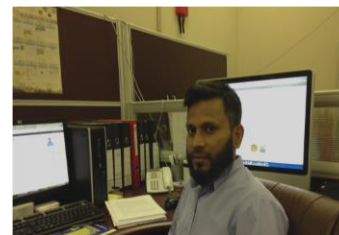


Curriculum Vitae

A. F. M. Motiur Rahman, Ph.D

Associate Professor,
Department of Pharmaceutical Chemistry,
College of Pharmacy, King Saud University,
Riyadh 11451, Saudi Arabia.
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Email: afmrahman@ksu.edu.sa; or: afm_motiur@yahoo.com; [website](#)



Researcher ID	http://www.researcherid.com/rid/B-5442-2012
Orchid ID	http://orchid.org/0000-0002-5807-5625
Total no. of peer reviewed articles	34
h-index:	9
i10-index:	9
Total no. of citations (Google Scholar):	252
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 Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh 11451, Kingdom of Saudi Arabia

Assistant Professor (2010.10.02 - 2016.02.28): Department Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh 11451, Kingdom of Saudi Arabia.

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 fund 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:

◇ Currently I am working on synthesis, biological evaluation and metabolic profiling of biological active natural products (e.g. fluorescein, chalcones and pyrazolines). Beside these, 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, goniothalamine and its derivatives, styryllactones, etc. There, I have developed a new route for the synthesis of goniothalamine 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 Doxorubicin-conjugates.

◇ 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 α -tetralones, PIDA oxidation to tetrahydro- β -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 natural and unnatural 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.)

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:

34. **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 Diarylheptanoids: Synthesis, Biological Evaluation and SARs Studies as Potential Anticancer Therapeutics*. Archives of Pharmacal Research, **2017** (Accepted on 16th October 2017). (**Impact factor = 2.324**)

33. 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 = 2.603**)

32. **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, 27-35, (<http://doi.org/10.1016/j.jchromb.2017.03.041>). (**Impact factor = 2.603**)
31. 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)Cl₃ and properties of the products*. *Archives of Pharmacal Research*, **2017**, 40, 563-570 ([10.1007/s12272-017-0894-1](http://doi.org/10.1007/s12272-017-0894-1)). (**Impact factor = 2.324**)
30. 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 II α 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 = 4.519**)
29. Pervez Ahmad, Hyunjung Woob, Kyu-Yeon Junb, Adnan A. Kadi, Hatem A. Abdel-Aziza, 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 II α catalytic inhibitor, *Bioorganic & Medicinal Chemistry*, **2016**, 24, 1898-1908 (<http://dx.doi.org/10.1016/j.bmc.2016.03.017>). (**Impact factor = 2.930**)
28. 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 = 2.930**)
27. 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).
26. 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*, **2015** (In Press doi:10.1016/j.arabjc.2015.02.021). (**Impact factor = 4.553**)

25. **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 = 4.529)

24. **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 = 6.259)

23. 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-Chromatography Ion Trap Mass Spectrometry](#), European Journal of Mass Spectrometry, **2013**, 19, 391-397 (doi: 10.1255/ejms.1245). (Impact factor = 1.022)

22. **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.

21. 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 Goniothalamine analogs](#), Archives of Pharmacal Research, **2013**, 36 (7), 812-831 (doi:10.1007/s12272-013-0099-1). (Impact factor = 2.324)

20. **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 = 0.602)

19. **A. F. M. Motiur Rahman** and Adnan A Kadi, [Solvent free Cannizzaro reaction applying grindstone technique](#), Arabian Journal of Chemistry, **2012** (Published online, <http://dx.doi.org/10.1016/j.arabjc.2012.02.010>). (Impact factor = 4.553)

18. **A. F. M. Motiur Rahman**, Mohammad Sayed Alam and Adnan A. Kadi, [Synthesis and antimicrobial activity of novel tetrabromo- \$\alpha,\alpha'\$ -bis\(substituted-benzyl\)cycloalkanones](#), Journal of the Serbian Chemical Society, J. Serb. Chem. Soc. **2012**, 77 (6) 717-723, (doi: 10.2298/JSC110408005M). (Impact factor = 0.822)

