

# Résumé

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## **MIR MONIR HOSSAIN**

### **Graduate Student**

Department of Chemistry and Biochemistry

Kent State University, Kent-44240, Ohio, USA

**Present Address:** 1840 Rhodes RD, College Towers Apt, Apt# 467, Kent, Ohio, USA

**Permanent Address:** Village: Mir Ali Pur (Mir Bari), P. O.: Mir Ali Pur Bazar, P.S.: Begumganj, State: Noakhali-3824, Bangladesh

**E-mail:** mhossai6@kent.edu; monir.pharm@gmail.com

**Cell:** 330-934-4364

### **Research Interests**

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Nanoparticles drug design and discovery, Isolation of bioactive components, Neuroscience, Cellular and molecular biology, Organic chemistry, Synthetic chemistry, Bioorganic chemistry, Inorganic chemistry, Bioanalytical chemistry, Analytical chemistry, Genetics, Biochemistry, Biotechnology, etc.

### **Educational Qualification**

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#### **M.S. in Chemistry (In Progress)**

Institution : Kent State University, Kent, Ohio, USA

Year : 2019

Title of Thesis : “Synthesis, Characterization and Anticancer Activity of Copper and Gallium-Based Nanoparticles”

Supervisor : Dr Songping D. Huang

#### **Master of Pharmacy (Major: Pharmacy)**

Institution : University of Science & Technology Chittagong (USTC), Bangladesh

Year : 2006 (Examination held in 2008)

Title of Project : “A study of a new iron product as potential anticancer agent in mice model”

Supervisor : Professor M. Mohi Uddin Chowdhury

Result : **First Class, First Position (Marks obtained: 69.17%)**

**GPA: 4.00 (Out of 4.00), According to the evaluation by  
WES (World Education Services).**

**Bachelor of Pharmacy (Hons.) (Major: Pharmacy)**

Institution : University of Science & Technology Chittagong (USTC), Bangladesh

Year : 2004 (Examination held in 2005)

Title of Project : “*In vitro* studies on phytochemical and biological activities of the stem bark of *Michelia champaca*”

Supervisor : Dr. Kishor Mazumder

Result : **First Class, First Position (Marks obtained : 66.99%)**

**GPA: 3.81 (Out of 4.00), According to the evaluation by  
WES (World Education Services).**

**Academic Positions**

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**Chairman (C.C.):** Department of Pharmacy, Faculty of Basic Medical & Pharmaceutical Science, University of Science & Technology Chittagong (USTC), Bangladesh, from 18 April, 2016 to 16 August 2016.

**Assistant Professor :** Department of Pharmacy, Faculty of Basic Medical & Pharmaceutical Science, University of Science & Technology Chittagong (USTC), Bangladesh, from 1<sup>st</sup> March, 2011 to 16 August 2016.

**Lecturer :** Department of Pharmacy, Faculty of Basic Medical & Pharmaceutical Science, University of Science & Technology Chittagong (USTC), Bangladesh, from 1<sup>st</sup> January, 2008 to 28<sup>th</sup> February, 2011.

**Teaching Assistant :** Department of Pharmacy, Faculty of Basic Medical & Pharmaceutical Science, University of Science & Technology Chittagong (USTC), Bangladesh, from 3<sup>rd</sup> June, 2006 to 31<sup>st</sup> December, 2008.

**Non Academic Position**

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**Production Executive :** Square Pharmaceuticals Limited, Pabna Plant, Pabna, Bangladesh, from 10<sup>th</sup> February, 2006 to 2<sup>nd</sup> June, 2006. (Gained practical manufacturing knowledge on Tablets (compressed and film coated), Capsules, Injectables and Liquid dosage forms).

