

Dr. Md. Atiqur Rahman

Ph.D., M.Sc., B.Sc.

Department of Applied Chemistry & Chemical Engineering

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RESEARCH INTERESTS

- Natural Products Chemistry, Pharmacognosy, & Biotechnology (Isolation & characterization of medicinally important compounds, Analyses of essential oils, and biological screening of natural products).

EDUCATION AND WORK EXPERIENCE

- PhD in Biotechnology at Daegu University, South Korea [9/2005-2/2009]
 - Dissertation: “Biological activities of natural products derived from *Poncirus trifoliata* Rafin.”
 - Advisor: Prof. Dr. Sun Chul Kang
- M.Sc. (Applied Chemistry & Chemical Technology) from Rajshahi University, Bangladesh [7/1992-6/1993]
 - Dissertation: “Physico-chemical and antimicrobial studies on *Nymphoides cristatum* (Roxb.) O. Kuntze”
 - Advisor: Prof. Dr. M. A. Sayeed
- B.Sc. (Applied Chemistry & Chemical Technology) from Rajshahi University, Bangladesh [7/1989-6/1992]
- Professor of Applied Chem. & Chem. Eng., at Islamic University, Kushtia, Bangladesh [9/2012- present]
- Associate Professor of Applied Chem. & Chem. Eng., at Islamic University, Kushtia, Bangladesh [5/2009- 9/2012]
- Assistant Professor of Applied Chem. & Chem. Eng., at Islamic University, Kushtia, Bangladesh [11/2002-5/2009]
- Lecturer of Applied Chem. & Chem. Eng., at Islamic University, Kushtia, Bangladesh [2/2000-11/2002]
- Scientific Officer at Bangladesh Council of Scientific & Industrial Research, Dhaka [11/1999-2/2000]

PROFESSORIAL ACTIVITIES/SYNERGISTIC ACTIVITIES

- **Professional Societies:** Membership in Bangladesh Botanical Society
- **Graduate Students Advisor:** PhD student: 01, Master Students: 30
- **Courses Taught:** Inorganic Chemistry, Organic Chemistry, Chemical Technology, Pharmaceutical Chemistry, Pharmaceutical Technology, Pharmacognosy, Spectroscopic and Chromatographic Techniques, Research Methodology, and Natural Products & Biomolecules (3 credits for each).
- **Funding Received/Project work:** Since 2000 to present: 10 research projects funded by the UGC, & MOST.
- **Major Collaborations:** Dr. Sun Chul Kang (Biotech., Natural Products, Dept. of Biotechnology, Daegu University, Korea) and Dr. Ibrahim Demirtas (Organic Chem., Natural Products, Dept. of Biochemistry, Igdir University, Turkey).

AWARDS/ACHIEVEMENTS

- Erasmus+ KA171 International Teaching Mobility, Igdir University, Turkey (2023/2024).
- Erasmus+ KA107 International Training Mobility, Cankiri Karatekin University, Turkey (2019/2020).
- Tubitak 2221 Fellowship for Postdoc., Dept. of Chemistry, Cankiri Karatekin University, Turkey (2015-2016).
- University Fellowship for Postdoc., Dept. of Biotechnology, Daegu University, Korea (2015).
- Korean Govt. (BK21) Scholarship for PhD, Dept. of Biotechnology, Daegu University, Korea (2005-2009).
- University Scholarship on the results of M.Sc. from the University of Rajshahi, Bangladesh (1993).
- University Scholarship on the results of B.Sc. from the University of Rajshahi, Bangladesh (1992).
- Gold Medal on the results of B.Sc. from the University of Rajshahi, Bangladesh (1992).

RESEARCH PROFILE

- Google scholar link, <https://scholar.google.com/citations?user=IRR9Nz4AAAAJ>
- Total citations: 3037, h-index: 28, i10-index: 44 according to google scholar record
- Orcid ID: 0000-0003-4228-1149 (link, <https://orcid.org/0000-0003-4228-1149>)

- ResearchGate link, <https://www.researchgate.net/profile/Md-Atiqur-Rahman-34/publications>

PUBLICATIONS- Refereed Journal Articles (total: 63; 2024 – 2000) (* indicates corresponding author)

