

CURRICULUM VITAE

Muhammad Abdullah Al Mansur

Senior Scientific Officer

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ACADEMIC CREDENTIALS

Ph.D (Continued) in Plant Chemistry, Department of Chemistry, **Jahangirnagar University**, Savar, Dhaka-1342, Bangladesh.

M.Pharm. in Pharmaceutical Technology, Department of Pharmacy, **University of Dhaka**, Dhaka-1000, Bangladesh.

B.Pharm. (Hon's) in Pharmacy, Department of Pharmacy, **University of Dhaka**, Dhaka-1000, Bangladesh.

CAREER

2011- present: Senior Scientific officer, Analytical Research Division Bangladesh Council for Scientific and Industrial Research (**BCSIR**) Laboratories Dhaka.

2006 - 2011: Scientific officer, Analytical Research Division Bangladesh Council for Scientific and Industrial Research (**BCSIR**) Laboratories Dhaka.

2003 - 2006: As an Analytical Chemist in ESKAYEF PHARMACEUTICALS LIMITED (**SK+F**).

1. Mahfuza.S. Sultana, M. Shahidul Islam, Ratnajit Saha and **Al-Mansur M.A.** : Impact of the Effluents of Textile Dyeing Industries on the Surface Water Quality Inside D.N.D Embankment, Narayanganj. Bangladesh Journal of Scientific and Industrial Research. 44(1), 65-80, 2009.
2. Romy Afroza, Quamrul H. Mazumder, Chowdhury S. Jahan, M.A.I. Kazi, M.A. Ahsan and **Al-Mansur M.A.** : Hydrochemistry and Origin Of Salinity in Groundwater in parts Of Lower Tista Floodplain, Northwest Bangladesh. Journal Geological society of India.. Vol. 74, August 2009, pp.223-232.
3. M. Mahboob Ali Siddiqi, Mohammad Delowar Hossain, **Al-Mansur M.A.**, M. H. Sohrab, Choudhury M. Hasan and A.M. Sarwaruddin Chowdhury.: Antimicrobial and Cytotoxic Activities of the Crude Extracts of *Spilanthes acmella*. Dhaka Univ. J. Sci. 57 (2):215-216, 2009 (July).
4. Mohammad Delowar Hossain, M. Mahboob Ali Siddiqi, **Al-Mansur M.A.**, M. H. Sohrab, A.M. Sarwaruddin Chowdhury and. Choudhury M. Hasan.: Antimicrobial and Cytotoxic Activities of the Crude Extracts of *Acacia auriculiformis*. Dhaka Univ. J. Sci. 57 (2):255-256, 2009 (July).
5. Tareq FS, Sohrab MH, Chowdhury AMSU, Afroz F, **Mansur MA**, Hasan CM: Phyto-chemical Studies of the Leaves of *Xylia dolabriformis*. Dhaka University Journal of Pharmaceutical Sciences. 8 (2): 171-172, 2009.
6. M. Saifur Rahman, M. Mahboob Ali Siddiqi, **Al-Mansur M.A.**, M. H. Sohrab, A.M. Sarwaruddin Chowdhury and Choudhury M. Hasan.: Chemical and Biological Investigations of *Stereospermum chelonoides*. Dhaka Univ. J. Sci. 58 (2): 195-197, 2010 (July).
7. Humayun Kabir, M. Mahboob Ali Siddiqi, **Al-Mansur M.A.**, M. H. Sohrab, A.M. Sarwaruddin Chowdhury and Choudhury M. Hasan.: Phytochemical and Biological Investigations of *Casuarina equisetifolia*. Dhaka Univ. J. Sci. 58 (2): 191-193, 2010 (July).
8. Mohammad Habibullah, **Al-Mansur M.A.**, M. Mahboob Ali Siddiqi, A.M. Sarwaruddin Chowdhury, M. H. Sohrab and Choudhury M. Hasan. : Scopoletin Isolated from Stem bark of *Bursera serrata Wall.* With Antimicrobial and cytotoxic Activities of the Crude Extract. Dhaka Univ. J. Sci. 58 (2): 287-289, 2010 (July).
9. Mostafa Md. Faisal Kabir, M. Mahboob Ali Siddiqi, **Al-Mansur M.A.**, M. H. Sohrab, Choudhury M. Hasan and A.M. Sarwaruddin Chowdhury. : Antimicrobial and Cytotoxic Activities of the Crude Extracts of *Abroma augusta*. Dhaka Univ. J. Sci. 58 (2): 199-200, 2010 (December).

