



Prof. Dr. Mohiuddin Ahmed Bhuiyan
Dean, School of Medicine

Education:

PhD, Niigata University of Pharmacy &
Applied Life Sciences, Japan 2010

M.Pharm. University of Dhaka, 1995

B.Pharm. University of Dhaka, 1994

EMPLOYMENT RECORD:

Name of Organization: Department of Pharmacy, University of Asia Pacific
Address: 74/A, Green Road, Farmgate, Dhaka-1215, Bangladesh
Period: March 16, 1998 to till date
Current Position: Professor (Since April, 2012)
Major Responsibility: Giving lectures, supervising Master thesis & project
Doing research, supervising departmental research activities etc.
Academic Positions: Member, Academic Council
Member, Discipline Committee
Member, Selection Committee
Member, Syndicate
Convener, Advanced Studies Committee
Chairman, Research Ethics Committee
Administrative Positions: Worked as Head of the Department for more than 10 years
As Controller of Examination (6 January 2021- 31 July 2022)
As Dean, School of Medicine (27 September 2021 to till date)
As Treasurer-in-Charge (28 April 2022 to 3 April, 2023)

PERSONAL RESEARCH LINKS:

1. https://www.researchgate.net/profile/Mohiuddin_Bhuiyan/research
2. <https://scholar.google.com/citations?user=BMxi8TgAAAAJ&hl=en>
3. <https://www.scopus.com/authid/detail.uri?authorId=15053110900>

RESEARCH AREA:

Specialized with the research work in the field of molecular biology. Familiar with mammalian and bacterial cell culture, transformation, transfection, electrophoresis, membrane fraction preparation, protein assay, polymerase chain reaction, DNA mutation, DNA sequencing, western blot technique, radioligand binding etc.

Present research is in the field of pharmaceutical biotechnology, formulation development of different dosage form like different types of tablets, capsules, gastro-retentive film etc. Also doing research on isolation of biological active compounds from different medicinal plants.

A research project is being carried out in collaboration with Kanazawa University, Japan to find out substandard and falsified medicine in Bangladeshi market. The most recent research publications are based on different features of COVID-19 pandemic in the field of infectious diseases and public health.

RESEARCH EXPERIENCE:

- 1) Carried out research work on 'Selectivity of angiotensin II receptor blockers to AT₁ receptors as assessed by binding affinity, functional activity and molecular modeling' for the partial fulfillment of PhD from 2006-2010.
- 2) Carried out research work on formulation, preparation and evaluation of sustained release matrix tablet and their release mechanisms as a part of supervising project students from 2000 to 2005.
- 3) Supervised research projects undertaken by the final year Bachelor of Pharmacy students from 2000 to 2015. About twenty students completed their project work under my supervision. Papers have been published from their research works in both national and international Journals.
- 4) Supervised thesis works undertaken by the MS Pharm Tech students in the field of Pharmaceutical Technology, Pharmaceutical Microbiology, Pharmaceutical Biotechnology and Phytochemistry from 2010-2019. About thirty MS Pharm Tech students completed their research work under my supervision.
- 5) Jointly supervised thesis work of the PhD student who already completed the degree from the Department of Pharmacy, Jahangirnagar University. Another PhD candidate from the same institution is working under my supervision.
- 6) Carried our research works in the field of Pharmaceutical Technology to develop different pharmaceutical dosage forms such as single and bi-layered tablet, floating tablet, sustained release tablet, pulsatile release capsule, gastro-retentive film etc.
- 7) Carried out research on cognitive effect of human volunteers using CANTAB software.

PUBLICATIONS OF RESEARCH ARTICLES:

2023

130. Higher serum nerve growth factor levels are associated with major depressive disorder pathophysiology: a case-control study. Lubaba Salsabil, Mohammad Shahriar, Sardar Mohammad Ashrafur Islam, Mohiuddin Ahmed Bhuiyan, MMA Shalahuddin Qusar and Md. Rabiul Islam. 2023. *Journal of International Medical Research*. 51(4): 1-14.
129. Comparative performance evaluation of personal protective measures and antiviral agents against SARS-CoV-2 variants: A narrative review. Md Anamul Haque, Md Tanbir, Bulbul Ahamed, Md Jamal Hossain, Arpita Roy, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan, Md. Rabiul Islam*. 2023. *Clinical Pathology*. 16: 1–9.
128. Virtual screening of bioactive anti-SARS-CoV natural products and identification of 3 β ,12-diacetoxyabieta-6,8,11,13-tetraene as a potential inhibitor of SARS-CoV-2 virus and its infection related pathways by MD simulation and network pharmacology. A.K.M. Moyeenul Huq*, Miah Roney, Syahrul Imran, Shafi Ullah Khan, Md. Nazim Uddin, Thet Htar, Atif Amin Baig, Mohiuddin Ahmed Bhuiyan, Zainul Amiruddin Zakaria, Mohd Fadhilzil Fasihi Mohd Aluwi & Saiful Nizam Tajuddin. 2023. *Journal of Biomolecular Structure and Dynamics*. 41: 2176926.
127. SARS-COV-2 Omicron subvariant BF.7 is again triggering the Covid fear: What we need to know and what we should do? Adnan Akif, Mohiuddin Ahmed Bhuiyan, Md. Rabiul Islam. 2023. *Journal of Medical Virology*. 95(2): e28551.
126. Internet addiction and loneliness among school-going adolescents in Bangladesh in the context of the COVID-19 pandemic: Findings from a cross-sectional study. Md. Rabiul Islam*, Md. Mehedi Hasan Apu, Rabeya Akter, Papia Sen Tultul, Ramisa Anjum, Zabun Nahar, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan. 2023. *Heliyon*. 9(2): e13340.
125. Monkeypox and sex: Sexual orientations and encounters are key factors to consider. Md. Rabiul Islam*, Delruba Tabassum Nowshin, Md. Robin Khan, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan. 2023. *Health Science Reports*. 6(1): e1069.

2022

124. Problematic internet use and depressive symptoms among the school-going adolescents in Bangladesh during the COVID-19 pandemic: A cross-sectional study findings. Md. Rabiul Islam*, Md. Ismail Tushar, Papia Sen Tultul, Rabeya Akter, Md. Sohan, Ramisa Anjum, Arpita Roy, Md. Jamal Hossain, Md. Ashrafur

