

Professor DR. M. OLIUR RAHMAN

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EDUCATION

- **Ph. D.** in Plant Taxonomy, Hiroshima University, Japan (2003)
Thesis – ‘Molecular systematic and cytotaxonomic studies of *Utricularia* L. (Lentibulariaceae)’
- **M. Sc.** in Botany (Thesis on Taxonomy), University of Dhaka (1994).
First Class First Position
Thesis – ‘Angiospermic Flora of Bhawal National Park, Gazipur (Bangladesh)’
- **B. Sc.** (Honors) in Botany, University of Dhaka (1992).
First Class First Position

FIELDS OF SPECIALIZATION

- ✓ Plant Taxonomy and Biodiversity
- ✓ Molecular Systematics & Phylogenetics
- ✓ Medicinal Plants and Bioprospecting

CURRENT POSITION

Professor (Since 22 July 2013)
Department of Botany
University of Dhaka, Dhaka 1000, Bangladesh

PREVIOUS EMPLOYMENT RECORDS

- ✚ Associate Professor (10/08/2011 – 21/07/2013)
Department of Botany, University of Dhaka, Dhaka 1000
- ✚ Assistant Professor (15/09/2008 – 09/08/2011)
Department of Botany, University of Dhaka, Dhaka 1000
- ✚ Senior Scientific Officer (27/08/2007 – 14/09/2008)
Bangladesh National Herbarium, Ministry of Environment & Forest
- ✚ Scientific Officer (23/4/1996 – 26/08/2007)
Bangladesh National Herbarium, Ministry of Environment & Forest
- ✚ Assistant Curator (16/08/1995 – 22/04/1996)
National Museum of Science and Technology, Ministry of Science and Technology

PROFESSIONAL SERVICES

1. **Consultant**, *Developing Bangladesh National Red List of Plants and Developing Management Strategy of Invasive Alien Species (IAS) of Plants in Selected Protected Areas (PAs)* Project, IUCN Bangladesh (2020-2021).
 2. **Fellow**, *Linnean Society of London* (2018 - Date).
 3. **Commission Member**, *Species Survival Commission (SSC) Medicinal Plant Specialist Group*, IUCN, Gland, Switzerland (2017-2020).
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4. **Chief Editor**, *Bangladesh Journal of Plant Taxonomy* (Clarivate Analytics) (2018).
5. **Subject Editor**, *Journal of Economic and Taxonomic Botany* (2019-2020).
6. **Advisor**, Deeplaid Laboratories Ltd. [a leading Alternative Medicine Company (Homoeo, Unani & Herbal) of Bangladesh], Dhaka (2019-Date)
7. **Member**, *Asian Council of Science Editors* (2019).
8. **Contributor**, Updating and Mainstreaming of *National Biodiversity Strategy and Action Plan* (NBSAP) (2017).
9. **Editor**, *Bangladesh Journal of Plant Taxonomy* (2015 - 2017).
10. **Editor**, *International Journal of Nature and Life Sciences* (2017 - date).
11. **Contributor**, *Red Data Book of Vascular Plants of Bangladesh*, Volume 3 (2015). Bangladesh National Herbarium, Ministry of Environment and Forest, Government of the People's Republic of Bangladesh.
12. **Facilitator**, BAPT-AuthorAid Workshop on *Improving Research Communication Skills of Young Plant Scientists of Bangladesh*, financed by INASP (International Network for the Availability of Scientific Publications) and AuthorAid, Oxford, UK (2013).
13. **Contributor**, *Red Data Book of Vascular Plants of Bangladesh*, Volume 2 (2013). Ministry of Environment and Forest, Government of the People's Republic of Bangladesh.
14. **Executive Editor**, *Bangladesh Journal of Plant Taxonomy* (BJPT) (2010 - 2014).
15. **Reporteur**, Fifth International Botanical Conference 2011: Technical Session 8 – “Systematics and Ethnobotany” (2011).
16. **General Secretary**, Bangladesh Association of Plant Taxonomists (2008 - 2011).
17. **Scrutinizer**, *Encyclopedia of Flora and Fauna of Bangladesh*, Vols. 6-12 (2007-2009). Asiatic Society of Bangladesh.
18. **Contributor**, National Capacity Self Assessment Project, IUCN, funded by UNDP (2007).
19. **Contributor**, *Encyclopedia of Flora and Fauna of Bangladesh*, Vols. 6-12 (2007-2009). Asiatic Society of Bangladesh. *Contributed the detailed species profile of 377 plant species under 18 angiosperm families in the Encyclopedia of Flora and Fauna of Bangladesh.*
20. **Councilor**, The International Society of Chromosome Botany (2006 -).
21. **Contributor**, Third National Biodiversity Report of Bangladesh (2005). Ministry of Environment and Forest, Government of the People's Republic of Bangladesh.
22. **Advisor**, *National Action Program (NAP) for Combating Desertification in Bangladesh*. United Nations Convention to Combat Desertification (UNCCD) (2004-2005).
23. **Contributor**, *Medicinal Plants Protection Act, Bangladesh* (2005). Bangladesh Agriculture Research Council, Ministry of Agriculture, Government of the People's Republic of Bangladesh.
24. **Specialist**, Species Conservation thematic group for preparing the “*National Biodiversity Strategy Action Plan*” (NBSAP) for Bangladesh implemented by IUCN Bangladesh (2004).
25. **Joint Secretary**, Bangladesh Association of Plant Taxonomists (2003 - 2007).
26. **Botanist**, *National Biodiversity and Strategic Action Plan* (2004). IUCN, Bangladesh, funded by UNDP and GEF.
27. **Editor**, *Medicinal Plants of Chittagong Hill Tracts, Bangladesh: Volume 1* (2003-2004). Ministry of Chittagong Hill Tracts, Government of the People's Republic of Bangladesh.
28. **Executive Committee Member**, Bangladesh Association of Plant Taxonomists (2003 – Date).
29. **Reporteur**, Agri-Invest 2003, Bangladesh Agriculture Research Council (2003).