- Md. Rokonzaman, Atiqur Rahman*, Abu Reza, Nilufar Yasmin Liza, Sezer Okay, M. Abu Hena Mostofa Jamal, Ibrahim Demirtas (2024). Comparative Analysis of Chemical Composition and Antibacterial Activities of Essential Oils from Two *Ocimum* Species, *Anti-Infective Agents*, Vol. 22(2), 74-84, DOI: 10.2174/0122113525274800231120065500 (Indexed in BIOSIS Previews, Scopus, PubHub; IF: 0.728).
- Atiqur Rahman*, Shah Alam Siddiqui, Muhammed Altun, Ibrahim Demirtas (2023). *Premna integrifolia* Linn: Phytochemical Profile and Evaluation of Antiproliferative Effects, *ChemistrySelect*, Vol. 8(9), 1-8, <https://doi.org/10.1002/slct.202204854> (Indexed in SCIE, Scopus; IF: 2.3).
- Md. Mashiar Rahman, Md. Masnoon Kabir, Md. Abdullah AL Noman, Md. Rakibul Islam, Biplab Kumar Dash, Shahina Akhter, Mohammad Jashim Uddin, Atiqur Rahman (2020). *Mikania cordata* leaves extract promotes activity against pathogenic bacteria and anticancer activity in EAC cell-bearing swiss albino mice, *J. Applied Pharm. Sci.*, Vol. 10(02), 112-122, DOI: 10.7324/JAPS.2020.102017 (Indexed in SCIE, Scopus; IF: 1.47).
- Atiqur Rahman*, Shah Alam Siddiqui, M. Oliur Rahman, Sun Chul Kang (2020). Cyclo(L-Pro-L-Tyr) from *Streptomyces* sp.150: Exploiting in vitro potential in controlling foodborne pathogens and phytopathogens, *Anti-Infective Agents*, Vol. 18(2), 169-177, DOI: 10.2174/2211352517666190716155147 (Indexed in BIOSIS Previews; Scopus, PubHub; IF: 0.728).
- SS Roy, A Rahman, MM Rahman (2020). Phytochemical analysis and antibacterial activity of organic extract of *Catharanthus roseus* L. flower against gram-positive and gram-negative bacteria, *Journal of Agriculture, Food and Environment*, Vol. 1(4), 87-93, <http://doi.org/10.47440/JAFE.2020.1413>.
- Shah Alam Siddiqui, Atiqur Rahman*, M. Oliur Rahman, Mohammad Ahsanul Akbar, Mohammad Ajmal Ali, Fahad M.A. Al-Hemaid, M.S. Elshikh, M. Abul Farah (2019). A novel triterpenoid 16-hydroxy betulinic acid isolated from *Mikania cordata* attributes multi-faced pharmacological activities, *Saudi J. Biol. Sci.*, 26 (3), 554-562; <https://doi.org/10.1016/j.sjbs.2018.03.002> (Indexed in SCIE/BIOSIS Previews/ PubMed/Scopus, IF: 4.4).
- Atiqur Rahman*, Shah Alam Siddiqui, Feyza Oke-Altuntas, Sezer OKAY, Fatih GÜL, Ibrahim Demirtas (2019). Phenolic Profile, Essential Oil Composition and Bioactivity of *Lasia spinosa* (L.) Thwaites, *Braz. arch. biol. technol.*, vol.62:e19170757; <https://doi.org/10.1590/1678-4324-2019170757> (Indexed in SCIE, BIOSIS Previews, The Zoological Record, Scopus; IF: 1.1).
- Md. Zahidul Islam, Jannat Al Faisal, Mahbubur Rahman, Mst. Afsana Mimi, Faridul Islam, Rasel Habib, Nowshin Farzana Khan, Md. Atiqur Rahman, Tanzima Parvin and Daxiang Cui (2019). Extraction, Radical Scavenging and Antimicrobial Activity of Essential Oils of Root of *Dryopteris marginalis*, *Asian Journal of Chemistry*, Vol. 31(11), 2512-2516, doi.org/10.14233/ajchem.2019.22109 (IF: 0.4).
- Atiqur Rahman*, Shah Alam Siddiqui, M. Oliur Rahman, Sun Chul Kang (2018). Insecticidal activity of essential oil from seeds of *Poncirus trifoliata* (L.) Raf., *Bangladesh J. Bot.*, 47(3), 413-419; DOI: 10.3329/bjb.v47i3.38678 (Indexed in SCIE, Scopus; IF: 0.339).
- Atiqur Rahman*, Mahmudur Rahman, Ibrahim Demirtas (2018). Chemical Composition and Antioxidant Potential of Essential Oil and Organic Extracts of *Euphorbia tithymaloides* L. from Kushtia Region, *Anti-Cancer Agents Med. Chem.*, Vol 18(10), 1482-1488, DOI: 10.2174/1871520618666180228122318 (Indexed in SCIE, Scopus, PubMed; IF: 2.8).
- Shah Alam Siddiqui, Atiqur Rahman*, M. Oliur Rahman, Mohammad Ahsanul Akbar, A.S. Shamsur Rouf, Mohammad Ajmal Ali, Fahad M.A. Al-Hemaid, Mohammad Abul Farah (2018). Evaluation of anti-nociceptive, anti-inflammatory and antipyretic potential of *Mikania cordata* (Burm. f.) Robinson in experimental animal model, *Saudi J. Biol. Sci.*, Vol 25 (6), pp. 1049-1055, <https://doi.org/10.1016/j.sjbs.2018.01.009> (Indexed in SCIE, BIOSIS Previews, PubMed, Scopus; IF: 4.4).
- SA Siddiqui, Rafiqueel Islam, R Islam, AHM Jamal, T Parvin, Atiqur Rahman*(2017). Chemical composition and antifungal properties of the essential oil and various extracts of *Mikania scandens* (L.) Willd. *Arabian Journal of Chemistry*, Vol 10 (Supplement 2), s2170-s2174, DOI: 10.1016/j.arabjc.2013.07.0501871520618666180228122318 (Indexed in SCIE, Scopus; IF: 6.212).
- MM Rahmana, T Sultana, MY Ali, MM Rahman, SM Al-Reza, Atiqur Rahman (2017). Chemical composition and antibacterial activity of the essential oil and various extracts from *Cassia sophera* L. against *Bacillus sp.* from soil.

