Mohammad Mostafa, Ph.D.

Director (Addl Charge) and Chief Scientific Officer BCSIR Laboratories Chattogram Chattogram Cantonment-4220,Bangladesh. Phone: +88 031 681761, 681763 (off.), Fax. +88 031 682505 Mobile: +88 01684612822, 01716525686 E-mail: drmostafabcsir@yahoo.com https://orcid.org/0000-0001-8886-1937 Scopus Author ID: 16307598800



Mohammad Mostafa, Ph.D.

GENERAL INFORMATION:

- 1. Name
- 2. Nationality
- 3. Spouse Name
- 4. Sex
- 5. Date of Birth
- 6. Marital status
- 7. Place of Birth
- 8. Present Occupation
- 9. Date of Joining in BCSIR
- 10. Present Address
- **11. Permanent Address**
- :Chief Scientific Officer, BCSIR : 04 October 1994

: Mohammad Mostafa

: Mrs. Dilruba Khanam

: Noakhali, Bangladesh

: Married with two Childrens

: 31 December 1968

: Bangladeshi

: Male

- : A-10, BCSIR R/A, New Market, Dhaka-1205
- : Vill:Rasul Pur, P.O: Begumgonj, Dist: Noakhali

ACADEMIC QUALIFICATIONS:

2008 – 2009- Post-doctoral Research, University of Fort Hare, South Africa

1998-2002- **Ph.D. in Phytochemistry**, Department of Chemistry, University of Dhaka, Bangladesh Awarded in 2005.

Thesis title: Chemical and Biological Studies on Lecus Indica Linn, Bridelia ndellensis and Dillenia pentagyna Roxb Plants. Supervisor by Prof. M. Mosiuzzaman and Prof Nilufar Nahar

1988-89 - M. Sc in Organic Chemistry, Department of Chemistry, University of Dhaka, Dhaka-1000, Bangladesh, Awarded in 1993.

Thesis title: *Studies on reaction of 1,3 diketone with* α *,* β *unsaturated aldehydes.* Supervisor by Prof. M. Giasuddin Ahmed and Prof. S. A Ahmed

1985-1988 - **B. Sc (Hon's) in Chemistry,** Department of Chemistry, University of Dhaka, Dhaka-1000, Bangladesh, Awarded in 1990.

Research Fellowship :

April 2008 to March 2009: Post-doctoral Research fellowship, University of Fort Hare, South Africa.

Advisor: Professor A. J. Afolayan

June 2000-Dec. 2000: ARAP fellowship, HEJ Research Institute of Chemistry, Pakistan

Nov 2001-April 2001: ARAP fellowship, HEJ Research Institute of Chemistry, Pakistan

Supervisors: Prof M Atta-Ur Rahman and Prof M Iqbal Choudhary

RESEARCH GRANT:

Special Research grant received from Ministry of Science and Information & Communication Technology, Government of Bangladesh. 2010 (MOSICT/Sha-9/PRC-24/2009-2010/(Part-1)/BS-72/192, date-03/12/2009).

REVIEWER:

Bangladesh Journal of Scientific and Industrial Research Pharmaceutical Biology

CAREER:

30.06 2019-present: Chief Scientific officer and **Director (Addl. Charge),** BCSIR Laboratories Chattogram

11.07 2018-present: Director (Addl. Charge), BCSIR Laboratories Chattogram

17.09 2017-10.07.2018: Research Coordinator, Bangladesh Council for Scientific and Industrial Research (BCSIR)

07.06.2012- present: Principal Scientific officer, Bangladesh Council for Scientific and Industrial Research (BCSIR) Laboratories, Dhaka.

2012-2017: Quality Manager, Bangladesh Council for Scientific and Industrial Research (BCSIR) Laboratories, Dhaka.

03.02.2005- 06.06.2012: Senior Scientific officer, Bangladesh Council for Scientific and Industrial Research (BCSIR) Laboratories Dhaka.

04.10.1994- 02.02.2005: Scientific Officer, Bangladesh Council of Scientific and Industrial Research (BCSIR).

7 April 1994– 3 October 1994: Trainee Quality Control Officer, Beximco Pharm. Company Ltd, Dhaka

JOB DESCRIPTION:

- Formulation of research and development plan and program of the Institute.
- To overall supervision of the administration, research and development of work of the Institute.
- To look after the security of the Institute.