10. Shahab Uddin Ahmed, **Al-Mansur M.A.**, Yunus Ahmed, M. H. Sohrab, A.M. Sarwaruddin Chowdhury and Choudhury M. Hasan.: Phytochemical and Biological Investigations of *Carica papaya*. Dhaka Univ. J. Sci. 58 (2): 265-268, 2010 (July).
11. Momotaz Begum, **Al-Mansur M.A.**, Yunus Ahmed, M. H. Sohrab, Choudhury M. Hasan and A.M. Sarwaruddin Chowdhury.: Chemical and Biological Investigations on the Leaves of *Jatropha gossypifolia*. Dhaka Univ. J. Sci. 58 (2): 239-242, 2010 (July).
12. Alam F, Haque M, Sohrab MH, **Mansur MA**, Hasan CM and Ahmed N: Antimicrobial and Cytotoxic Activity from *Lasia spinosa* and Isolated Lignan. Latin American Journal of Pharmacy. 30 (3) : 550-3 (2011).
13. M. Khalid Ahammed Khan, Mahmood Alam, Muhammad Qumrul Hassan, M. Shahidul Islam and **Al-Mansur M.A.** : Environmental pollution around Dhaka EPZ and its impact on surface and groundwater. Bangladesh Journal of Scientific and Industrial Research. 46(2), 153-162, 2011.
14. Mahfuza.S. Sultana, Shahrin Rahman, M. Shahidul Islam and **Al-Mansur M.A.** : Study of surface water and soil quality affected by heavy metals of pabna sadar. Bangladesh Journal of Scientific and Industrial Research. 46(1), 133-140, 2011.
15. Hemayet Hossain, Md. Ruhul amin **Abdullah Al-Mansur**, and Md. Akbor Hossain : Nitric oxide scavenging activity, Total flavonoid and Tannin Content of the leaves of *Cerbera odollam* Gaertn. Journal of Dhaka International University, Vol. 4, No.1, 93-99, June 2012.
16. Hemayet Hossain, A.F.M Shahid-Ud-Daula, Kamrul Hasan, **Abdullah Al-Mansur** and Muhammad Mahbulul Haq : Anti-inflammatory activity, total flavonoids and tannins content from the ethanolic extract of *Spilanthes paniculata* leaf growing in Bangladesh. International Journal of Pharmacy. 2012, 2(2) : 271-277.
17. Md. Musfizur Hassan, A.F.M Shahid-Ud-Daula, Ismet Ara Jahan, Ishrat Nimmi, Tarek Adnan, **Abdullah Al-Mansur** and Hemayet Hossain : Anti-inflammatory Activity, Total Flavonoids and Tannins Content from the Ethanolic Extract of *Ageratum conyzoides* Linn. Leaf. *Int.J.Pharm.Phytopharmacol.Res.* 2012, 1(5): 234-241.
18. Nowshin N. Rhumzum, M. H. Sohrab, **Al-Mansur M.A.**, M S Rahman, Choudhury M. Hasan, Mohammad A. Rashid. : Secondary metabolites from *Jatropha podagrica* Hook. - **accepted** (PS-1711, vol.23/1, 29-37, 2012) in Journal of physical Science.
19. Shamim Ahmed, A. Rahman, T. Muslim, M. H. Sohrab, Md. Ahedul Akbor, Shajahan Siraj, Nasim Sultana and **M. A. Al-Mansur**: Antimicrobial, Cytotoxic and Phytochemical Activities of *Spilanthes acmella*. Bangladesh Journal of Scientific and Industrial Research, 47 (4), 737-440, 2012.

