

Curriculum Vitae of

Md. Hemayet Hossain

Principal Scientific Officer

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Objective

I aspire to develop myself into a competent and internationally recognized researcher capable of conducting world-class scientific research in my home country. To achieve this goal, I require advanced research training and hands-on experience in a well-equipped laboratory within a scientifically advanced country. Such training would enable me to acquire cutting-edge knowledge, technical expertise, and exposure to modern research methodologies, which I intend to apply in strengthening research capacity and promoting scientific innovation in my country.

Academic Credentials

Master of Pharmacy (M. Pharm.)

University of Development Alternative, Dhaka, Bangladesh

1st Class 2nd Position (Obtained CGPA-3.67), 2010

Duration- 01 Year (Medium of Instruction: English)

Bachelor of Pharmacy (B. Pharm.)

Khulna University, Khulna, Bangladesh

1st Class 2nd with Distinction (Obtained Marks-77%), 2004

Duration- 4 Years (Medium of Instruction: English)

Higher Secondary Certificate (H.S.C.), Science group

Govt. M. M. city College, Khulna

1st Division (Obtained Marks-77.6%), 1998

Duration- 2 Years (Medium of Instruction: Bengali)

Secondary School Certificate (S.S.C.), Science group

Khulna Zilla School, Khulna

1st Division (Obtained Marks-78.8%), 1996

Duration- 10 Years (Medium of Instruction: Bengali)

Career

2019-Present: **Principal Scientific Officer**, Chemical Research Division, Bangladesh Council for Scientific and Industrial Research (BCSIR) Laboratories, Dhaka.

2011-2019: **Senior Scientific Officer**, Chemical Research Division, Bangladesh Council for Scientific and Industrial Research (BCSIR) Laboratories, Dhaka.

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

Teaching Experiences	2006-2007: Teaching as an Adjunct Faculty Member in the Department of Pharmacy, Dhaka International University, Bangladesh.
Corporate Job Experiences	Major Responsibilities: • Conduct classes on Pharmaceutical Microbiology, Pharmacology, Medicinal Chemistry, Bimolecular Pharmacy, Pharmaceutical Analysis and Quality Control. • To supervise the thesis work of graduate research students • To act as student advisor 01. Production Officer (June, 2004 to October, 2004) The Opso Saline Ltd., Barisal, Bangladesh 02. Production Officer (October, 2004 to June, 2006) Product Development Department The Acme Laboratories Ltd., Dhaka, Bangladesh Major Responsibilities: ➤ To supervise various phases of production with compliance of cGMP ➤ To keep records & documents related to production and ISO standards ➤ To plan date wise monthly production schedule ➤ To prepare annual appraisal of the subordinates and staffs of the department
Research Expertise and Analytical Capabilities	• Bioassay-Guided Isolation and Characterization of Bioactive Compounds Isolation, purification, and structural characterization of biologically active principles and secondary metabolites from Bangladeshi medicinal plants using chromatographic and spectroscopic techniques. • Preparative Chromatographic Separation Isolation and purification of polar bioactive compounds from medicinal plant extracts using Preparative High-Performance Liquid Chromatography (Prep-HPLC). • Phytochemical Fingerprinting and Metabolite Profiling Qualitative and quantitative fingerprint analysis of medicinal plants using Thin Layer Chromatography (TLC), Gas Chromatography (GC), Gas Chromatography–Mass Spectrometry (GC–MS), High-Performance Liquid Chromatography (HPLC), and Liquid Chromatography–Mass Spectrometry (LC–MS). • Antioxidant Activity Evaluation Assessment of in vitro and in vivo antioxidant potential of medicinal plants, vegetables, fruits, food products, and natural resources of Bangladesh using twelve validated antioxidant assay methods. • Pharmacological and Toxicological Investigations Evaluation of biological activities of plant extracts and isolated compounds, including: Anti-inflammatory activity, Analgesic activity, Antipyretic activity, Antidiabetic activity, Antimicrobial activity, Antidiarrheal activity, Central Nervous System (CNS) activity Hepatoprotective, Acute toxicity studies etc. • Isolation and Quantification of Antioxidant Biomarkers Development of RP-HPLC-DAD methods for the isolation, identification, and quantification of bioactive polyphenolic compounds from medicinal plants, including gallic acid, catechin, epicatechin, rutin hydrate, quercetin, ellagic acid, caffeic acid, kaempferol, coumarin, and related phytochemical markers. • Pharmaceutical Method Development Analytical method development, validation, and bioequivalence assessment of pharmaceutical dosage forms in compliance with regulatory guidelines. • Standardization and Monograph Development Development of quality standards, specifications, and monographs for alternative raw materials and finished products, with special emphasis on herbal raw materials and herbal formulations.