30. **Biologist**, Ecological Baseline Studies in ‘Jamalpur Project Refinement Study’ funded by Commission of European Communities (1996).
31. **Biologist**, National Minor Irrigation Development Project’ funded by Commission of European Communities (1995).

TEACHING

Courses Taken and Subject Taught (Theory Courses):

- ✚ M.S. (Master of Science): Angiosperm Systematics (Molecular Systematics & Phylogenetics)
- ✚ B.S. Honours (4th Year): Ethnobotany
- ✚ B.S. Honours (3rd Year): Contemporary Systematics
- ✚ B.S. Honours (2nd Year) : Gymnosperm, Paleobotany and Economic Botany

Practical Courses:

- Bot 501: Angiosperm Systematics;
- Bot 404: Ethnobotany;
- Bot 305: Contemporary Systematics;
- Bot 202: Gymnosperm, Paleobotany and Economic Botany;
- Bot 105: Angiosperm Taxonomy

As Mentor: Guided several M.S. Theses students and continuing guiding M.S. and Ph.D. students

RESEARCH ACTIVITIES

(A) Current Research

- ✓ A comprehensive survey and documentation of plant diversity of Rajbari district: Distribution, Potential and Conservation.
- ✓ Differential chromosome banding pattern of *Zephyranthes candida* and *Z. carinata*.
- ✓ Floral diversity of Tungipara upazila of Gopalganj district focusing on economically and ecologically important species.
- ✓ Screening of anticancer activity of *Argyrea nervosa*, *Vitex negundo* and *Clerodendrum viscosum* on HELA and MOLT-4 cell lines
- ✓ Multi-functional pharmacological activities of *Woodfordia fruticosa*: An antioxidant, Antibacterial, Antidiarrhoeal, Cytotoxicity, Analgesic, Antidiabetic and Thrombolytic Evaluation.
- ✓ Antioxidant, cytotoxicity, antidiabetic and anticancerous potential of *Ficus hispida*.

(B) Previous Research

1. Karyomorphology of the genus *Zephyranthes* Herb. (Liliaceae) and its taxonomic significance.
2. Exploring biological activities of *Canna indica* (Cannaceae).
3. A comparative study of leaf, bark and seeds of *Syzygium cumini* (L.) Skeels: Evaluation of antidiabetic, antioxidant and cytotoxic potential.
4. A comprehensive survey and documentation of plant diversity of Gaffargaon upazila under Mymensingh district: Distribution, Potential and Conservation
5. Angiosperm flora of Dhohar upazila under Dhaka district focusing on economically and ecologically important species.

6. DNA sequencing of *Euphorbia scordifolia* based on nuclear ribosomal DNA internal transcribed spacer sequence
7. Molecular characterization of the genus *Crotalaria* based on Random Amplified Polymorphic DNA
8. Molecular phylogenetics of *Echinops* (Asteraceae) with special reference to nrDNA ITS sequence-based molecular typing of *Echinops abuzinadianus*
9. Taxonomic revision and molecular characterization of *Desmodium* in Bangladesh
10. Molecular systematic and cytotoxic studies of *Utricularia* L. (Lentibulariaceae)
11. Cytotaxonomy of four floral variants of *Impatiens balsamina* L.
12. Reproductive Biology of some medicinal plants of Bangladesh
13. Taxonomic studies on the genus *Caesalpinia* from Bangladesh
14. Biological activities of *Oroxylum indicum* Vent: An analgesic, antidiabetic, antioxidant, cytotoxicity, anti-diarrhoeal, anti-depressant, antibacterial and anticancer evaluation
15. Morphology, anatomy and molecular characterization of different variants of *Canna indica* L.
16. Pharmacological evaluation of *Glycosmis pentaphylla* (Rutaceae) as antidiabetic, antioxidant and cytotoxic agent
17. Canvassing of anticancerous, antidiabetic, anti-diarrhoeal and analgesic properties of *Aphanamixis polystachya*.
18. Antioxidant, cytotoxicity and antidiabetic activities of *Streblus asper* Lour.
19. Morphological and anatomical investigation of *Piper* L. in Bangladesh
20. Antioxidant, cytotoxicity and antimicrobial activities of *Aphanamixis polystachya* (Wall.) R.N. Parker
21. Multi-functional pharmacological credence of 16 Hydroxy betulinic acid, a novel triterpenoid isolated from *Mikania cordata*
22. Biodiversity of Tillagarh reserve forest, Sylhet
23. Biodiversity of Jaflong, Sylhet
24. Biodiversity of Satchari reserve forest, Habiganj
25. Biodiversity of Ratargul swamp forest, Sylhet
26. Biodiversity of Dulahazara safari park, Cox's Bazar
27. Biodiversity of Rajeshpur sal forest, Comilla
28. Plant Biodiversity of Tanguar Haor, Sunamganj district
29. Angiospermic Flora of Jamuna River Belt, Jamalpur district
30. Angiospermic flora of Trishal Upazila, Mymensingh, focusing on medicinally important plants and their conservation
31. Angiosperm flora of Sadar Upazila of Munshiganj district, Bangladesh
32. Taxonomic studies of the family Liliaceae from Bangladesh
33. Angiospermic flora of Dhamrai upazila, Dhaka
34. Systematic studies on the genus *Senna* Mill. in Bangladesh
35. Angiospermic flora of Runtia Sal forest, Sherpur district, Bangladesh
36. Taxonomy and Biology of the family Bignoniaceae of Dhaka
37. Systematic studies of the families Euphorbiaceae and Scrophulariaceae
38. Evaluation of anti-nociceptive, anti-inflammatory and antipyretic potential of *Mikania cordata* (Burm. f.) Robinson

