

Department of Pharmacy

I. Dr. AZM Ruhul Momen, Professor

1. Ligand-based virtual screening, consensus molecular docking, multi-target analysis & comprehensive ADMET profiling and molecular dynamics study for identifying noteworthy Tyrosine Kinase inhibitors
Arifur Rahman, Nazmul Hasan Naheed, Sabreena Chowdhury Raka, Nazmul Qais, and **AZM Ruhul Momen**
Oriental Pharmacy and Experimental Medicine 20(2) 1-17 (2019)
2. *In silico* discovery of noteworthy multi-targeted acetylcholinesterase inhibitors for the treatment of Alzheimer's disease
Sabreena Chowdhury Raka, Rahad Ahamed, Arifur Rahman, and **AZM Ruhul Momen**
Oriental Pharmacy and Experimental Medicine 20 1-16 (2019)
3. Chemometric Modeling, Molecular docking and *In-silico* Design of Proguanil Analogues as DHFR-TS Inhibitors to Treat Malaria Effectively
Arifur Rahman, Md. Fakhrul Islam, Ajoy Kumar Bongshal, Sabreena Chowdhury Raka, **AZM Ruhul Momen**.
Pharmacologyonline 2, 243-254 (2018)
4. Validation and Application of Reversed Phase High Performance Liquid Chromatographic Method or Quantification of Pizotifen Malate in Pharmaceutical Solid Dosage Formulations
Mukidur Rahman, Abul Kalam Lutful Kabir, **AZM Ruhul Momen**, & Abu Shara Shumsur Rouf
Pak. J. Pharm. Sci., 23 (4), 435-441 (2010)
5. Development of Verapamil Hydrochloride Sustained Release Tablets from Methocel K 15M and Methocel K100 LV CR
Md. Zakir Hossain, Abul Kalam Lutful Kabir, **AZM Ruhul Momen**, Harum Or Rashid & Abu Shara Shamsur Rouf
Journal of Pharmacology 1(1), 47-55 (2009)
6. Solution structure of RUH-073, a Pseudo Chromo Domain from Human cDNA
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2EKO, Sept. 2007.
7. Solution structure of RUH-074, a human UBA domain
Kitasaka, S., **Ruhul Momen, A.Z.M.**, Hirota, H., Muto, Y., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2EKK, Sept. 2007.
8. Solution structure of RUH-075, a human CUE domain
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2EKF, Sept. 2007.
9. Solution structure of RUH-076, a human CUE domain
Ruhul Momen, A.Z.M., Kitasaka, S., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2EJS, Sept. 2007.
10. Solution structure of RUH-072, an apo- biotnyl domain form human acetyl coenzyme A carboxylase
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.

- Protein Data Bank, Japan, PDB id: 2EJM, Sept. 2007.
11. Solution Structure of RSGI RUH-064, a Chromo Domain from Human cDNA
Ruhul Momen, A.Z.M., Hirota, H., Izumi, K., Yoshida, M., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2DNT, Oct. 2006.
 12. Solution Structure of RSGI RUH-055, a Chromo Domain from Mus musculus cDNA
Ruhul Momen, A.Z.M., Hirota, H., Tomizawa, T., Koshiba, S., Kigawa, T., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2DNV, Oct. 2006.
 13. Solution Structure of RSGI RUH-058, a Lipoyl domain of human 2-oxoacid Dehydrogenase
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2DNE, Oct. 2006.
 14. Solution Structure of RSGI RUH-054, a Lipoyl domain from human 2-oxoacid Dehydrogenase
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Kurosaki, C., Yoshida, M., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2DNC, Oct. 2006.
 15. Solution Structure of RSGI RUH-056, a UBA domain from mouse cDNA
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2DNA, Oct. 2006.
 16. Solution Structure of RSGI RUH-053, an Apo-Biotin Carboxy Carrier Protein from Human Transcarboxylase
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2DN8, Oct. 2006.
 17. Solution structure of RUH-047, an FKBP domain from human cDNA
Ruhul Momen, A.Z.M., Hirota, H., Koshiba, S., Kigawa, T., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2D9F, 09 Jun. 2006.
 18. Solution Structure of RSGI RUH-045, a Human Acyl-CoA Binding Protein
Tsubota, Y., **Ruhul Momen, A.Z.M.**, Onuki, H., Hirota, H., Saito, K., Koshiba, S., Kigawa, T., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2CQU, 20 Nov. 2005.
 19. Solution structure of RSGI RUH-040, an ACBP domain from human cDNA
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2COP, 18 Nov. 2005.
 20. Solution structure of RSGI RUH-036, an SH3 domain from human cDNA
Ruhul Momen, A.Z.M., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2CRE, 20 Nov. 2005.
 21. Solution structure of RSGI RUH-034, a homeodomain from mouse cDNA
Ruhul Momen, A.Z.M., Onuki, H., Hirota, H., Tomizawa, T., Koshiba, S., Kigawa, T., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2CQX, 20 Nov. 2005.
 22. Solution structure of RSGI RUH-030, an *Ig* like domain from human cDNA
Ruhul Momen, A.Z.M., Onuki, H., Hirota, H., Hayashi, F., Yokoyama, S.: “
Protein Data Bank, Japan, PDB id: 2CPC, 19 Nov. 2005
 23. Solution structure of RSGI RUH-031, a UBA domain from human cDNA
Ruhul Momen, A.Z.M., Onuki, H., Hirota, H., Hayashi, F., Yokoyama, S.
Protein Data Bank, Japan, PDB id: 2CPW, 19 Nov. 2005
 24. Biosynthesis of structurally Novel Carotenoids in *Escherichia coli*
PyungCheon Lee, **A. Z. M. Ruhul Momen**, Benjamin N. Mijts, and Claudia Schmidt-Dannert

