



Dr. Md. Ahsanul Haque

Brief Intro

Assistant Professor

Contact:

Mobile: +8801303415605

Phone: PABX: +8802-58157091-4, Ext-411

Fax : +8802-58157097

Email: ahsanul@uap-bd.edu

Academic qualification

Degree: PhD (Neuroscience)

University: School of Medicine, Shimane University, Japan

Degree: M. Pharm (Clinical Pharmacy and Pharmacology)

University: University of Dhaka

Degree: B. Pharm (Honors)

University: University of Dhaka

Teaching Experience

1. Assistant Professor, Department of Pharmacy
University of Asia Pacific, Dhaka, Bangladesh
Period: April 2019 – Present
2. Assistant Professor, Department of Pharmacy
University of Asia Pacific, Dhaka, Bangladesh
Period: November 2012 – September 2014
3. Lecturer, Department of Pharmacy
University of Asia Pacific, Dhaka, Bangladesh
Period: August 2010 – October 2012

4. Lecturer, Department of Pharmacy
State University of Bangladesh, Dhaka, Bangladesh
Period: September 2009 – July 2010

Course Conducted

Pharm 111: Inorganic Pharmacy-I
Pharm 117: Inorganic Pharmacy-II
Pharm 121: Physiology-I
Pharm 251: Basic Pharmaceutics
Pharm 354: Biopharma and Pharmacokinetics-I Lab
Pharm 356: Biopharma and Pharmacokinetics-II Lab
Pharm 445: Cosmetology
Pharm 446: Cosmetology-Lab
Pharm 455: Hospital and Community Pharmacy
Pharm 606: MS Project
Pharm 602: MS Thesis

Thesis Conducted

I conducted thesis on method development and validation of a single or combined drug in different pharmaceutical dosage form using HPLC system. Now, I am planning to formulate different drug products into solid dosage form and analyze in vitro study as well as in vivo effect using animal model. In addition, I have an experience of doing phytochemical study related to biological and chemical investigation of *Vernonia cinerea* as a part of requirement in fulfilling my M. Pharm degree.

Professional Experience

1. Quality Control Officer, Quality Assurance Department, Incepta Pharmaceuticals Ltd., Zirabo, Savar, Dhaka, Bangladesh
Period: August 2006 – August 2009
2. Product Officer, Product Management Department, General Pharmaceuticals Ltd., Dhaka, Bangladesh
Period: March 2006 – July 2006

Research Experience

1. PhD student, Department of Laboratory Medicine, Shimane University, Izumo-shi, Shimane, Japan
Period: April 2015 – March 2019
Research:
 - a. Established LC-ESI-MS/MS method for the first time for the identification and measurement of phospholipids in Alzheimer's Disease (AD) model mouse brain.
 - b. Study of time dependent changes of phospholipid species in hippocampus and pre-frontal cortex region of AD model mouse brain.
 - c. In vivo effects of lyso-phosphatidylcholine (LPC) in AD model mouse.
 - d. Neuroprotective effects of B-10 cell transplantation in AD rat model as well as MCAO rat model.

2. Graduate Research Student, Department of Laboratory Medicine, Shimane University, Izumo-shi, Shimane, Japan
Period: October 2014 – March 2015
Research:
 - a. Studying LC-MS/MS related methods used in lipidomic.
 - b. Isolation of embryonic stem cell and its culture maintaining ideal condition.
 - c. Learn and practice AD model as well as MCAO model in rat.

Research Interest

Lipid metabolism hampers in neurodegenerative disease like AD. I have found time dependent changes of several phospholipid species in hAPPJ20 mouse model of AD where LC-ESI-MS/MS method was employed. So, my research interest is to study phospholipid species in control subject in time course manner using animal model. Another research interest is to develop and validate HPLC method for the determination of single or combined drug products both in vitro and in vivo condition.

Publications

Manuscript in preparation:

1. **Md. Ahsanul Haque**, Abdullah Md. Sheikh, Harumi Osago, Abul Kalam Azad, Hiromichi Sakai, Shozo Yano, Makoto Michikawa and Atsushi Nagai. Analysis of the time-dependent changes of phospholipids in the brain regions of a mouse model of Alzheimer's disease.

