

Safaet Alam

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Education

- M. Pharm (session 2017-18) from Department of Pharmaceutical Chemistry, University of Dhaka, Awarded with NST Fellowship, 2019-20 from Ministry of Science and Technology, Bangladesh.
- B. Pharm Professional (Session 2012-13) from Department of Pharmacy, University of Dhaka.
- HSC from Dhaka College, Dhaka, Bangladesh in 2012 with a GPA of 5.00 out of 5.00.
- SSC from Government Laboratory High School, Dhaka, Bangladesh in 2010, Awarded with "General Scholarship" from the Ministry of Education, Bangladesh.

Publications

Total Publication: 64

Total Citation: 2366

H-index: 22

i10- index: 42

Notable Publications:

1. **Alam, S.**, Richi, F.T., Akter, B., Hossain, M.H., Rony, S.R., Hridoy, A., Mohammad, M., Khanum, S., Hasib, M.S. and Jahan, F., **2025**. 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*, 9, p.101099.
2. **Alam, S.**, Chowdhury, M.N.R., Hossain, M.A., Richi, F.T., Emon, N.U., Mohammad, M., Ahmed, N. and Taher, M.A., **2025**. Antifungal potentials of Asian plants: ethnobotanical insights and phytochemical investigations. *Chemistry & Biodiversity*, 22(5).
3. Richi, F.T. and **Alam, S.**, **2025**. From hidden hunger to double burden: Bangladesh's urgent need to prioritize diet quality. *The Lancet Regional Health-Southeast Asia*, 41.

4. **Alam, S.**, Richi, F.T., Emon, N.U., Chowdhury, A.A., Hasan, C.M. and Haque, M.R., **2024**. First-time report on compound isolation from two Colocasia species: vegetable-derived bioactive metabolites and their medicinal potential. *Frontiers in Pharmacology*, **15**.
5. **Alam, S.**, Richi, F.T., Hasnat, H., Ahmed, F., Emon, N.U., Uddin, M.J., Rana, G.M., Wang, S., Yeasmin, M.S., Ahmed, N.U. and Khan, M.S., **2024**. Chemico-pharmacological evaluations of the dwarf elephant ear (*Colocasia affinis* Schott) plant metabolites and extracts: health benefits from vegetable source. *Frontiers in Pharmacology*, **15**.
6. **Alam, S.**, Dhar, A., Hasan, M., Richi, F.T., Emon, N.U., Aziz, M.A., Mamun, A.A., Chowdhury, M.N.R., Hossain, M.J., Kim, J.K. and Kim, B., **2022**. Antidiabetic potential of commonly available fruit plants in Bangladesh: updates on prospective phytochemicals and their reported MoAs. *Molecules*, **27**(24), p.8709.
7. **Alam, S.**, Sarker, M.M.R., Sultana, T.N., Chowdhury, M.N.R., Rashid, M.A., Chaity, N.I., Zhao, C., Xiao, J., Hafez, E.E., Khan, S.A. and Mohamed, I.N., **2022**. Antidiabetic phytochemicals from medicinal plants: prospective candidates for new drug discovery and development. *Frontiers in endocrinology*, **13**, p.800714.
8. **Alam, S.**, Sarker, M.M.R., Afrin, S., Richi, F.T., Zhao, C., Zhou, J.R. and Mohamed, I.N., **2021**. Traditional herbal medicines, bioactive metabolites, and plant products against COVID-19: update on clinical trials and mechanism of actions. *Frontiers in pharmacology*, **12**, p.671498.
9. **Alam, S.**, Kamal, T.B., Sarker, M.M.R., Zhou, J.R., Rahman, S.A. and Mohamed, I.N., **2021**. Therapeutic effectiveness and safety of repurposing drugs for the treatment of COVID-19: position standing in **2021**. *Frontiers in Pharmacology*, **12**, p.659577.
10. **Alam, S.**, Emon, N.U., Hasib, M.S., Rashid, M.A., Soma, M.A., Saha, T. and Haque, M.R., **2021**. Computer-aided approaches to support the ethnopharmacological importance of *Dillenia pentagyna* roxb.: an in silico study. *Bangladesh Pharmaceutical Journal*, **24**(2).
11. **Alam, S.**, Rashid, M.A., Sarker, M.M.R., Emon, N.U., Arman, M., Mohamed, I.N. and Haque, M.R., **2021**. Antidiarrheal, antimicrobial and antioxidant potentials of methanol extract of *Colocasia gigantea* Hook. f. leaves: evidenced from in vivo and in vitro studies along with computer-aided approaches. *BMC Complementary Medicine and Therapies*, **21**(1), p.119.
12. **Alam, S.**, Emon, N.U., Shahriar, S., Richi, F.T., Haque, M.R., Islam, M.N., Sakib, S.A. and Ganguly, A., **2020**. Pharmacological and computer-aided studies provide new insights into *Millettia peguensis* Ali (Fabaceae). *Saudi Pharmaceutical Journal*, **28**(12).-