- Chemistry & Biology 10, 453-462 (2003)
25. Biosynthesis of violacein: Intact incorporation of the tryptophan molecule on the oxindole ring, with intramolecular rearrangement of the indole ring on the 5-hydroxyindole side
Momen Ruhul A. Z. M., and Hoshino T.
Biosci. Biotech. Biochem. 64(3), 539-549 (2000).
 26. Studies on the biosynthesis of violacein. Part 9. Green pigments possessing tetraindoleand dipyrromethane moieties, chromoviridans and deoxychromoviridans, produced by a cell-free extract of *Chromobacterium violaceum* and their biosynthetic origins
Momen Ruhul A. Z. M., Mizuoka T., and Hoshino T.
J. Chem. Soc., Perkin Trans 1, 3087-3092 (1998)
 27. Biosynthesis of violacein: Further studies by using labeled tryptophans
A. Z. M. Ruhul Momen and Tsutomu Hoshino.
Journal of the Agricultural Chemical Society of Japan, 72(sup), 257–266. (1998)

II. Dr. Mohammad Musarraff Hussain, Associate Professor

1. Enzyme-free detection of uric acid using hydrothermally prepared CuO.Fe₂O₃ nanocrystals
Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri
New J. Chemistry 44, 19581 – 19590 (2000)
2. Non-enzymatic simultaneous detection of acetylcholine and ascorbic acid using ZnO.CuO nanoleaves: Real sample analysis
Musarraff Hussain, Abdullah M. Asiri, Mohammed M. Rahman
Microchemical J. 159, 105534 (2000)
3. An enzyme free detection of L-Glutamic acid using deposited CuO.GdO nanospikes on a flat glassy carbon electrode
Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri, K.A. Alamry, M.A. Hasnat
Surfaces Interfaces 20, 100617 (2020)
4. Ataulpa A.C. Braga, Mohammed M. Rahman. A potent synthesis and supramolecular synthon hierarchy percipience of (E)-N'-(Naphthalen-1-yl-methylene)-benzenesulfonohydrazide and 1-Naphthaldehyde: A combined experimental and DFT studies
Muhammad Nadeem Arshad, **Mohammad Musarraff Hussain**, Abdullah M. Asiri, Muhammad Khalid
J. Molecular Structure 1221, 128797 (2020)
5. A non-enzymatic electrochemical approach for L-Lactic acid sensor development based on CuO.MWCNT nanocomposites modified with a nafion matrix
Mohammad Musarraff Hussain, Abdullah M. Asiri, Mohammed M. Rahman
New J. Chemistry 44, 9775 – 9787 (2020)
6. Simultaneous detection of L-aspartic acid and glycine using wet-chemically prepared Fe₃O₄@ZnO nanoparticles: real sample analysis
Mohammad Musarraff Hussain, Abdullah M. Asiri, Mohammed M. Rahman
RSC Adv. 10, 19276–19289 (2020)
7. Synthesis, characterization, and physicochemical studies of the synthesized dimethoxy-N'-(phenylsulfonyl)-benzenesulfonohydrazide derivatives and used as a probe for calcium ion capturing: Natural sample analysis