Natural Product Research and Quality Evaluation

Standardization, quality control, and chemical characterization of medicinal plants, herbal products, nutraceuticals, and functional foods through modern analytical techniques.

Research Experience

I have been doing Research and Development (R&D) works on various fields of Pharmaceutical Chemistry and Pharmacology more than seven (7) years.

- My primary areas on 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.
- My other areas on research interest are chemical (antioxidant) and pharmacological activities of different extracts and pure compounds of medicinal plants using 12 methods on In-vivo and In-vitro antioxidant activities and 11 parameters on pharmacological activities.

I have accumulated considerable experience in -

- Isolation & purification of any type of organic compounds using various chromatographic methods such as Thin Layer Chromatography (TLC), Vacuum Liquid Chromatography (VLC), Column Chromatography, Column Chromatography(CC), Preparative Thin Layer Chromatography (PTLC), High Performance Liquid Chromatography (HPLC) etc.
- Identification & structure elucidation of any type of organic compounds by chemical method as well as using 1D and 2D NMR techniques combined with other spectral evidence such as GC, GC-MS, IR, UV-Visible.
- Chemical (antioxidant) and pharmacological activities of different extracts as well as pure compounds of medicinal plants.
- Standardization and development of Monograph for Alternative raw and finished products (mainly herbal raw and finished products).
- Experience in good communication & management skills.

Routine Work in BCSIR

- Operate & Maintenance of HPLC & FT-IR, Operate & Maintenance of GC & GC-MS.
- Collection of plant sample, drying the collected sample, Extraction of powdered sample Isolation and purification of constituents of the active fraction by Chromatographic Techniques, Characterization of the active constituents by spectroscopic technique (e.g. UV, IR, HPLC, GC, GC-MS etc.).
- All tasks related to quality management system and method validation (Quality Manual, Quality System Procedures, Internal audit and management review, Internal Training, Corrective Action, Preventive Action, Complaints etc.) to maintain the laboratory standard.

Instrumental Expertise

I have been working on the following spectroscopic & chromatographic instruments for R&D and routine research works. I am able to maintain these systems:

- UV/Visible Spectrophotometer
- FT-IR Spectrometer
- High Performance Liquid Chromatography (both preparative and analytical HPLC, Waters, Dionix and Shimadzu)
- Liquid Chromatograph-Mass Spectrometer/ Mass Spectrometer (LC-MS/MS)
- Gas Chromatography (GC, Shimadzu)
- Gas Chromatograph- Mass Spectrometer (GC-MS, Shimadzu)
- AAS (Atomic Absorption Spectrophotometer, Shimadzu)
- Amino Acid Analyzer

Thesis Work **Master of Pharmacy (M. Pharm.)**
Title: Pharmacological Evaluation and Bioactivity Guided Isolation, Purification & Characterization of *Spilanthes paniculata* Linn.

Bachelor of Pharmacy (B. Pharm.) [Project thesis]
Title: Phytochemical and Pharmacological Evaluation of *Cerbera odollam* (Gaertn.) Barks.

Book Chapter **Hemayet Hossain***, A.F.M. hahid-Ud-Daula and Kamrul Hasan 2012. Chemical and Biological Evaluation of *Spilanthes paniculata* Linn. **Publisher:** LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Germany, *ISBN: 978-3-659-11405-2*.