Arab J Chem, Vol 10 (Supplement 2), s2132-s2137; <https://doi.org/10.1016/j.arabjc.2013.07.045> (Indexed in SCIE, Scopus; IF: 6.212).

- Sharif M Al-Reza, M Rokonzaman, Monira Afroz, Md Iqbal Hussain, MA Rashid, Atiqur Rahman*(2016). Chemical composition and antioxidant activity of the essential oil and organic extracts of *Premna integrifolia* Linn. *Braz. arch. biol. technol.*, Vol.59: e16160223, 1-8; <http://dx.doi.org/10.1590/1678-4324-2016160223>. (Indexed in SCIE, BIOSIS Previews, The Zoological Record, Scopus; IF: 1.1).
- Atiqur Rahman*, Zakia Sultana Shanta, M.A. Rashid, Tanzima Parvin, Shajia Afrin, Mst Khodeza Khatun, M.A. Sattar (2016). *In vitro* antibacterial properties of essential oil and organic extracts of *Premna integrifolia* Linn. *Arabian Journal of Chemistry*, Vol 9, S475-S479; DOI: 10.1016/j.arabjc.2011.06.003 (Indexed in SCIE, Scopus; IF: 6.212).
- Rafiqueel Islam, Atiqur Rahman (2015). A GC-MS Study: Identification of essential oil compositions of *Clerodendrum viscosum* Vent Flower. *J. Essent. Oil-Bear. Plants*, Vol. 18(5), 1271-1274; DOI: 10.1080/0972060x.2015.1024448.
- Atiqur Rahman*, Shah Alam Siddiqui, Rekha Jakhar, Sun Chul Kang (2015). Growth inhibition of various human cancer cell lines by imperatorin and limonin from *Poncirus Trifoliata* Rafin. seeds. *Anti-Cancer Agents Med. Chem.*, Vol. 15(2), 236-241; DOI: 10.2174/1871520614666140922122358 (Indexed in SCIE, Scopus, PubMed; IF: 2.8).
- Atiqur Rahman, Meherunnesa, Rafiqueel Islam, Md. Abul Kalam Azad, Md. Habibullah Dalal, M. Safiur Rahman, M.A Sattar (2015). Chemical Composition, Antioxidant Activity and Total Phenolics of the Seeds of *Cuminum cyminum* L, *Journal of Characterization and Development of Novel Materials*, Vol. 7(1), pp 1-11.
- Shah Alam Siddiqui, M. Oliur Rahman, Mohammad Ahsanul Akbar, A.S. Shamsur Rouf, Rafiqueel Islam, M. Safiur Rahman, Atiqur Rahman (2015). Antioxidant and Cytotoxic Properties of Essential Oil and Various Extracts of *Alstonia scholaris* (L.) R. Br., *Journal of Characterization and Development of Novel Materials*, Vol. 7(1), pp 49-61.
- Atiqur Rahman*, R. Islam, Sharif M. Al-Reza, SC Kang (2014). *In vitro* control of plant pathogenic *Xanthomonas* spp. using *Poncirus trifoliata* Rafin. *EXCLI Journal*, Vol. 13, 1104-1110; PMID: 26417325 (Indexed in SCIE, Scopus, PubMed; IF: 4.022).