- Mohammad Musarraff Hussain**, Abdullah M. Asiri, Mohammed M. Rahman
J. Molecular Structure 1214, 128243 (2020).
8. Synthesis, characterization, and crystal structure of (*E*)-*N'*-(4-Bromobenzylidene)-benzenesulfonohydrazide and its application as a sensor of chromium ion detection from environmental samples
Mohammad Musarraff Hussain, Abdullah M. Asiri, Muhammad Nadeem Arshad, Mohammed M. Rahman
J. Molecular Structure 1207, 127810 (2020)
 9. The synthesis and application of (*E*)-*N*-(benzo[d]-dioxol-5-ylmethylene)-4-methylbenzenesulfonohydrazide for the detection of carcinogenic lead
Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Muhammad N. Arshad, Abdullah M. Asiri
RSC Adv. 10, 5316–5327 (2020).
 10. A thallium ion sensor development based on the synthesized (*E*)-*N'*-(Methoxybenzylidene)-4-Methylbenzenesulfonohydrazide derivatives: Environmental sample analysis
Mohammad Musarraff Hussain, Abdullah M. Asiri, Muhammad Nadeem Arshad, Mohammed M. Rahman
Chemistry Select 4, 10543-10549 (2019)
 11. D-Glucose sensor based on ZnO.V₂O₅ NRs by an enzyme-free electrochemical approach
Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri
RSC Adv. 9, 31670-31682 (2019)
 12. Arsenic sensor development based on modification with (*E*)-*N*-(2-nitrobenzylidene)-benzenesulfonohydrazide: a real sample analysis
Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Muhammad N. Arshad, Md. Rabiul Awual Abdullah M. Asiri
ew J. Chem.43, 9066-9075 (2019)
 13. Sensitive and selective heavy metal ion, Mn²⁺ sensor development based on the synthesized (*E*)-*N'*-chlorobenzylidene-benzenesulfonohydrazide (CBBSH) molecules modified with nafion matrix
Abdullah M. Asiri, **Mohammad M. Hussain**, Muhammad N. Arshad, Mohammed M. Rahman
J. Industrial Engr. Chem. 63, 312-321 (2018)
 14. Hydrothermally prepared Ag₂O/CuO nanomaterial for an efficient chemical sensor development for environmental remediation
Mohammed M. Rahman, M.M. Alam, **Mohammad M. Hussain**, Abdullah M. Asiri, M.E.M. Zayed
Environ. Nanotechnol. Monitor. Management 10, 1-9 (2018).
 15. Development of selective Co²⁺ ionic sensor based on variuos derivatives of benzenesulfonohydrazide (BSH) compounds: An electrochemical approach
Mohammad Musarraff Hussain, Muhammad Nadeem Arshad, Abdullah M. Asiri, Mohammed M. Rahman
Chem. Eng. J. 339, 133-143 (2018)
 16. A Ce²⁺ sensor based on naphthalen-1-yl-methylene-benzenesulfonohydrazide (NMBSH) molecules: ecological sample analysis
Abdullah M. Asiri, **Mohammad Musarraff Hussain**, Muhammad Nadeem Arshad, Mohammed M. Rahman
New J. Chem. 42, 4465-4473 (2018)

17. Fabrication of Ga³⁺ sensor probe based on Methoxybenzylidenebenzenesulfonohydrazide (MBBSH) by an electrochemical approach
Mohammad Musarraff Hussain, Mohammed M. Rahman, Muhammad Nadeem Arshad, Abdullah M. Asiri
 New J. Chem. 42, 1169-1180 (2018)
18. Bilirubin sensor based on CuO-CdO composites deposited in a nafion/glassy carbon electrode matrixes
 Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri
 Progress Nat. Sci: Mater. Intl. 27, 566-573 (2017)
19. Fabrication of 3-methoxyphenol sensor based on Fe₃O₄ decorated carbon nanotube nanocomposites for environmental safety
 Mohammed M. Rahman, **Mohammad M. Hussain**, Abdullah M. Asiri
 PLOS ONE 12, e0177817 92017)
20. Electrochemical detection of Ni²⁺ ions using synthesized (*E*)-*N'*-chlorobenzylidene-4-methylbenzenesulfonohydrazide derivatives modified with a nafion matrix
Mohammad Musarraff Hussain, Mohammed M. Rahman, Muhammad Nadeem Arshad, Abdullah M. Asiri
 Chemistry Select 2, 7455-7464 (2017)
21. Trivalent Y³⁺ ionic sensor development based on (*E*)-Methyl-*N'*-nitrobenzylidenebenzenesulphonohydrazide (MNBBSH) derivatives modified with nafion matri **Mohammad Musarraff Hussain**, Mohammed M. Rahman, Muhammad Nadeem Arshad, Abdullah M. Asiri
 Sci. Rep. 7, 5832 9.
22. Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri. Ultrasensitive and label-free detection of creatine based on CdO nanoparticles: A real sample approach
 New J. Chem. 2017, 41, 6667-6677 (2017)
23. Ultrasensitive and selective 4-Aminophenol chemical sensor development based on nickel oxide nanoparticles decorated carbon nanotube nanocomposites for green environment
Mohammad Musarraff Hussain, Mohammed M. Rahman, Abdullah M. Asiri
 J. Environ. Sci. 53, 27-38 (2017)
24. Hg²⁺ sensor development based on (*E*)-*N'*-Nitrobenzylidene benzene sulfonohydrazide (NBBSH) derivatives fabricated on a glassy carbon electrode with a nafion matrix
Mohammad M. Hussain, Mohammed M. Rahman, Muhammad N. Arshad, Abdullah M. Asiri
 ACS Omega 2, 420-431 (2017)
25. Influence of chain length on the activity of tripeptidomimetic antagonists for CXC chemokine receptor 4 (CXCR4)
 Markus Baumann, **Mohammad Musarraff Hussain**, Nina Henne, Daniel Moya Garrote, Stefanie Karlshøj, Torgils Fossen, Mette M. Rosenkilde, Jon Våbenø, Bengt Erik Haug
 Bioorg. Med. Chem. 25, 646-657 (2017)
26. Efficient 2-nitrophenol chemical sensor development based on Ce₂O₃ nanoparticles decorated CNT nanocomposites for environmental safety
Mohammad M. Hussain, Mohammed M. Rahman, Abdullah M. Asiri
 PLOS ONE 11, e0166265 (2016)
27. A glutathione biosensor based on a glassy carbon electrode modified with CdO nanoparticle-decorated carbon nanotube in a nafion matrix
 Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri
 Microchim. Acta 183, 3255-3263 (2016)