- Rahman, Zabun Nahar, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan. 2022. *Health Science Reports*. 6(1): e1008.
123. In vitro comparative studies of the leaf extracts of four different types of *Calamus* species. Munsifa Sultana, Sajjan Das, Mohammad Shahriar, Rumana Akhter, Isa Naina Mohamed and Mohiuddin Ahmed Bhuiyan*. 2022. *Dhaka University Journal of Pharmaceutical Sciences*. 21(2): 171-179.
 122. Recent outbreak of Marburg virus disease: Could it be a threat for global public health? Md. Sohan, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan, Md. Rabiul Islam*. 2022. *Health Science Reports*. 6(1): e971.
 121. Altered serum adiponectin and interleukin-8 levels are associated in the pathophysiology of major depressive disorder: A case-control study. Salsabil Islam, Towhidul Islam, Zabun Nahar, Mohammad Shahriar, Sardar Mohammad Ashraful Islam, Mohiuddin Ahmed Bhuiyan, Md. Rabiul Islam*. 2022. *Plos One*. 17(11): e0276619.
 120. Pharmacophore-based virtual screening approaches to identify novel molecular candidates against EGFR through comprehensive computational approaches and in-vitro studies. F. A. Dain Md Opo*, Mohammed Moulay, Ali Zari, Afnan Alqaderi, Saleh Alkarim, Talal Zari, Mohiuddin Ahmed Bhuiyan, Maged Mostafa Mahmoud, Fadwa Aljoud, Mohd Suhail, Sherif Edris, Wafaa S. Ramadan, Mohammad Amjad Kamal, Saïd Nemmiche and Foysal Ahammad. 2022. *Frontiers in Pharmacology*. 13: 1027890 (1-22).
 119. Emerging SARS-CoV-2 variants and subvariants: Challenges and opportunities in the context of COVID-19 pandemic. Smaranika Rahman, Md. Jamal Hossain, Zabun Nahar, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2022. *Environmental Health Insights*. 16: 1–7.
 118. The latest Omicron BA.4 and BA.5 lineages are frowning toward COVID-19 preventive measures: A threat to global public health. Md. Rabiul Islam*, Mohammad Shahriar and Mohiuddin Ahmed Bhuiyan. 2022. *Health Science Reports*. 5:e884.
 117. Prevalence and associated risk factors for mental health problems among female university students during COVID-19 pandemic: A cross-sectional study findings from Dhaka, Bangladesh. Zabun Nahar, Md. Sohan, Kaniz Farzana Supti, Md. Jamal Hossain, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2022. *Heliyon*. 8 (2022) e10890.
 116. Characteristics of the SARS-CoV-2 Omicron (B.1.1.529) variant and emerging impact on global public health. Md. Rabiul Islam*, Waheeda Nasreen, Ramisa Anjum, Mohammad Shahriar, Arpita Roy, Kuldeep Dhama and Mohiuddin Ahmed Bhuiyan. 2022. *Clinical Pathology*. 15: 1–7.
 115. Repositioning potentials of smallpox vaccines and antiviral agents in monkeypox outbreak: A rapid review on comparative benefits and risks. Md. Rabiul Islam*,

- Md. Jamal Hossain, Arpira Roy, A. H. M. Nazmul Hasan, Md. Ashrafur Rahman, Mohammad Shahriar and Mohiuddin Ahmed Bhuiyan. 2022. *Health Science Reports*. 5:e798.
114. Prevalence and associated factors for elevated fear and depressive symptoms among the private service holders in Bangladesh during the Covid-19 pandemic: A cross-sectional study. Md. Rabiul Islam*, Zabun Nahar, Md. Sakhawat Hossain, Md. Jamal Hossain, Mohammad Shahriar, Sardar Mohammad Ashrafur Islam and Mohiuddin Ahmed Bhuiyan. 2022. *Health Science Reports*. 5(5): e795.
 113. Knowledge, acceptance and perception about COVID-19 vaccines in Bangladesh: Findings from a web-based cross-sectional study. Md. Sakhawat Hossain, Md. Rabiul Islam*, Mohammad Touhidul Islam, Romana Islam, Md. Robin Khan, Tushar Saha, Md. Jamal Hossain, Mohiuddin Ahmed Bhuiyan. 2022. *Open Health*. 3: 73-86.
 112. Hematological abnormalities and comorbidities are associated with the severity of kidney disease: A hospital-based cross-sectional study in Bangladesh. Md. Ashrafur Rahman, Yeasna Shanjana, Md. Shakil Ahmed, Kuldeep Dhama, Mahadi Hasan Fahim, Tarif Mahmud, Arif Anzum Shuvo, Zahid Hossain Milan, Mohammad Saydur Rahman, Arpita Roy, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2022. *Clinical Pathology*. 15: 1–10.
 111. Spreading of monkeypox in non-endemic countries has created panic across the world: Could it be another threat? Md. Rabiul Islam*, Md. Asaduzzaman, Mohammad Shahriar and Mohiuddin Ahmed Bhuiyan. 2022. *Journal of Medical Virology*. 2022: 1-3.
 110. Evaluation of dissolution behavior of cefuroxime axetil as affected by polymeric interaction using mixture design experiment. Khandokar Sadique Faisal, Mohiuddin Ahmed Bhuiyan and Md. Elias Al-Mamun*. 2022. *Dhaka University Journal of Pharmaceutical Sciences*. 20(3): 317-324.
 109. Molecular docking and in silico evaluation of phytochemicals of bioactive methanolic extract of *Ipomoea mauritiana* Jacq. as anti-bacterial agents. Miah Roney, Mohd Fadhlizil Fasihi Mohd Aluwi*, Fuad Laman, Mohiuddin Ahmed Bhuiyan and AKM Moyeenul Huq*. 2022. *Journal of Computational Biophysics and Chemistry*. 21(5): 499-513.
 108. Increased serum resistin but not G-CSF levels are associated in the pathophysiology of major depressive disorder: Findings from a case-control study. Smaranika Rahman, Amena Alam Shanta, Sohel Daria, Zabun Nahar, Mohammad Shahriar, MMA Shalahuddin Qusar, Sardar Mohammad Ashrafur Islam, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2022. *Plos One*. 17(2): e0264404.
 107. Monocyte chemoattractant protein-1 levels are associated with major depressive disorder. Maliha Afrin Proma, Sohel Daria, Zabun Nahar, Sardar Mohammad

- Ashraful Islam, Mohiuddin Ahmed Bhuiyan and Md Rabiul Islam*. *Journal of Basic Physiology and Pharmacology*. 2022. 1-7.
106. A comprehensive analysis of selected medicines collected from private drug outlets of Dhaka city, Bangladesh in a simple random survey. Mohammad Sofiqur Rahman*, Naoko Yoshida*, Hirohito Tsuboi, James Regun Karmoker, Nadia Kabir, Simon Schaefermann, Yoshio Akimoto, Mohiuddin Ahmed Bhuiyan, Md. Selim Reza and Kazuko Kimura. 2022. *Scientific Reports*. 12: 234.

2021

105. The COVID-19 vaccination experience in Bangladesh: Findings from a cross-sectional study. Md. Rabiul Islam*, Moynul Hasan, Waheeda Nasreen, Md. Ismail Tushar and Mohiuddin Ahmed Bhuiyan. 2021. *International Journal of Immunopathology and Pharmacology*. 35: 1-13.
104. Detection of highly muted coronavirus variant Omicron (B.1.1.529) is triggering the alarm for South Asian countries: Associated risk factors and preventive actions. Sohel Daria, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2021. *Journal of Medical Virology*. 94(5): 1-2.
103. Dataset concerning the mental health of healthcare professionals during COVID-19 pandemic in Bangladesh. Md. Rabiul Islam*, Sumaiya Quaiyum, Sajuti Akter Pakhe, Md Azim Uddin Repon and Mohiuddin Ahmed Bhuiyan. 2021. *Data in Brief*. 39: 107506.
102. Hematological abnormalities and comorbidities are associated with COVID-19 severity among hospitalized patients: Experience from Bangladesh. Md. Ashrafur RahmanID, Yeasna Shanjana, Md. Ismail Tushar, Tarif Mahmud, Ghazi Muhammad Sayedur Rahman, Zahid Hossain Milan, Tamanna Sultana, Ali Mohammed Lutful Hoq Chowdhury, Mohiuddin Ahmed Bhuiyan, Md. Rabiul IslamID* and Hasan Mahmud Reza*. 2021. *Plos One*. 16(7): e0255379.
101. Mucormycosis or black fungus infection is a new scare in South Asian countries during the COVID-19 pandemic: Associated risk factors and preventive measures. Fahad Imtiaz Rahman, Md. Rabiul Islam* and Mohiuddin Ahmed Bhuiyan. 2021. *Journal of Medical Virology*. 93(12): 1-2.
100. Structure based pharmacophore modeling, virtual screening, molecular docking and ADMET approaches for identification of natural anti-cancer agents targeting XIAP protein. Firoz A. Dain Md Opo, Mohammed M. Rahman*, Foysal Ahammad, Istiak Ahmed, Mohiuddin Ahmed Bhuiyan and Abdullah M. Asiri. 2021. *Scientific Reports*. 11(1): 4049.
99. Lead toxicity: An overview of its pathophysiology and intervention strategies. Rokeya Parvin, Md. Akil Hossain, Dipti Debnath, Mohiuddin Ahmed Bhuiyan*.