39. Biological activities of *Mikania cordata* (Burm. f.) Robinson
40. Antioxidant and cytotoxic properties of *Alstonia scholaris* (L.) R. Br.
41. Variation in the pappus structure in some members of the Asteraceae
42. Weeds of the paddy fields of Bogra and Rajshahi districts
43. Systematic studies in the family Cucurbitaceae from Bangladesh
44. Angiospermic Flora of Bhawal National Park, Gazipur district

ADVANCED TRAINING

- ✓ **Capacity Building Training on Red List Assessment Process** Conducted by James Tallant, Ecosure, Australia and Emily Beech, Botanic Gardens Conservation International (BGCI), London from 27-30 October 2020.
- ✓ **Genomics and Proteomics** conducted by Dr. Glenn R. Hicks of the University of California, Riverside, USA from 16-24 July 2012.
- ✓ **Plant Genetic Transformation, In-situ Hybridization and Bioinformatics** conducted by Prof. Dr. Hans Jörg Jacobsen, Institute of Plant Genetics, Leibniz University, Hannover, Germany from 6-14 October 2012.
- ✓ **Lab and Data Management Protocols for DNA Barcoding** at the Academia Sinica, Taipei, Taiwan on 17 September 2007, sponsored by Smithsonian Institution, Washington, USA and Academia Sinica, Taiwan.
- ✓ **Online Journal Publishing** workshop at the University of Dhaka sponsored by International Network for the Availability of Scientific Publications (INASP), Oxford, UK from 30 March -3 April 2008.
- ✓ **Conservation and Utilization of Plant Genetic Resources** at Bangladesh Agricultural Research Institute, Gazipur, Bangladesh from 5-8 February 2007.
- ✓ **Modern Techniques of Plant Taxonomy** conducted by Dr. Alastair Culham of the University of Reading, UK from 10-19 March 1998, funded by DFID, UK.
- ✓ **Botanical Research And Herbarium Management System (BRAHMS)** course conducted by Dr. Denis Filer of the Department of Plant Sciences, University of Oxford, UK from 8-19 January 1998, sponsored by DFID, UK.

PROJECT WORKS/ CONSULTANCY

1. 'Developing Bangladesh National Red List of Plants and Developing Management Strategy of Invasive Alien Species (IAS) of Plants in Selected Protected Areas (PAs)' implemented by IUCN Bangladesh.
2. 'Environmental Impact Assessment (EIA) For Drilling Activities in Magnama Prospect Area, Block 16'.
3. 'National Biodiversity Strategy and Action Plan (NBSAP)' Project implemented by IUCN.
4. 'National Action Plan (NAP) for Combating Desertification in Bangladesh under United Nations Convention to Combat Desertification' (UNCCD).
5. 'Bioprospecting on Biological Materials of Bangladesh' funded by Government of South Korea.
6. Environmental and Ecological Baseline Study Project funded by European Commission.
7. National Conservation Strategy (NCS) Project under Ministry of Environment and Forest.
8. National Minor Irrigation Development Project funded by European Commission.
9. 'Encyclopedia of Flora and Fauna of Bangladesh' Project implemented by Asiatic Society of Bangladesh

10. 'Medicinal Plants of Chittagong Hill Tracts' Project.
11. 'Bioremediation of arsenic by using arsenic-resistant nitrogen fixing bacteria compatible to leguminous crops *Arachis hypogaea* L. (groundnut) and *Lens culinaris* Medik. (lentil) in the arsenic affected soil of Bangladesh' funded by the Ministry of Science and Technology
12. 'A comprehensive survey and documentation of plant diversity of Gafargaon sub-district under Mymensingh district: Distribution, Potential and Conservation' funded by University of Dhaka.
13. "Enhancing growth and nitrogen fixation in *Arachis hypogaea* L. (groundnut) and *Lens culinaris* Medik. (lentil) by using indigenous rhizobia in agricultural soil of Bangladesh" funded by the Ministry of Science and Technology.

AWARDS, FELLOWSHIPS AND HONORS

- ✦ **Golden Jubilee Award**, Department of Botany, University of Dhaka (2006).
- ✦ **Monbusho Scholarship of Japan Government** nominated by Ministry of Education for Ph. D. study in Japan (1999-2003). Stood **First in order of merit** from Bangladesh in obtaining the scholarship in 1999.
- ✦ **National Science and Technology (NST) Fellowship** from the Ministry of Science and Technology, Government of Bangladesh (1997).
- ✦ **Gold Medal Award** for standing First Class First Position in B. Sc. (Hon.) examination by Lion Club of Dhaka, Bangladesh (1993).
- ✦ **Awarded Medal by the Vice-Chancellor**, University of Dhaka at the Award ceremony of the top meritorious students of the University of Dhaka (1993).
- ✦ **Dean Honour's Award** from the Faculty of Biological Sciences, University of Dhaka for outstanding academic performance and regularity (1988).