28. Sensitive L-Leucine sensor based on a glassy carbon electrode modified with SrO nanorods
Mohammad Musarraff Hussain, Mohammed M. Rahman, Abdullah M. Asiri
Microchim. Acta 183, 3265-3273 (2016)
29. Non-enzymatic simultaneous detection of L-glutamic acid and uric acid using mesoporous Co₃O₄ nanosheets
Mohammad Musarraff Hussain, Mohammed M. Rahman, Abdullah M. Asiri, Md. Rabiul Awual
RSC Adv. 6, 80511-80521 (2016)
30. A novel approach towards the hydrazine sensor development by SrO.CNT nanocomposites
Mohammed M. Rahman, **Mohammad Musarraff Hussain**, Abdullah M. Asiri
RSC Adv. 6, 65338-65348 (2016)
31. α -Spinasterol from *Amaranthus spinosus* stem
A.H.M Masum BILLAH, **Mohammad M. HUSSAIN**, Mohammad GDASTAGIR, Md. ISMAIL, Abdul QUADER
Bol. Latinoam. Caribe Plant Med. Aromat. 12,15-17 (2013)
32. Alpinum isoflavone from *Erythrina stricta* Roxb
Mohammad M. HUSSAIN, Mohammad G. DASTAGIR, A.H.M Masum BILLAH , Md. ISMAIL
Bol. Latinoam. Caribe Plant Med. Aromat. 10, 88-90 (2011).
33. Phytochemical and antimicrobial investigation of *Luffa cylindrical*
Md. ISMAIL, **Mohammad M. HUSSAIN**, Mohammad M. DASTAGIR, Masum BILLAH, Abdul QUADER
Bol. Latinoam. Caribe Plant. Med. Aromat. 9, 327-332 (2010)
34. Phytochemical and Biological Investigation of *Albizia lebbek* Benth
Mohammad M. HUSSAIN, Mohammad S. RAHMAN, Abdul JABBER, Mohammad A. RASHID
Bol. Latinoam. Caribe Plant. Med. Aromat. 7, 273-278 (2008)

III. Dr. Sukumar Bepary, Associate Professor

1. In vitro anti-inflammatory resorcinol derivatives and their in silico analysis
Rahen Mahmuda, Shahenul Islam, Negar Sultana Shoshi, Khadija Akhter Poly, Pranoy Saha, Shamima Akhter, Tran Quang De and Sukumar Bepary
Can Tho University Journal of Science. 12(3) 80-84 (2020)
DOI:10.22144/ctu.jen.2020.027
2. Pyrazole substituted resorcinol derivatives with PI3K γ inhibitory potential
Sukumar Bepary, Youn Soo Hyun, In Kwon Youn, Tran Quang De and Ge Hyeong Lee
Can Tho University Journal of Science 12(3), 85-89 (2020)
DOI. 10.22144/ctu.jen.2020.028.
3. Novel synthesis method of Grifolin and Pharmaceutical composition containing grifolin ac active ingredient for preventing and treating obesity and diabetes
Sukumar Bepary, Sung Ho Ryu, In Kwon Yoon, Jae Wang Ghim, Jae Yoon Kim, Young Mi Kim, Jong Won Byun, Kyung Jin Jo, Jae Seon Son, Sang Kap Shim and Woo Jae Cheon

- 2018, Patent Application no. – 1020170001291, Patent Publication no. – 1020180080728.
<http://kpa.kipris.or.kr>
4. Method for synthesizing novel grifolin derivatives and pharmaceutical composition for preventing and treating hyperlipidemia containing same as active ingredient
Sukumar Bepary, Sung Ho Ryu, In Kwon Yoon, Jae Wang Ghim, Kyung Jin Jo, Jae Seon Son, Sang Kap Shim and Woo Jae Cheon
2018, Patent Application no. – 1020170001241, Patent Publication no. – 1020180080725.
<http://kpa.kipris.or.kr>
 5. Novel 3-amino-7-(aminomethyl)-1H-indazol-4-ol as the PI3K γ enzyme inhibitor
Sukumar Bepary, In Kwon Yoon and Ge Hyeong Lee
Bull. Korean Chem. Soc. 37(12), 2054-2057 (2016)
 6. Synthesis and evaluation of PI3K γ enzyme inhibitory activity of Novel (1H-pyrazol-4-yl) methanamines
Sukumar Bepary, In Kwon Yoon, Hee-Jong Lim and Ge Hyeong Lee
Thai Journal of Pharmaceutical Sciences 40(2), 82-86 (2016)
 7. Synthesis of (3S,4S)-4-aminopyrrolidine-3-ol derivatives and biological valuation for their BACE1 inhibitory activities
Quang De Tran, **Sukumar Bepary**, Ge Hyeong Lee, Heeyeong Cho, Woo Kyu Park and Hee-Jong Lim
Bioorg. Med. Chem. Lett. 26, 51–54 (2016)
 8. In silico docking and pharmacophoric analysis of 3-indolyl pyridine derivatives toward cyclooxygenase-2
Sukumar Bepary, Ge Hyeong Lee, Hee-Jong Lim and In Kwon Yoon
Thai Journal of Pharmaceutical Sciences 39(2), 35-40 (2015)
 9. DPT-mediated Synthesis of 2-Aminoimidazolidin-4-ones from Thioureas Tethered to Amides
Sukumar Bepary, In Kwon Yoon, Hee-Jong Lim and Ge Hyeong Lee
Syn. Com. 44(13), 1876-1880 (2014)
 10. Inhibition of PI3 kinase gamma enzyme by novel phenylpyrazoles
Sukumar Bepary, In Kwon Yoon, Hee-Jong Lim and Ge Hyeong Lee
Bull. Korean Chem. Soc. 34(9), 2829-2832 (2013)
 11. Diversified Aminohydantoin from Ureas and Thioureas Tethered to Amides
Sukumar Bepary, In Kwon Yoon, Hee-Jong Lim and Ge Hyeong Lee
Eur. J. Org. Chem. 2542–2548 (2012)
 12. Facile and Large Scale Synthesis of Diverse 4-O-Protected 2,3-O-Isopropylidene-D-erythrose
Sukumar Bepary, In Kwon Yoon and Ge Hyeong Lee
Bull. Korean Chem. Soc. 31(12), 3788-3790 (2010)
 13. Anti-Inflammatory activity of indanyl tetrazole derivatives
Sukumar Bepary, Biplab K. Das, Sitesh C. Bachar, Joydev K. Kundu, A. S. S. Rouf and Bidyut K. Datta
Pakistan Journal of Pharmaceutical Sciences 21(3), 295-298 (2008)
 14. In vitro dissolution studies of different brands of sustained release diclofenac sodium matrix tablets available in Bangladesh
Addnan Abdullah, **Sukumar Bepary** and A. S. S. Rouf
Pakistan Journal of Pharmaceutical Sciences 21(1), 70-77 (2008)
 15. Hepatoprotective activity of *Phyllanthus reticulatus*