Publications

2026

1. **Hossain H**, Mitu KF, Alimullah M, Ahmed KS, Rahman AN, Uddin MB, Dash PR, Jahan I, Amin S, Khan F, Alam MA. *Acacia auriculiformis* extract ameliorates cardiac oxidative stress and inflammation following modulation of the Nrf-2-HO-1 axis in isoproterenol-administered rats. *Pharmacological Research-Natural Products*. 2026;100740.
2. Ela KN, Alimullah M, Shuvo AU, Sornakar P, Sultana S, Rahman MJ, Amin MS, Ahmed KS, **Hossain H**, Uddin MB, Khan F. *Rauwolfia serpentina* Treatment Prevents Oxidative Stress, Inflammation, and Fibrosis in the Heart and Kidneys of Isoprenaline-Administered Rats. *Journal of Medicinal Natural Products*. 2026; 3(1):100004.

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3. Jahan N, Siddiquee NH, Riva RA, Chowdhury NU, Bhuiyan MR, Ahmed KS, **Hossain H**, Shuvo SR, Daula AS. Mechanistic insight into the antidiabetic effects of *Ficus hispida* fruits: Inhibition of intestinal glucose absorption and pancreatic beta-cell apoptosis. *Plos one*. 2025; 20(12):e0337465.
4. Alam S, Richi FT, Akter B, **Hossain MH**, Rony SR, Hridoy A, Mohammad M, Khanum S, Hasib MS, Jahan F. An integrated investigation on taro vegetable (*Colocasia gigantea* Hook. f.) to ascertain its ethnomedicinal importance: insights into prospective phytochemicals regulating analgesic, antidiabetic, and cytotoxic actions. *Food Chemistry Advances*. 2025; 9:101099.
5. Khanum S, Sarker MF, Joy MK, Bhuiyan MM, Rahman MS, **Hossain MH**. Assessment of the Therapeutic Potential of *Grewia asiatica*: A Correlative Analysis through in-vitro and in-vivo Approaches. *Pharmacological Research-Natural Products*. 2025:100362.
6. Shahjahan S, Ahmed KS, Khanum S, Rupa AZ, Ethane NJ, Kundu P, Khatun MM, Richi FT, Sarker MF, Alam S, **Hossain MH**. Bioactivity and Phytochemical Characterization of *Ceriops decandra* (Griff.) Ding Hou. Leaves: HPLC-DAD Profiling, Antioxidant, Antimicrobial, and Antidiarrheal Potentials. *Chemistry & Biodiversity*. 2025;22(12):e01015.
7. Mohammad M, Richi FT, Arafat M, Jiko PA, Haque MR, **Hossain MH**, Hossain MS, Ashrafi S, Taher MA, Alam S. Amelioration of Hepatic Injury Through Oxidative Stress Management Employing Methanolic Extract of Crepe-Ginger (*Cheilocostus speciosus* (J. Koenig) C. Specht) Flower. *Chemistry & Biodiversity*. 2025;22(8):e202500261.
8. Jahan E, Mazumder T, Hasan T, Ahmed KS, Amanat M, **Hossain H**, Supty SJ, Liya IJ, Shuvo MS, Daula AS. Metabolomic approach to identify the potential metabolites from *Alpinia malaccensis* for treating SARS-CoV-2 infection. *Biochemical Genetics*. 2025;63(4):3287-312.
9. Kabir MS, Kanan MK, Ahmed J, Hossain MA, Akter MS, Ahmed KS, **Hossain H**, Alam M, Mozumder NR, Ahmed M. Free and insoluble-bound phenolic compounds in parboiled and non-parboiled rice (*Oryza sativa* L): Impact of hydrothermal treatments. *LWT*. 2025; 15:228:118091.
10. Alimullah M, Jahan I, Rahman MM, Khan F, Shahin Ahmed K, **Hossain MH**, Arabnozari H, Alam MA, Sarker SD, Nahar L, Subhan N. *Camellia sinensis* powder rich