SUPERVISION/CO-SUPERVISION:

11 M.S., 2 M. Phil and 1 Ph.D. Students.

PROFESSIONAL TRAINING:

FOREIGN:

1. Successfully completed a training on ISO 9001, ISO 14001 and OHSAS 18001- Internal Auditor Training-Integrated Management Systems organized by SGS held in **Melbourne, Australia** on13-16 May, 2013

2. Successfully completed the Associate Programme-2014 held in **Netherlands, the United Kingdom and Poland** from 31 July to 03 October 2014 organized by the Organization for the Prohibition of Chemical Weapons (OPCW).

3. Successfully completed the Natural Product Training and Development Programme held in **UTM**, **Malaysia** from 27September to 13 October 2015 organized by the Organization for the Prohibition of Chemical Weapons (OPCW).

4. Successfully completed the Training on Photoluminicence at Manufacturer in Covina, California, USA from 24.09.2018-27.09.2018

5. Successfully completed the Training on FTIR-ATR at Bruker Optik GmbH, in Ettlingen, Germany from 15.09.2019-17.09.2019.

LOCAL:

1. "Training on Ulta-Violet, Visible and Infrared Spectrophotometry" from 18-22 September, 1999, organized by Network of Instrument Technical personnel and User Scientists of Bangladesh (NITUB), held in Dhaka, Bangladesh

2. "Training on High Performance Liquid Chromatography (HPLC)" from 05-10 October 2002, organized by NITUB, held in Dhaka, Bangladesh

3. "Training on Liquid Chromatography-Mass Spectrophotometry (LC-MS)" from 15-27 November 2005, organized by TechnoWorth Associates Ltd, held in Dhaka, Bangladesh

4. "Training on Atomic Absorption Spectrophotometer (AAS)" from 09-11 August 2010, organized by BCSIR, held in Dhaka, Bangladesh

5. "Training on Inductively Coupled Plasma Mass Spectrometry (ICP-MS)" from 24-26 July 2011, organized by BCSIR, held in Dhaka, Bangladesh.
1. Internal Auditor Course on ISO 9001:2008 held on 18-19 May, 2012 organized by the Bureau Veritas, Dhaka

6. The BAB Assessor Training Refresher Course held on 12-13 June, 2012 organized by the Bangladesh Accreditation Board, Dhaka.

7. Laboratory Accreditation & ISO/IEC 17025 Requirements held on 4-5 July, 2012 organized by the Bangladesh Accreditation Board, Dhaka.

8. 12th Human Resource Planning Course held on 07-11 October, 2012 organized by the Bangladesh Public Administration Training Center, Saver, Dhaka.

9. Strategic Planning and Project management Course held on 04-22 November, 2012 organized by the National Academy for Planning and Development, Nilkhet, Dhaka-1205.

10. Assessor Training Course on ISO/IEC 17021:2011 & 17065:2012 held on 17-21 November, 2013 Dhaka organized by the Bangladesh Accreditation Board (BAB) and Norwegian Accreditation NA).

11. APO National Workshop on Organic Certification held on 2-5 June, 2014 jointly organized by the Asian Productivity Organization (APO) and National Productivity Organization (NPO), Dhaka, Bangladesh.

12. BAB Lead Assessor Training Course on ISO/IEC 17025:2005 held on 23-27 November, 2014 organized by the Bangladesh Accreditation Board (BAB), Dhaka.

13. BAB Assessors Refresher Course held on 11-12 May, 2016 organized by the Bangladesh Accreditation Board, Dhaka.

14. Training on Computational Tools for Drug Discovery held on 04-06 April 2017 organized by BCSIR at BCSIR Labs, Chittagong.

15. Training on PPR 2008 and Public Procurement Management held on 04-015 February 2018 organized by Bangladesh Institute of Management, Dhaka, Bangladesh.

16. Training on "Innovation in Public Service" held on 28-29 January 2019 organized by BCSIR.

17. Training on "Basic Technique of Molecular Identification of Bacteria/Fungi" held on 06-07 March 2019 organized by Invent Technologies Ltd, Dhaka.

20. Attended to "the Bangladesh High Level Chemical Security Workshop" held on 28 February-01 March 2019 organized by Chemical Security Program, U.S Department of State, USA at Dhaka, Bangladesh.

