Curriculum Vitae

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Web of Science ResearcherID	http://www.researcherid.com/rid/B-5442-2012
Google Scholar:	https://scholar.google.com/citations?hl=en&user=JeKXZjIAAAAJ&view_op=list_works&sortby=pubdate
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Scopus Author ID	57190074826
Total no. of peer reviewed articles:	57
H-index:	16
i10-index:	27
Total no. of citations:	813
Research funding:	1,000,000 $

Education and Training:

Ph. D. 2007, Yeungnam University, South Korea (Pharmaceutical Science)
M. Sc. 2002, University of Rajshahi, Bangladesh (Organic Chemistry)
B. Sc. 2000, University of Rajshahi, Bangladesh (Honors in Chemistry)
H. S. C. 1995, Rajshahi Education Board, Bangladesh (Science Group)
S. S. C. 1993, Rajshahi Education Board, Bangladesh (Science Group)

Career History:

Associate Professor (2016.02.29 -): Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh 11451, Kingdom of Saudi Arabia
Assistant Professor (2010.10.02 - 2016.02.28): Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh 11451, Kingdom of Saudi Arabia.
Guest Editor, Frontier in Chemistry (August 2022 -):
Consulting Editor (2014 - to date): Malaysian Journal of Medical and Biological Research.
Assistant Editor Book (Chemistry) (2012.02.01-2013.10.31): Versita Publishing, Warszawa, Switzerland.
Postdoctoral Officer (2009.08.04 - 2010.07.30): Faculty of Pharmacy, University Technology MARA **(**UiTM), Puncak Alam 42300, Malaysia.

Postdoctoral Research Associate (2008.07.01 - 2009.06.30): Department of Chemistry, Kyungpook National University, Daegu, South Korea
Research Professor (2007.03.01 - 2008.06.30): Institute for Drug Research, College of Pharmacy, Yeungnam University, Gyeongsan 712749, South Korea.

Funding:

Holding two funds from National Plan for Science and Technology, King Abdullah City for Science and Technology, Ministry of Education, Saudi Arabia (~2,000,000 SAR in both) (Project no. 11-MED- 1909-02 & 12-MED- 2439-02)

Positions and Major Responsibilities:

Teaching Responsibilities:

Heterocycles in Medicinal Chemistry (PHC 559): The course deals with the principles and advanced topics in heterocyclic chemistry. Synthesis and reactivity of pharmacologically active heterocyclic compounds will be covered in detail, with emphasis on recent advances in commonly used strategies for synthesis of medicinally important heterocycles. The course will deal also with the synthesis of intermediates used for the construction of aromatic heterocycles. Rings that will be covered include azoles, pyridines, pyrimidines, quinolones and isoquinolines. Fused heterocyclic compounds such as indoles, benzimidazoles and purines will be covered as well.

Pharmaceutical Chemistry (PHC 428): The course covers the medicinal chemistry of different chemotherapeutic agents such as antibacterial and antimicrobial agents, antivirals, antifungals, antiprotozoals. Agents to be studied will include thyroid and antithyroid drugs, and oral hypoglycemic agents. Emphasis is given to the mechanism of action, SAR and metabolism of these agents. The practical part included methods of synthesis, analysis, purification and structure elucidation using pharmacopoeial methods and other spectroscopic techniques.

Chromatographic and Bioanalytical Analysis (PHC 541): This course explores in details aspects necessary to conduct a successful bioanalytical assay. The courses discuss in details topics related to hyphenated techniques, in particular LC-MS, and explores the technologies and method development involved in the process. The courses also discuss other hyphenated techniques such as GC-MS, CE-MS, as well as immunoassay.

Research Area:

 Currently I am working on synthesis, evaluation of biological properties (Antimicrobial activities, Cytotoxicity, Topoisomerase inhibitory activity, etc.) and Drug Metabolism (*In-silico* and *In-vitro* metabolic profiling of biological active synthetic/natural molecules (e.g. fluorescein, chalcones and pyrazoline, galeon, etc.). In addition to theses, I also involve in detection, characterization and fragmentation pattern of natural products using mass spectroscopic technique.

 As a postdoctoral officer at Faculty of Pharmacy, University Technology MARA (UiTM**),** Malaysia, I was working on methodology development for the synthesis of some biologically

active natural molecules such as, goniothalamin and its derivatives, styryllactones, etc. There, I have developed a new route for the synthesis of goniothalamin and prepared a large number of derivatives. I had three master's students there and they have submitted their master's thesis for M. Pharm. degree.

 Research work has been done independently as a postdoctoral research associate at catalysis and synthetic methodology laboratory, Department of Chemistry, Kyungpook National University, Daegu, South Korea. There I have synthesized some new BINOL and L-Proline derived chiral catalysts, and evaluated their ability asymmetric synthesis. Also, I have synthesized several new Antibody Drug-Conjugates (ADCs) such as, i) Thiol- and Maleimide containing Geldanamycin-conjugates, ii) Maleimide containing Doxorubicinconjugates.

 Extensive research experiences gathered on the synthesis of biological active natural and unnatural molecules while I was working as research Professor at the Institute for Drug Research, College of Pharmacy, Yeungnam University, South Korea. I have synthesized several natural biological active molecules, e.g.-Luotonin A, Luotonin A homologues and their aza-analogues, Mollugin and its derivatives, Pyran-annulated natural products such as Acronycine.

 As a doctor fellow at College of Pharmacy, Yeungnam University, Gyeongsan 712-749, South Korea, I have successfully carried out the thesis work entitled with "Synthesis and Properties of New Polydentates and Their Metal Complexes" I have synthesized a large number of new polydentates and their Ruthenium / Copper complexes.