PUBLICATIONS

1. **Rahman, M.O.**, Aliqatani, A.S., Huda, S.B., Siddiqui, S.A., Noman, O.M., Nasr, F.A., Hassan, M.A. and Islam, S.N. 2021. *Streblus asper* Lour. attenuates alloxan-induced diabetes in rats and demonstrates antioxidants and cytotoxic effects. *Pharmaceutical Biology* 59: in press (Taylor & Francis). <https://doi.org/10.1080/13880209.2021.1954668>
2. Al-Anazi, K.M., Ali, M.A., Kim, S.-Y., **Rahman, M.O.**, Farah, M.A., Al-Hemaid, F., Elangbam, M., Gurung, A.B. and Lee, J. 2021. The cp genome characterization of *Adenium obesum*: gene content, repeat organization and phylogeny. *Saudi J. Biol. Sci.* **28**(7): 3768-3775 (Elsevier). <https://doi.org/10.1016/j.sjbs.2021.03.048>
3. Ali, M.A., Pan, T.K., Gurung, A.B., Farah, M.A., Al-Hemaid, F., Alanazi, K.M., Elangbam, M., Lee, J., Pandey, S.K., **Rahman, M.O.** and Kim, S.-Y. 2021. Plastome of *Saraca asoca* (Detarioideae, Fabaceae): annotation, comparison among subfamily and molecular typing. *Saudi J. Biol. Sci.* **28**(2): 1487–1493 (Elsevier). <https://doi.org/10.1016/j.sjbs.2020.12.008>
4. Aliqatani, M.M., Ali, M.A., **Rahman, M.O.**, Al-Hemaid, F.M., Kambhar, S.V. and Lee, J. 2021. Molecular authentication of *Euphorbia schimperiana* Scheele using internal transcribed spacer sequences of nuclear ribosomal DNA. *Bangladesh J. Plant Taxon.* **28**(1): 125-130. <https://doi.org/10.3329/bjpt.v28i1.54212>
5. Hossain, M.A., Poyal, A.H., Hossain, M.K., Hossain, M.M., Al Amram, M.I.U. and **Rahman, M.O.** 2021. Diversity and Management of Indoor Plants at Urban Dwellings in Bangladesh: A Case Study from Haliashahar of Chattogram Metropolitan Area. In: Ramamoorthy, S., Buot, I. Jr. and Chandrasekaran, J. (Eds), *Plant Genetic Resources, Inventory, Collection and Conservation*, **Springer Nature**, Singapore. (Accepted for publication)

6. Akhi, S.S., Sarkar, B.K., Sultana, N., Jui, Z.S., Sarker, R.H. and **Rahman, M.O.** 2021. Molecular characterization of *Canna indica* L. based on random amplified polymorphic DNA markers. *Bangladesh J. Plant Taxon.* **28**(1): 75-81. <https://doi.org/10.3329/bjpt.v28i1.54209>
7. Dash, C.K., **Rahman, M.O.** and Sultana, S.S. 2020. Karyological investigation on three *Zephyranthes* species and its taxonomic significance. *Cytologia* **85**(2): 163-168. DOI: [10.1508/cytologia.85.163](https://doi.org/10.1508/cytologia.85.163)
8. Rahman, A., Siddiqui, S.A., **Rahman, M.O.** and Kang, S.C. 2020. Cyclo(L-Pro-L-Tyr) from *Streptomyces* sp. 150: Exploiting *in vitro* potential in controlling food-borne bacteria and phytopathogenic fungi. *Anti-Infective Agents* **18**(2): 169-177. DOI: [10.2174/2211352517666190716155147](https://doi.org/10.2174/2211352517666190716155147)
9. Ali, M.A., **Rahman, M.O.**, Lee, J., Al-Hemaid, F., Kambhar, S.V., Elangbam, M. and Gurung, A.B. 2020. Dissecting molecular evolutionary relationship of Krameriaceae inferred from phylotranscriptomic analysis. *Bangladesh J. Plant Taxon.* **27**(2): 433-439.
10. Elshikh, M.S., Kim, S.-Y., Ali, M.A., Al-Hemaid, F., Chen, S.-M., Choi, S., **Rahman, M.O.**, Elangbam, M. and Lee, J. 2020. Comparative analysis of cp genome of *Fagonia indica* growing in desert and its implications in pattern of similarity and variations. *Saudi J. Biol. Sci.* **27**(1): 229-232. (Elsevier). DOI: [10.1016/j.sjbs.2019.08.016](https://doi.org/10.1016/j.sjbs.2019.08.016)
11. **Rahman, M.O.**, Huq, T.T. and Begum, M. 2020. A taxonomic account on the flora of Dohar upazila under Dhaka district of Bangladesh. *Bangladesh J. Plant Taxon.* **27**(2): 293-322.
12. Alzeibr, F.M.A., Ali, M.A., **Rahman, M.O.**, Al-Hemaid, F., Lee, J. and Kambhar, S.V. 2020. ITS gene based molecular genotyping of *Nepeta sheilae* Hedge & R.A. King (Lamiaceae) endemic to Saudi Arabia. *Bangladesh J. Plant Taxon.* **27**(1): 185-189. DOI: [10.3329/bjpt.v27i1.47579](https://doi.org/10.3329/bjpt.v27i1.47579)
13. Tabassum, N., Begum, M. and **Rahman, M.O.** 2020. *Jungermannia exertifolia* Steph. – A new bryophyte record from Bangladesh. *Dhaka Univ. J. Biol. Sci.* **29**(1): 133-136. DOI: [10.3329/dujbs.v29i1.46539](https://doi.org/10.3329/dujbs.v29i1.46539)
14. Siddiqui, S.A., Rahman, A., **Rahman, M.O.**, Akbar, M.A., Ali, M.A., Al-Hemaid, F.M.A., Elshikh, M.S. and Farah, M.A. 2019. A novel triterpenoid 16-Hydroxy betulinic acid isolated from *Mikania cordata* attributes multi-faced pharmacological activities. *Saudi J. Biol. Sci.* **26**: 554-562. (Elsevier). DOI: [10.1016/j.sjbs.2018.03.002](https://doi.org/10.1016/j.sjbs.2018.03.002)
15. Shethi, K.J., Rashid, P., Begum, M. and **Rahman, M.O.** 2019. Morphoanatomical profile of five species of *Piper* L. from Bangladesh and its taxonomic significance. *Bangladesh J. Plant Taxon.* **26**(1): 57-68. DOI: [10.3329/bjpt.v26i1.41917](https://doi.org/10.3329/bjpt.v26i1.41917)
16. **Rahman M.O.**, Hassan, S. and Begum, M. 2019. Floristic study in Lalpur upazila of Natore district, Bangladesh: Identification, distribution and economic potential. *J. Asiat. Soc. Bangladesh (Science)* **45**(1): 71-91.
17. Sultana, N., Akhi, S.S., Hassan, M.A. and **Rahman, M.O.** 2019. Morphological and anatomical investigation among six variants of *Canna indica* L. *Bangladesh J. Plant Taxon.* **26**(2): 219-230. DOI: [10.3329/bjpt.v26i2.44582](https://doi.org/10.3329/bjpt.v26i2.44582)
18. Dash, C.K., Rashid, M.H., Sultana, S.S. and **Rahman, M.O.** 2019. Cytotaxonomy of four floral variants of *Impatiens balsamina* L. *J. Bangladesh Acad. Sci.* **43**(1): 1-9. DOI: [10.3329/jbas.v43i1.42227](https://doi.org/10.3329/jbas.v43i1.42227)
19. Selvi, S., Polat, R., Babacan, E.Y., **Rahman, M.O.** and Çakılcıoğlu, U. 2019. Micromorphological and anatomical investigation on six *Onosma* L. taxa (Boraginaceae) from Turkey. *Bangladesh J. Plant Taxon.* **26**(1): 69-81. DOI: [10.3329/bjpt.v26i1.41919](https://doi.org/10.3329/bjpt.v26i1.41919)
20. Sultana, N., **Rahman, M.O.** and Hassan, M.A. 2019. Seed germination in six anticancerous plants of Bangladesh. *J. Asiat. Soc. Bangladesh (Science)* **45**(2): 151-159.
21. **Rahman, M.O.**, Sayma, N.J. and Begum, M. 2019. Angiospermic flora of Gafargaon upazila of Mymensingh district focusing on medicinally important species. *Bangladesh J.*