2021. Chapter: 21, Edition: 1st, in book: *Metal Toxicology Handbook*, Publisher: CRC Press (Taylor & Francis Group), pp 354-372.
98. Higher levels of serum IL-1 β and TNF- α are associated with an increased probability of major depressive disorder. Rajesh Das, Md. Prova Zaman Emon, Mohammad Shahriar, Zabun Nahar, Sardar Mohammad Ashraful Islam, Mohiuddin Ahmed Bhuiyan, Sheikh Nazrul Islam and Md. Rabiul Islam*. 2021. *Psychiatry Research*. 295: 113568.

2020

97. Isolation and Identification of different compounds from *Citrus assamensis* leaf. Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan and Md. Sohel Rana. 2020. *Journal of Bangladesh Academy of Sciences*. 44(2): 85-93.
96. Evaluation of serum lysophosphatidic acid and lysophosphatidylcholine levels in major depressive disorder patients. Sumaia Riya, Sharmin Sultana, Sohel Daria, Maliha Afrin Proma, Mohiuddin Ahmed Bhuiyan, Md. Ahsanul Haque and Md. Rabiul Islam*. 2020. *Cureus*. 12(12): e12388.
95. Serum interferon-gamma level is associated with drug-naïve major depressive disorder. Sohel Daria, Maliha Afrin Proma, Mohammad Shahriar, Sardar Mohammad Ashraful Islam, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2020. *SAGE Open Medicine*. 8: 1-8.
94. Variants of SMAD1 gene increase the risk of colorectal cancer in the Bangladeshi population. Priyanka Florina Karmokar, Samia Shabnaz, Md. Abdul Aziz, Md. Asaduzzaman, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan, Abu Syed Md Mosaddek and Mohammad Safiqul Islam*. 2020. *Tumor Biology*. 2020(9): 1-9.
93. Genetic variation of RAD51 and XRCC2 genes increase the risk of colorectal cancer in Bangladeshi population. Anika Uddin Hridy, Samia Shabnaz, M d Asaduzzaman, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan, Mohammad Safiqul Islam, S M Moazzem Hossen, Talha Bin Emran*. *Asian Pacific Journal of Cancer Prevention*. 21: 1445-1451.
92. Serum insulin-like growth factor-1 and relaxin-3 are linked with major depressive disorder. Samia Ali, Zabun Nahan, Rajibur Rahman, Sardar Mohammad Ashraful Islam, Mohiuddin Ahmed Bhuiyan, Md. Rabiul Islam*. 2020. *Asian Journal of Psychiatry*. 53: 102164.
91. Altered serum interleukin-7 and interleukin-10 are associated with drug-free major depressive disorder. Sadia Anjum, M. M. A. Shalahuddin Qusar, Mohammad Shahriar, Sardar Mohammad Ashraful Islam, Mohiuddin Ahmed Bhuiyan and Md. Rabiul Islam*. 2020. *Therapeutic Advances in Psychopharmacology*. 10: 1-11.

90. Reduced serum BDNF levels are associated with the increased risk for developing MDD: A case-control study with or without antidepressant therapy. Md. Prova Zaman Emon, Rajesh Das, Nuruna Lovely Nishuty, M. M. A. Shalahuddin Qusar, Mohiuddin Ahmed Bhuiyan, Md. Rabiul Islam*. 2020. *BMC Research Notes*. 13(83): 1-6.

2019

89. Association of ORAI1 genetic polymorphism with serum calcium and phosphorus levels in non-dialysis chronic kidney disease patients: A case-control study. Isirat Jahan, Salma Ahmed, Md. Rabiul Islam*, Abu Noim Md. Abdul Hai, Mohammad Faijul Islam, Mohiuddin Ahmed Bhuiyan, Zabun Nahar. 2019. *Cureus*. 11(4): e4564.
88. Level of stress, predisposing factors and status of mental health among pharmacy students of a private university of Dhaka, Bangladesh: A cross sectional study. A. H. M. Nazmul Hasan*, Md. Anzam Ul Islam, Smaranika Rahman, Zobaida Mostarin Nishi, Md. Jakir Hossain, Md. Zobayer Hossain Gorapi, Farhan Jamil, Md. Abu Sufian, Zabun Nahar, Kaniy Nahar Deepa, Md. Hamiduzzaman, Md. Asaduzzaman, Mohiuddin Ahmed Bhuiyan. 2019. *Health*. 11: 222-232.
87. Therapeutic treatment for controlling childhood obesity. Md. Akil Hossain, Rokeya Pervin, Dipti Debnath, Mohiuddin Ahmed Bhuiyan*. 2019. Chapter: 30, Edition: 2nd, in book: *Global Perspectives on Childhood Obesity*, Publisher: ELSEVIER Academic Press, pp 377-386.

2018

86. Exploration of anti-diabetic, anti-diarrheal, gastrointestinal motility and acute toxicity of different extracts of *Citrus assamensis* Leaf. Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan, Md. Sohel Rana. 2018. *Journal of Bangladesh Academy of Science*. 42(2): 111-120.
85. Study of antinociceptive, antipyretic and neuropharmacological activities of leaf extracts of *Citrus assamensis*. Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan, Md. Sohel Rana. 2018. *Bangladesh Pharmaceutical Journal*. 21(2): 87-95.
84. Characterization of phytoconstituents and exploration of antioxidant and free radical scavenging activities of *Citrus assamensis* leaf. Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan*, Md. Sohel Rana. 2018. *Dhaka University Journal of Pharmaceutical Sciences*. 17(1): 29-36.

83. Screening of antibacterial, thrombolytic, membrane stabilizing, anti-inflammatory and antitumor activity of *Citrus assamensis* leaf extracts. Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan, Md. Sohel Rana. 2018. *Journal of Scientific Research*. 10(2): 195-210.