21. Attended Bangladesh-US Training Program (Virtual) on "Strengthening Chemical Security and Secure Chemical Management at Different Public and Private Sectors in Bangladesh" held on 25-26 November 2021 organized by Chemical Security Program, U.S Department of State, USA at Dhaka, Bangladesh.

LIST OF RESEARCH PAPER:

INTERNATIONAL JOURNALS:

1. Md Rahman, Md Junaid, SM Hosen, **Mohammad Mo**stafa, Lei Liu, Kirsten Benkendorff., Mollusc-Derived Brominated Indoles for the Selective Inhibition of Cyclooxygenase: A Computational Expedition, Molecules, 26(21), 6538, 2021.

2. SM Zahid Hosen, Md Junaid, Muhammad Shaiful Alam, Maruf Rubayed, Raju Dash, Rasheda Akter, Tania Sharmin, Nusrat Jahan Mouri, Mohammad Ali Moni, Mahmuda Khatun, **Mohammad Mostafa**., GreenMolBD: Nature Derived Bioactive Molecules' Database, Medicinal Chemistry, 18(6), 724-733,2021.

3. S. M. Rafiqul Islam, Afsana Yeasmin Tanzina, Md Javed Foysal, M. Nazmul Hoque, Meheadi Hasan Rumi, A. M. A. M. Zonaed Siddiki, Alfred Chin-Yen Tay, M. Jakir Hossain, Muhammad Abu Bakar, **Mohammad Mostafa**, Adnan Mannan., Insights into the nutritional properties and microbiome diversity in sweet and sour yogurt manufactured in Bangladesh, Scientific Reports, 11, 22667, 2021

4. Paroma Arefin, Md Shehan Habib, **Mohammad Mostafa**, Dipankar Chakraborty, Sreebash Chandra Bhattacharjee, Md Saidul Arefin, Debabrata Karmakar.,m Fexofenadine HCl Microspheres–Can it be the First Line Therapy for Allergic Disorders?, Biosciences Biotechnology Research Asia, 18(4), 795, 2021.

5. Debabrata Karmakar. Paroma Arefin, Md Shehan Habib, **Mohammad Mostafa**, Dipankar Chakraborty, Sreebash Chandra Bhattacharjee, Md Saidul Arefin., Evaluation of the Influence of Stirring Speed on the Release Kinetics of Fexofenadine HCl Polymeric Microspheres, Bioscience Biotechnology Research Asia, 18(4),733-741, 2021.

6. AJM Morshed, Md Obaidul Haque Helali, **M. Mostafa**, Muhammad Abu Bakar and Sujan Kanti Das., A Review-Production of Ribbed Smoked Sheet in Chattogram Hill Tracts of Bangladesh and Assessment of Heavy Metals in itself. IOSR Journal of Applied Chemistry (IOSR-JAC), 11 (8), 11-14, 2018.

7. **M. Mostafa**., Waste water treatment in Textile Industries- the concept and current removal Technologies. Journal of Biodiversity and Environmental sciences (JBES), 7 (1), 501-525, 2015.

8. **M. Mostafa**., Hemayet Hossain., M. Mahmudul Hasan., M. Anwar Hossain and Sahana Parveen., Antibacterial activity of six medicinal plants used in traditional medicine growing in Bangladesh. International Journal of Pharmaceutical Sciences and Research 5(6), 2210-2215, (2014)

9. **M. Mostafa** and A.J.Afolayan, Antimicrobial activity of *Clematis brachiata* Thunb leaf extracts. International Journal of Pharmaceutical Sciences and Research (IJPSR), 4(1), 243-247, 2013

10. M.T. Yakubu, **M. Mostafa**, A O T Ashafa and A J Afolayan, Antimicrobial Activity of the Solvent Fractions from Bulbine natalensis, *African Journal of Traditional, Complementary and Alternative Medicines*, 9(4), 459-464, 2012

11. **M. Mostafa**^{*}, Hemayet Hossain, M Anawer Hossain, M. Mahmudul Hasan, Sahana Parveen¹ and M Zahirul Huq, Insceticidal activity of Plant extracts against Tribolium castaneum Herbst. J. Adv. Sci. Res. 3(3),80-84, 2012

12. **M. Mostafa**., J.R.Appidi., M.T.Yakubu and A. J. Afolayan. Anti-inflammatory, analgesic and antipyretic properties of the aqueous extract of *Clematis brachiata* Thunb leaf in male Wistar rats. Pharmaceutical Biology, 48(6), 682-689, 2010.

