

## Curriculum Vitae

**Md. Hasanuzzaman Shohag**

**Ph.D.**

Assistant Professor

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### ➤ Academic Qualifications

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#### ***Doctor of Philosophy***

Department of Cell Pharmacology

Graduate School of Medicine, Nagoya University, Japan

- Year & Month of Entrance and Completion: October/2011-September/2015
- Duration: 4 year

#### ***Master of Pharmacy***

Department of Clinical Pharmacy & Pharmacology

Faculty of Pharmacy, University of Dhaka, Bangladesh,

- Year & Month of Entrance and Completion: July/2006-June/2007
- Duration: 1 year
- 1<sup>st</sup> class 3<sup>rd</sup> in order of merit (73.8%).

#### ***Bachelor of Pharmacy (Hons.)***

Faculty of Pharmacy, University of Dhaka, Bangladesh

- Year & Month of Entrance and Completion: July/2002-June/2006
- Duration: 4 year
- 1<sup>st</sup> class 3<sup>rd</sup> in order of merit (74.1%).

#### ***Higher Secondary Certificate***

Science Group; Sherpur Government College, Sherpur, Bangladesh

- Year & Month of Entrance and Completion: July/2000-June/2002
- Duration: 2 year
- Obtained First Division (83.8 %).

#### ***Secondary School Certificate***

Science Group; Gazir Khamar High School, Sherpur, Bangladesh

- Year & Month of Entrance and Completion: Jan/1995-June/2000
- Duration: 5 years 6 months
- Obtained First Division (85.5 %)

➤ **Research and teaching Experience**

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<i>Assistant Professor</i>	Sep/2017- till	Department of Pharmaceutical Sciences, North South university, Dhaka, Bangladesh.
<i>Postdoctoral researcher</i>	Oct/2015- Sep/2017	Department of Cell Pharmacology, Graduate School of Medicine, Nagoya University, Japan.
<i>Research student</i>	Apr/2011- Sep/2011	Department of Cell Pharmacology, Graduate School of Medicine, Nagoya University, Japan.
<i>Lecturer</i>	Nov/2010 - Mar/2011	Department of Pharmacy, University of Asia Pacific, Dhaka, Bangladesh.
<i>Lecturer</i>	June/2008 - Oct/2010	Department of Pharmacy, State University of Bangladesh, Dhaka, Bangladesh.

➤ **Awards and Distinctions**

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- Received best presenter's award in 7th Nagoya Global Retreat conference, Japan, 2015.
- Received MEXT scholarship of Japanese Government from April 2011 to September 2015.
- Received Dean's Award 2008 for excellent academic result in undergraduate level, B.Pharm (hons).
- Received scholarship from Bangladesh American Pharmacist's association, 2004 for academic result in undergraduate level.
- Received scholarship from Ambia Khatun Foundation (from Fazlul Huq Muslim Hall, University of Dhaka), 2004 for academic result in undergraduate level.

➤ **Personal Information**

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Nationality : Bangladeshi  
District : Sherpur  
Religion : Islam

➤ **Teaching experience:**

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- **Course list:** Have taken various courses in undergraduate level such as: Pharmacology, Clinical Pharmacy, Basic Pathology and Toxicology, Biochemistry and Molecular Biology, Pharmaceutical Biotechnology, Pharmaceutical Engineering, Medicinal Chemistry, Inorganic and Organic Chemistry, Physical Chemistry, Pharmacognosy, Physiology etc. Have also taken postgraduate level courses such as Drug Use Management, Drug Regulatory Affairs.
- **Lab courses:** Have conducted several practical courses such as Pharmacology, Pharmacognosy, Physiology, Inorganic and Organic chemistry, Microbiology.
- **Projects:** Have supervised several projects of undergraduate and graduate students in the fulfillment of their degree.
- **Counseling:** Performed counseling of the students both in their weak areas of study as well as boost up motivation and building confidence.

➤ **Research skills:**

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- **Phosphoproteomics:** Preparation of LC-MS/MS samples from cell lines or mouse brain tissue such as striatum, hippocampus etc. with or without phosphopeptide enrichment, and running the samples in Q-Exactive machine followed by analysis of raw data in software like MaxQuant, Proteome discoverer etc.
- **Animal experiment:** Mouse brain neostriatal and hippocampal slice culture to examine in vivo signaling substrates of PKA, PKC, MAPK, CaMKII, D1R and D2R etc.
- **Molecular biology:** Cloning, amplification and mutagenesis PCR, production and purification of miniprep DNA, purification of DNA by QIAGEN method, sequencing of DNA.
- **Cell biology:** Immunoprecipitation, pull-down analysis, western blotting, immunostaining, CBB and silver staining etc.
- **Recombinant protein production** Recombinant protein production in *E.Coli*, and purification using affinity beads columns, and quantification.