- Aiqur Rahman, Sharif M. Al-Reza, Sun Chul Kang (2014). Antilisterial effect of essential oil and extracts of *Poncirus trifoliata* Rafin. Seeds. *J Food Biochem*, Vol. 38 (1), pp. 50-55;doi:10.1111/jfbc.12024 (Indexed in SCIE, Scopus; IF: 3.654).
- Atiqur Rahman*, Sharif M. Al-Reza, Shah Alam Siddiqui, Taehyun Chang, Sun Chul Kang (2014). Antifungal potential of essential oil and ethanol extracts of *Lonicera japonica* Thunb. against dermatophytes. *EXCLI Journal*, Vol. 13, 427-436; PMID: 26417269 (Indexed in SCIE, Scopus, PubMed; IF: 4.022).
- Atiqur Rahman*, Monira Afroz, Rafiqueel Islam, Kazi Didarul Islam, M. Amzad Hossain, Minkyun Na (2014). *In vitro* antioxidant potential of the essential oil and leaf extracts of *Curcuma zedoaria* Rosc. *J. Applied Pharm. Sci.*, Vol. 4 (2), 107-111; DOI: 10.7324/JAPS.2014.40217 (Indexed in SCIE, Scopus; IF: 1.47).
- Rafiqueel Islam, Nazmul Hasan, S. A. Siddiqui, M. A. Rashid, Sk Al Zaheri Mahmud, M. Safiur Rahman, Atiqur Rahman (2013). The Black Seed *Nigella sativa* Linnaeus: A Study of the Antioxidant Activity of the Essential Oil and Extracts, *Journal of Nature Science and Sustainable Technology*, Vol. 7 (1), pp. 103-111.
- Rafiqueel Islam, Liton Kumar Mondol, Liton Sheikh, Sk. Shahinur Rahman, Mominul Islam, Atiqur Rahman (2013). Identification of fatty acid profile, lipid characterization and nutritional status of *Clarias batrachus*, *Nutritional Science and Food Technology*, Vol. 1, pp. 1-5.
- Atiqur Rahman, MinKyun Na, Sun Chul Kang (2012). Anti-listerial potential of imperatorin and limonin from *Poncirus trifoliata* Rafin. *J Food Biochem*, Vol. 36, 217-223; DOI: 10.1111/j.1745-4514.2010.00528.x (Indexed in SCIE, Scopus; IF: 3.654).
- T. Pervin, S. Yeasmin, R. Islam, Kamruzzaman, A. Rahman and A. Sattar (2012). Studies on nutritional composition and characterization of lipids of *Lates calcarifer* (Bhetki). *Bangladesh Journal of Scientific and Industrial Research*, 47(4), 393-400; DOI: <https://doi.org/10.3329/bjsir.v47i4.14068> (Indexed in Zoological Record, DOAJ; IF: 0.5).
- M. Safiur Rahman, A. Hossain Molla, Narottam Saha, Atiqur Rahman (2012). Study on heavy metals levels and its risk assessment in some edible fishes from Bangshi River, Savar, Dhaka, Bangladesh. *Food Chemistry*, Vol. 134(4), 1847-1854; DOI: 10.1016/j.foodchem.2012.03.099 (Indexed in SCIE, Scopus; IF: 9.231).
- Rafiqueel Islam, Dipak Kumar Paul, Atiqur Rahman, Tanzima Parvin, Dipa Islam and Abdus Sattar (2012). Comparative Characterization of Lipids and Nutrient Contents of *Pangasius pangasius* and *Pangasius sutchi*