20. Hemayet Hossain, **Abdullah Al-Mansur**, Altaf Hossain, Md. Sariful Islam Howlader, Shubhra Kanti Dey, Arpone Hira and Arif Ahmed: In – vitro Antioxidant Activities and Total Phenolic Content of the Ethanolic leaf Extract of *Croton Spaersiflorus* Growing in Bangladesh. International Journal of Advances Drug Delivery, Volume 2, Number 1-2, January-December 2012, pp.1-9.
21. Mst. Taslima Khatun, M. Mahboob Ali Siddiqi, **Al-Mansur M.A.**, M. H. Sohrab, A.F.M. Mustafizur Rahman, Choudhury M. Hasan and A.M. Sarwaruddin Chowdhury.: New Diarylheptanoid from *Garuga pinnata* Roxb. Dhaka Univ. J. Sci. 61 (2): 131-134, 2013 (July).
22. Taslima Akter, M. Mahboob Ali Siddiqi, **Al-Mansur M.A.**, M. H. Sohrab, A.M. Sarwaruddin Chowdhury and Choudhury M. Hasan.: Four Compounds Isolated from *Polygonum lanatum* Roxb. Dhaka Univ. J. Sci. 61 (2): 213-214, 2013 (July).
23. Akhtaruzzaman Chowdhury, Md. Ashraf Alam, Ridwan Bin Rashid, **Muhammad Abdullah Al-Mansur**, Mohammad S. Rahman and Mohammad A. Rashid : Steroids and Triterpenoids from *Corypha taliera* Roxb: A Critically Endangered Palm Species of Bangladesh. Research Journal of Medicinal Plant 7 (2): 125-129, 2013.
24. Tasnuva Sharmin, Farhana Islam, Mohammad A. Kaisar **Md. Abdullah Al-Mansur**, Md. Al Amin Sikder and Mohammad A. Rashid: Chemical and Biological Investigations of *Albizia chinensis* (Osbeck.) Merr. Accepted-Journal of Physical Science (09-June-2013).
25. Iftekhar Ahmed, Ridwan Islam, Md. Al Amin Sikder, Mohammad Rashedul Haque, **Md. Abdullah Al-Mansur** and Mohammad A. Rashid.: Alkaloid, Sterol and Triterpenoids from *Glycosmis pentaphylla* (Retz.) DC. Dhaka Univ. J. Pharm. Sci. 13 (2) : 115-118, 2014 (December).
26. Shahin Aziz, Koushik Saha, Nasim Sultana, Shamim Ahmed and **Abdullah Al-Mansur**. : Phytochemical and Elemental Screening on Leaves and Flowers of *Catharanthus roseus*: An Important Medicinal Plant of Bangladesh. Int. J. Chem. Sci. : 12 (4), 2014, 1328-1336.
27. Miraza A. T. M. Tanvir Rahman, A.H.M. Saadat, Md. Safiqul Islam, **Md. Abdullah Al-Mansur** and Shamim Ahmed. : Ground water characterization and selection of suitable water type for irrigation in the western region of Bangladesh. Applied Water Science, ISSN 2190-5487, DOI 10.1007/s13201-014-0239-x, published online: 13 November 2014, Springer.
28. Ridwan Islam, Iftekhar Ahmed, Al Amin Sikder, Mohammad Rashedul Haque, **Abdullah Al-Mansur**, Mansoor Ahmed, Aunawar Rasheed and Mohammad A. Rashid. : Chemical Investigation of *Mesua nagassarium* (Burm. f.) Kosterm. Journal of Basic & Applied Sciences, 2014, 10, 124-128.