 In my master study, at the Department of Chemistry, University of Rajshahi, Bangladesh, Research has been done entitled with "Regiospecific synthesis of -tetralones, PIDA oxidation to tetrahydro--naphthol and synthesis of 1, 2, 3, 4-tetrahydro-6-hydroxy benz[*a*]anthracene -1,7,12-trione; a biologically active molecule."

Research Interests:

 Synthesis of biological active synthetic/natural molecules

 Total synthesis of natural products

 Methodology development of various organic reactions

 Bio-conjugates Chemistry, Host-guest chemistry and Heterocyclic Chemistry.

 Biological activities (Cytotoxicity, Topoisomerase I & II inhibitory activity, etc.)

 Drug Metabolism

Current Research Projects:

 Synthesis, biological assays and metabolic profiling of biological active natural molecules

 Methodology development of various organic reactions

 Detection, characterization and fragmentation pattern of natural products using DART

 Design, Synthesis, Photophysical, and Biological Properties of Fluorescein Hydrazones Design, Synthesis and Biological Evaluation of Diarylheptanoids and Their Derivatives for the Development of New Anti-Cancer Agents

Fellowships / Scholarships / Awards:

- NEDO fellowship Japan.
- Brain Korea 21 (BK21) scholarships.
- Korea Research Foundation fellowship for Research Professor.
- Korea Research Foundation fellowship for Ph. D program.
- Yeungnam University scholarship for Ph. D program.

Supervisor / Guide / Teaching:

Undergraduate, Master and Doctor

Publications in Peer-reviewed Journals:

57. AbdulAziz A. Alotaibi, Mohammed M. Alanazi and **A. F. M. Motiur Rahman**,* "Novel pyrrolo [2, 3-d] pyridine derivatives as multi-kinase inhibitors with VEGFR2 selectivity" Pharmaceuticals, 2023, 16(9), 1324, https://doi.org/10.3390/ph16091324. Impact factor = 4.6

56. **A. F. M. Motiur Rahman**,* Mohammad Sayed Alam and Youngjoo Kwon "Small organic molecules with anticancer activity" Frontiers in Chemistry **2023**, 11, 1254312; https://doi.org/10.3389/fchem.2023.1254312. **Impact factor = 5.5**

55. AbdulAziz A. Alotaibi, Hanadi H. Asiri, **A. F. M. Motiur Rahman**, Mohammed M. Alanazi, "Novel pyrrolo [2, 3-d] pyridine derivatives as multi-kinase inhibitors with VEGFR2 selectivity" Journal of Saudi Chemical Society, **2023**, 27(5), https://doi.org/10.1016/j.jscs.2023.101712. **Impact factor = 5.6**

54. Abide Mo and **A. F. M. Motiur Rahman**,* "Investigation and Identification of Chemical Changes in Ginger Tea Using Ion Trap Mass Spectrometry" Journal of High School Science, **2023**, 7(3), 21; https://jhss.scholasticahq.com/article/84585-investigation-and-identification-of-chemical-changes-in-ginger-tea-using-ion-trap-mass-spectrometry

53. Zhiying Hou, Yang Lu, Bin Zhang, **A. F. M. Motiur Rahman**, Yufen Zhao, Ning Xi, Ning Wang, Jinhui Wang, "Investigation of the Relationship between Electronic Structures and Bioactivities of Polypyridyl Ru (II) Complexes" Molecules **2023**, 28(13), 5035; 10.3390/molecules28135035. **Impact factor = 4.6**

52. Refaah Mousa Al-Jassas, Mohammad Shahidul Islam, Abdullah Mohammed Al-Majid, Mohamed S. Nafie, Matti Haukka, **A. F. M. Motiur Rahman**, Abdul Majeed Abdullah Alayyaf, Assem Barakat, "Synthesis and SARs study of novel spiro-oxindoles as potent antiproliferative agents with CDK-2 inhibitory activities" Archiv der Pharmazie **2023**, 356(8), 2300185; https://doi.org/10.1002/ardp.202300185. **Impact factor = 5.1**

51. **A. F. M. Motiur Rahman**, Ahmed H Bakheit, Shofiur Rahman, Gamal AE Mostafa, Haitham Alrabiahand Adnan A. Kadi, "Procainamide Charge Transfer Complexes with Chloranilic Acid and 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone: Experimental and Theoretical Study" Processes **2023**, 11(3), 711; https://doi.org/10.3390/pr11030711. **Impact factor = 3.35**

50. Wencui Yin, Reem I. Al-wabli, Mohamed W. Attwa, **A. F. M. Motiur Rahman** and Adnan A. Kadi, "Simvastatin: In Vitro Metabolic Profiling of a Potent Competitive HMG-CoA Reductase Inhibitor" Separations, **2022**, 9(12), 400. https://doi.org/10.3390/separations9120400. **Impact factor = 3.34**

49. Mohammad Shahidul Islam, Abdullah Mohammed Al-Majid, Essam Nageh Sholkamy, Sammer Yousuf, Muhammad Ayaz, Asif Nawaz, Abdul Wadood, Ashfaq Ur Rehman, Ved Prakash Verma, **A. F. M. Motiur Rahman**, Assem Barakat, Synthesis of Spiro-oxindole Analogs Engrafted Pyrazole Scaffold as Potential Alzheimer's Disease Therapeutics: Anti-oxidant, Enzyme Inhibitory and Molecular Docking Approaches" ChemistrySelect, **2022**, 7(36), e202203047; https://doi.org/10.1002/slct.202203047. **Impact factor = 2.31**

48. Nasser Al-Shakliah, Adnan A Kadi, Rashad Al-Salahi, **A. F. M. Motiur Rahman**, In-vitro Identification of Potential Metabolites of Plinabulin (NPI 2358) in Hepatic Preparations Using Liquid Chromatography-Ion Trap Mass Spectrometry (LC-ITMS/MS)" ACS Omega **2022**, 7(25), 21465-21472; https://doi.org/10.1021/acsomega.2c00929. **Impact factor = 4.13**