13. **M. Mostafa**, N. Sultana, Nilufar Nahar, M Mosihuzzaman and M I. Choudhury. A new phenypropanoid glycoside from *Leucas indica* linn, Journal of Asian Natural products Research. 11(1), 29-32, 2009.

14. **M. Mostafa**., J.R.Appidi., M.T.Yakubu and A. J. Afolayan. Toxicological implications of aqueous extract of *Clematis brachiata* Thunb leaf in male Wistar rats. Journal of Pharmacy and Pharmacology, 3 (11), 531-538, 2009.

15. M. Mostafa, Nilufar Nahar, M Mosihuzzaman, Talat Makhmoor, M. Iqbal Choudhury and Atta-ur Rahman. Radical Scavenging Phenylethanoid Glycosides from *Leucas indica* L. *Natural Product Research*, 21(4), 354-362, 2007.

16. **M. Mostafa**, B. K. Saha, M. E. Islam, J. Begum, B. K. Roy, K. Ahmed and M. E. Hossain, Ant diarrhoeal and anti-bacterial activities of *Centella asiatica* (L.) Urban (Thankuni). *Hamdard Medicus*, Vol.XLIX No.1 P.12-17, 2006.

17. **M. Mostafa**, Nilufar Nahar, M Mosihuzzaman, Selestin D Sokeng, Naheed Fatima, Atta-ur-Rahman and M. Iqbal Choudhury. Phosphodiesterase-1 Inhibitor Quinovic acid Glycosides from *Bridelia ndellensis*. *Natural Product Research* 20(7), 686-692, 2006.

18. S.D.Sokng, B. Rokeya, **M. Mostafa**, N. Nahar, M. Mosihuzzaman, L. Ali, P. Kamtchouing, Antihyperglycemic effect of *Bridelia ndellensis* ethanol extract and fractions in Streptozotocin-induced diabetic rats. *African Journal of Traditional, Complementary and Alternative Medicines*, 2(2), 94-102,2005.

19. A.N.M. Alamgir., Momtaz Ahmed and **M. Mostafa.,** A report on distribution of alkaloids and effect of NPK on alkaloid content of some higher dicotyledons (Metachlamydeae) of Chittagong district, *J.Natl. Bot. Soc, India, 53, 29-33, 1999.*

NATIONAL JOURNALS:

1. **M. Mostafa**, Shamim Ahmed and A.J.Afolayan, Antioxidant activity of Clematis brachiata Thunb. Bangladesh Journal of Scientific and Industrial Research (BJSIR), 53(3), 185-192, 2018

2. Farzana Sharmin, A.N.M Fakhuddin, M. Shahdul Islam, Sakila Akter, M. Aminul Ahsan, **M. Mostafa** and Halima Momtaz., Removal of Ammonia and Phosphate Pollution from Fertilizer Factory Effluents using Aquatic Macrophytes. Bangladesh Journal of Environmental Research., 10, 59-68, (2012, published 2014)

3. Farzana Sharmin, A.N.M. Fakhruddin, M. Shahidul Islam, Shakila Akter, Md Aminul Ahsan, **M. Mostafa** and Halima Montaz, Removal of Ammonia and Phosphate Pollution from Fertilizer Factory Effluents using Aquatic Macrophytes. Bangladesh Journal of Environmental Research 10, 59-68, 2012

4. **M. Mostafa**., Ismet Ara Jahan, M. Riaz, Hemayet Hossain, Ishrat Nimni, A.Sattar Miah and J.U. Chowdhury. Comprehensive Analysis of the composition of seed cake and its fatty acid from Swietinia mahagoni Jacq growing in Bangladesh. Dhaka Univ. J. Pharm. Sci. 10(1), 49-52, 2011.

5. Ismet Ara Jahan, **M. Mostafa**., Hemayet Hossain, Ishrat Nimni, Moinul Ahsan and J.U. Chowdhury. Chemical and Anitoxidant properties of Broccoli growing in Bangladesh. Dhaka Univ. J. Pharm. Sci. 9(1), 31-37, 2010.