Available in Bangladesh. *J Nutri Food Sci*, Vol. 2(2), 1-6; DOI: 10.4172/2155-9600.1000130 (Indexed in PubMed; IF: 3.5).

- Atiqur Rahman, Sharif M. Al-Reza, MA Sattar, SC Kang (2011). Potential roles of essential oil and extracts of *Piper chaba* Hunter to inhibit *Listeria monocytogenes*. *Records of Natural Products*, Vol. 5 (3), 228-237 (Indexed in SCIE; IF: 1.9).
- Nguyen Thi Dung, Vivek K. Bajpai, Atiqur Rahman, Jung In Yoon, Sun Chul Kang (2011). Phenolic contents, antioxidant and tyrosinase inhibitory activities of *Lonicera japonica* Thumb. *Journal of Food Biochemistry*, Vol. 35, 148-160; DOI: 10.1111/j.1745-4514.2010.00461.x (Indexed in SCIE, Scopus; IF: 3.654).
- Atiqur Rahman, Vivek K. Bajpai, Nguyen Thi Dung, Sun Chul Kang (2011). Antibacterial and antioxidant activities of the essential oil and methanol extracts of *Bidens frondosa* Linn. *International Journal of Food Science and Technology*, Vol. 46, 1238-1244; DOI: 10.1111/j.1365-2621.2011.02615.x (Indexed in SCIE, BIOSIS Previews; IF: 3.612).
- Sharif M. Al-Reza, Atiqur Rahman*, Tanzima Parvin, M. Mizanur Rahman, M. Safiur Rahman (2011). Chemical composition and antibacterial activities of essential oil and organic extracts of *Curcuma aromatica* Salisb. *Journal of Food Safety*, Vol. 31, 433-438; DOI: 10.1111/j.1745-4565.2011.00318.x (Indexed in SCIE, UGC CARE, Scopus; IF: 2.449).
- Atiqur Rahman, Sharif M. Al-Reza, SC Kang (2011). Antifungal activity of essential oil and extracts of *Piper chaba* Hunter against phytopathogenic fungi. *J. Am. Oil Chem. Soc.*, Vol. 88, 573-579; DOI: 10.1007/s11746-010-1698-3 (Indexed in SCIE; IF: 2.18).
- Sharif M. Al-Reza, Atiqur Rahman, Young-Su Cho, Sun Chul Kang (2010). Chemical Composition and Antioxidant Activity of Essential Oil and Organic Extracts of *Cestrum nocturnum* L. *J. Essent. Oil-Bear. Plants.*, 13 (5), 615-624 (Indexed in SCIE; IF: 2.4).
- Atiqur Rahman, M. Amzad Hossain and Sun Chul Kang (2010). Control of phytopathogenic fungi by the essential oil and methanolic extracts of *Erigeron ramosus* (Walt.) B.S.P. *Eur. J. Plant Pathol.*, Vol. 128 (2), 211-219; DOI: 10.1007/s10658-010-9645-6 (Indexed in SCI, SCIE, SCImago, Scopus, BIOSIS Previews; IF: 1.8).
- Sharif M. Al-Reza, Atiqur Rahman*, M. A. Sattar, M. Oliur Rahman, Hasan M. Fida (2010). Essential oil composition and antioxidant activities of *Curcuma aromatica* Salib. *Food Chem Toxicol*, Vol. 48 (6), pp.1757-1760; DOI: 10.1016/j.fct.2010.04.008 (Indexed in SCIE, Scopus; IF: 9.231).
- M.A. Sattar, U.S. Sultana, M.K. Khatun, A. Rahman, M.A. Rashid (2010). Synthesis of Arylidene Acetophenones Using Unconventional Method. *J App Sci Technol*, Vol.7 (1), 65-69.
- Sharif M. Al-Reza, Atiqur Rahman, Jong hwi Lee, SC Kang (2010). Potential roles of essential oil and organic extracts of *Zizyphus jujuba* in inhibiting food-borne pathogens. *Food Chem*, Vol. 119(3), 981-986; DOI: 10.1016/j.foodchem.2009.07.059 (Indexed in SCIE, Scopus, UGC CARE; IF: 5.572).
- Sharif M. Al-Reza, Atiqur Rahman, Yunus Ahmed, Sun Chul Kang (2010). Inhibition of plant pathogens *in vitro* and *in vivo* with essential oil and organic extracts of *Cestrum nocturnum* L. *Pesticide Biochem and Physiol.*, Vol. 96(2), 86-92; DOI: 10.1016/j.pestbp.2009.09.005 (Indexed in SCIE, Scopus, EMBiology; IF: 4.7).
- M. Amzad Hossain, M. J. Kabir, S. M. Salehuddin, S. M. Mizanur Rahman, A. K. Das, Sandip Kumar Singha, Md. Khorshed Alam, Atiqur Rahman (2010). Antibacterial properties of essential oils and methanol extracts of sweet basil *Ocimum basilicum* occurring in Bangladesh. *Pharmaceutical Biology*, Vol. 48(5), pp. 504-511; PMID: 20645791 (Indexed in SCIE, Scopus, PubMed, DOAJ; IF: 3.889).
- Vivek K. Bajpai, Atiqur Rahman, Shruti Shukla, Savita Shukla, S.M. Yassir Arafat, M. Amzad Hossain and Archana Mehta (2010). *In vitro* kinetics and antifungal activity of various extracts of *Terminalia chebula* seeds against plant pathogenic fungi. *Arch. Phytopathol. Plant Prot.*, 1–9, iFirst article; DOI: 10.1080/03235400802246887.
- M. Safiur Rahman, Atiqur Rahman, M. A. Sattar and M. A. Hai (2010). Comparative Studies of Trace Elements Status in Tobacco Plants and Corresponding Soils of Bangladesh. *J. Nature Science and Sustainable Technology*, Vol. 4 (1), 1-12.
- Atiqur Rahman, Sun Chul Kang (2009). *In vitro* control of food-borne and food spoilage bacteria by essential oil and ethanol extracts of *Lonicera japonica* Thunb. *Food Chem*, Vol. 116(3), 670-675; DOI: 10.1016/j.foodchem.2009.03.014 (Indexed in SCIE, Scopus; IF: 9.231).
- Atiqur Rahman, Eun Lyang Kim and Sun Chul Kang (2009). Antibacterial and antioxidant properties of *Ailanthus altissima* Swingle leave extract to reduce foodborne pathogens and spoiling bacteria. *J Food Safety*, Vol. 29 (4), 499-510; DOI: 10.1111/j.1745-4565.2009.00172.x (Indexed in SCIE, UGC CARE, Scopus; IF: 2.449).