47. Wencui Yin, Reem I Al-Wabli, Mohamed W Attwa, **A. F. M. Motiur Rahman**,* Adnan A Kadi. Detection and characterization of simvastatin and its metabolites in rat tissues and biological fluids using MALDI high resolution mass spectrometry approach, Scientific Reports, **2022**, 12(1), Article number: 4757 (2022); https://doi.org/10.1038/s41598-022-08804-x. **Impact factor = 5.0**

46. Mohammad Shahidul Islam, Matti Haukka, Saied M Soliman, Abdullah Mohammed AlMajid, **A. F. M. Motiur Rahman**, Ahmed Bari, Assem Barakat. Regio-and stereoselective synthesis of spiro-heterocycles bearing the pyrazole scaffold via [3+ 2] cycloaddition reaction, Journal of Molecular Structure, **2021**, 1250, 131711; https://doi.org/10.1016/j.molstruc.2021.131711. **Impact factor = 3.84**

45. Tebyan O. Mirganya, Ashraf N. Abdallab, Md Arifuzzamanc, **A. F. M. Motiur Rahmana**,* and Huda S. Al-Salema,* Quinazolin-4(3H)-one based Potential Multiple Tyrosine Kinase Inhibitors with Excellent Cytotoxicity, Journal of Enzyme Inhibition and Medicinal Chemistry, **2021**, 36(1), 2055-2067; https://doi.org/10.1080/14756366.2021.1972992. **Impact factor = 4.31**

44. Gamal AE Mostafa, Abu Syed Mahajumi, Haitham AlRabiah, Adnan A Kadi, Yang Lu, **A. F. M. Motiur Rahman*** Synthesis and Photophysical Properties of Fluorescein Esters as

Potential Organic Semiconductor Materials, Journal of Fluorescence, **2021**, 21, 1489–1502; https://doi.org/10.1007/s10895-021-02789-y. **Impact factor = 2.22**

43. Mazlin Mohideen, Nur Azzalia Kamaruzaman, Muhamad Azwan Hamali, Mohd Nizam Mordi, Sharif Mahsufi Mansor and **A.F.M. Motiur Rahman**[*]. N^2, N^9-Bis (Substituted benzyl)-β-Carbolineum Bromides as Potential Anticancer Therapeutics: Design, Synthesis, Cytotoxicity, Drug-DNA Intercalation and In-Silico Binding Properties, Journal of Molecular Structure, **2021**, 1243, 130771; https://doi.org/10.1016/j.molstruc.2021.130771. **Impact factor = 3.41**

42. Huda S. Alsalem,[*] Md Arifuzzaman, Iman S. Issa and **A.F.M. Motiur Rahman**[*]. IsatinHydrazones with Multiple Receptor Tyrosine Kinases (RTKs) Inhibitory Activity and In-Silico Binding Mechanism, Applied Sciences, **2021**, 11(9), 3746; https://doi.org/10.3390/app11093746. **Impact factor = 2.7**

41. **A. F. M. Motiur Rahman**,[*] Wencui Yin, Adnan A. Kadi, Yurngdong Jahng. Galeon: A Biologically Active Molecule with In Silico Metabolite Prediction, In Vitro Metabolic Profiling in Rat Liver Microsomes, and In Silico Binding Mechanisms with CYP450 Isoforms, Molecules, **2020**, 25, 5903; https://doi.org/doi.org/10.3390/molecules25245903. **Impact factor = 4.93**

40. Huda S. Alsalem,[*] Md Arifuzzaman, Hamad M. Alkahtani, Ashraf N. Abdalla, Iman S. Issa, Aljawharah Alqathama, Fatemah S. Albalawi and **A.F.M. Motiur Rahman**[*]. A Series of Isatin-Hydrazones with Cytotoxic Activity and CDK2 Kinase Inhibitory Activity: A Potential Type II ATP Competitive Inhibitor, Molecules, **2020**, 25, 4400; https://doi.org/10.3390/molecules25194400. **Impact factor = 4.93**

39. Huda S. Alsalem,[*] Hatem A. Abuelizz, Iman S. Issa, Amany Z. Mahmoud, Ali AlHoshani, Md Arifuzzaman and **A.F.M. Motiur Rahman**[*]**.** Synthesis of Novel Potent Biologically Active N-Benzylisatin-Aryl Hydrazones in Comparison with Lung Cancer Drug 'Gefitinib', Applied Sciences, **2020**, 10(11), 3669; https://doi.org/10.3390/app10113669. **Impact factor = 2.7**

38. Mohammad Shahidul Islam, Abdullah Mohammed Al-Majid, Fardous F. El-Senduny, Farid A. Badria, **A. F. M. Motiur Rahman**, Assem Barakat and Yaseen A. M. M. Elshaier, Synthesis, Anticancer Activity, and Molecular Modeling of New Halogenated Spiro[pyrrolidine-thiazolo-oxindoles] Derivatives, Applied Sciences, **2020**, 10(6), 2170. https://doi.org/10.3390/app10062170. **Impact factor = 2.7**

37. Yang Lu, Wencui Yin, Mohammad Sayed Alam, Adnan A. Kadi, Yurngdong Jahng, Youngjoo Kwon, **A. F. M. Motiur Rahman,** Synthesis, Biological Evaluation, Binding Interaction and Drug Likeness Property Analysis of Cyclic Diarylheptanoids as Potential Anticancer Therapeutics, Anti-Cancer Agents in Medicinal Chemistry, **2020**, 20(4), 464-475. https://doi.org/10.2174/1871520619666191125130237. **Impact factor = 2.53**