2017

82. Formulation and in vitro evaluation of unfolding type expandable gastroretentive film of enalapril maleate. Md Bashir Ullah, Md Rezaul Karim, Md Shamsul Alam, Md Rajib Hassan, Mohiuddin Ahmed Bhuiyan*, Md Sohel Rana. 2017. *Bangladesh Pharmaceutical Journal*. 20(2): 148-156.
81. Exploration of in vitro antioxidant, thrombolytic activity, neuropharmacological and anti-pyretic activity of leaf extracts of *Hoya parasitica* (Wall). Nusrat Jahan Eshita, Sajan Das, Rumana Akhter, Sumaiya Haque, Mohiuddin Ahmed Bhuiyan, Mohammad Shahriar*. 2017. *International Journal of Current Advanced Research*. 6(5): 3776-3782.

2016

80. Formulation and in vitro evaluation of oral floating tablets of sulbutamol sulphate: Comparison with effervescent tablets. Md Haider Ali, Mohiuddin Ahmed Bhuiyan, Md Selim Reza, Samira Karim*. 2016. *Dhaka University Journal of Pharmaceutical Sciences*. 15(2): 203-208.
79. Impact analysis of inclusion complexation on micromeritic properties and dissolution behavior of carvedilol. Khandaker Sagir Ahmed, Md Abdullah Al Masum, Sabiha Sultana, Mohiuddin Ahmed Bhuiyan*, Md Selim Reza. 2016. *Journal of Applied Pharmaceutical Science*. 6(7): 106-114.
78. The effect of chronic alprazolam intake on memory, attention, and psychomotor performance in healthy human male volunteer. Zahid Sadek Chowdhury, Mohammed Monjur Morshed, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan, Sardar Mohd Ashrafur Islam, Muhammad Shahdaat Bin Sayeed*. 2016. *Behavioural Neurology*. 2016(8): 1-9.
77. Formulation and in vitro evaluation of modified pulsincap of amlodipine besylate: an improved approach for the treatment of hypertension. Sharmin Jahan Chisty, Sumaiya Mehjabin Tosha, Ashima Aziz, Mohiuddin Ahmed Bhuiyan*. 2016. *Turkish Journal of Pharmaceutical Sciences*. 13(1): 81-90.

76. Formulation and in vitro evaluation of aspirin sustained release tablets using hydrophilic polymer. Samira Karim, Farzana Hossain, Jalal Uddin, Mohiuddin Ahmed Bhuiyan, Md Harun-Or-Rashid*. 2016. *World Journal of Science and Engineering*, 3(3): 39-45.

2015

75. Cognitive impact after short-term exposure to different proton pump inhibitors: assessment using CANTAB software. Sanjida Akter, Md Rajib Hassan, Mohammad Shahriar, Nahia Akter, Md Golam Abbas, Mohiuddin Ahmed Bhuiyan*. 2015. *Alzheimer's Research and Therapy*. 7(79): 1-12.
74. Unexpected differences in dissolution behavior of tablets prepared from fenofibrate solid dispersions and strongly enhanced dissolution rate, exclusively better than marketed products. Md. Zakaria Faruki*, Mohiuddin Ahmed Bhuiyan, Md Fakrul Alam, Rishikesh, Rehana Akter, AKM Mofasser Hossain. 2015. *European Journal of Biomedical and Pharmaceutical Sciences*. 2(6): 8-19.
73. Phytochemical screening, cupric reducing antioxidant activity (CUPRAC), nitric oxide scavenging assay, scavenging of hydrogen peroxide and reducing power capacity assessment of leaf extract of *Averrhoa bilimbi* (Family: Oxalidiaceae). Mohammad Moonem Mannan*, Mohiuddin Ahmed Bhuiyan, Mohammad Shahriar. Fariha Nowshin Ara Khan, Milton Kumar Kundu. 2015. *International Journal of Pharmacy*. 5(4): 1327-1332.
72. In vitro and in vivo biological investigations of the whole plant extracts of *Chrozophora prostrata* (Dalz.). Md Shawkatul Islam Bakhtiar, Rumana Akhter, Syeda Najah Narjish, Sharmin Jahan Chisty, Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan. 2015. *International Journal of Pharmacy*. 5(4): 1188-1195.
71. *Allium sativum* L improves visual memory and attention in healthy human volunteers. Sara Tasneem, Parsa Sanjana Haque, Md Sazzadul Bari, Md Monir Hossain, Sardar Mohd Ashrafur Islam, Mohammad Shahriar, mohiuddin Ahmed Bhuiyan, Muhammad Shahdaat Bin Sayeed*. 2015. *Evidence-based Complimentary and Alternative Medicine*. 2015: 1-8.
70. Biological investigations of the leaf extract of *Spondias pinnata*. Sonia Kamal, Rumana Akter, Nazma Akter Tithi, Md. Abdul Wadud, Syeda Najah Narjish, Mohammad Shahriar*. 2015. *International Journal of Pharmaceutical Sciences and Research*. 6(8): 3351-3358.
69. Formulation and in vitro evaluation of glimepiride sustained release tablets: comparison with immediate release tablets. Samira Karim, Mohiuddin Ahmed Bhuiyan, Md Sohel Rana*. 2015. *Bangladesh Pharmaceutical Journal*. 18(2): 157-162.
68. Design, formulation and in vitro evaluation of sustained release pulsatile capsule of metoprolol tartrate. Shamima Nasrin Shahee, Ashima Aziz, Mohiuddin Ahmed

- Bhuiyan*. 2015. *International Journal of Pharmaceutical Sciences and Research*. 6(7): 2755-2761.
67. Studies of preliminary phytochemical screening, membrane stabilizing activity, thrombolytic activity and in-vitro antioxidant activity of leaf extract of *Citrus hystrix*. Mohammad Ali, Rumana Akhter, Syeda Najah Narjish, Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan. 2015. *International Journal of Pharmaceutical Sciences and Research*. 6(6): 2367-2374.
 66. Evaluation of in vitro membrane stabilizing activity and thrombolytic activity of *Averrhoa bilimbi* leaf extracts. Md. Shawkatul Islam Bakhtiar, Mohammad Shahriar*, Rumana Akhter, Mohiuddin Ahmed Bhuiyan. 2015. *Annals of Biological Research*. 6(4): 19-26.
 65. In vivo pharmacological investigations of leaf extracts of *Paederia foetida* (L.). Md Abdul Wadud, Rumana Akhter, Sayeeda Fahmee Chowdhury, Syeda Najah Narjish, Md Mooneem Mannan, Muhammad Nasiruddin, Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan. 2015. *International Journal of Pharmaceutical Sciences Review and Research*. 31(2):166-172.
 64. Evaluation of in vitro membrane stabilizing activity and thrombolytic activity of *Averrhoa bilimbi* leaf extracts. Mohammad Mooneem Mannan, Rumana Akhter, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan. 2015. *International Journal of Pharmacy*, 2015; 5(2): 357-360.
 63. Genomic DNA extraction methods: a comparative case study with gram-negative organisms. Sanjida Jahan, Sayeeda Fahmee Chowdhury, Shahida Akter Mitu, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan*. 2015. *Banat's Journal of Biotechnology*. 6(11): 61-68.
 62. Phytochemical and pharmacological investigation of the crude extract of *Typhonium trilobatum* (L.) Schott. Mohammad Shahriar*, Nazma Akter Tithi, Rumana Akhter, Sonia Kamal, Syeda Najah Narjish, Mohiuddin Ahmed Bhuiyan. 2015. *World Journal of Pharmaceutical Research*. 4(2):167-188.
 61. Development and in vitro evaluation of pulsatile drug delivery system of enalapril maleate. Sumaiya Mehjabin Tosha, Ashima Aziz, Sharmin Jahan Chisty, Md. Asaduzzaman, Mohiuddin Ahmed Bhuiyan*. 2015. *Bangladesh Pharmaceutical Journal*. 18(1): 66-71.
 60. In vivo anti-pyretic, anti-nociceptive, neuropharmacological activities and acute toxicity investigations of *Blumea lacera*. Farzana Akhter Fancy, Mohammad Shahriar*, Md Reazul Islam, Mohiuddin Ahmed Bhuiyan. 2015. *International Journal of Pharmacy and Pharmaceutical Sciences*. 7(1): 472-477.