- in epicatechin and polyphenols attenuates isoprenaline induced cardiac injury by activating the Nrf2 HO1 antioxidant pathway in rats. *Scientific Reports*. 2025;15(1):20859.
11. Mohammad M, Mamun MJ, Khatun MM, Rasel MH, Masum MA, Suma KJ, Haque MR, Rabbi SA, **Hossain MH**, Hasnat H, Mahjabin N. A Multifaceted Exploration of *Shirakiopsis indica* (Willd) Fruit: Insights into the Neuropharmacological, Antipyretic, Thrombolytic, and Anthelmintic Attributes of a Mangrove Species. *Drugs and Drug Candidates*. 2025;4(3):31.
 12. Sikdar P, Kundu P, Aktar MR, Biswas BB, Hossain MS, Faruque M, Ahmed KS, **Hossain H**, Mazumder K, Biswas NN, Sadhu SK. Exploration of pharmacological potentialities of *Bauhinia acuminata* L. fruits by in vitro and in vivo assays supported by computational analysis. *Journal of Ayurveda and Integrative Medicine*. 2025;16(4):101127.
 13. Mohammad M, Richi FT, Hossain R, Arafat M, Jiko PA, Emon NU, Rabbi SA, Khastagir T, **Hossain MH**, Alam S. A hepatoprotective experiment on taro vegetable (*Colocasia esculenta* (L.) Schott) flower employing animal models by mitigating oxidative stress. *Animal Models and Experimental Medicine*. 2025;8(7):1166-85.
 14. Jahan I, Shuvo AU, Alimullah M, Rahman AN, Siddiqua S, Rafia S, Khan F, Ahmed KS, **Hossain H**, Akramuddaula K, Alam MA. Purple potato extract modulates fat metabolizing genes expression, prevents oxidative stress, hepatic steatosis, and attenuates high-fat diet-induced obesity in male rats. *PLoS One*. 2025;20(4):e0318162.
 15. Islam D, Akter F, Akhter S, Siddique A, Lipy EP, Hakim M, Paul T, Chowdhury F, **Hossain H**, Hossain S. Characterization of sweet potato flakes enriched with chia seeds: Nutritional profile, bioactive compounds, sensory attributes, and cardioprotective potential. *Journal of Agriculture and Food Research*. 2025; 20:101767.
 16. Tabassum T, Islam A, Andalib KS, Sarker B, Mia M, Ahmed KS, **Hossain H**, Habib A. Antibacterial Activity of *Ocimum tenuiflorum* against Drug Resistant Bacteria Isolated from Raw Beef. *Journal of Microbiology and Biotechnology*. 2025;35:e2409028.
 17. Rupa AZ, Rahim AT, **Hossain MH**, Ahmed KS. Nutritional, phytochemical and antioxidant properties of Bangladeshi pigmented rice (red and black), grains and pseudograins. *Food Chemistry Advances*. 2025;6:100862.
 18. Zahan T, Alimullah M, Jahan I, Uddin MB, Akter KA, Rahman MJ, Siddiqua S, Ela KN, Amin S, Ahmed KS, **Hossain H**. *Baccaurea ramiflora* fruit peel powder supplementation prevented inflammatory cell infiltration, oxidative stress, and fibrosis in carbon tetrachloride (CCl₄) administered ovariectomized rats. *Phytomedicine Plus*. 2025;5(1):100719.
 19. Bhuiyan MR, Ahmed KS, Reza MS, **Hossain H**, Siam SM, Nayan S, Jafrin S, Shuvo SR, Daula AS. Prediction of angiogenesis suppression by myricetin from *Aeginetia indica* via inhibiting VEGFR2 signaling pathway using computer-aided analysis. *Heliyon*. 2025;11(2).
 20. Hiron Saraj Devnath, Partha Biswas, Debasree Sen Oisay, Maisha Maliha Medha, Md Naharul Islam, Biswajit Biswas, Arafat Hossain, Md Nazmul Hasan, Khondoker Shahin Ahmed, **Hemayet Hossain**, Samir Kumar Sadhu. Bioactive phytocompounds profiling and the evaluation of analgesic, anti-inflammatory, and antihyperglycemic potential of *Argyrea capitiformis* (Poir.) Ooststr.: A combined in vitro, in vivo, and computational investigations. *Journal of Ethnopharmacology*, 2025. 337, p.118949.
 21. Sharier MS, Sornokar P, Ghosh HC, Fauzia F, Mia MS, Tareq M, Chowdhury KS, **Hossain H**, Subhan N, Alam MA, Islam MN. Evaluation of Reno-Protective Effect of *Asparagus racemosus* Root Extract in Isoproterenol-Induced Rats. *interventions*. 2025; 20:21.
 22. Lovely F, Sifat N, Zihad SN, Dutta AK, Rouf R, Ahmed KS, **Hossain MH**, Hossain MG, Shilpi JA, Uddin SJ. Effects of *Ganoderma lucidum* Supplementation on Obesity and Metabolic Alterations Induced by High-Carbohydrate-High-Fat Diet in Rats. *Journal of Food Biochemistry*. 2025(1):6894057.