36. Adnan A. Kadi, Kamal E.H. El-Tahir,* Yurngdong Jahng, **A.F.M. Motiur Rahman**,* Synthesis, Biological Evaluation and Structure Activity Relationships (SARs) Study of 8(Substituted)aryloxycaffein, Arabian Journal of Chemistry, **2019**, 12(8), 2356-2364 (doi:10.1016/j.arabjc.2015.02.021). (**Impact factor = 6.2**)

35. Abdullah Mohammed Al-Majid, Mohammad Shahidul Islam, Saleh Atef, Fardous F. El-Senduny, Farid A. Badria, Yaseen A. M. M. Elshaier, M. Ali, Assem Barakat, **A. F. M. Motiur Rahman**, Synthesis of pyridine-dicarboxamide-cyclohexanone derivatives: Anti-cancer and α-glucosidase inhibitory activities and in silico study, Molecules, **2019**, 24, 1332 (doi:10.3390/molecules24071332), **Impact factor = 4.93**

34. Adnan A. Kadi, Wencui Yin and **A. F. M. Motiur Rahman**, In-Vitro Metabolic Profiling Study of Potential Topoisomerase Inhibitors 'Pyrazolines' in RLMs by Mass Spectrometry, Journal of Chromatography B, **2019**, 1114-1115, 125133. (https://doi.org/10.1016/j.jchromb.2019.03.026), **Impact factor = 3.2**

33. **A. F. M. Motiur Rahman**, Yang Lu, Hwa-Jong Lee, Hyunji Jo, Wencui Yin, Mohammad Sayed Alam, Hyochang Cha, Adnan A. Kadi, Youngjoo Kwon, Yurngdong Jahng. Linear Diarylhepatonoids: Synthesis, Biological Evaluation and SARs Studies as Potential Anticancer Therapeutics. Archives of Pharmacal Research, **2018**, 41(12):11311148 (https://doi.org/10.1007/s12272-018-1004-8). (**Impact factor = 4.95**)

32. Adnan A. Kadi, Nasser S. Al-Shakliah, Wencui Yin, **A.F.M. Motiur Rahman.** In vitro Investigation of Metabolic Profiling of Newly Developed Topoisomerase Inhibitors (Ethyl Fluorescein Hydrazones) in RLMs by LC–MS/MS. Journal of Chromatography B, 2017, **2017**, 1054, 93-101, (http://doi.org/10.1016/j.jchromb.2017.03.042). (**Impact factor = 3.2**)

31. **A.F.M. Motiur Rahman**, Nasser S. Al-Shakliah, Wencui Yin, Adnan A. Kadi. In vitro investigation of metabolic profiling of a potent topoisomerase inhibitors fluorescein hydrazones (FLHs) in RLMs by LC–MS/MS. Journal of Chromatography B, **2017**, 1054, 2735, (http://doi.org/10.1016/j.jchromb.2017.03.041). (**Impact factor = 3.2**)

30. Yang Lu, **A. F. M. Motiur Rahman**, Yurngdong Jahng. Studies on the reactions of 3,2′polymethylene-2-phenylbenzo[b]-1,10-phenanthrolines with Ru(tpy)Cl3and properties of the products. Archives of Pharmacal Research, **2017**, 40, 563-570 (10.1007/s12272-0170894-1). (**Impact factor = 4.95**)

29. Islam, M. S.; Park, S.; Song, C.; Kadi, A. A.; Kwon, Y.; **Rahman, A. F. M. Motiur.** Fluorescein hydrazones: A series of novel non-intercalative topoisomerase IIα catalytic inhibitors induce G1 arrest and apoptosis in breast and colon cancer cells. European Journal of Medicinal Chemistry, **2017**, 125, 49-67 (http://dx.doi.org/10.1016/j.ejmech.2016.09.004). (**Impact factor = 7.1**)

28. Pervez Ahmad, Hyunjung Woob, Kyu-Yeon Junb, Adnan A. Kadi, Hatem A. AbdelAziza, Youngjoo Kwonb, **A. F. M. Motiur Rahman**, Design, synthesis, topoisomerase I & II inhibitory activity, antiproliferative activity, and structure-activity relationship study of pyrazoline derivatives: An ATP- competitive human topoisomerase IIα catalytic inhibitor, Bioorganic & Medicinal Chemistry, **2016,** 24, 1898-1908. (http://dx.doi.org/10.1016/j.bmc.2016.03.017). (**Impact factor = 3.64**)

27. Mohammad Shahidul Islam, Assem Barakat, Abdullah M. Al-Majida, Hazem A. Ghabbour, **A.F.M. Motiur Rahman**, Kulsoom Javaid, Rehan Imad, Sammer Yousuf, M. Iqbal Choudhary, A concise synthesis and evaluation of new malonamide derivatives as potential α-glucosidase inhibitors, Bioorganic & Medicinal Chemistry, **2016**, 24, 1675-1682 (http://dx.doi.org/10.1016/j.bmc.2016.02.037). (**Impact factor = 3.64**)

26. **A. F. M. Motiur Rahman** and Adnan A Kadi, Solvent free Cannizzaro reaction applying grindstone technique, Arabian Journal of Chemistry, **2016,** 9(2), S1373-S1377, http://dx.doi.org/10.1016/j.arabjc.2012.02.010). (**Impact factor = 6.2**)

25. Adnan A. Kadi, Nasser S. Al-Shakliah, **A. F. M. Motiur Rahman**,* Synthesis and Fragmentation Behavior Study of n-alkyl/benzyl Isatin Derivatives Present in Small/Complex Molecules: Precursor for the Preparation of Biological Active Heterocycles, Mass Spectrometry Letters, **2015**, 6(3), 65-70 (doi: 10.5478/MSL.2015.6.3.65). (**Impact factor = 0.5**)