Biplab K. Das, **Sukumar Bepary**, Bidyut K. Datta, A. K. Azad Chowdhury, Mohammad Shawkat Ali and Abu Shara Shamsur Rouf
Pakistan Journal of Pharmaceutical Sciences 21(4), 333-337 (2008)

IV. **Dr. Bishyajit Kumar Biswas, Associate Professor**

1. Multicomponent Oxidative Trifluoromethylation of Alkynes with Photoredox Catalysis: Synthesis of α -Trifluoromethyl Ketones
Yashwardhan R. Malpani, **Bishyajit Kumar Biswas**, Hong Sik Han, Young-Sik Jung and Soo Bong Han
Org. Lett. 20, 1693–1697 (2008)
2. Enterovirus Inhibitory Activity of C-8-tert-Butyl Substituted 4-Aryl-6,7,8,9-tetrahydrobenzo[4,5]thieno[3,2- e][1,2,4]triazolo [4,3-a]pyrimidin-5(4H)-ones
Bishyajit Kumar Biswas, Yashwardhan R. Malpani, Neul Ha, Do-Hyun Kwon, Jin Soo Shin, Hae Soo Kim, Chonsaeng Kim, Soo Bong Han, Chong-Kyo Lee and Young-Sik Jung
Bioorganic & Medicinal Chemistry Letters. 27, 3582-3585 (2017).
3. Uncovering oxysterol-binding protein (OSBP) as a target of the anti-enteroviral compound TTP-8307
Lucian Albulescu, Joelle Bigay, **Bishyajit Biswas**, Marion Weber-Boyvat , Cristina M. Dorobantu, Leen Delang, Hilde M. van der Schaar, Young-Sik Jung , Johan Neyts, Vesa M. Olkkonen, Frank J.M. van Kuppeveld, Jeroen R.P.M. Strating
Antiviral Research 140,37- 44 (2017)
4. Validation of Assay Method of Indapamide 1.5mg sustained release Tablet by High Performance Liquid Chromatography Method
Bishyajit Kumar Biswas, Abu Shara Shamsur Rouf
International Journal of General Medicine and Pharmacy Vol.1, Issue 1, 10-19 (2012)
5. Formulation and in vitro Evaluation of Esomeprazole magnesium Hydrophilic Matrix SR Tablet
Abul Kalam Lutful KABIR, Tasbira JESMEEN, **Bishyajit Kumar BISWAS**, Abu Shara Shamsur ROUF
Turk.J.Pharm Sci. 6(1), 1-10 (2009)

V. **Dr. Mohammad Saydur Rahman, Associate Professor**

1. A Novel Antibiotic Agent, Cefiderocol, for Multidrug-Resistant Gram-Negative Bacteria
Mohammad Saydur Rahman, Young-Sang Koh
Journal of Bacteriology and Virology 50(4), 218-226 (2020)
2. Methyl4-(β -D glucopyranosyloxy)-3-hydroxy-5-methoxybenzoate, isolated from Sanguisorba officinalis, inhibits CpG-DNA induced inflammation

- Mohammad Saydur Rahman, Irshad Ali, Madeeha Arooj, Xiang Dong Su, Seo Young Yang, Young Ho Kim, Young-Sang Koh
Tropical Journal of Pharmaceutical Research September 19 (9), 1993-1998 (2020)
3. Investigation of antimalarial activity and cytotoxicity profiling of a Bangladeshi plant *Syzygium cymosum*-Muhammad Riadul Haque Hossainey, Saiful Arefeen Sazed, Maisha Khair Nima, Mohammad Saydur Rahman, Tanvir Ashraf, Abu Asad Chowdhury, Mohammad Abdur Rashid, Rashidul Haque, Mohammad Shafiul Alam-The Journal of Infection in Developing Countries 14(8), 924-928 (2000)
 4. Delafloxacin, a New Miracle in Antibiotics Armamentarium for Bacterial Infections
Mohammad Saydur Rahman, Young-Sang Koh
Journal of Bacteriology and Virology March 49(1), 39-43 (2019)

