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Education

1. **Masters of Pharmacy**, Department of Pharmaceutical Technology, University of Dhaka, Bangladesh in 2013 (Exam held in 2014). Result: CGPA - 3.39 (Out of 4), Thesis entitled “**Qualitative and quantitative analysis of iodine in iodized salt at the retailer and consumer levels**” under the supervision of Professor A.B.M Faroque (Professor, Department of Pharmaceutical Technology, University of Dhaka) for the requirement of M.S.
2. **Bachelor of Pharmacy**, Faculty of Pharmacy, University of Dhaka, Bangladesh in 2012. Result: CGPA-3.38 (Out of 4)

Working Experience

1. Serving as a **Senior Scientific Officer** at Biomedical and Toxicological Research Institute (BTRI), (BCSIR), Bangladesh from 22 November till today
2. Served as **Scientific Officer** at Bangladesh Council of Scientific and Industrial Research (BCSIR) Laboratories, Binodpur-6206, Rajshahi from 12 July 2015 to 22 November 2020.

Publications

1. **Md Abdurrahim**, Tanvir Rahman, Koma Afrin Rintu, Md Raihan Sarkar, Md Alamgir Kabir, Dipa Islam, and Md Hasanuzzaman. 2023. “**Improvement of in Vitro Dissolution Profile of Poorly Aqueous Soluble Anti-Parasitic Agent Ivermectin Using Novel Hydrophilic Polymeric Carriers.**” Bangladesh Journal of Scientific and Industrial Research 58(4):209–20. doi: 10.3329/BJSIR.V58I4.69047.
2. Dipankar Chandra Roy, Dabashes Adhikery, **Md. Abdurrahim**, Mridha Md. Kamal Hossain, Rehnema Tasmiyah Chowdhury, Chadni Lyzu , Ashish Kumar Sarker; **A simplex PCR-based approach to trace the pulp adulterant of sweet pumpkin in industrially processed mango juice items by targeting the chloroplast ycf1 gene fragment**; Food and Humanity 1 (2023) 562–570; <https://doi.org/10.1016/j.foohum.2023.06.024> Accepted:22 June 2023 (Elsevier)
3. **Md. Abdurrahim** , Shefat E Millat Haque , Dipankar Chandra Roy, Paroma Arefin , Farheen F Ruchita , Md Raihan Sarkar,* , A.B.M. Faroque; **Iodine concentration in edible salt from production to retail level in Bangladeshi territory: A comparative study following standard regulations**; Journal of Food Composition and Analysis 120 (2023), 105334, DOI: <https://doi.org/10.1016/j.jfca.2023.105334>, Accepted: 10 April 2023 (Scopus, Q1, Impact Factor: 4.52) (Master’s Thesis)
4. Dipankar Chandra Roy, **Md. Abdurrahim**, Konok Roy, Nadia Afrin, Liton Chandra Mohanta, Ashish Kumar Sarker: **Polymerase chain reaction-based snake origin tracing in commercial venom crystals by targeting the mitochondrial D-loop.** (Toxicon) 219 (2022) 106933, DOI: <https://doi.org/10.1016/j.toxicon.2022.106933> (Scopus)
5. Paroma Arefin, Salma Ahmed, Md Shehan Habib, Zafar As Sadiq, Farhana Boby, Subarna Sandhani Dey, Aishwarya Arefin, **Md Abdurrahim**, Tanki Ashraf, Shirmin Islam, Md Saidul Arefin, Md. Abdus Satter Miah, And Md Ibrahim; **Assessment and Comparison of Nutritional Properties of Jackfruit Seed Powder with Rice, Wheat, Barley, and Maize Flour, (Current Research in Nutrition and Food Science)**,2022, 10(2) DOI: <https://dx.doi.org/10.12944/CRNFSJ.10.2.11>.(Scopus)

6. Paroma Arefin, Md Shehan Habib, Nazim Uddin Ahmed, **Md Abdurrahim**, Md Ibrahim, Sreebash Chandra Bhattacharjee, Dipankar Chakraborty, Sumon Das, Debabrata Karmakar, Dip Bhowmik, Shirmin Islam, Md Saidul Arefin: *Microspheres and Microcapsules: A Review of Manufacturing Techniques for Pharmaceutical Industries*; Indian Journal of Novel Drug Delivery 12(4), Oct-Dec, 2020, 177-185 (Peer review)
7. Paroma Arefin, Md Shehan Habib, Nazim Uddin Ahmed, **Md Abdurrahim**, Md Ibrahim, Sreebash Chandra Bhattacharjee, Dipankar Chakraborty, Sumon Das, Debabrata Karmakar, Dip Bhowmik, Shirmin Islam, Md Saidul Arefin: *ALLERGIC RHINITIS AND IMPORTANCE OF FEXOFENADINE HCL SUSTAINED RELEASE MICROSPHERE AS ITS TREATMENT APPROACH*; International Journal of Applied Pharmaceutics, Vol 14, Issue 1, 2022, Vol 14, Issue 1, 2022, DOI: <https://doi.org/10.22159/ijap.2022v14i1.40369>. (Scopus)
8. **Md. Abdurrahim**, Md. Asadul Islam*, Md. Abdul Jalil, Md. Badrul Islam, Mst. Sarmina Yeasmin, Nazim Uddin Ahmed, Md. Mahmudul Hassan Mondol, Ali Ahsan Muzahid, Atoll Goswami, Nasifa Akter and Md. Abdul Jalil; (*Investigation of fatty acids composition of four different seed's oil (Peanut, Neem, Coconut and Nigella) grown in Bangladesh and its pharmacological and physiological role in human body*). Journal of Chemical, Biological, and Physical Sciences; JCBPS; Section A; August 2019 – October 2019, Vol. 9, No. 4; 233-242, E- ISSN: 2249 –1929 [DOI: 10.24214/jcbps.A.9.4.23342.]; Received: 24 July 2019; Revised: 13 August 2019; Accepted: 23 August 2019;