➤ **Links to personal research profiles:** \_\_\_\_\_

- Researchgate: [https://www.researchgate.net/profile/Md\\_Hasanuzzaman\\_Shohag](https://www.researchgate.net/profile/Md_Hasanuzzaman_Shohag)
- Google scholar: <https://scholar.google.com/citations?user=oivIgxYAAAAJ&hl=en&oi=ao>

➤ **Scientific Publications List [Original Research Articles]** \_\_\_\_\_

1. Yura, Y., M. Amano, M. Takefuji, T. Bando, K. Suzuki, K. Kato, T. Hamaguchi, **M.H. Shohag**, T. Takano, and Y. Funahashi. 2016. Focused proteomics revealed a novel Rho-kinase signaling pathway in the heart. *Cell Structure and Function*. 41:105-120.
2. **Shohag, M.H.**, T. Nishioka, R.U. Ahammad, S. Nakamuta, Y. Yura, T. Hamaguchi, K. Kaibuchi, and M. Amano. 2015. Phosphoproteomic analysis using the WW and FHA domains as biological filters. *Cell structure and function*. 40(2):95-104.
3. Nishioka, T., **M.H. Shohag**, M. Amano, and K. Kaibuchi. 2015. Developing novel methods to search for substrates of protein kinases such as Rho-kinase. *Biochimica et Biophysica Acta (BBA)-Proteins and Proteomics*. 1854:1663-1666.
4. Amano, M., T. Hamaguchi, **M.H. Shohag**, K. Kozawa, K. Kato, X. Zhang, Y. Yura, Y. Matsuura, C. Kataoka, and T. Nishioka. 2015. Kinase-interacting substrate screening is a novel method to identify kinase substrates. *The Journal of cell biology*. 209:895-912.
5. Hamaguchi, T., S. Nakamuta, Y. Funahashi, T. Takano, T. Nishioka, **M.H. Shohag**, Y. Yura, K. Kaibuchi, and M. Amano. 2014. In vivo Screening for Substrates of Protein Kinase A using a combination of proteomic approaches and pharmacological modulation of kinase activity. *Cell structure and function*. 40(1):1-12.
6. **Shohag, M.H.**, M.A. Ullah, M.A. Azad, M.S. Islam, S. Qusar, S.F. Shahid, and A. Hasnat. 2012. Serum Antioxidant Vitamins and Malondialdehyde Levels in Patients with Obsessive-Compulsive Disorder. *German Journal of Psychiatry*. 15:10-14.
7. **Shohag, M.H.**, A. Ullah, S. Qusar, M. Rahman, and A. Hasnat. 2012. Alterations of serum zinc, copper, manganese, iron, calcium, and magnesium concentrations and the complexity of interelement relations in patients with obsessive-compulsive disorder. *Biological trace element research*. 148:275-280.
8. Karim, R., Z. Nahar, M.S. Islam, M.U. Ahmed, A. Mustafa, **M.H. Shohag**, A. Al Maruf, and A. Hasnat. 2012. Serum MDA and Vitamin C level in Conversion Disorder Patients. *Dhaka University Journal of Pharmaceutical Sciences*. 10:59-64.
9. Islam, M.S., N. Akter, **M.H. Shohag**, A. Ullah, A. Al Maruf, T.A. Sultana, A.M. Latif, and A. Hasnat. 2012. Bioequivalence Evaluation of Two Esomeprazole 20 mg Capsule Formulations in Healthy Male Bangladeshi Volunteers. *Journal of Bioequivalence & Bioavailability*. 2011.

