*, Kashfia Nawrin, Mohammad Mustakim Billah, Rajib Bhattacharjee, Md. Azharul Islam Bhuiyan, Mohammed Sahek Ullah Jabed. Anxiolytic and Antidepressant Effects of Hydroalcoholic Extract of *Annonasquamosa* (Linn) Leaf: Its Possible Effects on GABAergic and Serotonergic Neurotransmission. BMC complementary and alternative medicine (submitted for the next issue).

MN Islam, Abeer Sarwar, Rajib Battacharjee*. Comparative Emetogenicity study of cisplatin alone and in combination regimen on cancer patients of Bangladesh. Journal of Pharmaceutical Policy and Practice (submitted for the next issue).

Nadia Sultana , MN Islam¹, M. Shohel, Easin Uddin Syed and Rajib Bhattacharjee. Evaluation of Prescribing Patterns and Potentially Inappropriate Medications use in Elderly Hospitalized Patients of Bangladesh using Beers Criteria. Biomedical Pharmaceutical research (May be in the next Issue).

MN Islam, Mustakim Billah, Kashfia Nawrin, Rajib Bhattacharjee, Md. Azharul Islam Bhuiyan, Rajib Bhattacharjee. Participation of H1 receptor and Histamine in different inflammatory process. Journal of Inflammation (submitted for the next Issue)

Poster Presentation:

- i. 6th International Conference on Diabetes and Endocrinology 2016, 05-7th December 2016, Dallas, USA, Video presentation.
- ii. 9th Diabetologists Conferences, 6-8th June, 2016, Prevention and Management of Diabetes through advanced Technology, Dallas, USA.
- iii. 1st Conference of Society of Ethnopharmacology, Chennai, Porur, India. (Study on the Anti-Inflammatory Activity *in vivo* of the Natural Products).
- iv. The 20th Japanese symposium on medical and fine Chemistry (FJS-2009) 9th May 2009, Kyoto Garden Place, Kyoto Japan.

- v. The 12th congress of the International Society for Ethnopharmacology, 17-19th Feb 2012. Kolkata, India. (Albizia lebbeck alleviated allergy symptoms by inhibiting histamine signaling at the transcription level).
- vi. R. Battacharjee. S. Zaman, L. Akther, MN Islam* Study of the anti-inflammatory activity of Curcuma zedoaria. Globalization traditional Medicine.

Research Activities & Institutional affiliation

Research Fellow:

Japanese Government Scholarship for Doctorate of Philosophy (PhD)
Monbukagakshu Scholarship.

Research co-coordinator (2004 to 2008)

Screening the effect of Ayurvedic preparations in ascetic (breast carcinoma) cell line,
Department of Pharmacy, Division of Pharmacology
Jahangir Nagar University

Junior Scientist

Screening the oxido-reductase components of *Leshmania donovani* promastigotes: designing of better anti-Leshimaniac lead compounds.
Division of Medicinal Bio-chemistry
Jadavpur University, Kolkatta, India

Fellowship & Awards:

1. Monbukagasho Scholarship of Japanese Government
2. Indian Council of Medical Research (ICMR)
3. The best student Award (1991) from Polli Unnayon Sangasad, Kutubpur, Narayangonj

Professional Memberships:

1. Japanese Society for Immunology
2. Member, Malaysian Society of Allergy and immunology
3. Registered "A" Pharmacist, Bangladesh Pharmacy Council

4. Registered " A" Pharmacist, Tamil Nadu Pharmacy Council, India

Job Responsibilities:

1. Conducting regular theory and Practical classes for undergraduate and graduate students.
2. Supervising research activities for undergraduate and graduate students and help guiding them to write up and evaluation of their thesis papers.
3. Serving as active member of committee such as
 - a. Examination Committee
 - b. Animal Ethics Committee
 - c. Curriculum Development Committee
 - d. Research and Development committee

Social Affiliation & Activities:

1. Panel Expert of Professional Intern Recruitment Committee; Renata Pharmaceutical Limited
2. Member of Educational development Committee, A-Z High School, Bhuyghor, Narayangonj
3. Expert Panel Member of Teacher Recruitment Committee, Origin School, Bhuyghor, Narayangonj
4. Secretary of Management Committee, Abedia Madrasah, Nandalalpur, Kutubpur, Narayangonj.

Educational Qualification:

Doctorate of Philosophy (PhD)

Field of work: Molecular Pharmacology

Subject of study:

Molecular mechanism of histamine H1 receptor gene expression, Searching natural sources for anti-allergic compounds that suppress the expression of allergy related genes. (**Histamine H1 receptor, gene expression, allergy, histamine signaling**)

Tokushima University,
3-18, Kuramoto-cho
Tokushima 770-8503, Japan

Masters of Pharmacy (M. Pharm)**Field of study:** Medicinal Bio-chemistry**Subject of study:**

Characterization of the redox components of transplasma membrane electron transport system from *Leishmania donovani promastigotes* & Anti-leishmanial drug designing.

Jadavpur University
KolKatta, India

Bachelor of Pharmacy (B.Pharm)**Filed of study: Pharmaceutical Sciences**

Sri Ramachandra Medical college & Research Institute
Chennai-116, India

Higher Secondary Certificate (HSC)**Field of study: Sciences**

Government Tolaram College
Narayangonj, Bangladesh

School Secondary Certificate (SSC)**Field Of Study:** General sceineces

Delpara High School
Del para, Narayangonj, Bangladesh

Personal Information:

Gender : Male
Date of Birth : 6th June 1975
Place of birth : Narayangonj, Bangladesh
Nationality : Bangladesh

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References :

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ii. H. Mizuguchi, PhD

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