VI. Anita Rani Chowdhury, Assistant Professor

1. Promising actions of certain medicinal and dietary plants for the management of hyperuricemia as a natural remedy: A review
Ananya Das, Prema Modak, Arghya Prosun Sarkar, Satyajit Halder, Bidduth Kumar Sarkar, **Anita Rani Chowdhury**, Sukalyan Kumar Kundu
Asian Journal of Pharmacy and Pharmacology 6(4), 284-297 (2020)
2. Ethnobotanical study of wound healing plants among the folk medicinal practitioners of several districts in Bangladesh
Anita Rani Chowdhury, Mohammed Rahmatullah
American-Eurasian Journal of Sustainable Agriculture 6(4), 371-377 (2012)
3. Ethnomedicinal plants for treatment of jaundice by the folk and tribal medicinal practitioners of several districts in Bangladesh and review of their scientifically reported hepatoprotective activity
Anita Rani Chowdhury, Mohammed Rahmatullah
American-Eurasian Journal of Sustainable Agriculture, 6(4), 360-370 (2012)
4. Ayurvedic influence on use of medicinal plants in Chakma traditional medicine
Mohammed Rahmatullah, **Anita Rani Chowdhury**, Rashida Tabassum Esha, Motiur Rahman Chowdhury, Susamoy Adhikary, Khan Md. Ariful Haque, Anita Paul, Mira Akber
American-Eurasian Journal of Sustainable Agriculture, 6(2), 107-112 (2012)

VII. Dr. Moynul Hasan, Assistant Professor

1. Effect of membrane potential on pore formation by the antimicrobial peptide magainin 2 in lipid bilayers
Md. Mamun Or Rashid, Md. Mizanur Rahman Moghal, Masum Billah, Moynul Hasan, Masahito Yamazaki
Biochim Biophys Acta Biomembr. 1862(10), 183381 (2020)
2. The role of membrane tension in the action of antimicrobial peptides and cell-penetrating peptides in biomembranes
Moynul Hasan, Md. Mizanur Rahman Moghal, Samiron Kumar Saha, Masahito Yamazaki
Biophysical Reviews (Springer) 11, 431-448 (2019)

3. Elementary processes and mechanisms of interactions of antimicrobial peptides with membranes---single GUV studies
Moynul Hasan and Masahito Yamazaki. K. Matsuzaki (ed.)
Antimicrobial Peptides, Advances in Experimental Medicine and Biology, (Springer Nature Singapore Pte Ltd) 1117, 17-32 (2019)
4. Mechanism of initial stage of pore formation induced by antimicrobial peptide magainin 2
Moynul Hasan, Mohammad Abu Sayem Karal, Victor Levadnyy, Masahito Yamazaki
Langmuir (American Chemical Society-ACS) 34, 3349–3362 (2018)
5. Effect of membrane tension on transbilayer movement of lipids
Moynul Hasan, Samiron Kumar Saha, and Masahito Yamazaki
The Journal of Chemical Physics, (American Institute of Physics (AIP) Publishing) 148, 245101 (2018)
6. Low-pH-induced lamellar to bicontinuous primitive cubic phase transition in dioleoylphosphatidyl-serine/monoolein membranes
Tosihiko Oka, **Moynul Hasan**, Mohammad Zahidul Islam, Moniruzzaman Monir, Masahito Yamazaki
Langmuir (ACS) 33, 12487–12496 (2017)
8. Effect of Transmembrane Asymmetric Distribution of Lipids and Peptides on Lipid Bilayers
Victor Levadnyy*, **Moynul Hasan***, Samiron Kumar Saha, Masahito Yamazaki (*Combined First Author)
Journal of Physical Chemistry B (ACS) 123, 4645–4652 (2019)
9. Ciprofloxacin residue and their impact on biomolecules in eggs of laying hens following oral administration
Md. Mustahsan Billah, S. M. Masud Rana¹, Mohammad Salim Hossain, Sayed Koushik Ahamed, Sujan Banik and **Moynul Hasan**
International Journal of Food Contamination (Springer) 2(13), 1-7 (2015)
10. Flatulence awareness among the masses and its affinity with daily foods along with anti-ulcerant drugs in Bangladesh
Moynul Hasan, Jannatul Ferdous, Mahmudul Islam
Asian Pacific Journal of Tropical Disease (Elsevier) 6, 380-384 (2016)
11. Formulation and Evaluation of Floating Alginate Beads of Diclofenac Sodium
Mohammad Abu Taher Rasel, **Moynul Hasan**
Dhaka University Journal of Pharmaceutical Sciences 11(1), 29-35 (2012)
12. In Vitro Antioxidant Potential of The Methanolic Extract of *Bacopa monnieri*
Md. Nur Alam, Tania Binte Wahed, Farhana Sultana, Jamiuddin Ahmed, **Moynul Hasan**
Turkish Journal of Pharmaceutical Sciences 9(3), 285-292 (2012).
13. Development and Validation of a RP-HPLC Method for the Estimation of Amlexanox in Oral Paste Dosage Form
Abdullah Al Masud, Mohammad Saydur Rahman, Towfika Islam, Saki Sultana, **Moynul Hasan**, ABM Faroque
Dhaka University Journal of Pharmaceutical Sciences 10(2), 67-70 (2011).
14. Comparison of Three Different Methods of Genomic DNA Extraction from Gram Positive and Gram Negative Bacteria
Md. Kamal Hossain Ripon, **Moynul Hasan**, Md. Monjurul Ahasan, M. W. Alam and Shaila Kabir
Journal of Experimental Biosciences 2(1), 55-60 (2011)