Plant Taxon. **26**(2): 269-283. DOI: [10.3329/bjpt.v26i2.44594](https://doi.org/10.3329/bjpt.v26i2.44594)

22. Siddiqui, S.A., Rahman, A., **Rahman, M.O.**, Akbar, M.A., Rouf, A.S.S., Ali, M.A., Al-Hemaid, F.M.A. and Farah, M.A. 2018. Evaluation of anti-nociceptive, anti-inflammatory and antipyretic potential of *Mikania cordata* (Burm. f.) Robinson in experimental animal model. *Saudi J. Biol. Sci.* **25**: 1049-1055. (Elsevier). DOI: [10.1016/j.sjbs.2018.01.009](https://doi.org/10.1016/j.sjbs.2018.01.009)
23. **Rahman, M.O.**, Siddiqui, S.A., Rahman, A., Akbar, M.A. and Ali, M.A. 2018. Multi-functional pharmacological credence of triterpenoid 16-hydroxy betulinic acid isolated from *Mikania cordata*. *Chinese J. Pharmacol. Toxicol.* **32**(4): 253-254.
24. Afroz, M. **Rahman, M.O.** and Hassan, M.A. 2018. Taxonomic revision of the genus *Crinum* L. (Liliaceae) of Bangladesh. *Bangladesh J. Plant Taxon.* **25**(2): 257-271. DOI: [10.3329/bjpt.v25i2.39531](https://doi.org/10.3329/bjpt.v25i2.39531)
25. **Rahman, M.O.**, Rahman, M.B. Siddiqui, S.A., Hassan, M.A. and Rashid, M.A. 2018. Pharmacological evaluation of ethnomedicinal *Glycosmis pentaphylla* Lour. as antidiabetic, antioxidant and cytotoxic agent. *J. Appl. Pharmaceut. Sci.* **8**(11): 80-86. DOI: [10.7324/JAPS.2018.81112](https://doi.org/10.7324/JAPS.2018.81112)
26. Taşar, N., Doğan, G., Kıran, Y., **Rahman, M.O.** and Çakılciöğlü, U. 2018. Morphological, anatomical and cytological investigations on three taxa of *Centaurea* L. (Asteraceae) from Turkey. *Bangladesh J. Plant Taxon.* **25**(2): 215-226. DOI: [10.3329/bjpt.v25i2.39527](https://doi.org/10.3329/bjpt.v25i2.39527)
27. Rahman, A., Siddiqui, S.A., **Rahman, M.O.** and Kang, S.C. 2018. Insecticidal activity of seed essential oil of *Poncirus trifoliata* (L.) Raf. *Bangladesh J. Bot.* **47**(3): 413-419.
28. Hossain, U. and **Rahman, M.O.** 2018. Ethnobotanical uses and informant consensus factor of the medicinal plants in Barisal district, Bangladesh. *Bangladesh J. Plant Taxon.* **25**(2): 241-255. DOI: [10.3329/bjpt.v25i2.39530](https://doi.org/10.3329/bjpt.v25i2.39530)
29. Afroz, S., **Rahman, M.O.** and Hassan, M.A. 2018. Taxonomy and reproductive biology of the genus *Zephyranthes* Herb. (Liliaceae) on Bangladesh. *Bangladesh J. Plant Taxon.* **25**(1): 57-69. DOI: [10.3329/bjpt.v25i1.37181](https://doi.org/10.3329/bjpt.v25i1.37181)
30. Karaköse, M., Polat, R., **Rahman, M.O.** and Çakılciöğlü, U. 2018. Traditional honey production and bee flora of Espiye, Turkey. *Bangladesh J. Plant Taxon.* **25**(1): 79-91. [10.3329/bjpt.v25i1.37184](https://doi.org/10.3329/bjpt.v25i1.37184)
31. Uddin, M.N., **Rahman, M.O.** and Rahman, M.A. 2018. New records of three species and a genus of the Euphorbiaceae from Bangladesh. *Bangladesh J. Plant Taxon.* **25**(1): 93-99. [10.3329/bjpt.v25i1.37185](https://doi.org/10.3329/bjpt.v25i1.37185)
32. **Rahman, M.O.** 2017. Biological activities of essential oil and extracts from *Mikania cordata* (Burm. f.) Robinson: An analgesic, anti-inflammatory and antipyretic evaluation. *Med. Aromat. Plants* **6**(5) (Suppl.): 29.
33. **Rahman, M.O.**, Rahman, M.Z., Sony, S.K. and Islam, M.N. 2017. Genetic variation and molecular relationships among some taxa of *Desmodium* Desv. based on RAPD markers. *Bangladesh J. Plant Taxon.* **24**(2): 149-154.
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NEW SPECIES RECORDS DESCRIBED FROM BANGLADESH