Published Articles:

2. **Md. Ahsanul Haque**, Abdullah Md. Sheikh, Abdullah Al Mamun, Shozo Yano, Michio Hashimoto, Osamu Shido and Atsushi Nagai. A Mesenchymal Stem Cell Line Transplantation Improves Neurological Function and Angiogenesis in Intraventricular Amyloid β -infused Rats. *Current Alzheimer's Research*, 15: 1331-1342; 2018
3. Abdullah Md. Sheikh, Shozo Yano, Shingo Mitaki, **Md. Ahsanul Haque**, Shuhei Yamaguchi and Atsushi Nagai. A mesenchymal stem cell line (B10) increases angiogenesis in a rat MCAO model. *Experimental Neurology*; 311: 182-193; 2019
4. Yuri Shiota, Atsushi Nagai, Abdullah Md. Sheikh, Shingo Mitaki, Seiji Mishima, Shozo Yano, **Md. Ahsanul Haque**, Shotai Kobayashi and Shuhei Yamaguchi. Transplantation of a bone marrow mesenchymal stem cell line increases neuronal progenitor cell migration in a cerebral ischemia animal model. *Scientific Reports*. 8: 14951; 2018. DOI: 10.1038/s41598-018-33030-9
5. **Md. Ahsanul Haque**, Chowdhury Sayef Abdullah, Bilquis Romana, Md. Bodruddoza Rafique, Gazi Md. Zia-ul-Huda, Sarder Fahim Hossain and Bilkis Begum. Evaluation of anti-diarrheal and anti-diabetic activities of the stem, barks and leaves of the plant *Vernonia cinerea* (Family: Asteraceae). *Journal of Applied Pharmaceutical Science* (ISSN: 2231-3354); 3 (01): 069-072; January 2013. DOI: 10.7324/JAPS.2013.30113

6. Md. Rashedul Alam, Akib Bin Rahman, Md. Moniruzzaman, Mohammad Fahim Kadir, **Md. Ahsanul Haque**, Mohammad Razi-Ul-Hasan Alvi, Md. Ratan. Evaluation of anti-diabetic phytochemicals in *Syzygium cumini* (L.) skeels (Family: Myrtaceae). *Journal of Applied Pharmaceutical Science* (ISSN: 2231-3354); 2(10): 094-098; 2012. DOI: 10.7324/JAPS.2012.21019
7. Md. Rashedul Alam, Md. Raton, Md. Musfizur Hassan, Mohammad fahim Kadir, S.M. Ashraful Islam and **Md. Ahsanul Haque**. Anthelmintic and diuretic activity of bark extracts of *Sterculia villosa*. *Journal of Applied Pharmaceutical Science* (ISSN: 2231-3354); 2(10): 086-089; 2012. DOI: 10.7324/JAPS.2012.21017
8. Md. Mahfuzur Rahman, Mohammad Shahdaat bin Sayeed, **Md. Ahsanul Haque**, Md. Musfizur Hassan and S. M. ashraful Islam. Phytochemical screening, antioxidant, anti-alzheimer's and anti-diabetic activities of *Centella asiatica*. *Journal of Natural Product and Plant Resources* (ISSN: 2231-3184); 2(4): 504-511; 2012
9. Abu Afzal Mohammad Shakar, Sharmin Khanam, Muhammad Shahdaat Bin Sayeed, **Md. Ahsanul Haque**, Md. Moniruzzaman and S.M. Ashraful Islam. Antidiuretic, antidiarrhoeal activities of polar and non-polar extract of *Brassica oleracea*. *Journal of Applied Pharmaceutical Science* (ISSN: 2231-3354); 02(08): 101-106; 2012. DOI: 10.7324/JAPS.2012.2816
10. Md. Kamal Hossain, Md. Mahfuzur Hassan, Most. Nazma Parvin, Md. Mahmudul Hasan, Md. Siddiqui Islam and **Md. Ahsanul Haque**. Antimicrobial, cytotoxic and thrombolytic activity of *Cassia senna* leaves (Family: Fabaceae). *Journal of Applied Pharmaceutical Science* (ISSN: 2231-3354); 02(06): 186-190; 2012. DOI: 10.7324/JAPS.2012.2607
11. **Md. Ahsanul Haque**, Md. Musfizur Hassan, Atanu Das, Bilkis Begum, Md. Yousuf Ali, Helal Morshed. Phytochemical investigation of *Vernonia cinerea* (Family: Asteraceae). *Journal of Applied Pharmaceutical Science* (ISSN: 2231-3354); 02(06): 79-83; 2012. DOI: 10.7324/JAPS.2012.2617