15. Effect of granulation technique and drug-polymer ratio on release kinetics of gliclazide from methocel K4M matrix tablet
Tanbir Ahammed, **Moynul Hasan**, Md. Saiful Islam, Muhammad Rashedul Islam, Md. Habibur Rahman
Bangladesh Pharmaceutical journal 13(2): 8-12 (2010)

VIII. Sayema Khanum, Assistant Professor

1. Exploring the Promise of Targeting Ubiquitin-Proteasome System to Combat Alzheimer's Disease
Abdullah Al Mamun, Md. Sahab Uddin, Md. Tanvir Kabir, **Sayema Khanum**, Md. Shahid Sarwar, Bijo Mathew, Abdur Rauf, Muniruddin Ahmed and Ghulam Md Ashraf
Neurotoxicity Research. (Publishers: Springer) volume: 38, page no: 8–17 (2020)
<https://doi.org/10.1007/s12640-020-00185->
2. Immunoglobulin levels in panic disorder patients
Zabun Nahar, **Sayema Khanum**, Saima Harun, Sheikh Nazrul Islam, Abdus Sobhan, Saiful Islam, Abul Hasnat
Pak J Pharm Sci. 23(1), 97-102 (2010)

IX. Sabarni Sarker, Assistant Professor

1. Hepatoprotective Potentiality of Various Fractions of Ethanolic Extracts of *Lawsonia nermis* (Henna) Leaves Against Chemical-Induced Hepatitis in Rats
Khondakar Mahmudul Hasan, Samina Yesmin, Sarkar Farhana Akhter, Subrata Paul, **Sabarni Sarker**, A Islam, Mir Imam Ibne Wahed, Md Rafiqul Islam Khan
Biochemistry and Molecular Biology 1(2), 17-22 (2016)
2. COVID-19 Outbreak: Pathogenesis, Current Therapies, and Potentials for Future Management
Md. Farhad Hossain, Sharifa Hasana, Abdullah Al Mamun, Md Sahab Uddin, Mir Imam Ibne Wahed, **Sabarni Sarker**, Tapan Behl, Irfan Ullah, Yesmin Begum, Israt Jahan Bulbul, Md Shah Amran, Md Habibur Rahman, May N Bin-Jumah, Saad Alkahtani, Shaker A Mousa, Lotfi Aleya, Mohamed M Abdel-Daim
Frontiers in Pharmacology 11, 1590 (2020)
3. Development and Validation of UV-Spectrophotometric Method for Estimation of Doxofylline in Bulk and Tablets
Subrata Paul, Md Abdul Karim Mia, **Sabarni Sarker**, Sheta Biswas, Puja Bal, Trisha Rani Dey, Tarun Kumar Pal
Oriental Journal of Chemistry 36(5) 908-914 (2020)
4. Analytical Method Development and Validation for Estimation of Ranitidine in Solid Dosage Form by UV-Spectrophotometric Method
Subrata Paul, Labani Barai, Md. Faruk Husen, **Sabarni Sarker**, Tarun Kumar Pal, Puja Bal, Md. Abdul Matin Sarker, Syeda Saima Alam, Sheta Biswas
Oriental Journal of Chemistry 36(6) 1161-1167 (2020)

X. Md. Rajdoula Rafe, Assistant Professor

1. In silico design and evaluation of novel 5-fluorouracil analogues as potential anticancer agents
Surid Mohammad Chowdhury, Md Nuruzzaman Hossain, **Md Rajdoula Rafe**
Heliyon 6(9), e04978 (2020)
2. Assessment of antidepressant and sedative-hypnotic activities of methanolic crude extracts of *Stephania japonica* (Thunb.) Miers. whole plants
Ananta Sutra Dhar, Mahbubur Rahman, **Md Rajdoula Rafe**, Md Islam Molla
Current Issues in Pharmacy and Medical Sciences 33(1), 51-55 (2020)
3. A pharmacological review of four widely used traditional medicinal plants for wound healing in Bangladesh-Md. **Rajdoula Rafe**, Rayhanus Salam, Syeda Naureen Ahmed, Zebunnesa Ahmed, and Surid Mohammad Chowdhury
Current Traditional Medicine 6(1), 65-74 (2020)
4. Neurobehavioral activity study of methanolic whole plants extract of *Cyperus rotundus* Linn
Imonul Kabir, Subir Biswas, Md. Asaduzzaman, Md. Islam Molla, **Md. Rajdoula Rafe**
Journal of Pharmaceutical Negative Results, 10(1), 36-40 (2019)
5. Origins, pathophysiology, diagnosis, vaccination and prevention of Chikungunya virus
Md. Rajdoula Rafe, Syeda Naureen Ahmed, Zebunnesa Ahmed
Current Issues in Pharmacy and Medical Sciences 32(1), 40-44 (2019)
6. Phytochemical Screening and Acetylcholinesterase and Butyrylcholinesterase Inhibitory and Thrombolytic Activities of *Grewia abutilifolia* Vent. &Juss. Leaf
Md. Rajdoula Rafe, Rayhanus Salam, Md. Monir Hossain, Mohammad Mehedi Masud
Dhaka University Journal of Pharmaceutical Sciences 17(1), 81-86 (2018)
7. A review of five traditionally used anti-diabetic plants of Bangladesh and their pharmacological activities
Md. Rajdoula Rafe
Asian Pacific Journal of Tropical Medicine 10(10), 933-939 (2017)
8. Chemical and Biological Studies of Leaf Extract of *Dendrophthoe falcata* Linn
Md. Rajdoula Rafe, Monira Ahsan, Choudhury Mahmood Hasan, Mohammad Mehedi Masud
Dhaka University Journal of Pharmaceutical Sciences 16(2), 215-219 (2017)