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23. Hasnat H, Alam S, Shompa SA, Saha T, Richi FT, **Hossain MH**, Zaman A, Zeng C, Shao C, Wang S, Geng P. Phyto-pharmacological wonders of genus *Ficus*: Ethnopharmacological insights and phytochemical treasures from natural products. *Saudi Pharmaceutical Journal*. 2024 Dec 1;32(12):102211.
24. SM Bokhtiar, D Sarker, Alima Akter, MA Salam, KU Ahmed, MM Anwar, MF Hossain, M Ahmed, MS Bhuiyan, RA Kanta, AKM Asaduzzaman, Khondoker Shahin Ahmed, **Hemayet Hossain**, SM Rafiquzzaman. Nutritional profiling, phytochemical screening, cytotoxicity, and antioxidant content analysis for different crude extracts of *Ulva lactuca* from coast of Bangladesh. *Future Foods*. 2024 Dec 1;10:100513.
25. Islam S, Miah MA, Islam MF, Tisa KJ, Bhuiyan MH, Bhuiyan MN, Afrin S, Ahmed KS, **Hossain MH**. Fermentation with lactic acid bacteria enhances the bioavailability of bioactive compounds of whole wheat flour. *Applied Food Research*. 2024 Dec 1;4(2):100610.
26. Khatun MM, Sarker MF, **Hossain MH**, Islam MT, Saha BK, Alam S, Kibria AG, Murad K, Hasan MJ, Mouri NJ, Hossain A. Assessment of the protective effect of vitamin E supplementation on oxidative damage of diabetic rat spleen induced by streptozotocin. *Tissue and Cell*. 2024 Dec 1;91:102605.
27. Akter S, Satter MA, Ahmed KS, Biswas S, Bari MA, Das A, Karim MA, Saha N, **Hossain H**, Islam S, Tisa KJ. Nutritional composition, bioactive compounds, and pharmacological activities of tossa jute sprout (*Corchorus olitorius* L.): A potential functional food. *Food Bioscience*. 2024 Aug 1;60:104324.
28. Uddin MR, Akhter F, Abedin MJ, Shaikh MA, Al Mansur MA, Rahman MS, Jamal AS, Akbor MA, **Hossain MH**, Sharmin S, Idris AM. Comprehensive analysis of phytochemical profiling, cytotoxic and antioxidant potentials, and identification of bioactive constituents in methanolic extracts of *Sonneratia apetala* fruit. *Heliyon*. 2024 Jul 15;10(13).
29. Hossain MJ, Shill DK, Das SC, Ahmed KS, **Hossain H**, Kumar U. Development of a Validated RP-HPLC Method Using Full Factorial Design for the Analysis of Ramipril. Dhaka University *Journal of Pharmaceutical Sciences*. 2024 Jun 25;23(1):93-102.
30. Chandra Shill M, El-Nashar HA, Prova Mollick P, Nath Acharyya R, Afrin S, Hossain H, Halder S, Torequl Islam M, Bhuia MS, Reza HM, El-Shazly M. Longevity spinach (*Gynura procumbens*) ameliorated oxidative stress and inflammatory mediators in cisplatin-induced organ dysfunction in rats: comprehensive in vivo and in silico studies. *Chemistry & Biodiversity*. 2024 May;21(5):e202301719.
31. Ahmed S, Ahmed KS, Rahman MN, **Hossain H**, Han A, Geng P, Daula AS, Mamun AA. Polyphenols and extracts from *Zingiber roseum* (Roxb.) Roscoe leaf mitigate pain, inflammation and pyrexia by inhibiting cyclooxygenase-2: an in vivo and in silico studies. *Frontiers in Pharmacology*. 2024 Feb 14;15:1344123.
32. Kabir F, Nahar K, Hussain S, Yasmin T, Akhter N, Islam MN, Rahman MM, **Hossain H**, Haque MA, Alam MA, Subhan N. Pomegranate fruit peel extract improves cardiac functions via suppressing oxidative stress, fibrosis, and myocardial infarction in Long-Evans rats. *Journal of Advanced Biotechnology and Experimental Therapeutics*. 2024;7(1):190-204.
33. Shill, M. Chandra, A. All Rakib, S. Islam Khan, Murad Hossain, Shaiful Alam, **Hemayet Hossain**, U. Kumar Karmakar et al. "Polyphenol-standardized *Aphanamixis polystachya* leaf extract ameliorates diabetes, oxidative stress, inflammation, and fibrosis in streptozotocin-induced diabetic rats." *J. Food Biochem* 2024 (2024): e9441968.