10. Chowdhury, M.M.I., M.A. Ullah, A. Al Maruf, M.S. Islam, M.U. Ahmed, **M.H. Shohag**, M. Azad, and A. Hasnat. 2012. Validation and Optimization of a Simple RP-HPLC Method for Determination of Trimetazidine in Human Serum and its Application in a Pharmacokinetic Study with Healthy Bangladeshi Male Volunteers. *Dhaka University Journal of Pharmaceutical Sciences*. 10:71-78.
11. Ahmed, M.U., M.S. Islam, **M.H. Shohag**, R. Karim, A. Mustafa, N.H. Bhuiyan, M. Rahim, and A. Hasnat. 2012. Comparative pharmacokinetic and bioequivalence study of azithromycin 500 mg tablet in healthy Bangladeshi volunteers. *International journal of clinical pharmacology and therapeutics*. 50:452-458.
12. Sultana, T.A., M.S. Islam, M.N.H. Bhuiyan, **M.H. Shohag**, M.U. Ahmed, S.R. Naznin, A. Al Maruf, S.I. Huq, and A. Hasnat. 2011. Comparative pharmacokinetic and relative bioavailability study of coated and uncoated azithromycin powder for suspension in healthy Bangladeshi male volunteers. *Arzneimittelforschung*. 61:594-598.
13. **Shohag, M.H.**, M.S. Islam, M.U. Ahmed, J.J. Joti, M.S. Islam, M. Hasanuzzaman, and A. Hasnat. 2011. Pharmacokinetic and bioequivalence study of etoricoxib tablet in healthy Bangladeshi volunteers. *Arzneimittelforschung*. 61:617-621.
14. Sayeed, M.S.B., A. Al Maruf, M.U. Ahmed, G.M. Rahman, A. Hasnat, M.A. Ullah, and **M.H. Shohag**. 2011. Evaluation of Serum Trace Elements in Bangladeshi Dockyard Labourers. *Journal of Pharmacy Research Vol. 4*:4390-4392.
15. Islam, M., A. Trlni, **M.H. Shohag**, M. Ahmed, A. Maruf, and A. Hasnat. 2011. Bioavailability of omeprazole 20 mg capsules containing omeprazole 22.5% enteric coated pellets versus a reference product in healthy Bangladeshi male subjects: an open-label, single-dose, randomized-sequence, two-way crossover study. *International journal of clinical pharmacology and therapeutics*. 49:778-786.
16. Chowdhury, M.M.I., M.A. Ullah, N. Iqbal, **M.H. Shohag**, S. Harun, K.A. Akter, B. Begum, A.M. Latif, and A. Hasnat. 2011. Relative bioavailability and pharmacokinetic study of two trimetazidine modified release formulations in healthy Bangladeshi male volunteers. *Arzneimittelforschung*. 61:393-398.
17. Ullah, M.A., A. Al Maruf, M.A.K. Azad, **M.H. Shohag**, R. Sultana, A.M. Latif, and A. Hasnat. 2010. Relative bioavailability and pharmacokinetic properties of two different enteric formulations of esomeprazole in healthy Bangladeshi male volunteers: An open-label, single-dose, randomized-sequence, two-way crossover study. *Clinical therapeutics*. 32:1419-1426.
18. Naznin, S.R., M. Khanam, A. Al Maruf, **M.H. Shohag**, M.S. Islam, S.F.B. Shahid, and A. Hasnat. 2010. Evaluation of serum Ca, Mg, Cu, Fe, Zn and Mn in conversion disorder patients. *Dhaka University Journal of Pharmaceutical Sciences*. 9:119-124.
19. Haider, N., M.S. Islam, A. Al Maruf, **M.H. Shohag**, R. Ali, G.M. Rahman, and A. Hasnat. 2010. Oxidative stress and antioxidant status in vitiligo patients. *Dhaka University Journal of Pharmaceutical Sciences*. 9:103-108.

➤ **Conference paper**

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1. Amano, M., T. Nishioka, S. Nakamuta, **MH. Shohag**, and K. Kaibuchi. 2015. Comprehensive analysis of phospho-signaling pathways downstream of monoamine neurotransmitters. *Journal of Pharmacological Sciences*. 128 (3): S55-S55.
2. Kozawa, K., K. Kato, T. Hamaguchi, **M.H. Shohag**, X. Zhang, T. Nishioka, M. Amano, and K. Kaibuchi. 2012. Cooperative regulation of cellular contractility by Rho-kinase/Scrib/Shroom2 complex. *Molecular Biology of the Cell*. 23.

➤ **Conference presentations List (oral and poster)**

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1. **Shohag, M.H.**, S. Nakamuta, M.H. Chowdhury, M. Amano, T. Nishioka, D. Tsuboi and K. Kaibuchi. Phosphoproteomic screening of Ca<sup>++</sup>/Calmodulin-dependent protein kinase II substrates. 9th Nagoya Global Retreat conference, Obu, Japan (Feb 10-11, 2017).
2. Nishioka, T., S. Ashida, **MH. Shohag**, M. Amano, and K. Kaibuchi. Phosphoproteomic screening of PKC substrates by KIOSS method. The 68th Annual Meeting of the Japan Society for Cell Biology, Kyoto, Japan (June 15-17, 2016).
3. **Shohag, M.H.**, M. Amano, R.U. Ahammad, S. Nakamuta, Y. Yura, T. Hamaguchi, T. Nishioka, and K. Kaibuchi. Phosphoproteomic analysis using the WW and FHA domains as biological filters. 14th Human Proteome Organization World Congress (HUPO 2015), Vancouver, British Columbia, Canada (Sept. 27-30, 2015)
4. **Shohag, M.H.**, M. Amano, T. Nishioka, S. Nakamuta, T. Hamaguchi, and K. Kaibuchi. Phosphoproteomic analysis using the WW and FHA domains as biological filters. 7th Nagoya Global Retreat conference, Obu, Japan (Feb 13-14, 2015).
5. Amano, M., **MH. Shohag**, T. Nishioka, S. Nakamuta and K. Kaibuchi. 8th international conference Inhibitors of Protein Kinases, Warshaw, Poland (Sep 21-25, 2014).
6. **Shohag, M.H.**, M. Amano, T. Nishioka, S. Nakamuta, T. Hamaguchi, and K. Kaibuchi. Phosphoproteomic analysis using the WW and FHA domains as biological filters. The 66th Annual Meeting of the Japan Society for Cell Biology, Nara, Japan (June 11-13, 2014).

➤ **Referees**

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