6. Ismet Ara Jahan, **M. Mostafa**., Hemayet Hossain, Ishrat Nimni, Abdus Sattar, Abdul Alim and Syed M. Iqbal Moeiz. Anitoxidant activity of Stevia rebaudiana Bert leaves from Bangladesh. Bangladesh Pharmaceutical Journal 13(2), 67-75, 2010

7. M. Mostafa, Nilufar Nahar, M Mosihuzzaman. Two compounds from *Bridelia ndellensis* Beille, J. Bangladesh Chem. Soc. 23(2), 165-169, 2009.

8. **M. Mostafa**, Momtaz Ahmed, Ismet Ara Jahan and Jasim Uddin Choudhury. Composition of Oil from the seeds of Cassia sophera linn, *Bangladesh Journal of scientific and Industrial research*, 42(1), 75-78, 2007.

9. M. B. chowdhury, Z Hossain, H. Rhaman, M.E. Hossain, **M. Mostafa** and Z. Rahman. Studies on the Chemical and Biochemical composition of seawoods grown in the Saint Martain Island. *Bangladesh Chemical congress*-2004 proceedings, p.323-328.

10. M. Mostafa, M.E. Hossain, M.E. Islam, N.Nahar and and M Mosihuzzaman, Chemical investigation of *Dillenia pentagyna*. *Bangladesh Journal of scientific and Industrial research*, 39(1-2), 39-44, 2004.

11. M A. Wahab, M. Yosuf, **M. Mostafa** and M.E. Hossain, Seasonal variation in edaphic features in the root zone of *Zizyphus oenopiea* from Khagrachari District, Chittagong Hill Tracts, *Bangladesh Journal of scientific and Industrial research*, 39(3-4), 257-260, 2004.

12. **M. Mostafa,** M.E. Hossain, M.E. Islam and S.K.Dey., Studies on Oil from the seeds of *Sapium indicum* (Malgota), *Bangladesh Journal of scientific and Industrial research*, 38(3-4), 231-236, 2003.

13. **M. Mostafa**, S.K.Dey, Nilufar Nahar and M Mosihuzzaman, Phytochemical studies on Leucas indica Linn. *J. Bangladesh Chem. Soc.* 16(1), 1-5, 2003.

14. S.K.Dey, Md Sadequl Islam, **M. Mostafa**, Nilufar Nahar and M. Mosihuzzaman, Some Secondary Metabolites from Cytotoxic extract of *Prismatomeris tetrandra*, *J. Bangladesh Chem. Soc.* 16(1), 22-27, 2003.

15. M A. Wahab, M. Yosuf, **M. Mostafa** and M.E. Hossain, Root yield and alkaloid content of Rauvolfia serpentina Benth. in different ages under NPK trial. *Bangladesh J. Botany*, 32(2), 127-128, 2003.

16. M. Mostafa, S.D.Soking, Nilufar Nahar and M Mosihuzzaman, Phytochemical investigation of *Bridelia ndellensis. J. Bangladesh Chem. Soc.* 16(2), 165-169, 2003.

17. M. Mostafa, Nilufar Nahar and M Mosihuzzaman, Two acylated flavone glycosides from Leucas indicaLinn. *The Dhaka University Journal of Pharmaceutical Sciences*. 2(1), 51-55, 2003.

18. M. Mostafa, M.E.Hossain, M.E. Islam and S.K.Dey., Studies on Oil from the seeds of pongamia pinnata (Linn)Part-I, *Bangladesh Journal of scientific and Industrial research*, 34(3-4), 368-371, 1999.

LIST OF PROCESSES:

11 process on water quality parameters.