24. **A.F.M. Motiur Rahman**,* Rihab F. Angawi, Adnan A. Kadi, Spatial Localization of Curcumin and Rapid Screening of the Chemical Compositions of Turmeric Rhizomes (Curcuma longa Linn.) using Direct Analysis in Real Time-Mass Spectrometry (DART-MS), Food Chemistry, **2015**, *173*, 489–494, (http://dx.doi.org/10.1016/j.foodchem.2014.10.049). (**Impact factor = 7.51**)

23. **A. F. M. Motiur Rahman**,* So-Eun Park, Adnan A. Kadi, and Youngjoo Kwon, Fluorescein Hydrazones as Novel Nonintercalative Topoisomerase Catalytic Inhibitors with Low DNA Toxicity, Journal of Medicinal Chemistry **2014**, 57, 9139−9151 (doi: dx.doi.org/10.1021/jm501263m). (**Impact factor = 8.04**)

22. Adnan A. Kadi, Mohamed W. Attwa, **A. F. M. Motiur Rahman**,* A Preliminary Study of Arecoline and Guvacoline Presence in Saliva of 'Betel-Quid' Chewer Using Liquid-hromatography Ion Trap Mass Spectrometry, European Journal of Mass Spectrometry, **2013**, 19, 391-397 (doi: 10.1255/ejms.1245). (**Impact factor = 0.85**)

21. **A. F. M. Motiur Rahman**, Mohamed W. Attwa, Pervez Ahmad, Mohammad Baseeruddin, Adnan A. Kadi; Fragmentation Behavior Studies of Chalcones Employing Direct Analysis in Real Time (DART), Mass Spectrometry Letters, **2013**, 4(2), 30-33. (**Impact factor = 0.5**)

20. Mazlin Mohideen, Nik Salmah Nik-Salleh, Suraya Zulkepli, Mohd Zulkefeli, J. F. F. Weber, **A. F. M. Motiur Rahman**,*Design, synthesis, in vitro cytotoxicity evaluation and structure–activity relationship of Goniothalamin analogs, Archives of Pharmacal Research, **2013**, 36 (7), 812-831 (doi:10.1007/s12272-013-0099-1). (**Impact factor = 4.95**)

19. **A. F. M. Motiur Rahman** Hyochang Cha, Kyungsook Kwak, Eung-Seok Lee, Yurngdong Jahng, Racemization Energy of 3,2''-Tetramethylene-2-phenyl-6-(pyrid-2'''yl)pyridine Estimated by Temperature Variation 1H NMR Experiment, Bulletin of the Korean Chemical Society, **2013**, 34 (2), 677-679 (http://dx.doi.org/10.5012/bkcs.2013.34.2.677). (**Impact factor = 1.2**)

18. **A. F. M. Motiur Rahman**, Mohammad Sayed Alam and Adnan A. Kadi, Synthesis and antimicrobial activity of novel tetrabromo- α,α′-bis(substituted-benzyl)cycloalkanones, Journal of the Serbian Chemical Society, **2012**, 77 (6) 717-723, (doi: 10.2298/JSC110408005M). (**Impact factor = 1.24**)

17. **A. F. M. Motiur Rahman**, Roushown Ali, Yurngdong Jahng and Adnan A. Kadi, A Facile Solvent Free Claisen-Schmidt Reaction: Synthesis of α,α′-bis-(Substitutedbenzylidene)cycloalkanones and α,α′-bis-(Substituted-alkylidene)cycloalkanones, Molecules, **2012**, 17 (1), 571-583, (doi:10.3390/molecules17010571). (**Impact factor = 4.93**)

16. **A. F. M. Motiur Rahman** and Yurngdong Jahng, Synthesis of 8-aryloxycaffeines and their inhibitory activities on topoisomerase II, Yakhak Hoeji **2011**, 55 (6), 441-445.

15. Yurngdong Jahng, **A. F. M. Motiur Rahman**, Synthesis and Properties of 2,2'Di(heteroaryl)-9,9'-spirobifluorenes, Bulletin of the Chemical Society of Japan, **2010**, 83 (6), 672-677 (doi: 10.1246/bcsj.20090121). (**Impact factor = 1.2**)

14. Yurngdong Jahng, Young Hwan Hong, and **A.F.M. Motiur Rahman**, Synthesis and properties of ruthenium(II) complexes of 3,3'-polymethylene-2-(pyrid-2'-yl)benzo[b]-1,10phenanthrolines, Journal of Coordination Chemistry, **2010**, 63 (10), 1774-1784 (**doi:**10.1080/00958972.2010.487101). (**Impact factor = 1.75**)

13. Dong Hyeon Kim, **A. F. M. Motiur Rahman**, Byeong-Seon Jeong, Eung Seok Lee and Yurngdong Jahng, Acetate-Promoted Aldol-Type Reaction: Scope and Reactivity of Acetates and Aldehydes. Bull. Korean Chem. Soc. 30(4), 797-802, **2009** (doi: http://dx.doi.org/10.5012/bkcs.2009.30.4.797). (**Impact factor = 1.2**)

12. **A. F. M. Motiur Rahman**, Dong Hyeon Kim, Jing Lu Liang, Eung-Seok Lee, Younghwa Na, Kyu-Yeon Jun, Youngjoo Kwon, and Yurngdong Jahng, Synthesis and Biological Properties of Luotonin A Derivatives. Bull. Korean Chem. Soc. 29(10), 1988-1992, **2008** (doi: http://dx.doi.org/10.5012/bkcs.2008.29.10.1988). (**Impact factor = 1.2**)

11. **A. F. M. Motiur Rahman**, Jing Lu Liang, Seung Ho Lee, Jong Keun Son, Mi-Ja Jung, Youngjoo, Kwon, and Yurngdong Jahng, 2,2-Dimethyl-2*H*-pyran-Derived Alkaloids I. Practical Synthesis of Acronycine and Benzo[*b*]acronycine and Their Biological Properties. Arch. Pharm. Res. 31(9), 1087-1093, **2008** (doi: 10.1007/s12272-001-1273-7). (**Impact factor = 4.95**)

