

FERDOUSHI JAHAN

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Office: Chemical Research Division, BCSIR Dhaka Laboratories
Bangladesh Council of Scientific & Industrial Research (BCSIR)
Dr. Quadrat-I-Khuda Road, Dhaka-1205, Bangladesh

Education

University Of Dhaka, Bangladesh Master of Applied Chemistry Advisor: Dr. Monoronjon Saha	2004
University Of Dhaka, Bangladesh Bachelor of Applied Chemistry	2002

Professional Experience

Senior Scientific Officer Chemical Research Division, BCSIR Dhaka Laboratories Bangladesh Council of Scientific & Industrial Research (BCSIR)	June 2017 to Present
Scientific Officer Chemical Research Division, BCSIR Dhaka Laboratories Bangladesh Council of Scientific & Industrial Research (BCSIR)	July 2011 to June 2017
Research Chemist Chemical Research Division, BCSIR Dhaka Laboratories Bangladesh Council of Scientific & Industrial Research (BCSIR)	June, 2006 to July 2011

Technical Skill and Competences

Essential oil extraction and blending, cosmetic and toiletry formulation, raw material evaluation, stability and compatibility testing, physicochemical and microbiological analysis, quality control, regulatory documentation, fragrance optimization, safety assessment, and use of analytical instruments for product performance, purity, and shelf-life evaluation.

Skills on Research Tools & Techniques

- Essential oil extraction techniques (steam distillation, solvent extraction)
- Physicochemical testing (pH, viscosity, density, refractive index)
- Stability and shelf-life testing under varied conditions
- Sensory and performance evaluation of formulations
- Quality control and validation methods
- Documentation, data analysis, and regulatory research

Research Grants (Selected)

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| Principal Investigator | Formulation of skin care cosmetics products by using <i>Citrus sinensis</i> (orange) peel extract (July 2024 -June 2027) |
| Principal Investigator | Formulation, evaluation of Shampoo with vitamin C and E from indigenous sources. (July 2025 -June 2026) |
| Principal Investigator | Method Development for the Production of Vitamin C Soap (July 2025 -June 2027) |
| Principal Investigator | Method Development for the Production of Lemon Air Freshener (July 2023 -June 2025) |
| Principal Investigator | Formulation, evaluation and comparative study of herbal skin care cosmetics from indigenous sources (JUNE2019-July2022) |

Publications and Process (Selected)

1. 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
Safaet Alam, Fahmida Tasnim Richi, Bakul Akter, Md. Hemayet Hossain, Satyajit Roy Rony, Abdullah Hridoy, Mahathir Mohammad, Sayema Khanum, Md. Sadman Hasib, Ferdoushi Jahan

2. Biological activity of *Mesua ferrea* (Nageswar) seed extracts: An in vitro and in silico study
Dipankar Chakraborty, Paroma Arefin, Sreebash Chandra Bhattacharjee, Mehedi Hasan, Rajib Sarkar, Suman Das, Saidur Rahman, Md Shehan Habib, Shirmin Islam, Ferdoushi Jahan, Gorungo Ray, Jannatul Ferdous, Fahima Farhana, Md Ashraful Islam, Mohammad Mostafa
3. Revolutionizing plant-based extracts for skin care and therapeutics
F Jahan, AA Happy
4. Method Development for the Production of Lemon Air Freshener
Ferdoushi Jahan, Md. Abdul Momen, Badhan Saha.
5. Formulation of Moisturizing Hand Wash
Ferdoushi Jahan, Md. Abdul Momen, Dr. Sahana Parveen, SM Mahmudul Hasan, Evana Paeveen.
6. Formulation of "Skin Care Gel"
Ferdoushi Jahan, Md. Abdul Momen, S. M. Mahmudul Hassan, Dr. Sahana Parveen, Evana Pervin Lipy
7. Formulation of Hair & Scalp Cleanser"
Ferdoushi Jahan, Md. Abdul Momen, S. M. Mahmudul Hassan, Dr. Sahana Parveen,

Conference Presentations (Selected)

- Poster Presentation in BCSIR Congress-2022, BCSIR Campus, Dhaka-1000
- Poster Presentation in BCSIR Congress-2023, BCSIR Campus, Dhaka-1000

Professional Memberships (Selected)

- Life-member of Bangladesh Chemical Society, Dhaka, Bangladesh
- Member of Bangladesh Standards and Testing Institution, Dhaka, Bangladesh

Professional Trainings

Project Management (Selected)

- Research Methodology NAPD, Dhaka-1000.
- Learning Session on Patent Drafting & Industrial Process, BCSIR, Dhaka-1000
Techno Economical and Feasibility Study, BCSIR, Dhaka-1000
- Application Training on PPR-2025 in Scientific Procurement and Application of E-GP, BCSIR, Dhaka, Bangladesh.

Training on Scientific Instrumentation (Selected)

- Application Training on GC and GC-MS: Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Application Training on UV-vis Spectroscopy: Techniques and Software operation, BCSIR, Dhaka,

Bangladesh.

- Application Training on FT-Raman Spectroscopy: Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Application Training on NMR: Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Application Training on Amino Acid Analyzer : Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Application Training on Particle Size Analyzer: Techniques and Software operation, BCSIR, Dhaka, Bangladesh.
- Application Training on LC-MS/MS System: Techniques and Software operation, BCSIR, Dhaka, Bangladesh.

References

Available up on request

Last Updated: Tuesday, 17 February, 2026