2014

59. Antimicrobial resistance pattern of bacteria isolated from ICU patients with respiratory tract infections. Layla Jafrin Soma, Mohammad Shahriar*, Syeda

- Najah Narjish, Mohiuddin Ahmed Bhuiyan. 2014. *Dhaka University Journal of Pharmaceutical Sciences*. 13(2): 193-197.
58. Preparation, characterization and *in vitro* - *in vivo* evaluation of gliclazide loaded polymeric microspheres. Mohammad Sofiqur Rahman, Amit Kumar Chaurasiya, Sazia Afreen Rahee, Ikramul Hasan, Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan, Md. Selim Reza. 2014. *International Journal of Pharmacy*. 4(4):189-198.
57. Design, formulation development and solubility enhancement of fenofibrate, a water insoluble drug by solid dispersion technique. Md. Zakaria Faruki*, Elizabeth Razzaque, Rishikesh, Rehana Akhter, Mohiuddin Ahmed Bhuiyan. 2014. *World Journal of Pharmaceutical Research*. 3(6): 1801-1814.
56. Identification of plasmid DNA responsible for resistance in clinical isolates of *E. coli* against specific antibiotics. Sayeeda Fahmee Chowdhury, Sanjida Jahan, Mohiuddin Ahmed Bhuiyan, Mohammad Shahriar*. 2014. *International Journal of Pharmacology and Technology*. 6(1): 61-68.
55. Bilayered tablet technology: An overview. Rishikesh Ghosh*, Md Anwarul Haque, Tripti Rani Paul, Mohiuddin Ahmed Bhuiyan, Irin Dewan. 2014. *World Journal of Pharmaceutical Research*. 3(4):150-163.
54. In vivo pharmacological investigations of bark extracts of *Carissa carandas*. Fariha Alam, Mohammad Shahriar* and Mohiuddin Ahmed Bhuiyan. 2014. *International Journal of Pharmacy and Pharmaceutical Sciences*. 6(6): 180-185.
53. In-vitro antioxidant activities and in vivo anti-nociceptive and neuropharmacological activities of *Mimosa pudica*. Tanjida Ahmed, Rumana Akter, Shahjabeen Sharif, Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan. 2014. *International Journal of Pharmacy*. 4(2): 70-78.
52. Phytochemical screenings, thrombolytic activity, membrane stabilizing activity and cytotoxic properties of *Polygonum hydropiper*. Shahjabeen Sharif, Tanjida Ahmed, Md. Aminul Hoque, Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar*. 2014. *Research Journal of Medicinal Plant*. 2014; 8(2): 92-98.
51. Phytochemical screenings, membrane stabilizing activity, thrombolytic activity and cytotoxic properties of leaf extracts of *Mimosa pudica*. Mohammad Shahriar*, Tanjida Ahmed, Shahjabeen Sharif, Rumana Akter and Mohiuddin Ahmed Bhuiyan. 2014. *International Journal of Pharmacy*. 4(2): 155-158.
50. In vivo pharmacological investigation of *Mimosa pudica* L. Uddipon Aziz, Rumana Akther, Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan. 2014. *International Journal of Pharmacy and Pharmaceutical Sciences*. 6(2): 66-69.

2013

49. In-vitro antioxidant activities, anti-nociceptive and neuropharmacological activities of *Polygonum hydropiper*. Shahjabeen Sharif, Mohammad Shahriar*,

- Md. Aminul Haque, Zahid Sadek Chowdhury, Md. Reazul Islam and Mohiuddin Ahmed Bhuiyan. 2013. *Journal of Biology, Agriculture and Healthcare*. 3(19): 61-71.
48. In-vivo pharmacological investigation of leaf extract of *Polygonum hydropiper* (L.). Rumana Akther, Md. Aminul Haque, Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar*. 2013. *Dhaka University Journal of Pharmaceutical Sciences*. 12(2): 165-169.
47. Solubility enhancement of an inadequately water soluble drug (ketorolac tromethamine) by using different vehicles. Md. Zakaria Faruki*, A K M Mofasser Hossain, Mithilesh Kumar Jha, A.K.M. Badrul Hasan, Rishikesh, Elizabeth Razzaque and Mohiuddin Ahmed Bhuiyan. 2013. *Innovations in Pharmaceuticals and Pharmacotherapy*. 1 (3), 162-171.
46. Improvement of fast disintegrating tablets using ranitidine HCl. Rishikesh*, Mst Rikta Banu, Md. Zakaria Faruki, Drishti Rani Ghosh, Mohiuddin Ahmed Bhuiyan, Irin Dewan. 2013. *Journal of Drug Discovery and Therapeutics*. 1(7): 42-45.
45. Effect of PEG molecular weight on solubility and release criteria of carvedilol from prepared solid dispersions. Khandaker Sagir Ahmed, Md. Abdullah Al Masum, Sabiha Sultana, Md. Selim Reza, Mohiuddin Ahmed Bhuiyan*. 2013. *European Journal of Scientific Research*. 105(3): 402-413.
44. Evaluation of bactericidal action of serum collected from paratyphoid patients and normal human against *Salmonella paratyphi*. Md. Chhanaur Rabbee, Mohammad Shahriar, Mohiuddin Ahmed Bhuyian*, Rishikesh and Md. Asraful Islam. 2013. *Dhaka University Journal of Pharmaceutical Sciences*. 12(1): 71-75.
43. Preliminary in vitro biological, phytochemical screenings and in vitro antioxidant activities of *Blumea lacera* (Burm.f.) DC. Amrita Rahman, Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar*. 2013. *International Archive of Applied Sciences and Technology*. 4(2): 1-7.
42. Effect of superdisintegrants and method of preparation on disintegration time and release profile of carbamazepine from immediate release tablet. Mehrina Nazmi, SM Ashraful Islam, Mohiuddin Ahmed Bhuiyan and Md. Selim Reza*. 2013. *Journal of Applied Pharmaceutical Sciences*. 3(5): 80-84.
41. Effect of SDS on plasmid isolation and antimicrobial resistance pattern of clinical isolates of *Staphylococcus Aureus*. Yakut-Binte-Sadek, Mohammad Shahriar, Waheeda Nasreen, Mahboob Hossain, Mohiuddin Ahmed Bhuiyan*. 2013. *European Journal of Scientific Research*. 102(1): 30-35.
40. Improvement of solubility of badly water soluble drug (ibuprofen) by using surfactants and carriers. Md. Zakaria Faruki*, Rishikesh, Elizabeth Razzaque, Mohiuddin Ahmed Bhuiyan. 2013. *International Journal of Pharmaceutical Sciences and Research*. 4(4):1569-1574.