10. **A. F. M. Motiur Rahman** and Yurngdong Jahng, Benzo[b]-1,10-Phenanthrolines. V. Synthesis and Properties of 3,3'-Polymethylene-2-(pyrid-2'-yl)benzo[b]1,10phenanthrolines. Heterocycles, 75(10), 2507-12, **2008** (doi: 10.3987/COM-08-11423). (**Impact factor = 0.83**)

9. **A. F. M. Motiur Rahman** and Yurngdong Jahng, Synthesis and Properties of 3,3'Polymethylene-2,2'-bibenzo[b]1,10-phenanthrolines. Heterocycles, 75(4), 871-77 (doi: 10.3987/COM-07-11281), **2008**. (**Impact factor = 0.83**)

8. Hee Wook Jung, Joon Seok Oh, Seung Ho Lee, Jiang Lu Liang, Dong Hyeon Kim, **A. F. M. Motiur Rahman**, and Yurngdong Jahng, A Facile Synthesis of Mollugin, Bull. Korean

Chem. Soc. 28 (10), 1863-66, **2007 (**doi: http://dx.doi.org/10.5012/bkcs.2007.28.10.1863). (**Impact factor = 1.2**)

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Conferences Attended / Paper Presented:

Oral Presentations:

5. Towards Anticancer Therapeutics: Synthesis to Metabolic Profiling, 6th International Postgraduate Conference on Pharmaceutical Sciences 2018 (**IPOPS 2018**), 13-16 Aug 2018, IMU Bukit Jalil, Kuala Lumpur, **Malaysia**. (Invited Speaker).

4. Simple synthesis and Biological Properties of Goniothalamin, The Fourth International Chemistry Conferences, **2011**, November 19-21, Riyadh, **Saudi Arabia**.

3. Improved Synthesis and Cytotoxicity of Goniothalamin, 16th Malaysian Chemical Congress (16MCC) **2010**, October 12-14, Putra World Trade Center, **Kuala Lumpur, Malaysia**.

2. Synthesis and Properties of New Polydentates and Their Metal Complexes b) Synthesis of Biological Active Natural Products (Luotonin A, Mollugin, and Acronycine), Institute for the Study of Natural Remedies (iKUS), Faculty of Pharmacy, University Technology Mara (UiTM), Shah Alam, Selangor -40450, 10th September **2009, Malaysia**,

1. Friedländer condensation of benzo[b]-1,10-phenan-throlines with acetylbenzenes and triacetyl methane and their reactions with Ru(tpy)Cl3. 1st Group Meeting of Division of Medicinal and Pharmaceutical Organic Chemistry for Yeungnam University and Catholic University of Daegu, 12th April, **2006**, Gyeongsan, **Korea**

Poster Presentations:

37. Wencui Yin, Adnan A Kadi, Reem Alwabli and A F M Motiur Rahman. Metabolism Study of Simvastatin in Rat Tissues using MALDI Orbitrap Mass Spectrometry. 67th Conference on Mass Spectrometry and Allied Topics, June 2-6, **2019**, Atlanta, GA, **USA**.

36. Adnan A Kadi; A. F. M. Motiur Rahman. In vitro Investigation of Metabolic Profiling of Newly Developed Topoisomerase Inhibitors Namely Pyrazoline Derivatives in RLMs by LC-MS/MS. 66th Conference on Mass Spectrometry and Allied Topics, June 3-7, **2018**, San Diego, CA, **USA**.

35. Adnan A Kadi; Nasser S. Al-Shakliah; Youngjoo Kwon; A. F. M. Motiur Rahman. In vitro Investigation of Metabolic Profiling of Newly Developed Topoisomerase Inhibitors (Ethyl Fluorescein Hydrazones, EtFLHs) in RLMs by LC-MS/MS. 65th Conference on Mass Spectrometry and Allied Topics, June 4-8, **2017**, Indianapolis, IN 46225, **USA**

34. Adnan A Kadi; Nasser S. Al-Shakliah; Youngjoo Kwon; A. F. M. Motiur Rahman. Metabolic Profiling of Two Novel Topo IIα Catalytic Inhibitors, Fluorescein Hydrazones in rat liver microsomes (RLMs) by LC-MS/MS; 64th Conference on Mass Spectrometry and Allied Topics, 5-9 June **2016**, San Antonio, Texas, **USA**.

33. Wencui Yin, Yurngdong Jahng, Youngjoo Kwon, **A. F. M. M. Rahman.** Design, Synthesis and Biological Evaluation of Diarylheptanoids, 251st ACS National Meeting & Exposition, March 13-17, **2016** in San Diego, CA, **USA**.

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30. Eunice Li-Chan,* David Kitts, Imelda Cheung, Yazheng Liu, Adnan Kadi, Hasabelrasoul Mohammed, **A. F. M Motiur Rahman**, Ali Saber, Mohammed Attwa, Giuseppe Mazza, Bioactive properties of protein hydrolysates from camel, cow, goat, sheep and human milks, 7th International Conference and Exhibition on Nutraceuticals and Functional Foods, October 14-17, **2014**, Istanbul, **Turkey**.

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27. Adnan A Kadi; Mohamed W. Attwa; **A. F. M. Motiur Rahman**,* A Comparative Study of Chalcones Fragmentation: Induced In-source Fragmentation in ESI-Triple Quadrupole with MS3 in ESI-Ion Trap, 62nd ASMS Conference on Mass Spectrometry and Allied Topics, 62nd ASMS Conference, 15-19 June **2014**, Baltimore, Maryland, **USA**.

26. **A. F. M. Motiur Rahman**, Mohamed W. Attwa, Adnan, A. Kadi, A Study of the Presence of Arecoline and Guvacoline in Saliva of 'Betel-Quid' Chewer Using Ion Trap LC/MS, 61th ASMS Conference, 9-13 June **2013**, Minneapolis, Minnesota, **USA**.