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34. Muntasir Rahman, Fariha Chowdhury, Kamal Uddin, Khondoker Shahin Ahmed, **Hemayet Hossain**, Preeti Jain, Hasan Mahmud Reza, Kyueui Lee, Shazid Md Sharker. Nanostructured chitosan-polyphenolic patch for remote NIR-photothermal controlled dermal drug delivery. *International Journal of Biological Macromolecules*, 2023; 5(1): 124701.

35. Khondoker Shahin Ahmed, Maisha Farzana, Shaikh Emdadur Rahman, Ismet Ara Jahan, Tanzir Ahmed Khan, Muhammad Abdullah Al-Mansur, Nadia Sultana, **Hemayet Hossain***. *Journal of Herbs, Spices & Medicinal Plants*, 2023;1-20.
36. Md Naiemur Rahman, Khondoker Shahin Ahmed, Shakhawat Ahmed, **Hemayet Hossain**, AFM Shahid Ud Daula. Integrating in vivo and in silico approaches to investigate the potential of *Zingiber roseum* rhizome extract against pyrexia, inflammation and pain. *Saudi Journal of Biological Sciences*, 2023; 30(4): 103624.
37. Anirban Biswas, M Rabiul Islam, M Zakir Hosen, Khondoker Shahin Ahmed, **Hemayet Hossain**, Sheikh Julfikar Hossain. Analgesic and anthelmintic activities in common fruits of the Sundarbans mangrove forest, Bangladesh. *Bangladesh Journal of Botany*, 2023; 52(1): 79-86.
38. Rabindra Nath Acharyya, Shuvra Mithila, Suborna Rani, Md Arman Islam, Mimi Golder, Khondoker Shahin Ahmed, **Hemayet Hossain**, Shrabanti Dev, Asish Kumar Das. Anti-allergic and Anti-hyperglycemic Potentials of *Lumnitzera racemose* Leaves: In vivo and In silico Studies. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 2023; 93(1): 147-158.