## **Teaching**

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1. Organic Pharmacy
2. Inorganic Pharmacy
3. Pharmaceutical Technology and Engineering
4. Advanced Pharmaceutical Technology
5. Biochemistry and Biotechnology
6. Clinical Pharmacy
7. Pharmacology and Toxicology

## **List of Some Recent Publications (Short Listed, out of 28 Papers)**

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1. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles. (Preparing manuscript to submit in *Nature Nanotechnology*)
2. R. T. Islam, **M. M. Hossain**, K. Mazumder, and A. H. Tipu, *In vitro* Phytochemical investigation of *Helianthus annuus* seeds, Bangladesh Pharmaceutical Journal, published in **2016**, Vol-19, No-1, PP. 100-105.
3. R. T. Islam, A. T. Islam, **M. M. Hossain**, and K. Mazumder, Central nervous system activity of the methanol extracts of *Helianthus annuus* seeds in mice model, International Current Pharmaceutical Journal, published in **2015**, Vol-5, No-1, December 2015, ISSN: 2224-9486, pp.1-4.
4. S. Biswas, **M. M. Hossain\***, S. M. Shoaib, and M. S. Hossain, *In vitro* bioavailability study of Repaglinide in presence of Pantoprazole, University of Science & Technology Annual (USTA 2014), published in **2015**, Vol-22, No-2, December 2014, ISSN:1728-0435, pp.1-10.
5. M. S. Hossain, **M. M. Hossain\***, S. Zaman, M. Mondal, and M. S. Rana, Phytochemical screening, antioxidant and antimicrobial activities of leaf extracts of *Randia uliginosa*, World Journal of Pharmaceutical Sciences (WJPS), December **2014**, ISSN (Print) : 2321-3310, ISSN (Online) : 2321-3086, Vol-2(12) :1687-1696.
6. **M. M. Hossain\***, and S. Mahmood, *In vitro* studies on antibacterial, thrombolytic and antioxidant activities of green tea or *Camellia sinensis*, American Journal of

Phytomedicine and Clinical Therapeutics (AJPCT), October **2014**, ISSN:2321-2748, Vol-2(10) :1200-1211.

7. M. R. H. Chowdhury, R. Saha, K. M. M. Islam, K. Fatema, F. Afrin, **M. M. Hossain**, and A. saha\*, Analgesic and Neuropharmacological effect on ethyl acetate extract of *Ipomoea pes-tigridis* in Albino Mice, European Scientific Journal, September **2014**, ISSN: 1857 – 7881 (Print), e - ISSN: 1857- 7431 , Vol-10 (27) :344-353.

8. **M. M. Hossain\***, and S. M. Shoaib, Role of Pharmaceutical sector in the national economy of Bangladesh, World Journal of Pharmacy and Pharmaceutical Sciences (WJPPS), February **2014**, ISSN: 2278-4357, Vol 3 (2): 951-960.

9. **M. M. Hossain\***, S. Kawsar, T. T. Tanmy, and A. Yousuf, Assessment of influencing factors on prescription practices of physicians in Bangladesh, International Research Journal of Pharmacy (Int. Res. J. Pharm.), September **2013**, ISSN:2230-8407, Vol 4(8): 112-116.

10. **M. M. Hossain\***, R. A. Khanom, S. Mahmood, T. T. Tanmy, and Yasmeen, *In vitro* studies on antioxidant activity of black tea or *Camellia sinensis*, Scholars Academic Journal of Biosciences (SAJB) (Sch. Acad. J. Biosci.), July **2013**, Vol 1(2): 50-54.

11. **M. M. Hossain\***, Dr. K. Mazumder, T. T. Tanmy, M. K. Hossain, Yasmeen, and S. Mahmood, Investigation of film coating potential of Okra gum by using Diclofenac tablets as model drug, International journal of inventions in pharmaceutical sciences (Int.J.Inv.Pharm.Sci.), **2013**, Vol 1(3): 250-255.

12. **M. M. Hossain\***, Dr. K. Mazumder, S. M. Shoaib, T. T. Tanmy, K. Das, and S. Mahmood, *In vitro* studies on antibacterial and antifungal activities of *Terminalia chebula*, PHARMANEST, May-June **2013**, Vol 4 (3): 298-304.

13. **M. M. Hossain\***, S. M. M. Hossen, M. S. Islam, T. T. Tanmy, A. Barua, and J. Alam, *In vitro* evaluation of antibacterial and antifungal properties of *Terminalia belerica*, International Journal of Pharmaceutical Sciences and Research (IJPSR), **2013**, Vol. 4(1): 260-264.