39. Contemporary approaches for bi-layer technology of drugs through oral route: an overview. Rishikesh*, Mohiuddin Ahmed Bhuiyan, SM Ashraf Islam, Irin Dewan, Md. Asraf Islam, Md. Sium-UI Hossain Miah. 2013. *International Journal of Pharmaceutical Sciences and Research*. 4(4): 1326-1334.
38. In vitro antioxidant and free radical scavenging activity of *Withania somnifera* root. Mohammad Shahriar*, Md. Ismail Hossain, Farzana Anwar Sharmin, Sadika Akhter, Md. Aminul Haque and Mohiuddin Ahmed Bhuiyan. 2013. *IOSR Journal of Pharmacy*. 3(2): 38-47.
37. Development and in vitro evaluation of floating drug delivery system of verapamil HCl. Syeda Amina Toufique, Md. Abdullah Al Masum, Florida Sharmin, Sabiha Sultana, Md. Selim Reza and Mohiuddin Ahmed Bhuiyan*. 2013. *International Journal of Pharmaceutical Sciences and Research*. 4(2): 720-726.
36. Binding affinity of candesartan, losartan, telmisartan and valsartan with angiotensin II receptor 1 subtype. Mohiuddin Ahmed Bhuiyan*, Mohammad Shahriar and Takafumi Nagatomo. 2013. *Bangladesh Pharmaceutical Journal*. 16(1): 11-14.

2012

35. Mechanism of inverse agonist action of sarpogrelate at the constitutively active mutant of 5-HT_{2A} receptor revealed by molecular modeling. Murad Hossain, Habib Abul Muntasir, Masaji Ishiguro*, Mohiuddin Ahmed Bhuiyan. Mamunur Rashid, Takumichi Sugihara, Takashi Nakamura, and Takafumi Nagatomo. 2012. *Biological and Pharmaceutical Bulletin*. 35(9): 1553-1559.
34. Vancomycin sensitivity of clinical isolates of *Staphylococcus aureus* from patients in Dhaka city, Bangladesh. Mohammad Shahriar*, Sanjida Shahid, Khusbu Khalil Katha, Waheeda Nasreen and Mohiuddin Ahmed Bhuiyan. 2012. *Bangladesh Pharmaceutical Journal*. 15(2): 159-163.
33. Phytochemical screening, antibacterial, antioxidant and cytotoxic activity of the bark extract of *Terminalia arjuna*. Sadika Akhter, Md. Ismail Hossain, Md. Aminul Haque, Mohammad Shahriar and Mohiuddin Ahmed Bhuiyan*. 2012. *European Journal of Scientific Research*. 86 (4): 543-552.
32. Immediate release drug delivery system (tablets): an overview. Rishikesh*, Mohiuddin Ahmed Bhuiyan, Irin Dewan, Drishti Rani Ghosh and Md. Asraf Islam. 2012. *International Research Journal of Pharmaceutical and Applied Sciences*. 2(5): 88-94.
31. Investigation of analgesic and neuropharmacological activities of *Asparagus racemosus* root extracts. Robin Kumar Aich, Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar. 2012. *Indian Journal of Scientific Research*. 3(2):1-7.

30. Evaluation of in-vitro antioxidant activity of bark extracts of *Terminalia arjuna*. Mohammad Shahriar*, Sadika Akhter, Md. Ismail Hossain, Md. Aminul Haque and Mohiuddin Ahmed Bhuiyan. 2012. *Journal of Medicinal Plants Research*. 6(39): 5286-5298.
29. Investigation of cytotoxicity and In-vitro antioxidant activity of *Asparagus racemosus* root extract. Md. Ismail Hossain, Farzana Anwar Sharmin, Sadika Akhter, Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar*. 2012. *International Current Pharmaceutical Journal*. 1(9): 250-257.
28. Effect of sodium dodecyl sulfate and acridine orange on isolation of plasmid and antimicrobial resistance pattern of clinical isolates of *Klebsiella sp.* Mohammad Shahriar*, Shumaila Mawla, S.M. Ashraful Islam, and Mohiuddin Ahmed Bhuiyan. 2012. *Journal of Scientific Research*. 4(2): 499-505.
27. Preliminary phytochemical screening, in-vitro antioxidant and cytotoxic activity of five different extracts of *Moringa oleifera* leaf. Mohammad Shahriar*, Md. Ismail Hossain, Abu Nizam Md Bahar, Sadika Akhter, Md. Aminul Haque and Mohiuddin Ahmed Bhuiyan. 2012. *Journal of Applied Pharmaceutical Science*. 2 (5): 65-68.
26. Studies to improve dissolution properties of poorly soluble carbamazepine by solid dispersion. Md. Aminul Haque, Md. Faizul Hasan, Irin Dewan, S.M. Ashraful Islam and Mohiuddin Ahmed Bhuiyan*. 2012. *Bangladesh Pharmaceutical Journal*. 15(1): 73-77.
25. Preliminary phytochemical screening, in-vitro antioxidant and cytotoxic activity of five different extracts of *Withania somnifera* root. Mohammad Shahriar*, Abu Nizam Md Bahar, Md. Ismail Hossain, Sadika Akhter, Md. Aminul Haque and Mohiuddin Ahmed Bhuiyan. 2012. *International Journal of Pharmacy*. 2 (3): 450-453.

2011

24. Effect of proteinase-k on genomic DNA extraction from gram-positive strains. Mohammad Shahriar*, Md. Rashidul Haque, Shaila Kabir, Irin Dewan and Mohiuddin Ahmed Bhuyian. 2011. *Stamford Journal of Pharmaceutical Sciences*. 4(1): 53-57.

2010

23. Assessment of homologous internalization of constitutively active N111G mutant of AT₁ receptor. Mohiuddin Ahmed Bhuiyan and Takafumi Nagatomo*. 2010. Chapter: 9, Volume: 484(A), Constitutive activity and inverse agonism, in book: *Methods in Enzymology*, Publisher: ELSEVIER Academic Press, pp 165-177.

22. Effect of site-directed mutagenesis in some important amino acids of AT₁ receptor on the binding affinity of the agonist and antagonists. Mohiuddin Ahmed Bhuiyan, Murad Hossain, and Takafumi Nagatomo*. 2010. *Journal of Pharmacometrics*. 78(3/4): 51-58.
21. Selectivity of valsartan to the human angiotensin II type one receptors as assessed by binding affinity, functional activity and molecular modeling. Mohiuddin Ahmed Bhuiyan, Murad Hossain, Masamoto Watanabe, and Takafumi Nagatomo*. 2010. *Journal of Pharmacometrics*. 78(1/2): 11-20.
20. Pharmacological and molecular studies for the regulation of β_1 -adrenergic receptors that reveals activation and inactivation. Murad Hossain, Mohiuddin Ahmed Bhuiyan and Takafumi Nagatomo*. 2010. *Journal of Pharmacometrics*. 78 (1/2): 1-9.
19. Engineered mutation of some important amino acids in angiotensin II type 1 (AT₁) receptor causes increase in binding affinity of AT₁ receptor antagonists. Mohiuddin Ahmed Bhuiyan, Murad Hossain, Masaji Ishiguro, Takashi Nakamura and Takafumi Nagatomo*. 2010. *Journal of Pharmacological Sciences*. 113 (1): 57-65.
18. Internalization of constitutively active N111G mutant of AT₁ receptor induced by angiotensin II receptor antagonists candesartan, losartan, and telmisartan: comparison with valsartan. Mohiuddin Ahmed Bhuiyan, Murad Hossain, Takashi Nakamura, Masanobu Ozaki and Takafumi Nagatomo*. 2010. *Journal of Pharmacological Sciences*. 112(4): 459-462.