Abstracts Presentations

1. **Md. Abdurrahim**, Mahbulul Hasan Leon, Paroma Arefin, A B M Faroque; *Study on the possible presence of synthetic phosphodiesterase type-5 (PDE-5) inhibitors in the traditional medicines available in Bangladesh* was presented on BCSIR-Congress-2022 held on 01-02 December 2022 at Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh.
2. **Md. Abdurrahim**, Mahbulul Hasan Leon, Paroma Arefin, A B M Faroque; *Study on the possible presence of sildenafil citrate in the marketed ayurvedic and herbal medicines available in Bangladesh* was presented at International Conference on Environmental Protection for Sustainable Development (ICEPSD)-2022 held on 2-4 September 2022 at CIRDA and University of Dhaka, Bangladesh.
3. **Md. Abdurrahim**, A.B.M. Faroque “*Qualitative and quantitative analysis of iodine in iodized salt at retailer and consumer levels*” was presented on The 23rd Science Conference of Bangladesh Association for the Advancement of Science (BAAS) on dated 15-17, October 2015 at Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh.
4. **Md. Abdurrahim**, Md. Asadul Islam*, Md. Abdul Jalil, Md. Badrul Islam, Mst. Sarmina Yeasmin, Nazim Uddin Ahmed, Md. Mahmudul Hassan Mondol, Ali Ahsan Muzahid, Atoll Goswami, Nasifa Akter and Md. Abdul Jalil; “*Investigation of fatty acids composition of four different seed's oil (Peanut, Neem, Coconut, and Nigella) grown in Bangladesh and its pharmacological and physiological role in human body*” was presented at an International Conference titled "Science and SDGs: Challenges, Opportunities, and Realities; 26-28 December 2010 University of Rajshahi, Rajshahi, Bangladesh.

Research Experience

- Now I am working as a project leader of an R&D project titled “**PCR-based identification of venomous snake species for the proper administration of anti-venom**” in Bangladesh Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People’s Republic of Bangladesh.
- Now I am working as a project associate of an R&D project “**Epidemiology and Molecular diagnosis of Echinococcus granulosus (cystic echinococcosis) in livestock in Bangladesh**” in Bangladesh

Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People's Republic of Bangladesh.

- I was a project associate of an R&D project “**Formulation and *In Vitro* Characterization of Clarithromycin Gastroretentive Floating Microspheres using different polymers**” in Bangladesh Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People's Republic of Bangladesh.
- I was project associate of an R&D project “**Isolation of secondary metabolites from medicinal plants and investigation of their bioactivities**” in Bangladesh Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People's Republic of Bangladesh.
- I was the project leader of an R&D project “**Isolation and phytochemical screening of biologically active compound from different types of oil seeds to find out lead compounds.**” in Bangladesh Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People's Republic of Bangladesh.
- I was the project associate of an R&D project entitled “**Isolation of pharmaceutically active phytochemicals from tulsi, mint, thankuni, garlic and flaxseed**” in Bangladesh Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People's Republic of Bangladesh.
- I was the project associate of an R&D project entitled “**Formulation and *in vitro* characterization of sustained released fexofenadine HCl microspheres using different polymeric blends**” in Bangladesh Council of Scientific and Industrial Research (BCSIR) under the Ministry of Science and Technology, Government of the People's Republic of Bangladesh.
- Thesis entitled “**Qualitative and quantitative analysis of iodine in iodized salt at the retailer and consumer levels**” under the supervision of Professor ABM Faroque (Professor, Department of Pharmaceutical Technology, University of Dhaka) for the requirement of M.Pharm

Research Interest

- Molecular Toxicology
- Molecular Biology (Species identification)
- Gene Expression
- Formulation and Drug Delivery,
- Micronutrients
- Phytochemistry
- Nanomedicine
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Key Skills

- PCR and gene amplification techniques
- Bacteria isolation, identification, and antibiogram
- Protein Analyzer, GCMS, and Operation of HPLC, UV-Vis-NIR Spectrophotometer, FTIR,
- Extraction of Natural Products
- Document Preparation: Microsoft Office Word, Excel, Powerpoint, SPSS

Training

Training on Blue Economy at National Academy for Planning and Developments (NAPD), Dhaka Bangladesh	19-23 June 2022
Training on Real Time-Polymerase Chain Reaction (RT-PCR) at BCSIR, Bangladesh	7-11 November 2021
Training on Thermo-gravimetric and Differential Thermal Analyzer (TG/DTA) at PP&PDC, BCSIR, Bangladesh	24-28 February, 2019
Training on Gas Chromatograph-Mass Spectrometer (GC-MS) at BCSIR Laboratories, Rajshahi, Bangladesh	16-20 June 2019
Training on Basic Training on Structure Based Drug Design at BCSIR Laboratories, Chottogram, Bangladesh	18-20 February 2018
Training on Auto Protein Analyzer at BCSIR, Bangladesh	28-30 March 2016
Training on Wavelength Dispersive X-Ray Fluorescence (WDXRF) at IMMM, Jopurhat, BCSIR, Bangladesh	20-22 December 2015
In-Plant Training in SK+F Pharmaceutical Bangladesh Ltd for about 2 months	25 th February 2013 to 17 th March 2013
Two months Special Foundation Training Course from Bangladesh Public Administration Center (BPATC)	4 th April to 2 nd June 2016

References

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Declaration

I, hereby, declare that all information presented here is true to my knowledge. If required and where applicable, this document can be supported by appropriate papers and references.



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Biomedical and Toxicological Research Institute (BTRI), BCSIR, Bangladesh