1. *Aristolochia elegans* Mast. (Aristolochiaceae)
2. *Cleidiocarpon laurinum* Airy Shaw (Euphorbiaceae)
3. *Diospyros albiflora* Alston (Ebenaceae)
4. *Euphorbia pycnostegia* Boiss. (Euphorbiaceae)
5. *Euphorbia repens* K. Koch (Euphorbiaceae)
6. *Guazuma ulmifolia* Lam. (Sterculiaceae)
7. *Helicteres viscida* Bl. (Sterculiaceae)
8. *Hydrocotyle verticillata* Thunb. (Apiaceae)
9. *Pulicaria vulgaris* Gaertn. (Asteraceae)
10. *Solanum barbisetum* Nees (Solanaceae)
11. *Solanum capsicoides* All. (Solanaceae)
12. *Sterculia urens* Roxb. (Sterculiaceae)
13. *Tabernaemontana corymbosa* Roxb. (Apocynaceae)

14. *Tabernaemontana crispa* Roxb. (Apocynaceae)
15. *Vernonia pyramidale* (D. Don) S. N. Mitra (Asteraceae)
16. *Jungermannia exertifolia* Steph. (Bryophyte)

JOURNAL AND BOOKS EDITED AND REVIEWED

1. Bangladesh Journal of Plant Taxonomy (Thomson Reuters, USA) [Vol. 17 (2010) to Vol. 25 (2018)]
2. Medicinal Plants used by the Tribal people of Chittagong Hill Tracts, Bangladesh, Vol. 1. Ministry of Chittagong Hill Tracts, Government of the People's Republic of Bangladesh (2004).
3. Encyclopedia of Flora and Fauna of Bangladesh, Vol. 7. Angiosperm: Dicotyledons (Balsaminaceae – Euphorbiaceae). Asiatic Society of Bangladesh, Dhaka (2008).
4. Encyclopedia of Flora and Fauna of Bangladesh, Vol. 8. Angiosperm: Dicotyledons (Fabaceae – Lythraceae). Asiatic Society of Bangladesh, Dhaka (2009).
5. Encyclopedia of Flora and Fauna of Bangladesh, Vol. 9. Angiosperm: Dicotyledons (Magnoliaceae – Punicaceae). Asiatic Society of Bangladesh, Dhaka (2009).
6. Encyclopedia of Flora and Fauna of Bangladesh, Vol. 10. Angiosperm: Dicotyledons (Ranunculaceae – Zygophyllaceae). Asiatic Society of Bangladesh, Dhaka (2009).
7. Encyclopedia of Flora and Fauna of Bangladesh, Vol. 12. Angiosperm: Monocotyledons (Orchidaceae – Zingiberaceae). Asiatic Society of Bangladesh, Dhaka (2008).

AFFILIATION WITH SCIENTIFIC ORGANIZATIONS

1. Fellow, Linnean Society of London, United Kingdom.
2. Member, Asian Council of Science Editors (ACSE).
3. Commission Member, Species Survival Commission (SSC) Medicinal Plant Specialist Group, IUCN, Switzerland.
4. Member, LinQBio (The Global Physicians and Scientists Network), Netherlands.
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6. Member, Bangladesh Association for the Advancement of Science.
7. Life Member, Bangladesh Botanical Society.
8. Life Member, Bangladesh Association of Plant Taxonomists.
9. Member, Bangladesh Association for Plant Tissue Culture & Biotechnology.
10. Member, Bangladesh National Biodiversity Group.
11. Member, Japan Universities Alumni Association in Bangladesh.
12. Life Member, Dhaka University Botany Alumni Association
13. Member, Academic Council, University of Dhaka.
14. Member, Board of Advanced Studies, University of Dhaka.

ADMINISTRATIVE WORKS

- Provost (Acting) (10 March 2019 – 8 July 2019)
Fazlul Huq Muslim Hall (Students' dormitory having approx. 1,200 students)
University of Dhaka, Dhaka 1000
- Senior House Tutor (2015 – 9 March 2019)
Fazlul Huq Muslim Hall, University of Dhaka, Dhaka 1000
- House Tutor (2013 – 2014)
Fazlul Huq Muslim Hall, University of Dhaka, Dhaka 1000
- Assistant House Tutor (2011-2013)
Fazlul Huq Muslim Hall, University of Dhaka, Dhaka 1000

INTERNATIONAL COLLABORATION

- Dr. Sangho Choi, Director, International Biological Materials Research Centre, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Daejeon, **South Korea**
- Prof. Dr. Joongku Lee, Department of Environment & Forest Resources, Chungnam National University, Daejeon, **South Korea**
- Dr. M. Ajmal Ali, Department of Botany and Microbiology, King Saud University, Riyadh, **Saudi Arabia**
- Dr. Ugur Çakilcioğlu, Munzur University, Tunceli, **Turkey**.
- Dr. Dhafer Ahmed Alzahrani, Department of Biological Sciences, King Abdulaziz University, **Saudi Arabia**.