29. Budrun Neher, Md. Abdul Gafur, **Muhammad Abdullah Al-Mansur**, Md. Mahbubur Rahman Bhuiyan, Md. Rakibul Qudir and Farid Ahmed. : Investigation of the Surface Morphology and Structural Characterization of Palm Fiber Reinforced Acrylonitrile Butadiene Styrene (PF-ABS) Composites. *Materials Sciences and Applications*, 2014, 5, 378-386.
30. Hemayet Hossain, **Abdullah Al-Mansur**, Sanjida Akter, Umme Sara, Md. Ranzu Ahmed and Abu Anis Jahangir. : Evaluation of Anti-inflammatory activity and Total Tannin content from the leaves of *Bacopa monnieri* (Linn.). *IJPSR*, 2014, Vol. 5 (4) : 1246-1252.
31. Shahin Aziz, Koushik Saha, Nasim Sultana, Nazim Uddin Ahmed, Ruhul Amin, **Abdullah Al-Mansur**: Comparative Studies On Proximate Analysis And Amino Acid Composition of Leaf And Flower Proteins Conducted On Medicinal Plant, *Catharanthus Roseus*, Available In Bangladesh. *World Journal of Pharmaceutical Research*, Volume 4, Issue 11, 296-309, Accepted on 26 Oct. 2015. (**SJIF Impact Factor 5.990**).
32. Faiza Tahia, Md. Al Amin Sikder, Mohammad Rashedul Haque, Jamil A. Shilpi, Khalijah Awang, **Md. Abdullah Al-Mansur** and Mohammad A. Rashid: Alkaloids, Coumarin and Cinnamic Acid Derivative from *Murraya Koenigii* (Linn.) Spreng. *Dhaka Univ. J. Pharm. Sci.* 14(1): 29-33, 2015 (June).
33. **Muhammad Abdullah Al-Mansur**, Koushik Saha, Nasim Sultana, M. Mahboob Ali Siddiqi : Comparative Studies on Cytotoxic, Antibacterial and Antioxidant Activity among Different Extracts of Seed and Stem of *Anethum sowa* available in Bangladesh. *World Journal of Pharmaceutical Research*, Volume 5, Issue 4, 2016.
34. Farhana Ahmed, Mohammad Sharifur Rahman, **Muhammad Abdullah Al-Mansur** and Mohammad A. Rashid: Triterpenoids and Steroid from the Leaves of *Callistemon citrinus* (Curtis.). *Dhaka Univ. J. Pharm. Sci.* 15(1): 1-5, 2016 (June).
35. Nargis Sultana Chowdhury, Md Sohel Rana, Md Hossain Sohrab, Choudhury Mahmood Hasan, **Muhammad Abdullah Al-Mansur** and Nazia Hoque : Bioactive metabolites from two aquatic plants of Bangladesh and their associated endophytic fungi. *J Pharma Care Health Sys* 2016, 3:2 (Suppl), July 11-13, 2016 Kuala Lumpur, Malaysia, ISSN: 2376-0419 JPCHS, an open access journal, Volume 3, Issue 2 (Suppl), Page 90.
36. Md. Mubarak Hossain, Faiza Tahia, **Md. Abdullah Al-Mansur** and Mohammad A. Rashid: 7-Methoxy-8-Prenylated Coumarins from *Murraya koenigii* (Linn.) Spreng. *Dhaka Univ. J. Pharm. Sci.* 15(2): 155-159, 2016 (December).

37. Adeeba Anjum, Md. Zakir Sultan, Md. Al Amin Sikder, Choudhury M. Hasan, **Muhammad Abdullah Al-Mansur** and Mohammad A. Rashid: Bioactive Steroid and Triterpenoids from *Bridelia stipularis* (L) Blume. Dhaka Univ. J. Pharm. Sci. 15(2): 221-225, 2016 (December).
38. Syed Md Akram Hussain, Md Hossain Sohrab, Abu Kholdun Al-Mahmood, Md Shuayb, **Muhammad Abdullah Al-Mansur** and Choudhury Mahmood Hasan : Clinical use of *Carica papaya* leaf extract in chemotherapy induced thrombocytopaenia. www.ijcem.com /ISSN:1940-5901/IJCEM0021549, Int J Clin Exp Med 2017;10(2):3752-3756.
39. Zihan Rahman Khan, Fatema Moni, Suriya Sharmin, **Muhammad Abdullah Al-Mansur**, Abdul Gafur, Obaidur Rahman and Farhana Afroz : Isolation of bulk amount of Piperine as Active Pharmaceutical Ingredient (API) from Black Pepper and White Pepper (*Piper nigrum* L.). 1st GCSTMR Congress, 4-5 February 2017, Dhaka, Bangladesh: Abstracts, page: 95-96.
40. **Muhammad Abdullah Al-Mansur**, M. Mahboob Ali Siddiqi, Md. Ahedul Akbor and Koushik Saha : Phytochemical Screening and GC-MS Chemical Profiling of Ethyl Acetate Extract of Seed and Stem of *Anethum sowa* Linn. Dhaka Univ. J. Pharm. Sci. 16(2): 187-194, 2017 (December).
41. Mohammed Ibrahim, Md. Ruhul Kuddus, Md. Aslam Hossain, **Muhammad Abdullah Al-Mansur** and Mohammad A. Rashid : Preliminary Phytochemical Screenings and Pharmacological Activities of Three Medicinal Plants of Bangladesh. Dhaka Univ. J. Pharm. Sci. 16(2): 195-203, 2017 (December).
42. Akhtaruzzaman Chowdhury, Md. Ashrafal Alam, Md. Shafiullah Shajib, **Muhammad Abdullah Al-Mansur** and Mohammad A. Rashid : Chemical Constituents and Protection of Biodiversity of *Corypha taliera* Roxb., a Critically Endangered Plant of Bangladesh. *Bangladesh Pharmaceutical Journal* 20(2) : 213-220, 2017.
43. Zihan Rahman Khan, Fatema Moni, Suriya Sharmin, **Muhammad Abdullah Al-Mansur**, Abdul Gafur, Obaidur Rahman and Farhana Afroz : Isolation of Bulk Amount of Piperine as Active Pharmaceutical Ingredient (API) from Black Pepper and White Pepper (*Piper nigrum* L.). *Pharmacology & Pharmacy*, 2017, 8, 253-262 <http://www.scirp.org/journal/pp> ISSN Online: 2157-9431 ISSN Print: 2157-9423, DOI: 10.4236/pp.2017.87018 July 31, 2017.
44. Shammi Akhter, Satyajit Roy Rony, **Muhammad Abdullah Al-Mansur**, Choudhury Mahmood Hasan, Khondaker Miraz Rahman and Md Hossain Sohrab : Lawsonol, a new bioactive naphthoquinone dimer from the leaves of *Lawsonia alba*. DOI 10.1007/s10600-018-2251-0. *Chemistry of Natural Compounds*, Vol.54, No. 1, January, 2018.