14. S. M. M. Hossen\*, M. S. Islam, **M. M. Hossain**, M. E. Hoque, and G. Akteruzzaman, Spectrophotometric Method for Determination of Dissolution Constant of weak acid like 2,4- Dinitrophenol in 1-Propanol-Water Mixtures at  $24.5 \pm 0.5^{\circ}\text{C}$ , Der Pharma Chemica, **2012**, 4(4):1375-1384.

15. **M. M. Hossain\***, K. Mazumder, S. M. M. Hossen, T. T. Tanmy, and M. J. Rashid, *In vitro* Studies on antibacterial and antifungal activities of *Emblica officinalis*, International Journal of Pharmaceutical Sciences and Research (IJPSR), **2012**; Vol. 3(4): 1124-1127.
16. **M. M. Hossain\***, S. C. Roy, S. M. Shoaib, and T. T. Tanmy, Study on present status of peptic ulcer disease (Age group below 18 years), Southeast University Journal of Science & Engineering (SEUJSE), July **2010**, vol- 5, No-5, ISSN : 1999-1630, pp. 25-32.
17. **M. M. Hossain\***, T. T. Tanmy, S. M. Shoaib, and A. F. M. N. Sadat , Antidandruff activities of some plants traditionally used against dandruff, University of Science & Technology Annual (USTA 2009), **2009**, Vol-15, No-1, ISSN : 1728-0435, pp. 93-100.
18. **M. M. Hossain\***, T. T. Tanmy, S. M. Shoaib, and Dr. S. C. Roy, Study on present status of peptic ulcer disease in Chittagong, University of Science & Technology Annual (USTA 2009), **2009**, Vol-15, No-1, ISSN : 1728-0435, pp. 110-119.

*Note : \* Author of Correspondence*

### **Poster Presentation In International Seminar**

1. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles; Presented in the **ACS (American Chemical Society) national meeting**, Held on 31 March-04 April 2019, Orlando, Florida, USA.
2. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Cytotoxic Activity of Copper-Based Nanoparticles; Presented in the **OIW-2018 (Ohio Inorganic Weekend-2018)**, Held on Friday-Saturday, 09-10 November 2018, Venue: Ohio University, Athens, Ohio, USA.
3. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles; Presented in the 33<sup>rd</sup> Annual Graduate Research Symposium (**GSS Symposium**), Organized by: Kent State University, Held on Thursday-Friday, 19-20 April 2018, Venue: Ball Room, 2<sup>nd</sup> Floor, Kent Student Center, Kent State University, Kent, Ohio, USA.
4. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles; Presented in the **9th Annual Midwest Graduate Research Symposium**, Organized by: Graduate

Student Association, University of Toledo, Held on Saturday, 07 April 2018, Venue: University of Toledo's Memorial Field House and Student Union, Toledo, USA.

5. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles; Presented in the 6<sup>th</sup> Annual Honors Week Poster Session-2018, Organized by: **Kent State University, Student Affiliates of the American Chemical Society (SAACS)**, Held on Monday, 02 April 2018, Venue: Garden Room, 1<sup>st</sup> Floor, Main Library, Kent State University, Kent, Ohio, USA.

6. **M. M. Hossain\***, S. Yarabarla, N. Penman, and S. D. Huang; Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles; Presented in the 3<sup>rd</sup> Annual Kent State Scientista Symposium, Organized by: **Kent State University, Scientista**, Held on Thursday, 08 March 2018, Venue: KSC 313, Kent State University, Kent, Ohio, USA.

7. K. M. Fatema, **M. M. Hossain\***, Dr. K. Mazumder; Investigation of physicochemical, antioxidant, thrombolytic, and cytotoxic activity of *Ipomoea pes-tigridis* ; Presented in the 3<sup>rd</sup> Ayuns International Ayurvedic & Traditional Medicine Conference-2014 on "Mainstreaming Ayurveda and Unani in the National Health Sector through improvisation of Traditional Medicines for Public Health" Organized by: **Ayurved & Naturopathy Association of Bangladesh [ayuns]** In association with : **Public Health Foundation of Bangladesh [phfbd], and Department of Pharmacy, Faculty of Pharmacy, University of Dhaka**, Held on Saturday, 29 November 2014, Venue: Senate Bhaban, University of Dhaka, Bangladesh.