- Atiqur Rahman, Sun Chul Kang (2009). Inhibition of foodborne pathogens and spoiling bacteria by essential oil and extracts of *Erigeron ramosus* (Walt.) B.S.P. *J Food Safety*, Vol. 29(2), 176-189; DOI: 10.1111/j.1745-4565.2009.00149.x (Indexed in SCIE, UGC CARE, Scopus; IF: 2.449).
- Sharif M. Al-Reza, Atiqur Rahman, Sun Chul Kang (2009). Chemical composition and inhibitory effect of essential oil and organic extracts of *Cestrum nocturnum* L. on food-borne pathogens. *Int J Food Sci and Tech*, Vol. 44, 1176-1182; DOI: 10.1111/j.1365-2621.2009.01939.x (Indexed in SCIE, Scopus; IF: 3.612).
- Vivek K. Bajpai, Atiqur Rahman, Savita Shukla, Archana Mehta, Shruti Shukla, S. M. Yassir Arafat, M. Mizanur Rahman and Zennat Ferdousi (2009). Antibacterial Activity of Leaf Extracts of *Pongamia pinnata* from India. *Pharmaceutical Biology*, Vol. 47(12), 1162-1167; DOI: 10.3109/13880200903019218 (Indexed in SCIE, Scopus, PubMed, DOAJ; IF: 3.889).
- M. Amzad Hossain, S.M. Salehuddin, Atiqur Rahman (2009). Flavonoid contents and antioxidative effect of tea samples. *Asian J Food and Agro-Industry*, 10140, Vol. 2(4), 421-432.
- Atiqur Rahman, Sharif M. Al-Reza, Jung In Yoon, Sun Chul Kang (2009). *In vitro* inhibition of foodborne pathogens by volatile oil and organic extracts of *Poncirus trifoliata* Rafin. seeds. *Journal of the Science of Food and Agriculture*, Vol. 89, 876-881; DOI: 10.1002/jsfa.3527 (Indexed in SCI, SCIE, Scopus, PubMed, DOAJ; IF: 4.125).
- M. M. Rahman, M. Mashiar Rahman, S. M. Arafat, Atiqur Rahman*, M. Z. H. Khan, M. S. Rahman (2008). Microbiological Quality Assessment of a Local Milk Product, Kwacha Golla, of Bangladesh *J. Korean Soc. Appl. Biol. Chem.*, Vol. 51(4), 251-257; doi:10.3839/jksabc.2008.044.
- Tanzina Sharmin, Zennat Ferdousi, M. Saiful Islam, M. Z. H. Khan, Atiqur Rahman (2008). Neoplastic and haematological effects of endosulfan and bleomycin in the Swiss albino mice *Mus musculus*. *J. Korean Soc. Appl. Biol. Chem.*, Vol. 51(4), 294-298; doi:10.3839/jksabc.2008.051.
- Atiqur Rahman*, M. Mizanur Rahman, Md. Mominul Islam Sheik, M. Mashiar Rahman, Shabah Mohammad Shadli, M. F. Alam (2008). Free radical scavenging activity and phenolic content of *Cassia sophora* L. *African J. Biotech.*, Vol. 7(10), 1591-1593; <http://www.academicjournals.org/AJB>.
- M. Amzad Hossain, Atiqur Rahman, SC Kang (2008). A new prenylated flavanone from the arial part of *Orthosiphon stamineus*. *Indonesian Journal of Chemistry*, Vol. 8(1), 101-103.
- 11. Vivek K. Bajpai, Atiqur Rahman, Thi Dung Nguyen, Man Kyu Huh, Sun Chul Kang (2008). *In vitro* inhibition of food spoilage and foodborne pathogenic bacteria by essential oil and leaf extracts of *Magnolia liliflora* Desr. *J. Food Sci.*, Vol. 73(6), 314-320; doi: 10.1111/j.1750-3841.2008.00841.x.
- Vivek K. Bajpai, Atiqur Rahman, Sun Chul Kang (2008). Chemical composition and inhibitory parameters of essential oil and extracts of *Nandina domestica* Thunb. to control food-borne pathogenic and spoilage bacteria. *Int J Food Microbiol*, Vol. 125 (2), 117-122; DOI: 10.1016/j.ijfoodmicro.2008.03.011.
- M. Amzad Hossain, Zhari Ismail, Atiqur Rahman, Sun Chul Kang (2008). Chemical composition and anti-fungal properties of the essential oils and crude extracts of *Orthosiphon stamineus* Benth. *Industrial Crops and Products*, Vol. 27(3), 328-334; DOI: 10.1016/j.indcrop.2007.11.008.
- V.K. Bajpai, Atiqur Rahman, Ung Kyu Choi, Sun Joo Yoon, SC Kang (2007). Inhibitory parameters of the essential oil and various extracts of *Metasequoia glyptostroboides* Miki ex Hu to reduce food spoilage and food-borne pathogens. *Food Chem*, Vol. 105(3), 1061-1066; doi:10.1016/j.foodchem.2007.05.008 (Indexed in SCIE, Scopus; IF: 9.231).
- V. K. Bajpai, Atiqur Rahman, Sun Chul Kang (2007). Chemical composition and anti-fungal properties of the essential oil and crude extracts of *Metasequoia glyptostroboides* Miki ex Hu. *Ind Crops Prod.*, Vol. 26(1), 28-35; doi:10.1016/j.indcrop.2006.12.012.
- K. N. Farooque, M. Moniruz Zaman, Atiqur Rahman, M. Ershad Halim (2005). Studies on the suitability of soil for making soil stabilized building block. *Bangladesh Journal of Scientific and Industrial Research*, Vol. 40(1-2), 9-18.
- A Rahman, M Parvez, T Parvin, DK Paul, MA Sattar (2004). Antimicrobial activity of three bioactive compounds from the stem bark of *Piper chaba* Hunter. *Biosci. Research*, Vol. 1(1), 16-20.
- Atiqur Rahman, Abu Sayeed (2003). Stigmast-7,22(E)-dien-3 β -ol from *Nymphoides cristatum* (Roxb.) O. Kuntze. *Islamic University Studies*, Special Issue, No. 1, pp. 143-149.
- Atiqur Rahman, A Sayeed, A Islam, G Sadik, GRM AM Khan (2002). Characterization and Biological Screening of a Triterpenoid from *Nymphoides cristatum*. *OnLine J. Bio. Sci.*, 2(1): 46-48.
- M. A. Sattar, M. A. Rahman and Tanzima Parvin (2001). Alternative Synthetic Route of ($\pm$)-ar-Turmerone. *Jahangirnagar University J. of Sci.*, Vol 24, 37-41, Dhaka, Bangladesh.