2009

17. Constitutively active mutant N111G of AT₁ receptor induces homologous internalization through mediation of AT₁ receptor antagonist. Mohiuddin Ahmed Bhuiyan, Murad Hossain, Shin-ichiro Miura, Takashi Nakamura, Masanobu Ozaki and Takafumi Nagatomo*. 2009. *Journal of Pharmacological Sciences*. 111(3): 227-234.
16. Assessment of binding affinity to 5-hydroxytryptamine 2A (5-HT_{2A}) receptor and inverse agonist activity of naftidrofuryl: comparison with those of sarpogrelate. Saida Abdel Regal Aly, Murad Hossain, Mohiuddin Ahmed Bhuiyan, Takashi Nakamura and Takafumi Nagatomo*. 2009. *Journal of Pharmacological Sciences*. 110(4): 445-450.
15. Mutagenesis of important amino acid reveals unconventional homologous internalization of β_1 -adrenergic receptor. Murad Hossain, Mamunr Rashid, Mohiuddin Ahmed Bhuiyan, Takashi Nakamura, Masanobu Ozaki and Takafumi Nagatomo*. 2009. *Life Sciences*. 85(7-8): 339-344.
14. Binding sites of valsartan, candesartan and losartan with angiotensin II Receptor 1 subtype by molecular modeling. Mohiuddin Ahmed Bhuiyan, Masagi Ishiguro*,

Murad Hossain, Takashi Nakamura, Masatomo Ozaki, Shin-ichiro Miura and Takafumi Nagatomo. 2009. *Life Sciences*. 85(3-4): 136-140.

2008

13. Mutation of important amino acid residue of Asp104Lys in human β_1 -adrenergic receptor triggers functional and constitutive inactivation. Murad Hossain, Maruf Ahmed, Mohiuddin Ahmed Bhuiyan, Masagi Ishiguro, Takashi Nakamura, Masatomo Ozaki, Shin-ichiro Miura and Takafumi Nagatomo*. 2008. *Biological and Pharmaceutical Bulletin*. 31(8): 1517-1522.
12. Mutational analysis of the α_{1a} -adrenergic receptor binding pocket of antagonists by radioligand binding assay. Maruf Ahmed, Murad Hossain, Mohiuddin Ahmed Bhuiyan, Masagi Ishiguro, Takashi Tanaka, Ikunobu Muramatsu and Takafumi Nagatomo*. 2008. *Biological and Pharmaceutical Bulletin*. 31(4): 598-601.
11. Amino acids of the human α_{1d} -adrenergic receptor involved in antagonist binding. Yuko Nagaoka, Maruf Ahmed, Murad Hossain, Mohiuddin Ahmed Bhuiyan, Masagi Ishiguro, Masatomo Watanabe and Takafumi Nagatomo*. 2008. *Journal of Pharmacological Sciences*. 106 (1): 114-120.

2007

10. Asp125 and Thr130 in transmembrane domain 3 are major sites of α_{1b} -adrenergic receptor antagonist binding. Kazuya Takahashi, Maruf Ahmed, Mohiuddin Ahmed Bhuiyan, Murad Hossain, Toshio Ohnuki and Takafumi Nagatomo*. 2007. *Biological and Pharmaceutical Bulletin*. 30(10): 1891-1894.
9. Selectivity of sarpogrelate to the recombinant human 5-HT_{2A} receptors as assessed by molecular pharmacology and molecular modeling. Habib Abul Muntasir, Mohiuddin Ahmed Bhuiyan, Murad Hossain, Tadazumi Komiyama, Takashi Nakamura, Masanobu Ozaki and Takafumi Nagatomo*. 2007. *Journal of Pharmacometrics*. 72 (3/4): 39-49.
8. Identification of a key amino acid of the human 5-HT_{2B} serotonin receptor important for sarpogrelate binding. Habib Abul Muntasir, Murad Hossain, Mohiuddin Ahmed Bhuiyan, Tadazumi Komiyama, Takashi Nakamura, Masanobu Ozaki and Takafumi Nagatomo*. 2007. *Journal of Pharmacological Sciences*. 104: 274-277.

2006

7. Inverse agonist activity of sarpogrelate, a selective 5-HT_{2A}-receptor antagonist, at the constitutively active human 5-HT_{2A} receptor. Habib Abul Muntasir, Mohiuddin Ahmed Bhuiyan, Masagi Ishiguro, Masanobu Ozaki and Takafumi Nagatomo*. 2006. *Journal Pharmacological Sciences*. 102(2): 189-195.

2003

6. Controlled-release drug delivery system based on hydroxy-propylmethylcellulose: in vitro drug release and kinetic approach. Mohiuddin Abdul Quadir, Samir Ranjan Sarker, S M Ashraful Islam, Mohiuddin Ahmed Bhuiyan and Md. Selim Reza*. 2003. *Dhaka University Journal of Pharmaceutical Sciences*. 2(1): 9-17.

2002

5. In vitro release profile of diclofenac sodium from polymeric matrix granules. Md. Selim Reza*, Mohiuddin Abdul Quadir, Milan Mahboob, A.K.M. Rashedul Mamur, M.M.A. Reza and Mohiuddin Ahmed Bhuiyan. 2002. *Dhaka University Journal of Pharmaceutical Sciences* 1(1-2): 35-41.
4. Comparative evaluation of wet granulation and direct compression methods for preparation of compressed tablets using avicel pH 101. M.M.A. Reza, Mohiuddin Ahmed Bhuiyan* and Mohiuddin Abdul Quadir. 2002. *Bangladesh Pharmaceutical Journal*. 12(4): 19-22.
3. Studies on the release pattern of theophylline microcapsules from the market and formulation of cost effective similar product using wax matrix. Faisal Ahmed, Md. Selim Reza*, Jesmin Sultana, Mohiuddin Ahmed Bhuiyan and Swarnali Islam. 2002. *Journal of Asiatic Society of Bangladesh*. 28(1): 83-90.
2. Preparation and characterization of theophylline loaded polymeric films based on kollidone SR. Md. Shariful Islam, Bidyut Kumar Paul, Mohiuddin Ahmed Bhuiyan, Mohiuddin Abdul Quadir and Md. Selim Reza*. 2002. *Bangladesh Pharmaceutical Journal*. 12(2): 26-31.
1. Status of diclofenac sodium microcapsules in bangladesh: studies on drug loading, particle size and dissolution profile. Md. Selim Reza*, Syed Shabbir Haider, Shila Sarker, A.K.M. Rashedul Mamur, Jesmin Sultana, Mohiuddin Abdul Quadir and Mohiuddin Ahmed Bhuiyan. 2002. *Bangladesh Pharmaceutical Journal*. 12(1): 37-41.