12. **Md. Ahsanul Haque**, Chowdhury Sayef Abdullah, Md. Musfizur Hassan, Most. Nazma Parvin, Md. Bodruddoza Rafique and A.G.M. Mostofa. Evaluation of the antioxidant and anticholinesterase activities of the stem, barks and leaves of the plant Vernonia cinerea (Family: Asteraceae). Journal of Applied Pharmaceutical Science (ISSN: 2231-3354); 02(05): 174-176; 2012. DOI: 10.7324/JAPS.2012.2543
13. Tanjinatus Shams Oishi, **Md. Ahsanul Haque**, Irin Dewan and S.M. Ashraful Islam. Comparative in vitro dissolution study of some ciprofloxacin generic tablets under biowaiver conditions by RP-HPLC. International Journal of Pharmaceutical Sciences and Research (ISSN: 0975-8232); 2(12): 3129-3135; 2011
14. Md. Arif Hossain, Md. Shahdaat Bin Sayeed, **Md. Ahsanul Haque**, Irin Dewan and S.M. Ashraful Islam. Validation of RP-HPLC method for simultaneous estimation of chloramphenicol and dexamethasone phosphate in eye drops. Journal of Advanced Pharmaceutical Research (ISSN: 2229-3787); 2(3): 135-141; 2011
15. Md. Shozan Mondal, **Md. Ahsanul Haque**, Md. Safiqul Islam and S.M. Ashraful Islam. Development and validation of RP-HPLC method for the simultaneous estimation of Domperidone and Naproxen in tablet dosage form. Journal of Applied Pharmaceutical Science; 01(07): 145-148; 2011
16. Gauri Rani Das, **Md. Ahsanul Haque**, Mohammad Shahriar and S.M. Ashraful Islam. A simple RP-HPLC method for the simultaneous estimation of Ranitidine Hydrochloride and Domperidone in combine dosage form. Pharma Science Monitor, An international Journal of Pharmaceutical Sciences; online first; 1894-1906; 2011
17. **Md. Ahsanul Haque**, Mohammad Shahriar, Most. Nazma Parvin and S.M. Ashraful Islam. Validated RP-HPLC method for estimation of Ranitidine Hydrochloride, Domperidone and Naproxen in solid dosage form. Asian Journal of Pharm. Ana.; 1(3): 59-63; 2011

18. Jafreen Jamal Joti, **Md. Ahsanul Haque**, S.M. Ashraful Islam and Mohammad Safiqul Islam. Validation and optimization of a simple RP-HPLC method for determination of cilostazol in human serum. *Indian Journal of Novel Drug Delivery*; 3(2): 143-148; 2011
19. Md. Arif Hossen, **Md. Ahsanul Haque**, Irin Dewan, A.N.M. Hamidul Kabir, Md. Khalid Hossain and S.M. Ashraful Islam. Development and validation of RP-HPLC method for the simultaneous estimation of hydrochlorothiazide and losartan potassium in tablet dosage form. *Dhaka University journal of Pharmaceutical Science*; 10(1): 35-42; 2011
20. **Md. Ahsanul Haque**, Asma Naznin, A.N.M. Hamidul Kabir, Md. Khalid Hossain and S.M. Ashraful Islam. Development and validation of RP-HPLC method for the simultaneous estimation of atenolol and amlodipine in tablet dosage form. *Dhaka University Journal of Pharmaceutical Science*; 9(2): 131-138; 2010

Meeting Participation

Oral presentation

- **Md. Ahsanul Haque**, Abdullah Md. Sheikh, Harumi Osago, Hossain Kazi Helal, Mikako Tsuchiya and Atsushi Nagai. Analysis of phospholipid species in AD model mouse brain by LC-MS/MS. 39th Neural Culture Conference-2017, Nagoya, Japan.

Poster presentation

- **Md. Ahsanul Haque**, Abdullah Md. Sheikh, Harumi Osago, Hikomichi Sakai, Abul Kalam Azad, Mikako Tsuchiya, Makoto Michikawa and Atsushi Nagai. "Analysis of phospholipid species in AD model mouse brain by LC-MS/MS", The 37th Annual Meeting of Japan Society for Dementia Research Conference-2018 (J37-20611), Hokkaido, Japan.
- **Md. Ahsanul Haque**, Atsushi Nagai, Abdullah Md Sheikh, Shingo Mitaki, Abdullah Al Mamun, Michio Hashimoto, Osamu Shido and Shuhe

Yamaguchi. "Mesenchymal stem cell transplantation in Alzheimer's Disease rat model", 57th Annual Meeting of the Japanese Society of Neurology Conference- 2016, Kobe, Osaka, Japan.