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Regional Meeting of the American Chemical Society, 26-29 June **2011**, NORM-171, Portland, OR, **USA**.

23. Adnan A. Kadi, Mohammed A. Wazi and **A. F. M. Motiur Rahman*** Fragmentation pattern of Chalcone derivatives applying Direct Analysis in Real Time (DART) Mass Spectroscopic Technique. The 59th American Society for Mass Spectroscopy (ASMS) Conference, June 5-9, **2011**, Denver, CO, **USA**.

22. Mazlin Mohideen, Nik-Salmah Nik-Salleh, Suraya Zulkepli, Mohd Zulkefeli Mat Jusoh, Jean-Frédéric Faizal Weber, **A. F. M. Motiur Rahman*** Simple and efficient Synthesis of Goniothalamin, 16th Malaysian Chemical Congress (16MCC) **2010**, October 12-14, Kuala Lumpur, **Malaysia**

21. Suraya Zulkepli, Nik-Salmah Nik-Salleh, Mazlin Mohideen, Mohd Zulkefeli Mat Jusoh, Jean-Frédéric Faizal Weber and **A. F. M. Motiur Rahman*** Synthesis of Styryllactone Derivatives, 16th Malaysian Chemical Congress (16MCC) **2010**, October 12-14, Putra World Trade Center, Kuala Lumpur, **Malaysia.**

20. Nik-Salmah Nik-Salleh, Suraya Zulkepli, Mazlin Mohideen, Mohd Zulkefeli Mat Jusoh, Jean-Frédéric Faizal Weber and **A. F. M. Motiur Rahman*** A novel way to prepare Wittig reagents under microwave irradiation and synthesis of halogenated styryllactones, 16th Malaysian Chemical Congress (16MCC) **2010**, October 12-14, Putra World Trade Center, Kuala Lumpur, **Malaysia.**

19. Suraya Zulkepli, Nik-Salmah Nik-Salleh, Mazlin Mohideen, Mohd Zulkefeli Mat Jusoh, Jean-Frédéric Faizal Weber and **A. F. M. Motiur Rahman*** Synthesis of Styryllactone Derivatives, International Conference for Young Chemists, 23rd - 25th June **2010**, Penang, **Malaysia.**

18. Nik-Salmah Nik-Salleh, Suraya Zulkepli, Mazlin Mohideen, Mohd Zulkefeli Mat Jusoh, Jean-Frédéric Faizal Weber and **A. F. M. Motiur Rahman*** A novel way to prepare Wittig reagents under microwave irradiation and synthesis of halogenated styryllactones, International Conference for Young Chemists, 23rd - 25th June **2010**, Penang, **Malaysia.**

17. Mazlin Mohideen, Nik-Salmah Nik-Salleh, Suraya Zulkepli, Mohd Zulkefeli Mat Jusoh, Jean-Frédéric Faizal Weber, **A. F. M. Motiur Rahman*** Simple Synthesis of Goniothalamin from (3,4-Dihydro-2*H*-pyran-2-yl)methanol, International Conference for Young Chemists, 23rd - 25th June **2010**, Penang, **Malaysia.**

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15. Y. H. Hong, W. J. Lee, **A. F. M. Motiur, Rahman,** D. H. Kim, J. L. Liang, E. S. Lee, Y. H. Na, K.-Y. Jun, Y. J. Kwon, Y. Jahng, Synthesis and Biological Properties of Luotonin A Derivatives on Ring A and B, Abstract, Page number- 483, BIT's 6th Annual congress of International Drug Discovery Science and Technology, 18-22nd October, **2008**, long Palace Hotel and Resort, Beijing, **China**.

14. Y. Jahng, J. M. Chea, **A. F. M. M. Rahman,** J. L. Liang, S. H. Lee, J. K. Son, M.-J. Jung, Y. Kwon, Practical Synthesis of Selected 2,2-Dimethyl-2H-pyran-Derived Natural Products and their Biological Properties, Abstract, Page number-484, BIT's 6th Annual congress of International Drug Discovery Science and Technology, 18-22nd October, **2008**, long Palace Hotel and Resort, Beijing, **China**.

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12. J. M. Chae, D. H. Kim, J. L. Liang, **A. F. M. Motiur Rahman**, Y. Jahng, K.-Y. Jun, Y. J. Kwon, Synthesis and Biological Properties of Luotonin A Derivatives as Potential Analogues of Camptothecin. Abstract, Page number-264, Proceedings of the Spring International Convention, 30th April- 3rd May, **2008**, International Convention Center Jeju, **Korea**.

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8. **A. F. M. Motiur Rahman**,* *et al.,* A facile synthesis of α,α′-bis(substituted-benzylidene)cycloalkanones and substituted-benzylidene heteroaromatics: Utility of NaOAc as a catalyst for aldol-type reaction. Abstract, Page number-281, Proceedings of the

Convention of the Pharmaceutical Society of Korea, 11-12th May **2007**, Kimdaejung Convention center, Kwangju, **Korea**.

7. **A. F. M. Motiur Rahman**,* *et al.,* A facile synthesis of α,α′-bis(substituted-benzylidene)cycloalkanones and substituted-benzylidene heteroaromatics: Utility of NaOAc as a catalyst for aldol-type reaction. Abstract, Page number-76, 3rd Workshop of Division of Medicinal Chemistry, The Pharmaceutical society of Korea, 20-21st June **2007**, Anmeong-do, **Korea**.

6. Liang Jing Liu, **A. F. M. Motiur Rahman**, Jahng Yurngdong, Preparation of Geminal Diacylates (Acylals) of Aldehydes: Scope and Reactivity of Aldehydes and Acid Anhydrides. Abstract, Page number-291, Proceedings of the Convention of the Pharmaceutical Society of Korea, 11-12th May **2007**, Kimdaejung Convention center, Kwangju, **Korea**.