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39. Monarul Islam, Khondoker Shahin Ahmed, Rezaul Karim, Bikash Dev Nath, Shyama Prosad Moulick, Rashedul Islam, Sharkar Md. Mahmudul Hassan, Hemayet Hossain, Mohammad Moniruzzaman, M. Sarwar Jahan, Aftab Ali Shaikhand Paris E. Georghiou. Alcohol-based Hand Sanitizers amid COVID-19: Chemical Formulation, Analysis, Safety, *ChemistrySelect*, 2022; 7(45): e202203290, DOI: <https://doi.org/10.1002/slct.202203290>
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41. Saduddin Talukder, Khondoker Shahin Ahmed, **Hemayet Hossain**, Tarek Hasan, Israt Jahan Liya, Muhammed Amanat, Nurun Nahar, Md. Sadikur Rahman Shuvo and A. F. M. Shahid Ud Daula. *Fimbristylis aestivalis* Vahl: a potential source of cyclooxygenase-2 (COX-2) inhibitors, *Inflammopharmacology*, 2022; 30(1): 2301-2315. DOI:10.1007/s10787-022-01057-0
42. A. M. Swaraz, Fariha Sultana, Khondoker Shahin Ahmed, Mohammed A. Satter, **Hemayet Hossain**, Obayed Raihan, Afrina Brishti, Ibrahim Khalil and Siew Hua Gan. Polyphenols Profile and Enzyme Inhibitory Properties of *Blumea lacera* (Burm. f.) DC.: A Potential Candidate against Obesity, Aging, and Skin Disorder, *Chem. Biodiversity*, 2022; 19 (9): e202200282. DOI: 10.1002/cbdv.202200282
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44. Md Abdul Halim, Kawser Alam Kanan, Towrin Nahar, Md Jiaur Rahman, Khondoker Shahin Ahmed, **Hemayet Hossain**, N.H.M. Rubel Mozumder and Maruf Ahmed (2022), Metabolic profiling of phenolics of the extracts from the various parts of blackberry plant (*Syzygium cumini* L.) and their antioxidant activities, *LWT - Food Science and Technology*, 2022; 167 (2022) 113813. DOI: 10.1016/j.lwt.2022.113813
45. Raju Kumar Das, Al Mizan, Fatema Tuj Zohra, Sobur Ahmed, Khondoker Shahin Ahmed and **Hemayet Hossain**. Extraction of a novel tanning agent from indigenous plant bark

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46. Tarek Hasan, Esrat Jahan, Khondoker Shahin Ahmed, **Hemayet Hossain**, Syed Mumtahir Mannan Siam, Nusrat Nahid, Tanoy Mazumder, Md. Sadikur Rahman Shuvo and A F M Shahid Ud Daula. Rutin hydrate and extract from *Castanopsis tribuloides* reduces pyrexia via inhibiting microsomal prostaglandin E synthase-1, *Biomedicine & Pharmacotherapy*, 2022; 148 (2022): 112774. DOI:10.1016/j.biopha. 2022.112774
47. Susmita Paul, Kamrun Naher, Sanzida Yeasmin, Rabindra Nath Acharyya, Mimi Golder, Khondoker Shahin Ahmed, **Hemayet Hossain**, Shrabanti Dev, Asish Kumar Das. Phytochemicals, Antioxidant, and Chemopreventive Potential of *Tamarix Indica* Leaf Extracts, *Journal of Herbs, Spices & Medicinal Plants*, 2022; 28(2): 143-159.
48. Md Nazmul Hasan Zilani, Md Aminul Islam, Partha Biswas, Md Anisuzzman, **Hemayet Hossain**, Jamil A Shilpi, Md Nazmul Hasan, Md Golam Hossain. Metabolite profiling, anti-inflammatory, analgesic potentials of edible herb *Colocasia gigantea* and molecular docking study against COX-II enzyme. *Journal of Ethnopharmacology*, 2021; 281: 114577.
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Editorial Member/ Reviewer

01. Bangladesh Journal of Scientific and Industrial Research (BJSIR)
02. Asian Journal of Pharmaceutical and Biological Research (AJPBR)
03. Asian Journal of Pharmaceutical and Health Sciences
04. International Journal of Pharmaceutical Sciences and Research (IJPSR)
05. Journal of Ayurveda and Integrative Medicine
06. International Journal of Pharmaceutical and Phytopharmacological Research
07. International Journal of Pharmaceutical Research and Technology (IJPRT)
08. Journal of Pharmaceutical and Bioanalytical Science (JPB Science)
09. Global Journal of Research on Medicinal plants & Indigenous medicine (GJRM)

10. Spatula DD-Peer Reviewed Journal on Complementary Medicine and Drug Discovery
11. International Journal of Pharmaceutical and Biological Research (IJPBR)
12. Journal of Pharmaceutical and Biological Sciences.