8. R. A. Khanam, **M. M. Hossain\***, Dr. K. Mazumder, I. N. Khan, A. M. Bhuiya, and T. T. Tanmy; *In vitro* studies on antioxidant activity of black tea or *Camellia sinensis*.; Presented in the 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A Global Approach; on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

9. T. T. Tanmy, **M. M. Hossain\***, Dr. K. Mazumder, and S. Kawsar; Study on the Indications of Lower Segment Cesarean Section (LSCS) at BBMH, Chittagong in Bangladesh; Presented in the 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A

Global Approach; on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

10. B. Rahman, I. N. Khan\*, M. A. M. Bhuiya, and **M. M. Hossain**; An *In-vivo* Neurological, *In vitro* Anti-inflammatory and Thrombolytic activity of water ethanol & ethyl acetate extracts of *Euphorbia hirta* L. (Dudhia) whole plants; Presented in the 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A Global Approach; on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

11. R. Sen, M. A. M. Bhuiya\*, B. Talukder, and **M. M. Hossain**; Qualitative and Quantitative Estimation of the Antioxidant activity of methanolic extract of Drumstick Tree (*Moringa Oleifera*); Presented in the 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A Global Approach; on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

12. M. Z. Rahman, **M. M. Hossain\***, M. K. Hossain, and T. T. Tanmy; Comparative and *In vitro* Bioequivalence study of five brands of enteric coated Ibuprofen tablets marketed in Bangladesh; Presented in the 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A Global Approach; on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

13. S. Kawsar, **M. M. Hossain\***, T. T. Tanmy, and Dr. A. Yousuf; Assessment of influencing factors over writing prescription by physician in the port city Chittagong, Bangladesh; Presented in the 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A Global Approach; on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

14. K. Mazumder\*, M. H. Kawsar, T. Ahmed, M M Chowdhury, **M. M. Hossain**, and M. Shohel; Design, development and *in-vitro* study of intragastric floating drug delivery system of ciprofloxacin HCl by using HPMC K4M/ HPMC K100 LV polymer blend.; Presented in the 1<sup>st</sup> international conference on Drug Delivery and Drug Targeting Research organized jointly by the Department of Pharmaceutical Technology, Jadavpur University, Kolkata (Calcutta) and the Indian Association of Pharmaceutical Scientists and Technologists, Kolkata on the 19th and 20th January 2008 in Jadavpur University, Kolkata, India.

*Note : \* Author of Correspondence*

**Professional Training and Seminar, Summer School, Symposium/Workshop Attended (National and International)**

1. “**Microscopy Society of Northeastern Ohio (MSNO) Fall Meeting-2018**” on 3<sup>rd</sup> October 25, 2018 at Samsung Auditorium (Room 101), Advanced Materials and Liquid Crystal Institute, Kent State University, Ohio, USA.
2. “**Microscopy/Microanalysis Summer School-2018**” from 12 July 2018 to 17 July 2018 at Advanced Materials and Liquid Crystal Institute, Kent State University, Ohio, USA.
3. **2018 Organic Electronics Summer School**: “Organic Electronics: From Fundamentals to Organic Photovoltaics” from 06 June 2018 to 07 June 2018 Venue: Kent State University and Case Western Reserve University, Ohio, USA.
4. “**Graduate Professional and Academic Development (GPAD)**” workshop series from 26 February 2018 to 02 March 2018 Venue: Kent Student Center, Room 319, Kent, Ohio, USA.
5. “Hands on training on HPLC machine operation and method validation” from 5<sup>th</sup> February 2016 to 6<sup>th</sup> February 2016 Venue: Department of Pharmacy (D-Block), USTC, Chittagong, Bangladesh, conducted by Mr. Ruhul Amin, Scientific Officer, BCSIR, Rajshahi, Bangladesh.
6. A training workshop on “Bioinformatics methods and applications in genomics, proteomics and drug discovery” from 5<sup>th</sup> November to 6<sup>th</sup> November, 2015, Venue: Conference room, USTC, Chittagong, Dean’s Conference Room, CVASU, Khulshi, Chittagong, Bangladesh, organized jointly by Directorate (Research and Extension), CVASU in collaboration with Bangladesh Society for Bioinformatics (BSB).
7. Scientific seminar on “Rational use of drugs in Bangladesh” conducted by Prof. Dr. Sukalyan Kumar Kundu, Chairman, Department of Pharmacy, Jahangirnagar University, Bangladesh on 3<sup>rd</sup> September, 2015, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.
8. A training workshop on “Product management: Bangladesh pharmaceutical industry perspective” conducted by Rakib Hossain Bhuiyan, General Manager, Marketing,



Unihealth Pharma, Bangladesh on 2<sup>nd</sup> September, 2015, Venue: Hall room, Department of Pharmacy, USTC, Chittagong, Bangladesh.