Funded Project

- Funded R&D project work (2022-23 fiscal year) of Bangladesh Council of Scientific and Industrial Research (BCSIR); Reference No: 39.02.0000.011.14.157.2022/172 (Date: 10.11.2022)

- Funded R&D project work (2024-25 fiscal year) of Bangladesh Council of Scientific and Industrial Research (BCSIR); Reference No: 39.02.0000.011.14.180.2024/1116 (Date: 14.01.2025)
- Government fund from the Ministry of Science and Technology, Bangladesh (2023-24 fiscal year); Reference No: 39.00.0000.012.02.009.23.159 (Date: 9 September 2023), Section: Biology, Medical Science and Nutrition Science Group, SL: 54, GO: 108.
- Government fund from the Ministry of Science and Technology, Bangladesh (2024-25 fiscal year); Reference No: 39.00.0000.012.02.010.24-42 (Date: 4 March 2025), Section: Biology, Medical Science and Nutrition Science Group, SL: 197.

Experience

- Worked as a Product Executive in Eskayef Pharmaceuticals Limited (From March 2018 to March 2019)
- Working as a Lecturer in the Department of Pharmacy, State University of Bangladesh (From January 2020 to May 2022)
- Working as Assistant Proctor of the State University of Bangladesh (From August 2021 to May 2022)
- Working as a Scientific Officer in the Bangladesh Council of Scientific and Industrial Research (BCSIR) (From May 2022 to present)

Training

- In plant training at Square Pharmaceuticals Limited, Kaliakor, Gazipur. (For 3 weeks)
- 5-day training on the application, instrumentation, and maintenance of GC-MS
- 5-day training on the application, instrumentation, and maintenance of LC-MS/MS
- 5-day training on the application, instrumentation, and maintenance of GC-MS/MS
- 5-day training on the application, instrumentation, and maintenance of NMR
- 5-day training on the application, instrumentation, and maintenance of PCR
- 5-day training on the application, instrumentation, and maintenance of Preparative HPLC

Computer Skills

- MS Office
- Tools for Computational Analysis (PyRx, Pymol, BIOVIA Discovery Studio, ChemDraw)
- R (Programming language)

Professional Skills

- Column chromatography, Thin Layer chromatography
- Chemical Isolation and Structure elucidation employing NMR and MS techniques
- Pharmacological investigation of plant extract and isolated chemicals through *in vitro*, *in vivo*, and *in silico* approaches.

Editorial Role

- Topic Editor, Frontiers in Pharmacology: <https://tinyurl.com/4pke4j7v>
- Review Editor, Frontiers in Immunology: <https://tinyurl.com/yx2uaxnz>
- Review Editor, Frontiers in Oncology: <https://tinyurl.com/3zf6e64s>
- Section Editor, Clinical Phytoscience: <https://tinyurl.com/3yxc8mwb>
- Handling Editor, Frontiers in Medicine: <https://tinyurl.com/46h5w6tc>

Achievements

1. Among the top 15 scientists from BCSIR according to the citation number (Link: <https://tinyurl.com/cwvxutv2>)
2. Among the top 15 productive researchers from the BCSIR in 2024 in the Scopus database (Link: <https://tinyurl.com/yj9ut9h8>)
3. Among the top 15 productive researchers from the BCSIR in 2025 in the Scopus database (Link: <https://tinyurl.com/3wv9w465>)
4. Among the 'Top 15 Productive Researchers from the University of Dhaka in 2025 in the Scopus database' (Link: <https://tinyurl.com/t9x3nkxt>)
5. Among the top 15 productive researchers from the University of Dhaka in 2024 in the Scopus database (Link: <https://tinyurl.com/2crfcrue>)
6. Featured as a corresponding author of a cover article in "Animal Models and Experimental Medicine: Volume 8, Issue 7 (Publisher: Wiley)." (Link: <https://tinyurl.com/32zwy9xt>)

Language Proficiency

- **Bengali:** Mother Tongue
- **English:** Good Spoken efficiency, excellent in reading and writing
- **French:** DELF A1 Certificate Holder