45. Anath Chandra Roy, Md. Eyazul Haque, Shakila Rahman, **Muhammad Abdullah Al-Mansur** : Piperine and isoflavan-4-one from the stems of *Piper chaba* Hunter and their *in vitro* antimicrobial activities. *Journal of Pharmacognosy and Phytochemistry* 2018; 7(1): 2653-2662.
46. **Muhammad Abdullah Al-Mansur**, M. Mahboob Ali Siddiqi and Koushik Saha : Analgesic, Antidiarrheal and Antidepressant Activities of *Anethum sowa* Linn. in Swiss-Albino Mice Model . *Bangladesh Pharmaceutical Journal* 21(1): 1-6, 2018.
47. **Muhammad Abdullah Al-Mansur** , M. Mahboob Ali Siddiqi and Koushik Saha : Thrombolytic, Membrane Stabilizing and Hypoglycemic Activities of *Anethum sowa* Linn. *Dhaka Univ. J. Pharm. Sco.* 17(2): 237-241, 2018 (December).
48. Md. Moshfekus Saleh-e-Ina, Ayan Roya, **Muhammad Abdullah Al-Mansur** , Choudhury Mahmood Hasan , Md. Matiur Rahim , Nasim Sultana , Shamim Ahmed , Md. Rabiul Islam , Johannes van Staden : Isolation and in silico prediction of potential drug-like compounds from *Anethum sowa* L. root extracts targeted towards cancer therapy. *Computational Biology and Chemistry*, Volume 78, February 2019, Pages 242-259.
49. Mahfuza Afroz Soma, mohammad firoz khan, faiza tahia, **Md Abdullah Al-Mansur** ,Mohammad Sharifur Rahman and Mohammad Abdur Rashid : Cyclooxygenase-2 Inhibitory Compounds from the Leaves of *Glycosmis pentaphylla* (Retz.) A. DC.: Chemical and in silico Studies. *Asian Journal of Chemistry*; Vol. 31, No. 6 (2019), 1260-1264.
50. Mohammad Anwarul Karim, md khalid hossain, **Md Abdullah Al-Mansur**, Md Shafiullah Shajib and Mohammad A Rashid : isolation of zizyberenalic acid and biological studies of *ziziphus mauritiana* lam. growing in bangladesh. *Bangladesh J. Bot.* 48(1): 163-168, 2019 (March).
51. Faiza Tahia, md al amin sikder, **Md Abdullah Al-Mansur** and Mohammad A Rashid : bioactivities of *adina cordifolia* (roxb.) hook. f. - growing in bangladesh. *Bangladesh J. Bot.* 48(2): 307-313, 2019 (June).
52. Farina Aziz, **Muhammad Abdullah Al-Mansur** , Choudhury Mahmood Hasan , Monira Ahsan : Phytochemical Investigation and in vitro Bioactivity Analysis of *Lindenbergia Indica*. *Br J Med Health Res.* 2019;6(08) ISSN: 2394-2967.
53. Islam S, Shajib MS, Rashid RB, Khan MF, **Al-Mansur MA**, Datta BK, Rashid MA. : Antinociceptive activities of *Artocarpus lacucha* Buch-ham (Moraceae) and its isolated phenolic compound, catechin, in mice. *BMC Complement Altern Med.* 2019 Aug 14;19(1):214. doi: 10.1186/s12906-019-2565-x.