5. **A. F. M. Motiur Rahman**,* *et al.,* Homologues of Luotonin A, an Alkaloid from Peganum nigellastrum. Abstract, Page number-100, The Third China-Korea-Japan Joint Symposium on Pharmacognosy, 2-4th November, **2006**, Hangzhou, **China**.

4. **A. F. M. Motiur Rahman**,* *et al.,* Synthesis and Biological Properties of Luotonin A Homologues and Their Aza-Analogues. Abstract, Page number-202, Proceedings of the Convention of the Pharmaceutical Society of Korea, 16-17th April **2006**, BEXCO, Pusan, **Korea**.

3. **A. F. M. Motiur Rahman**,* *et al.,* Synthesis and Biological Properties of Luotonin A Homologues and Their Aza-Analogues. Abstract, Page number-55, 2nd Workshop of Division of Medicinal Chemistry, The Pharmaceutical society of Korea, 16-17th June **2006**, Gangwon-do, **Korea**.

2. **A. F. M. Motiur Rahman**,* *et al.,* Synthesis and Properties of Benzo[b]-1,10Phenanthrolines and Their Reactions With Ru(tpy)Cl3. Abstract, Page number-323, 11th Asian Chemical Congress, 24-26th August, **2005**, Seoul, **Korea.**

1. **A. F. M. Rahman Motiur**,* *et al.,* A Simple Synthesis of Nordihydroguaiaretic Acid (NDGA) and Its Analogues. Abstract, Page number-79, 1st Workshop of Division of Medicinal Chemistry, The Pharmaceutical society of Korea, 17-18th June, **2005**, Gangwondo, **Korea**.

Book Chapters:

1. Mohammed Gabr Kassem, **A. F. M. Motiur Rahman**, and Hesham M. Korashy; **Sunitinib Malate** in Profiles of Drug Substances, Excipients, and Related Methodology, 2012, 37, Chapter 9, page 363-388.
2. **A. F. M. Motiur Rahman**, Hesham M. Korashy, and Mohammed Gabr Kassem; **Gefitinib** in Profiles of Drug Substances, Excipients, and Related Methodology, **2014**, 39, Chapter 4, page 239-264.

3. Abdelkader E. Ashour, A. F. M. Motiur Rahman, and Mohammed G. Kassem; **Vardenafil dihydrochloride** in Profiles of Drug Substances, Excipients, and Related Methodology, **2014**, 39, Chapter 9, page 515-544.
4. Hesham M. Korashy, **A. F. M. Motiur Rahman**, and Mohammed Gabr Kassem; **Dasatinib** in Profiles of Drug Substances, Excipients, and Related Methodology, **2014**, 39, Chapter 4, page 205-237.

Patent:

Youngjoo Kwon, **A. F. M. Motiur Rahman**, Adnan A. Kadi, Yonugha Na, Preparation of pyrazoline derivatives for the treatment of cancer patent WO2017048069A1, 2017

Technical / Characterization Skills:

Capable of operating NMR (250, 400, 500 and 600 MHz), UV, IR, LC/MS, HPLC, GC, Fluorescence Spectrophotometer, Elemental Analyzer, Microwave Reactor, Ultra Centrifuge, Ozone Generator etc.

Computer Skills:

SciFinder, Beilstein, ChemDraw, Reaxys etc.

Training Obtained:

 Attended one month in-plant training course at Doctors Chemical Limited, Bogra, Bangladesh, a leading national pharmaceutical company in Bangladesh. Obtained training on manufacturing as well as quality control operation of packaging, warehouse, administration, tablets, capsules, (both antibiotic and non-antibiotic), and ODS (Oral dehydration salt) section.

 Attended two months FT-NMR (300, 600 MHz) training courses at Instrumental Analysis Center, Yeungnam University, Gyeongsan 712-749, Korea.

Membership and Professional Activities:

 The Pharmaceutical Society of Korea

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Editorial Board Member and Reviewer:

Guest Associate Editor: Frontiers in Chemistry (Special topic: Small Organic Molecules with Anticancer Activity) https://www.frontiersin.org/research-topics/43116/small-organic-molecules-with-anticancer-activity

Assistant Editor (Chemistry) 2012-2013: Versita Publishing (http://degruyteropen.com)

Consulting Editor: Malaysian Journal of Medical and Biological Research (http://jmbrmy.weebly.com/)

Editorial Board Member:

1. International Journal of Oncology Research
(https://clinmedjournals.org/editorial_board.php?jid=ijor)
2. The Gazette of Medical Science (TheGMS)
(https://www.thegms.co/editorial-board)
3. Journal of Medicinal Chemistry & Studies (JMCS)
(http://www.annexpublishers.co/editorial-board/member/1102/A-F-M-Motiur-RahmanJournal-of-Medicinal-Chemistry-and-Studies/)
4. Journal of Medicinal Chemistry and Drug Designing,
(http://www.scholarenagroup.com/journals/journal-of-medicinal-chemistry-and-drugdesigning/editorial-board.php)
5. Journal of Nature, Science & Technology
(https://acapublishing.com/journals/6/janset)
6. Malaysian Journal of Medical and Biological Research
(https://jmbr-my.weebly.com/editorial-board.html)

Reviewer:

Journal of Medicinal Chemistry, ACS Omega, Chemical Communication, Scientific Reports, Frontier in Chemistry, Tetrahedron, Tetrahedron Asymmetry, European Journal of Medicinal Chemistry, Bioorganic Medicinal Chemistry, RSC Advance, Green Chemistry, Bulletin of the Korean Chemical Society, Arabian Journal of Chemistry, Journal of Pharmaceutical Science, Archive of Pharmacol Research, RSC Advance, MDPI, etc.

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