SCIENTIFIC/ ORGANIZING COMMITTEE MEMBERS OF INTERNATIONAL CONFERENCES AND SYMPOSIA

- *International Symposium on Plant Taxonomy and Ethnobotany*
Central National Herbarium, Kolkata, India, 13-14 February 2020
- *International Traditional Medicine Conference*, Dubai, United Arab Emirates
17-18 October 2019.
- *International Conference on Plant Science Technology and Molecular Biology (ICPM 2019)*
Valencia, Spain, 23-25 May 2019
- *European Congress on Applied Science & Innovative Engineering*
Athens, Greece, 12-13 November 2018
- *International Artvin Symposium*
Artvin, Turkey, 18-20 October 2018
- *3rd World Congress on Medicinal Plants and Natural Products Research*
Kuala Lumpur, Malaysia, 2-3 October 2017

RESEARCH GRANTS RECEIVED

- “Screening of Anticancer Activity of *Ficus hispida* L. f. on HELA, BHK-21, NP-2 derivatives, and VERO cell lines” funded by Centre for Advanced Studies and Research in Biological Sciences, University of Dhaka, Bangladesh (2019-2020).
- “Biological Evaluation of *Ficus hispida* L. f. as Antidiabetic, Antioxidant and Cytotoxic Agent” funded by Centre for Advanced Studies and Research in Biological Sciences, University of Dhaka, Bangladesh (2018-2019).
- “A comprehensive survey and documentation of plant diversity of Dhohar Upazila, Dhaka: Potential, Distribution and Conservation” funded by Bangladesh University Grants Commission (2017-2018).
- “A comprehensive survey and documentation of plant diversity of Gaffargaon sub-district under Mymensingh district: Distribution, Potential and Conservation” funded by Centre for Advanced Studies and Research in Biological Sciences, University of Dhaka, Bangladesh (2017-2018).
- “Evaluation of anti-nociceptive, anti-inflammatory and antipyretic potential of *Mikania cordata* (Burm. f.) Robinson” funded by King Saud University, Riyadh, Saudi Arabia (2016-2017).
- “Bioprospecting on Biological Materials of Bangladesh” funded by Korea Research Institute of Biosciences and Biotechnology, South Korea (2015-2016).

- “Enhancing growth and nitrogen fixation in *Arachis hypogaea* L. (groundnut) and *Lens culinaris* Medik. (lentil) by using indigenous rhizobia in agricultural soil of Bangladesh” funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh (2013-2014).
- “Bioremediation of arsenic by using arsenic-resistant nitrogen fixing bacteria compatible to leguminous crops *Arachis hypogaea* L. (groundnut) and *Lens culinaris* Medik. (lentil) in the arsenic affected soil of Bangladesh” funded by the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh (2012-2013).
- “Angiospermic flora of Trishal upazila, Mymensingh focusing on medicinally important plant species and their conservation” funded by Centre for Advanced Studies and Research in Biological Sciences, University of Dhaka, Bangladesh (2012-2013).
- “Genetic variation and interspecific relationships of *Crotalaria* from Bangladesh using PCR based DNA markers” funded by Biotechnology Research Centre, University of Dhaka, Bangladesh (2011-2012).
- “Systematics of economically important genus *Desmodium* in Bangladesh” funded by Centre for Advanced Studies and Research in Biological Sciences, University of Dhaka, Bangladesh (2011-2012).
- “Molecular characterization of *Desmodium* species from Bangladesh using RAPD markers” funded by Biotechnology Research Centre, University of Dhaka, Bangladesh (2010-2011).

KEYNOTE / INVITED SPEAKER IN INTERNATIONAL CONFERENCE

Invited Speaker – ‘2018 International Conference on the Pharmacology of Traditional Medicine of the Belt and Road Initiatives’ in Beijing, China, 6-9 May 2018

Title of the Invited Speech: ‘Multi-functional pharmacological credence of triterpenoid 16-hydroxy betulinic acid isolated from *Mikania cordata*’

Keynote Speaker – ‘3rd World Congress on Medicinal Plants and Natural Products Research’ in Kuala Lumpur, Malaysia, 2-3 October 2017

Title of the Keynote Paper: ‘Biological activities of Essential Oil and Extracts from *Mikania cordata* (Burm. f.) Robinson: An analgesic, anti-inflammatory and antipyretic evaluation’

SELECTED CONFERENCE PAPERS

- ✚ **Rahman, M.O.**, Rashid, M.A., Keya, R.J. and Hassan, M.A. 2019. Multi-functional pharmacological activities of *Syzygium cumini*: An antidiabetic, cytotoxic and antioxidant evaluation. *International Traditional Medicine Conference, October 17-18, 2019, Dubai, UAE*. p. 15.
- ✚ **Rahman, M.O.**, Sultana, N., Rashid, M.A. and Hassan, M.A. 2018. Exploring biological and chemical properties of *Oroxylum indicum* (L.) Kurz. *EuroSciCon Conference on Applied Science, Biofuels & Petroleum Engineering, 12-13 November, 2018, Athens, Greece*, p. 49.
- ✚ **Rahman, M.O.**, Siddiqui, S.A., Rahman, A., Akbar, M.A. and Ali, M.A. 2018. Multi-functional pharmacological credence of triterpenoid 16-hydroxy betulinic acid isolated from *Mikania cordata*. *2018 International Conference on the Pharmacology of Traditional Medicine of the Belt and Road Initiatives*, 6-9 May 2018, Beijing, China.
- ✚ Sultana, N., Akhi, S.S., Hassan, M.A. and **Rahman, M.O.** 2019. Discrepancies in *Canna indica* L. complex as revealed by morphological and anatomical studies. Paper presented in ‘*Biennial Taxonomy Conference*’ organized by Bangladesh Association of Plant Taxonomists, Dhaka, Bangladesh.