BOOKS:

1. Phytochemical investigations of root extracts of *Asparagus racemosus*. Mohammad Shahriar*, Mohiuddin Ahmed Bhuiyan and Farzana Anwar Sharmin. 2013. *LAP LAMBERT Academic Publishing*, Germany. ISBN: 978-3-659-17654-8.
2. Evaluation of carbopol and methocel loaded verapamil HCl floating tablet. Mohiuddin Ahmed Bhuiyan*, Syeda Amina Toufique, Md. Selim Reza. 2013. *LAP LAMBERT Academic Publishing*, Germany. ISBN: 978-3-659-37932-1.
3. Analgesic and neuropharmacological activity of asparagus root extracts. Mohiuddin Ahmed Bhuiyan*, Mohammad Shahriar, Robin Kumar Aich. 2013. *LAP LAMBERT Academic Publishing*, Germany. ISBN: 978-3-659-37938-3.

CONFERENCES:

1. Pharmacy education and trends of pharmacy related publications in Bangladesh: An experience based on Scopus indexed journals. Md. Robin Khan and ●Mohiuddin Ahmed Bhuiyan. Oral presentation in the 2nd International Conference: Pharmaceutical Sciences, Pharmacy Practice and Traditional Medicines on 10-11 February, 2023 at University of Dhaka, Dhaka, Bangladesh (Abstract published).
2. Formulation and in vitro evaluation of unfolding type gastro retentive film of losartan potassium based on cellulose polymers. ●Mohiuddin Ahmed Bhuiyan, Md. Rezaul Karim. Oral presentation in the *BCSIR Congress 2022* on 1-3 December 2022 at BCSIR campus, Dhaka, Bangladesh (Abstract published).
3. Altered peripheral IGF-1 and RLN-3 levels are associated with the increased risk for developing major depression. ●Sohel Daria, Md. Rabiul Islam, Mohammad Shahriar, Mohiuddin Ahmed Bhuiyan. Poster Presentation in the *2nd International Conference on Genomics, Nanotech & Bioengineering* on 26-28 June 2022 at North South University, Dhaka, Bangladesh (Abstract published).
4. Leaf extracts of *Citrus assamensis* show significant antinociceptive, antipyretic and neuropharmacological activities. ●Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar. Oral presentation in the *BCSIR Congress 2019* on 12-14 December 2019 at BCSIR campus, Dhaka, Bangladesh (Abstract published).
5. Research activities of Department of Pharmacy, UAP. ●Mohiuddin Ahmed Bhuiyan. Oral presentation in the *International Symposium of Medical Faculty, National University of Malaysia* on March 14, 2018 in UKM Medical Center, Kuala Lumpur, Malaysia.
6. Antioxidant and free radical scavenging activities of *Citrus assamensis* leaf extracts: synchronization with phytoconstituents. ●Mohiuddin Ahmed Bhuiyan and Mohammad Shahriar. Oral presentation in the *18th International Congress of ISE and 5th International Congress of SFE, India* on January 13-15, 2018 in Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka, Bangladesh (Abstract published).
7. Exploration of in vitro and in vivo biological activities of the leaf extracts of *Spondia pinnata*. ●Mohiuddin Ahmed Bhuiyan, Sonia Kamal, Mohammad Shahriar and Zobayer Hossain Gorapi. Poster presentation in the *4th Convention of Society for Ethnopharmacology, India* on September 9-10, 2017 in Jadavpur University, Kolkata, India (Abstract published).
8. Participated the *ISE SFEC National Conference 2017. Drug Discovery and Development from Natural Sources* on May 21, 2017 in Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka, Bangladesh.

9. Attended the *International Conference on Genomics, Nanotech & Bioengineering* (ICGNB 2017) on May 14-16, 2017 in North South University, Dhaka, Bangladesh.
10. Angiotensin II receptor antagonists induce homologous internalization in constitutively active mutant N111G of AT₁ receptor. ●Mohiuddin Ahmed Bhuiyan, Murad Hossain and Takafumi Nagatomo. Oral presentation in the 60th *Conference of Japanese Pharmacological Society* on September 27, 2009 in Toyama, Japan, abstract published (B-II-1).
11. Binding and functional analysis of candesartan in angiotensin II type 1 (AT₁) receptor and comparison of inverse agonist activity with other AT₁ antagonists. ●Takafumi Nagatomo and Mohiuddin Ahmed Bhuiyan. Oral presentation in the *Symposium of Takeda Chemical Industries Ltd.* on September 11, 2009 in Niigata.
12. Identification of binding sites of valsartan, candesartan and losartan with angiotensin II receptor 1 subtype by molecular modeling. ●Mohiuddin Ahmed Bhuiyan, Masagi Ishiguro, Murad Hossain, Saida Abdel Regal Aly and Takafumi Nagatomo. Oral presentation in the *First International Conference of Biological Science* on March 4-5, 2009 in Assiut University, Assiut Egypt (Abstract published).
13. Evaluation of binding affinity and functional potency of naftidofuryl to human recombinant 5-HT_{2A} receptor: Comparison with sarpogrelate. ●Murad Hossain, Mohiuddin Ahmed Bhuiyan, Saida Abdel Regal Aly, Suzuki Shoe and Takafumi Nagatomo. Oral presentation in the 14th *Serotonin Conference* on February 7, 2009, in Tokyo, Japan, full paper and abstract published (I-1).
14. Assessment of valsartan for binding affinity and functional potency towards angiotensin II type 1 (AT₁) receptors. ●Mohiuddin Ahmed Bhuiyan, Murad Hossain, Saida Abdel Regal Aly, Masagi Ishiguro, Shin-ichiro Miura and Takafumi Nagatomo. Oral presentation in the 59th *Conference of Japanese Pharmacological Society* on September 27, 2008, in Sendai, Japan, abstract published (C-II-5).
15. Evaluation of mechanism of inverse agonist action of sarpogrelate by molecular modeling. Habib Abul Muntasir, Mohiuddin Ahmed Bhuiyan, Murad Hossain, and ●Takafumi Nagatomo. Oral presentation in the 13th *Serotonin Conference* on February 2, 2008, in Tokyo, Japan, abstract published (I-1).
16. Inverse agonism of β -blockers to a novel constitutive active mutant of β_1 -adrenergic receptors. ●Murad Hossain, Mohiuddin Ahmed Bhuiyan and Takafumi Nagatomo. Poster presentation in the 5th *International Symposium on Receptor Mechanisms, Signal Transduction and Drug Effects*. May 10-11, 2007, Shizuoka, Japan, abstract published (p 22).
17. Inverse agonist activity of several 5-HT_{2A} receptor antagonists at the constitutively active human 5-HT_{2A} receptor. ●Habib Abul Muntasir, Mohiuddin

Ahmed Bhuiyan, Murad Hossain, Jun Kawakami, Masaji Ishiguro, Tadazumi Komiyama and Takafumi Nagatomo. Oral presentation in the 34th *Symposium on Structure Activity Relationship*. November 14-15, 2006, Niigata, Japan, full paper and abstract published (KP07).

18. Pharmacological functions of a selective 5-HT_{2A} antagonist, sarpogrelate, at the constitutively active human 5-HT_{2A} receptor. ●Habib Abul Muntasir, Mohiuddin Ahmed Bhuiyan, Jun Kawakami and Takafumi Nagatomo. Oral presentation in the 50th *Japan Pharmaceutical Seminar*. October 14-15, 2006, Niigata, Japan, abstract published (III-1).