Training, Workshop and Seminar Attended

1. Attended in “**National Workshop on the Pesticidal Plants of Bangladesh**” organized by Asian Network of Research on Antidiabetic Plants (ANRAP), held on 05 June, 2006.
2. Attended in “**IUPAC Workshop on Development of Methodologies and Protocols on Documentation, Evaluation of Safety & Efficacy and Standardization of Herbal Medicine**” organized by IUPAC and Bangladesh Academy of Sciences, held on 06-07 June, 2006.
3. Participated in the training course on Preparative HPLC held at BCSIR, Dhaka, Bangladesh, from 08-21 April, 2007.
4. Participated in the training Programme of NITUB (Network Of Instrument Technical personal User scientists of Bangladesh “**On the use & maintenance of Gas Chromatography (GC)**” held at University of Dhaka , Dhaka-1000, Bangladesh, from 29th November- 04 December, 2008.
5. Attended in the Seminar on “**Search for Bioactive Natural Products Targeting Cancer related Signaling Pathways**” organized by Pharmacy Discipline, Khulna University, Khulna, Bangladesh held on 18th November 2008.
6. Attended in the **workshop** on “**Writing Scientific Papers and Project Proposals**” organized by Research cell of Khulna University, Khulna ,Bangladesh held on 30th June, 2009.
7. Participated in the “**Training on Teaching and Research Methodology**” organized by Research cell of Khulna University, Khulna ,Bangladesh held on 23- 24 June, 2009.
8. Participated in the training workshop on ISO 9001, jointly organized by DCCI Research Cell and ITC, Geneva, held on 26th December, 2009, Dhaka.
9. Participated in the training course on “**Laboratory quality system, management and internal Audit**” held at Jaipur, India, from 05-08 January, 2010.
10. Participated in the training course on “**Operating system and Maintenance of LC-MS/MS**” held at BCSIR, Dhaka, Bangladesh from 16-18 September, 2010.
11. Participated in the training course on “**Amino acid analyzer**” held at BCSIR, Dhaka, Bangladesh from 02-04 May, 2011.
12. Participated in the training course on “**Inductively Coupled Plasma Mass Spectrometry (ICP-MS)**” held at BCSIR, Dhaka, Bangladesh from 24-26 July, 2011.
13. Participated in the 42nd **Training programme of NITUB on the use, maintenance and trouble-shooting of High Performance Liquid Chromatography (HPLC)** held on 08-20 October 2011 from at the Center for Advanced Research in Science, DU and BCSIR.
14. Attended in the **workshop** on ‘**Chemical and biological Studies on Bioactive Plant Materials**’ of ANRAP from 31.12.2011 to 03.01.2012 at Bangladesh institute of Health Sciences (BIHS), BIRDEM and BCSIR, organized by AFASSA-ANRAP & BCSIR.

Professional Membership

- ‘A’ grade Pharmacist having Registration Number: A-2625 (By Bangladesh Pharmacy Council)
- Member of Bangladesh Pharmaceutical Society (BPS)
- Member of Bangladesh Academy of Science (BAS)

Awards/ Fellowships/ Scholarships

- | | |
|-----------|---|
| 1996-1998 | Board Scholarship for success in S.S.C. Examination. |
| 1998-2001 | Board Scholarship for success in H.S.C. Scholarship Examination. |
| 1999-2002 | University Scholarship for good result in different semester in B. Pharm Examination. |

Languages Proficiency

- Bengali: Proficient in written and oral communication (Native Language)
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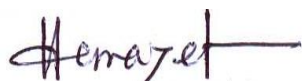
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