9. A training workshop on “Application of statistical software for data mining” from 12<sup>th</sup> May to 13<sup>th</sup> May, 2013, Venue: Dean’s Conference Room, CVASU, Khulshi, Chittagong, Bangladesh, organized jointly by Directorate (Research and Extension) and Department of Agricultural Economics and Social Science, CVASU.

10. 1<sup>st</sup> International Symposium on Pharmaceutical Sciences: A Global Approach on 26<sup>th</sup> February, 2013, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

11. ACG TechnoVersity Seminar on Process and Packaging Technologies on 19<sup>th</sup> February, 2013, Venue: Ruposhi Bangla Hotel, Dhaka, Bangladesh.

12. A seminar on Herbarium Technique in Phytochemical & Pharmacological Research by Dr. Sheikh Bakhtiar Uddin, Associate Professor, Department of Botany, University of Chittagong, on 12<sup>th</sup> June, 2012, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

13. A seminar on TQMS in Pharmaceutical Industry by Mr. Prabir Ghose, GM, QA, Beximco Pharmaceuticals Ltd., on 1<sup>st</sup> June, 2012, Venue: Maulana Bhashani Auditorium, USTC, Chittagong, Bangladesh.

14. A four (4) days full time Workshop and Task group meeting on development of methodologies and protocols on documentation, evaluation of safety and efficacy and standardization of Herbal medicine organized by IUPAC and BAS in 2006.

15. In-plant training from 1<sup>st</sup> December, 2005 to 31<sup>st</sup> December, 2005 at different units of solid dosage, liquid and topical preparations, quality assurance and quality control department, product development, production planning and inventory control, warehouse, chemical division, agrovet division, consumer and toiletries division of Square Pharmaceuticals Limited (Pabna plant), Pabna, Bangladesh.

16. A two (2) days full time Workshop on Rational Use of Drugs in Non-Communicable Disease from 14<sup>th</sup> May to 15<sup>th</sup> May, 2005 held in Hotel Purbani, jointly organized by World Health Organization (WHO) and University of Dhaka (DU).

17. A six (6) days full-time Industrial training in Beximco Pharmaceuticals Ltd., Novarties Pharmaceuticals Ltd. and Eskayef Bangladesh Ltd. from 12<sup>th</sup> October, 2002 to 17<sup>th</sup> October, 2002.

### **Conference Attended (National and International)**

1. “**ACS (American Chemical Society) national meeting**”, Held on 31 March-04 April 2019, Orlando, Florida, USA.
2. “**Polymer Initiative of Northeast Ohio (PiNO)**” Conference, Held on Friday, 15 June 2018, Venue: Case Western Reserve University, Cleveland, Ohio, USA.
3. International Conference on “**Pharmaceutical Pathways: Drug Discovery, Development, & FDA Regulations**” Organized by: BioOhio. Held On Tuesday, 22 May 2018, Venue: NEOMED (North East Ohio Medical University), Ohio, USA.
4. 3<sup>rd</sup> Ayuns International Ayurvedic & Traditional Medicine Conference-2014 on "Mainstreaming Ayurveda and Unani in the National Health Sector through improvisation of Traditional Medicines for Public Health" Organized by: Ayurved & Naturopathy Association of Bangladesh [ayuns] In association with : Public Health Foundation of Bangladesh [phfbd], and Department of Pharmacy, Faculty of Pharmacy, University of Dhaka, Held on Saturday, 29 November 2014, Venue: Senate Bhaban, University of Dhaka, Bangladesh.
5. National Conference on Natural Sciences & Technology (NCNST-2014), Held on 24-25<sup>th</sup> April 2014, Venue: 20 G Rooftop, Asian University for Women (AUW), Chittagong, Bangladesh.
6. 10<sup>th</sup> Annual Scientific Conference, Theme: Zoonoses and Eco Health at human-animal-environment interface, Organized by Chittagong Veterinary and Animal Sciences University (CVASU) on 6<sup>th</sup> April 2013, Venue: BGMEA Auditorium, Chittagong, Bangladesh.