AUTHORSHIP/ CO-AUTHORSHIP OF PAPERS PRESENTED AT CONFERENCES

- 1. Paticipated in the National seminar on 5th diabetes and Endocrine conference, 5-6th December, 1999. Dhaka, Bangladesh.
- 2. International Workshop on Sustainable uses of medicinal and food plants, 15-17 Sept. 2000, HEJRIC, Karachi, Pakistan.
- 3. 3rd International Seminar on Plant Materials as a Source of Antidiabetic Agents organized by Asian Network of Research on Antidiabetic Plants (ANRAP), November16-17 2000 Dhaka, Bangladesh.
- 4. Participated as a poster presenter in the Tenth Asian symposium on Medicinal Plants, Spices and other natural products (ASOMPS X) 18-23 November 2000 Dhaka, Bangladesh.
- 5. Participated in the National seminar on Diabetes and Endocrine conference, Biological activity and separation technique, 9th April 2000 BCSIR, Dhaka, Bangladesh.
- 6. Participated as a oral paper presenter in the 2nd international and 12th National Chemistry conference of Pakistan Chemical Society, 4-6 Feb. 2002, University of Sindh, Jamshoro, Pakistan.
- 7. Participated as a poster presenter in the 7th Eurasia conference on Chemical sciences, 8-12 March, Karachi, Pakistan.
- 8. Participated in the National seminar on Development strategies for traditional medicine; Need of the twenty First, 19-20 June, 2002, Khaka, Bangladesh.
- 9. Participated as a oral paper presenter in the Silver Jublee Chemistry conference of Bangladesh Chemical Society, 11-13 Jan. 2003, Jahangirnagar University, Saver, Dhaka, Bangladesh.
- 10. Participated as a invited lecturer in the 3rd National Seminar on Plant Materials as a Source of Antidiabetic Agents organized by Asian Network of Research on Antidiabetic Plants (ANRAP), October 17, 2003 Dhaka, Bangladesh.

- 11. Participated in the 'IMED Reporting Procedure' held on Sep. 4-7, 2006 organized by Academy for Planning & Development, Ministry of Planning, Bangladesh.
- 12. Participated as a oral paper presenter Annual conference of Indigenous Plant Use Forum (IPUF) held from 7-10 July, 2008 in Graaff Reinet, South Africa
- 13. Attended in the 1st International Exhibition of Research and education" held on 7-11 July, Tehran, Iran
- 14. Participated as a oral paper presenter in the 34th Annual conference of Bangladesh Chemical Society, 19-20 December, 2011, Jahangirnagar University, Saver, Dhaka, Bangladesh
- 15. Participated in the 22nd Bangladesh Science Conference held on 27-29 September December, 2012 organized by the BCSIR, Dhaka, Bangladesh
- Participated as a invited Speaker in the 12th National Seminar on Plant Materials as a Source of Antidiabetic Agents organized by Asian Network of Research on Antidiabetic Plants (ANRAP), July 22, 2017 Dhaka, Bangladesh.

MEMBERSHIP OF SOCIETIES

Life Member	Bangladesh Chemical Society, Dhaka, Bangladesh
Member	ANRAP, Bangladesh
Life Member	BASS
Member	BAB Assessor Forum

OTHER ACTIVITIES

1. Academic

- a. Senate Member, Chattogram University (2019-)
- b. Academic Council Member, Chattogram University of Engineering & Technology (2019-)
- c) Academic Council Member, Noakhali Science & Technology University (2019-)
- c. Chairman, BCSIR School Managing Committee, Chattogram (2018-)
- d. Ex Member, Chemistry Sectional Commitee, Standard Formulation Committee, BSTI (2012-2015)

2. External Examiner:

- a. Dept of Chemistry, University of Dhaka
- b. Dept. of Chemistry, Jagannath University
- c. Dept. of Chemistry, BUET
- d. Dept. of Forestry, Khulna University
- e. Bangladesh University of Health Sciences, Dhaka

3. Financial

- 1. Ex. Memember, TEC, Bangladesh Police, Rajarbag, Dhaka
- 2. Ex. Member, TEC, BCIC, Dhaka
- 3. Ex. Member, Technical Evaluation Sub Committee, BCSIR
- 4. Ex. Member Secretary, Tender Evaluation Committee, BCSIR
- 5. Ex. Member, TEC, Department of Narcotics Control. Dhaka

SOCIAL ACTIVITIES

General Secretary	BCSIR Scientist Association, Dhaka, Bangladesh
General Secretary	BCSIR Scientist Association, Dhaka, Bangladesh
President	BCSIR Scientist Association, Dhaka, Bangladesh
President	BCSIR Residential Welfare committee, Dhaka
President	BCSIR Scientist Association, Dhaka, Bangladesh
Member	Dhaka University Chemistry Alumni Association
	General Secretary President President President

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