- D Chowdhury, A Sayeed, A Islam, Atiqur Rahman, GRM AM Khan (2000). *In Vitro* Antibacterial Activity and Cytotoxicity of Lupenone from *Aerva lanata* Juss. *J.Bio-sci.*, Vol. 8, 31-35, University of Rajshahi, Bangladesh.

BOOK CHAPTERS

- M. Safiur Rahman, **Atiqur Rahman**, M. Abdus Sattar and M. Abdul Hai, Nature Science and Sustainable Technology Compendium. Volume 2. Editors: Islam, MR, Nova Science Publishers (USA). Chapter 1. Comparative Studies of Trace Elements Status in Tobacco Plants and Corresponding Soils of Bangladesh (2013), pp. 1-12.
- Rahman, M.M., Rahman, M.M., Islam, M.R., **Rahman, A.**, Rahman, M.S, Characterization and Development of Novel Materials. Editors: Islam, MR, Nova Science Publishers (USA). Chapter 6. Characterization of Clinical Bacteria and their Control by a Medicinal Plant (*Cassia Sophera* L.) Extracts (2012), pp. 61-70.
- Rahman, M.M., Rahman, M.M., Arafat, SMY, Khan, MZH, **Rahman, A** and Rahman, MS, Characterization and Development of Novel Materials, Editor: Islam, MR, Nova Science Publishers (USA). Chapter 11. Isolation and characterization of effective bacteria for solid waste degradation for organic manure (2012), pp. 123-138.

CONFERENCE PRESENTATIONS

- “Compositions and Antibacterial Activities of Essential Oils from Two *Ocimum Species* occurring in Bangladesh” 1st International Conference on Nano-bio and Advanced Materials Engineering (NAME-2023), Cox Bazar, Bangladesh, 7- 8 January, 2023 (Oral).
- “Natural products for drug discovery: Bioactive phytochemicals from Bangladeshi Medicinal plants *Premna integrifolia* L., *Pedilanthus tithymaloides* V. and *Mikania cordata* Robinson” 5th ITWCCST 2019, Sakarya, Turkey, 25-29 October, 2019 (Oral).
- “Phytochemical screening and antiproliferative activities of *Ocimum sanctum* Linn” Global Biotechnology Congress 2016, Boston, USA, p. 194, 22-25August, 2016 (Poster).
- “Essential oil composition, antioxidant and cytotoxic properties of *Alstonia scholaris* (L.) R. Br.” International Conference on Updates on Natural Products in Medicine and Healthcare System, Khulna University, Bangladesh, p. 59. 6th July, 2013 (Poster).
- “PHRPP10: Antimicrobial potential of essential oil and 16-Hydroxy betulinic acid from *Mikania scandens* (L.) Willd.” International Conference on Green Chemistry for Sustainable Development, Jashore University of Science and Technology, Jashore, Bangladesh, p. 156. 14th July, 2012 (Poster).
- “PHRPP01: Antioxidant potential of essential oil and rhizome extracts of *Curcuma zedoaria* Rosc.” International Conference on Green Chemistry for Sustainable Development, Jashore University of Science and Technology, Jashore, Bangladesh, p. 150. 14th July, 2012 (Poster).
- “BTPP10: Molecular characterization of *Bacillus* spp. by 16S rDNA sequence and their sensitivity towards different extracts and essential oil of Cumin (*Cuminum cyminum* L.)” International Conference on Green Chemistry for Sustainable Development, Jashore University of Science and Technology, Jashore, Bangladesh, p. 136. 14th July, 2012 (Poster).
- “Role of natural products from *Poncirus trifoliata* as potential therapeutic agents” 5th International Symposium on Biocatalysis and Biotechnology, National Chung Hsing University, Taichung, Taiwan, pp. 36, 2009. 11.18~20 (Oral).
- “Application of Plant-Derived Antimicrobials for Food Safety” Asia Pacific Symposium on Food Safety 2009, Seoul Kyo Yuk MunHwa Hoekwan, Seoul, Korea, pp. 114~116, 2009. 11.11~13 (Oral).
- “Potential role of a bioactive constituent, Limonin, derived from *Poncirus Trifoliata* Rafin. Seeds to control *in vitro* growth of *Listeria* spp.” Proceedings of international symposium on bioprocess and biosystems engineering 2009, Shanghai Jiao Tong University, China, pp. 207, 2009. 08. 03~ 06 (Poster).
- “Anti-Listerial effect of essential oil and extracts of *Poncirus trifoliata* Rafin. Leaf” 109th General Meeting, Pennsylvania Convention Center, American Society for Microbiology, USA, pp. 417, 2009. 05.17 ~ 21 (Poster).
- “In vitro and in vivo control of plant pathogenic bacteria of *Xanthomonas* sp. by the volatile seed oil of *Poncirus trifoliata* Rafin.” 100th AOCS Annual Meeting, Orlando, Florida, USA, pp. 34, 2009.05.03~06 (Poster).
- “Chemical composition and antifungal activity of volatile seed oil and organic seed extracts of *Poncirus trifoliata*” 13th International Biotechnology Symposium and Exhibition, Dalian, China, pp. S98, 2008. 10. 12 ~ 17 (Poster).
- “*In vitro* inhibition of foodborn and food spoilage bacteria by essential oil and methanolic extracts of *Lonicera japonica* Thunb” 2008 International Symposium and Annual Meeting of the KSABC, Konkuk University, Korea, pp. 109, 2008. 05. 16 (Poster).