XI. N. M. Mahmudul Alam Bhuiya, Assistant Professor

1. In vivo and in silico evaluation of antinociceptive activities of seed extract from the *Holarrhena antidysenterica* plant
Md Mahbubur Rahman Bhuiyan, **N. M Mahmudul Alam Bhuiya**, Md Nazmul Hasan, and Ummey Jannatun Nahar
Heliyon 6(5) e03962 (2020)
2. Investigation on antioxidant and antimicrobial properties of methanolic extract of *Combretum indicum* leaf
Hanif, Hossain Md. Abu, **Hasan, Md Nazmul Hasan**. Md. Monir Hossain, Md Rasal Hossain Khan and N. M. Mahmudul Alam Bhuiya
International Journal of Green Pharmacy 14(2), 169-174 (2020)
3. In vivo and in vitro pharmacological activities of *Tacca integrifolia* rhizome and investigation of possible lead compounds against breast cancer through in silico approaches

Ahmed, Shahriar, Ahmed Rakib, Md Ashiqul Islam, Bibi Humayra Khanam, Farhana Binta Faiz, Arkajyoti Paul, Md Nazim Uddin Chy, Ahmed, Shahriar, Ahmed Rakib, Md Ashiqul Islam, Bibi Humayra Khanam, Farhana BintaFaiz, Arkajyoti Paul, Md Nazim Uddin Chy, **N. M. Mahmudul Alam Bhuiya**, Mir Muhammad Nasir Uddin, S. M. Amanat Ullah, Md. Atiar Rahman and Talha Bin Emran

Clinical Phytoscience 5(1), 1-13 (2019)

4. Maltase-Glucoamylase Inhibitory Activity of Isolated Compounds from *Swertia Chirata* (Wall) Clarke: An In Silico Molecular Docking and Pharmacokinetic Prediction Study
Md Nazmul Hasan, **N. M. Mahmudul Alam Bhuiya** and Arko Jyoti Paul
Saudi Journal of Medical and Pharmaceutical Sciences 5(7), 563-568 (2019)
5. In silico molecular docking, PASS prediction, and ADME/T analysis for finding novel COX-2 inhibitor from *Heliotropium indicum*
Md Nazmul Hasan, **N. M. M. A. Bhuiya**, and Mohammed Kamrul Hossain
J. Comp. Med. Res 10, 142-154 (2019)
6. Assessment of the antioxidant, thrombolytic, analgesic, anti-inflammatory, antidepressant and anxiolytic activities of leaf extracts and fractions of *Tetracera sarmentosa* (L.) Vahl
Mir Muhammad Nasir Uddin, Mohammad Shah Hafez Kabir, Mahmud Hasan, Zobaer Al Mahmud, **NM Mahmudul Alam Bhuiya**, Farhan Ahmed, Md Rakibul Hasan, Mohammad Tanvir Hosen, and Mohammad Shahin Alam
Journal of basic and clinical physiology and pharmacology 29(1), 81-93 (2018)
7. In vivo analgesic, antipyretic and anti-inflammatory potential of leaf extracts and fractions of *Eria javanica*
NM Mahmudul Alam Bhuiya, Mahmud Hasan, Zobaer Al Mahmud, Nazmul Qais, Mohammad Shah Hafez Kabir, Farhan Ahmed, and Mir Muhammad Nasir Uddin
Journal of Complementary and Integrative Medicine 14(1) (2017)

XII. Md. Islam Molla, Lecturer

1. Assessment of antidepressant and sedative-hypnotic activities of methanolic crude extracts of *Stephania japonica* (Thunb.) Miers. whole plants
Ananta Sutra Dhar, Mahbubur Rahman, Md Rajdoula Rafe and, **Md Islam Molla**
Current Issues in Pharmacy and Medical Sciences 33(1), 51-55 (2020)
2. Neurobehavioral activity study of methanolic whole plants extract of *Cyperus rotundus* Linn
Imonul Kabir, Subir Biswas, Md Asaduzzaman, **Md Islam Molla** and, Md Rajdoula Rafe
Journal of Pharmaceutical Negative Results 10(1), 36-40 (2019)