PATENT

Hasan CM, Sohrab MH, **Al-Mansur MA:** Process for the Preparation of Platelet Boost Capsules from a Medicinal Plant. Patent No. 243/12/764, Dated: 22.02.2015. The Department of Patents, Designs and Trademarks, Ministry of Industries, Government of the People's Republic of Bangladesh.

ANOTHER DISTINCTION

I am a registered pharmacist having **Reg. no. A-2401** by Pharmacy Council of Bangladesh.

PROJECT WORK DURING ACADEMIC PERIOD

I completed a project on Comparative quantitative study of marketed Vitamin-A soft capsules by High Performance Liquid Chromatography (**HPLC**).

PROFESSIONAL TRAININGS

1. Participated in the training course on '**Intensive course in basic ENGLISH**' held at University of Dhaka, Dhaka-1000, Bangladesh, from 11 September -21 November, 1998.
2. Participated in the training course On "**Pharmaceutical Management, Marketing And Regulating Affairs**" held at the faculty of Life Science, University of Development Alternative (UODA), Dhanmondi, Dhaka, from 14-20 December, 2002.
3. Participated in the training course On "**Regulatory Compliance And Process & Quality Documentation**" conducted by Asia Pacific Consultant Pty Ltd., Australia, held at Dhaka, from 7-11 June, 2006.
4. Participated in the training course On **Preparative HPLC** held at BCSIR, Dhaka, Bangladesh, from 08-21, April, 2007.
5. Participated in the training Programme of NITUB (Network of Instrument Technical personal and User scientists of Bangladesh '**On the use and maintenance of Gas Chromatograph**' held at University of Dhaka, Dhaka-1000, Bangladesh, from 29 November 2008-04 December, 2008).

6. Completed the online training on **‘Laboratory Internal Calibration’** to learn better management and implementation an ISO/IEC 17025-conformant quality system, conducted by Canadian Association for Environmental Analytical Laboratories (CAEAL), from 21 April to 2 May, 2008.
7. Completed the online training on **‘Explain Uncertainty to my Clients’** to learn better management and implementation an ISO/IEC 17025-conformant quality system, conducted by Canadian Association for Environmental Analytical Laboratories (CAEAL), from 25 March to 4 April, 2008.
8. Completed the online training on **‘Investigation of Non-Conformances Through Root Cause Analysis’** to learn better management and implementation an ISO/IEC 17025-conformant quality system, conducted by Canadian Association for Environmental Analytical Laboratories (CAEAL), from 25 February to 14 March, 2008.
9. Completed the online training on **‘Care and Feeding of a Laboratory quality system’** to learn better management and implementation an ISO/IEC 17025-conformant quality system, conducted by Canadian Association for Environmental Analytical Laboratories (CAEAL), from 28 January to 22 February, 2008.
10. Participated in the training Workshop on **ISO 9001**, jointly organized by DCCI Research Cell and ITC, Geneva, held on 26 December, 2009 Dhaka.
11. Participated in the training course on **“Laboratory Quality system, Management and Internal Audit” held at Jaipur, India**, from 05-08 January, 2010.
12. Participated in the training course on **“Operating system and Maintenance of High Performance Liquid Chromatography (HPLC)”** held at BCSIR, Dhaka, Bangladesh from 21-23 September, 2010.
13. Participated in the training course on **“FT-IR Spectrophotometer”** held at BCSIR, Dhaka, Bangladesh from 17-28 April, 2011.
14. Participated in the training course on **“Inductively Coupled Plasma Mass Spectrometry (ICP-MS)”** held at BCSIR, Dhaka, Bangladesh from 24-26 July, 2011.
15. Participated in the training course on **“Ion Chromatograph (IC)”** held at BCSIR, Dhaka, Bangladesh from 29 March 2011 – 11 April, 2011.
16. Participated in the training course on **“Operation system and maintenance of FT-Mid Infrared Spectroscopy (FT-MIR)”** held at BCSIR, Dhaka, Bangladesh from 11 -12 December, 2012.
17. Successfully completed in the training course on **“Basic Ion Chromatography Training” held at Bangkok, 10110, Thailand**, from 06-08 February, 2013.