- “16S rRNA analysis of novel *Pseudomonas aeruginosa* TK8 and purification of its anti-staphylococcal and anti-pseudomonal secondary metabolites” 2008 International Symposium and Annual Meeting of the KSABC, Konkuk University, Korea, pp. 109, 2008. 05. 16 (Poster).
- “Chemical composition and Antifungal activity of essential oil and extracts of *Piper chaba* Hunter” 2008 Spring KSBB Meeting and International Symposium, Chonbuk National University, Korea, pp. 112, 2008. 04. 18 (Poster).
- “*In vitro* Antibacterial Activity of the Essential Oil and Various Organic Extracts of *Piper chaba* Hunter against *Xanthomonas* sp. ” 2008 International Symposium and Annual Meeting of the KSABC, DAEGU EXCO, Korea, pp. 141, 2008. 10.23 ~ 25 (Poster).
- “Chemical Composition and *In Vitro* Inhibition of Food Spoilage and Food-Borne Pathogenic Bacteria by Essential Oil and Leaf Extracts of *Piper chaba* Hunter” 2008 108th General Meeting for American Society for Microbiology, American Society for Microbiology, Boston, America, pp. 248, 2008.06.01~05 (Poster).
- “Antibacterial potential of essential oil and crude extracts of *Magnolia liliflora* Desr. to reduce food spoilage and food-borne pathogens” UW-RF 27th Annual Food Microbiology Symposium & Workshop, University of Wisconsin-River Falls, U.S.A, pp. 19, 2007. 10. 22 (Poster).
- “Inhibition of phytopathogenic fungi by the essential oil and crude extracts of *Erigeron ramosus* (Walt.) B.S.P.” 2007 KSBB Fall Meeting and International Symposium, Hotel Inter-Burgo, Daegu, Korea, pp. 177, 2007. 10. 18 (Poster).
- “Isolation and characterization of a bioactive secondary metabolite produced by *Streptomyces* sp. 150” 2007 Int. Symposium and Annual Meeting of the KSABC, TEMF Hotel, Gyeongju, Korea, pp. 218, 2007. 10. 11 (Poster).

OTHER PROFESSIONAL ACTIVITIES

- Director of Central Laboratory at Islamic University, Kushtia, Bangladesh [7/2023-Present]
- Chairperson, Dept. of Applied Chem. & Chem. Eng., Islamic University, Kushtia, Bangladesh [12/2016-12/2019]
- Editorial Board Member of J. Applied Sci. & Tech., Islamic University, Bangladesh [2009-2011& 2018]
- Editor Board Member of Clinical Cancer Drugs (Bentham Science Publishers) [2018-2019]
- Reviewed Articles from various journals such as Asian Pac. J. Trop. Biomed. (1), Arab. J. Chem. (5), Saudi J. Biol. Sci. (1), Braz. arch. biol. technol. (4), Pharm. Biol. (4), J. Food Biochem. (3), Int. J. Chem. Technol. (3), J. Food Safety (1), J. Oleo Sci. (8).
- Technical skills on operating Preparative Liquid Chromatography (Model LC-20), HPLC JASCO (C18 Apollo Column), rHPLC (ODS column), Rotary Vacuum Evaporator, Autoclave, etc.

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