- ✚ **Rahman, M.O.**, Huq, T.T. and Begum, M. 2019. Plant diversity of Dhohar Upazila of Dhaka district, Bangladesh: Potential, Distribution and Conservation. Paper presented in '**Biennial Taxonomy Conference**' organized by Bangladesh Association of Plant Taxonomists, Dhaka, Bangladesh.
- ✚ **Rahman, M.O.**, Rahman, M.Z., Sony, S.K. and Islam, M.N. 2018. Molecular characterization of some taxa of *Desmodium* Desv. based on random amplified polymorphic DNA markers. *7th International Botanical Conference*, 2-3 February 2018, Dhaka, Bangladesh. p. 58.
- ✚ Sultana, N., **Rahman, M.O.**, Hassan, M.A. and Rashid, M.A. 2018. Evaluation of biological and chemical properties of *Oroxylum indicum* (L.) Kurz. *7th International Botanical Conference*, 2-3 February 2018, Dhaka, Bangladesh. p. 61.
- ✚ Sultana, N., **Rahman, M.O.**, Hassan, M.A. and Rashid, M.A. 2018. Antioxidant, cytotoxicity and antimicrobial activities of *Aphanamixis polystachya* (Wall.) R. N. Parker. *7th International Botanical Conference*, 2-3 February 2018, Dhaka, Bangladesh. p. 62.
- ✚ **Rahman, M.O.** 2017. Biological activities of essential oil and extracts from *Mikania cordata* (Burm. f.) Robinson: An analgesic, anti-inflammatory and antipyretic evaluation. **3rd World Congress on Medicinal Plants and Natural Products Research, Kuala Lumpur, Malaysia**, 2-3 October 2017.
- ✚ Sulatan, M., Begum, M., **Rahman, M.O.** and Hassan, M.A. 2018. Ethnobotanical survey in Patuakhali district, Bangladesh. *Triennial Plant Taxonomy Conference*, 10 February 2018, Bangladesh National Herbarium, Dhaka.
- ✚ Rahman, M.B., Hassan, M.A. and **Rahman, M.O.** 2018. Taxonomy, ethnobotany, propagation and distributional abundance of an indigenous medicinal plant *Glycosmis pentaphylla* (Retz.) A. DC. *Triennial Plant Taxonomy Conference*, 10 February 2018, Bangladesh National Herbarium, Dhaka.
- ✚ Sultana, M., Begum, M., Hassan, M.A. and **Rahman, M.O.** 2011. Taxonomic studies on the angiospermic flora of Patuakhali district in Bangladesh. *Fifth International Botanical Conference*, 9-11 December 2011, Dhaka, Bangladesh.
- ✚ Khatun, M., Hassan, M.A., **Rahman, M.O.**, Begum, M and Islam, S.N. 2011. Taxonomy and ethnobotany of the leafy vegetables in Bangladesh. *Fifth International Botanical Conference*, 9-11 December 2011, Dhaka, Bangladesh.
- ✚ Khatun, A., **Rahman, M.O.**, Begum, M and Hassan, M.A. 2011. Diversity of pappus structure in some species of Asteraceae in Bangladesh. *Fifth International Botanical Conference*, 9-11 December 2011, Dhaka, Bangladesh.
- ✚ Antara, R.T., **Rahman, M.O.**, Begum, M and Hassan, M.A. 2011. Angiospermic flora of Dhamrai upazila, Dhaka, Bangladesh. *Fifth International Botanical Conference*, 9-11 December 2011, Dhaka, Bangladesh.
- ✚ Khatun, M., Hassan, M.A., **Rahman, M.O.** and Islam S.N. 2012. Ethnobotanical studies of the leafy vegetables of Bangladesh. *Annual Plant Taxonomy Conference*, 22 December 2012, Dhaka.
- ✚ Alam, M.A. and **Rahman, M.O.** 2012. Angiospermic flora of Trishal Upazila, Mymensingh, Bangladesh. *Annual Plant Taxonomy Conference*, 22 December 2012, Dhaka.
- ✚ **Rahman, M.O.** and Kondo, K. 2002. Evaluation of inter simple sequence repeat (ISSR) markers for systematic relationships of some terrestrial species of *Utricularia* L. (Lentibulariaceae). *4th International Carnivorous Plant Conference*, 21-23 June 2002, Tokyo, Japan.

MAJOR INTERNATIONAL CONFERENCES ATTENDED ABROAD

1. *2018 International Conference on the Pharmacology of Traditional Medicine of the Belt and Road Initiatives*, Beijing 6-9 May 2018.
2. *Third World Congress on Medicinal Plants and Natural Products Research* in Kuala Lumpur, Malaysia, 2-3 October 2017.
3. *Second International Barcode of Life Conference* in Taipei, Taiwan, 18-20 September 2007.
4. *Fourth International Carnivorous Plant Conference* in Tokyo, Japan, 21-23 June 2002.
5. *International Orchid Conference* in Shimanami, Japan, 28-29 April 1999.

COUNTRIES VISITED

- Japan
- Singapore
- Taiwan
- Saudi Arabia
- Malaysia
- China

PERSONAL PROFILE

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