18. Successfully completed in the training course on “**Introduction to AVANCE 1D/2D NMR Spectrometer operation Training**” held at **Fallanden, Switzerland**, from 22-26 September, 2014.
19. Successfully completed in the training course on “**Public Administration Training**” **Savar, Dhaka** from 12-22 July, 2015, under **Ministry of Public Administration, Government of the People's Republic of Bangladesh**.
20. Successfully completed in the training course on “**FT-Raman Spectroscopy**” held at BCSIR Laboratories, Dhaka, from 21-23 June, 2016.
21. Successfully completed in the training course on “**Wavelength Dispersive X-ray Fluorescence (WDXRF)**” held at IMMM, BCSIR, Joypurhat, from 14-16 March, 2017.
22. Successfully completed in the training course on “**FOI Analytical Skills Development Course 2017**” from **21 August – 01 September 2017** on **GC and GC-MS** at **Umea, Sweden**.
23. Successfully completed in the training course on “**Structure Based Drug Design**” held at BCSIR Laboratories, Chittagong, from 18-20 February, 2018.
24. Successfully completed in the training course on “**LCMS-MS**” held at BCSIR Central Lab from 12-16 May, 2019.

ROUTINE WORK IN BCSIR

1. Analysis of anions by **Ion Chromatography**, Metal analysis by **ICP-MS**, Chloride determination by titrimetric method, **P^H AND TDS** determination, **DO, BOD & COD** determination, Phosphate analysis by **UV-visible** spectrophotometer, Operate & Maintenance of **LC-MS**, Operate & Maintenance of **400 MHz NMR** spectrophotometer, Operation of nitrogen production plant, Operate & Maintenance of **HPLC & FT-IR**, Operate & Maintenance of **GC & GC-MS**.
2. Collection of plants sample, drying the collected sample, Extraction of powdered Sample Isolation and purification of constituents of the active fractions by Chromatographic Techniques, Characterization of the active constituents by Spectroscopic techniques (e.g. UV, IR, NMR, HPLC, GC, GC-MS etc.).
3. All tasks related to Quality management system (Quality Manual, Quality System procedures, Internal audit and management review, Internal training, Corrective Action, preventive action, complaints etc) to maintain the laboratory standard ISO/IEC 17025:2005.

RESEARCH EXPERIENCE

I have been doing research on various field of Pharmaceutical Chemistry more than 10 years. My primary areas of research interest are isolation, characterization and structure elucidation of Natural Products compounds from various species of medicinal plants using chromatographic techniques and chemical and spectroscopic studies. I am strongly involved to develop analytical method using HPLC, LC-MS, GC-MS, techniques for standardizing extracts.

I have accumulated considerable experience in

- Isolation and purification of any type of organic compounds using various chromatographic methods such as Thin Layer Chromatography (TLC), Vacuum Liquid Chromatography (VLC), Flash Chromatography, Column Chromatography (CC), Preparative Thin Layer Chromatography (PTLC), High Performance Liquid Chromatography (HPLC), etc.
- Identification and structure elucidation of any type of organic compound by chemical methods as well as using 1D and 2D NMR techniques combined with other spectral evidence such as GC, GC-MS, IR, UV-Visible.
- Capable of determination of antimicrobial, elastase, tyrosinase inhibitions and DPPH activities of plant extracts as well as pure compounds.
- Experience in good communication and management skills.

INSTRUMENTAL EXPERTISE

I have been working on the following spectroscopic and chromatographic instruments for my daily routine research work. I am able to maintain these systems

- 1) UV/Visible Spectrophotometer, 2) FT-IR spectrometer, 3) 400 MHz FT-NMR Spectrometer (Bruker AMX400, DPX 400 and JEOL, JNM-LA400), 4) High Performance Liquid Chromatograph (HPLC, Shimadzu), 5) Liquid Chromatograph-Mass Spectrometer (LC-MS, Waters Micromass, LCT Premier, KD146, TOF Mass) etc. 6) Gas Chromatography (GC, Shimadzu), 7) Gas Chromatograph- Mass Spectrometer (GC-MS, Shimadzu).

RESEARCH PROJECTS UNDERTAKEN

1. Isolation of Active Principles from Medicinal Plants of Bangladesh.
2. Isolation and characterization of Bioactive Metabolites from Entophytic Fungi.
3. Functional cosmetics ingredients isolation and characterization from some selected indigenous Medicinal Plants.
4. Fingerprint analysis of some selected Bangladeshi medicinal plants using TLC, GC, GC-MS, HPLC, NMR and LC-MS profiling.

SUPERVISION/CO-SUPERVISION

I am guiding M.S students and my junior colleagues for their research works.