17. **A. F. M. Motiur Rahman**, Roushown Ali, Yurngdong Jahng and Adnan A. Kadi, [A Facile Solvent Free Claisen-Schmidt Reaction: Synthesis of \$\alpha,\alpha'\$ -bis-\(Substituted-benzylidene\)cycloalkanones and \$\alpha,\alpha'\$ -bis-\(Substituted-alkylidene\)cycloalkanones](#), *Molecules*, **2012**, 17 (1), 571-583, (doi:10.3390/molecules17010571). (**Impact factor = 2.861**)
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 = 0.602**)
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\[b \]-1,10-phenanthrolines](#), *Journal of Coordination Chemistry*, **2010**, 63 (10), 1774-1784 (doi:10.1080/00958972.2010.487101). (**Impact factor = 1.795**)
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 = 0.602**)
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 = 0.602**)
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-2H-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 = 2.324**)
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\[b\]1,10-phenanthrolines](#). *Heterocycles*, 75(10), 2507-12, **2008** (doi: 10.3987/COM-08-11423). (**Impact factor = 0.805**)
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 = 0.805**)

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 = 0.602**)
7. **A. F. M. Motiur Rahman** and Yurngdong Jahng, [Synthesis and Properties of Benzo\[b\]-1,10-Phenanthrolines and Their Metal Complexes](#), Heteroatom Chemistry, 18(6), 650-56, **2007** (doi: 10.1002/hc.20358). (**Impact factor = 1.221**)
6. **A. F. M. Motiur Rahman** and Yurngdong Jahng, [Synthesis and Properties of 3,2'-Polymethylene-2-phenylbenzo\[b\]phenanthrolines](#). Heterocycles, 71(9), 2003-10, **2007** (doi: 10.3987/COM-07-11094). (**Impact factor = 0.805**)
5. **A. F. M. Motiur Rahman**, Byeong-Seon Jeong, Dong Hyeon Kim, Jung Ki Park, Eung Seok Lee and Yurngdong Jahng, [A facile synthesis of \$\alpha,\alpha'\$ -bis\(substitutedbenzylidene\)-cycloalkanones and substituted-benzylidene heteroaromatics: utility of NaOAc as a catalyst for aldol-type reaction](#). Tetrahedron, 63 (11), 2426-31, **2007** (doi.org/10.1016/j.tet.2007.01.020). (**Impact factor = 2.651**)
4. **A. F. M. Motiur Rahman** and Yurngdong Jahng, [Preparation of Geminal Diacylates \(Acylals\) of Aldehyde-Scope and Reactivity of Aldehyde with Acid Anhydride](#). European Journal of Organic Chemistry, 2, 379-83, **2007** (doi: 10.1002/ejoc.200600737). (**Impact factor = 2.834**)
3. **A. F. M. Motiur Rahman** and Yurngdong Jahng, [Simple Synthesis of Geminal Diacetates \(Acylals\) of Aromatic Aldehydes](#). Synthetic Communications, 36 (9), 1213-20, **2006** (doi:10.1080/00397910500514154). (**Impact factor = 1.134**)
2. **A. F. M. Motiur Rahman**, Youngjoo Kwon, and Yurngdong Jahng, [Friedländer Reactions of Triacetylmethane –Unusual Distribution of Products](#). Heterocycles, 65 (11), 2777–82, **2005** (doi: 10.3987/COM-05-10534). (**Impact factor = 0.805**)
1. H. N. Roy, **A. F. M. M. Rahman** and M. A. Islam, [Regiospecific synthesis of carboxylated & simple \$\alpha\$ -tetralones with homophthalates and various acrylates by simple condensation method](#). Journal of Chemical Research (S), 594-96, **2003** (doi: <http://dx.doi.org/10.3184/030823403322597766>). (**Impact factor = 0.646**)

Conferences Attended / Paper Presented:

Oral Presentations:

4. [Simple synthesis and Biological Properties of Goniotalamin](#), The Fourth International Chemistry Conferences, **2011**, November 19-21, Riyadh, **Saudi Arabia**
3. [Improved Synthesis and Cytotoxicity of Goniotalamin](#), 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, **Malaysia**, 10th September **2009**
1. [Friedländer condensation of benzo\[*b*\]-1,10-phenanthrolines 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:

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 II \$\alpha\$ 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**.
32. **Rahman, A. F. M. Motiur.**; Lu, Yang; Yin, Wencui; Jahng, Yurngdong. [Synthesis of acerogenin C, acerogenin L and galeon derivatives of for the development of anticancer therapeutics](#), 251st ACS National Meeting & Exposition, March 13-17, **2016** in San Diego, CA, **USA**.
31. **A. F. M. M. Rahman**, So-Eun Park, Youngjoo Kwon, Adnan A. Kadi, [Fluorescein Hydrzones as Novel Non-intercalative Topoisomerase Catalytic Inhibitors with Low DNA Toxicity](#), 249th ACS National Meeting & Exposition, March 22-26, **2015** in Denver, CO, **USA**.

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**.
29. Nasser Salem, Adnan A. Kadi, **A. F. M. Motiur Rahman***, [Synthesis and fragmentation behaviour study of N-alkyl/aryl Isatin derivatives: A precursors for the preparation of biological active heterocycles](#), Challenges in Organic Chemistry (ISACS14), 7-10 August **2014**, SIOC, Shanghai, **China**.
28. Mohamed W Attwa, Nasser Salem, Ali S. Abdelhameed, **A. F. M. Motiur Rahman***, Adnan A. Kadi,*, [Capillary Exit Voltage-Induced vs. CID Fragmentation Behavior of Four Antiviral Drugs in an Agilent Ion Trap Mass Spectrometer](#), 62nd ASMS Conference, 15-19 June **2014**, Baltimore, Maryland, **USA**.
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**.
25. **A. F. M. Motiur Rahman***, Pervez Ahmed Adnan A. Kadi, [Direct Analysis in Real Time \(DART\) Screening of the Chemical Compositions of Turmeric \(*Curcuma longa* Linn.\) Rhizome](#). 60th ASMS Conference on Mass Spectrometry and Allied Topics, 20-24 May **2012**, Vancouver, BC, **Canada**.
24. Jahng, Yurngdong, **Rahman, A. F. M. Motiur**, Moinul, Karim, Cha, Hyo Chang, [Synthesis and Properties of 9,9'-Spirobifluorene-Based Polypyridines](#). 66th Northwest 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 Goniothalamine](#), 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 Goniothalamine from \(3,4-Dihydro-2H-pyran-2-yl\)methanol](#), International Conference for Young Chemists, 23rd - 25th June **2010**, Penang, **Malaysia**.

16. **A. F. M. Motiur, Rahman** and Y. Jahng, [Preparation of 4-Aminoacridine-3-Carboxaldehyde and Application to the Synthesis of Polydentates](#), Abstract, Page number-39, The 2nd Daegu University-Saga University Joint Symposium, 6th October, **2008**, Daegu University, Daegu, **Korea**.

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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**.

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

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Book Chapter:

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.

Technical / Characterization Skills:

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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, ware house, administration, tablets, capsules, (both antibiotic and non-antibiotic), and ODS (Oral dehydration salt) section.

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- ◇ The Pharmaceutical Society of Korea
- ◇ Korean Chemical Society
- ◇ Saudi Chemical Society
- ◇ Saudi Pharmaceutical Society
- ◇ American Society for Mass Spectrometry

Editorial Board Member and Reviewer:

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

Consulting Editor: Malaysian Journal of Medical and Biological Research <http://jmbr-my.weebly.com/>)

Editorial Board Member: Jacobs Journal of organic Chemistry (<http://organicchemistry.jacobspublishers.com/#>)

Editorial Board Member: International Journal of Oncology Research (https://clinmedjournals.org/editorial_board.php?jid=ijor)

Editorial Board Member: Journal of Pharmaceutics and Pharmacology Research (<http://auctoresonline.org/journals/pharmaceutics-and-pharmacology-research/editorial-board>)

Reviewer: Journal of Medicinal Chemistry, Tetrahedron, Tetrahedron Asymmetry, European Journal of Medicinal Chemistry, Bioorganic Medicinal Chemistry, Green Chemistry, Bulletin of the Korean Chemical Society, Arabian Journal of Chemistry, Journal of Pharmaceutical Science, etc.

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