### **Instrumental Skills**

1. High Performance Liquid Chromatography (HPLC)
2. UV-vis Spectrophotometer
3. Infrared Spectrometer
4. USP Dissolution Apparatus

5. Franz diffusion cell
6. Gel electrophoresis; PCR
7. Atomic Absorption Spectrophotometer (AAS)
8. Cell Culture work (Both Mammalian and Bacterial)
9. ICP-AES
10. TEM, Cryo-TEM, bio-TEM
11. SEM
12. AFM
13. X-ray CT
14. Quantitative biological Light Microscopy
15. Specimen preparation for soft materials (traditional and cryo)
16. X-ray fluorescence, XPS
17. Tof-SIMS, Auger
18. Serial block-face SEM
19. Flow cytometry

### **Professional Status**

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Registered “A” Grade Pharmacist, authorized by **Bangladesh Pharmacy Council**,  
Registration number: **A-2762**.

### **Award Wining**

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1. “**FVC Award-2005**” for outstanding academic results given by Founder VC, USTC in 2006.
2. Bangladesh Government Junior Scholarship, 1994.

### **Reviewer**

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1. Scholars Academic Journal of Pharmacy (SAJP) ([saspublisher.com/sajp/](http://saspublisher.com/sajp/)).
2. International Journal of Pharmaceutical Research and Bioscience ([www.ijprbs.com](http://www.ijprbs.com)).
3. PHARMANEST- An International Journal of Advances in Pharmaceutical Sciences ([www.pharmanest.net](http://www.pharmanest.net)).
4. University of Science & Technology Annual (USTA) - A National peer viewed Journal of University of Science & Technology Chittagong (USTC).

## **Membership in Professional Bodies**

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1. **Member**, Bangladesh Pharmacy Council (BPC), Bangladesh.
2. **Member**, Bangladesh Pharmaceutical Society (BPS), Dhaka, Bangladesh.
3. **Member**, Pharmacy Graduates' Association (PGA), Bangladesh.
4. **Member**, Bangladesh Society for Bioinformatics (BSB), Bangladesh.
5. **Member**, American Chemical Society (ACS), Washington, DC 20036, USA.
6. **Member**, American Association for the Advancement of Science (AAAS),  
Washington, DC 20005, USA.
7. **Member**, American Association of Pharmaceutical Scientists (AAPS), Arlington, VA  
22201, USA.
8. **Member**, American Society for Biochemistry and Molecular Biology (ASBMB),  
Rockville, MD 20852-3110, USA.
9. **Member**, American Society for Nanomedicine (ASNM), Ashburn, VA 20147, USA.
10. **Member**, American Pharmacists Association (APhA), Washington, DC 20037, USA.
11. **Member**, American Association of Colleges of Pharmacy (AACP), Arlington, VA  
22202, USA.
12. **Member**, Microscopy Society of Northeastern Ohio (MSNO), Ohio, USA
13. **Member**, Student Affiliates of the American Chemical Society (SAACS), KSU,  
Ohio, USA

## **Membership in Non Professional Bodies**

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1. **Member**, UNICEF, Kent State University, Ohio, USA.
2. **Member**, American Red Cross, USA.
3. **Member**, UNESCO, USA.
4. **Member**, KiLN (Kent International Leadership Network), Kent State University,  
Ohio, USA.

### **Extra Curricular Activities in Non-Profit Organizations/Events**

- **Former Member**, Bangladesh Red Crescent Society (BDRCS) & Red Crescent Youth
- **Former Member**, Bangladesh Pharmacy Students Association (BPSA), USTC.
- **Former Debater**, School & College Debate Competition.
- **Invited Judge & Speaker**, English & Bengali Debate in different debate competition in Chittagong, Bangladesh.
- **Winner** of the 1<sup>st</sup> and 3<sup>rd</sup> Prize in Essay writing competition in school Level.

### **References**

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Signature  
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