Muhammad Irfanul Islam

Scientific Officer

Bangladesh Council of Scientific and Industrial Research (BCSIR)

Chattogram

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Educational Qualification

Name of the Degrees	Major	Board/University	Passing Year	CGPA/GPA
M.S.	Microbiology	University of Chittagong, Bangladesh.	2016	3.84
B.Sc.	Microbiology	University of Chittagong, Bangladesh.	2015	3.71
H.S.C.	Science	Govt. City College, Chittagong	2010	5.00
S.S.C.	Science	Chittagong Collegiate School, Bangladesh.	2008	5.00

Professional Experience

Experience 1:

Name of the Organization: Bangladesh Council of Scientific and Industrial Research (BCSIR)

Position: Scientific Officer

Duration: June 25, 2023-Present

Routine work:

- 1. Quality analysis of custom samples
- 2.Preparation of the report of tested samples
- 3.Lab compliance
- 4.Other documentation

Research Work:

- 1. Project planning and execution
- 2.Collaborative Research

Research Interest: Clinical Microbiology, Antimicrobial resistance, Virology, Immunology

Experience 2:

Name of the Organization: Khwaja Yunus Ali University, Enayetpur, Sirajganj

Position: Lecturer (Microbiology) **Duration:** April 4, 2021-June 22, 2023

Responsibility:

- 1. Conducting theory and practical classes
- 2.Official documentation
- 3. Question paper preparation and moderation
- 4. Involving students into co-curricular activities
- 5. Supervising thesis and project work of undergraduate students

Course Offer:

- 1. Virology
- 2.Immunology-I
- 3. Genetic Engineering
- 4. Environmental Pollution and Bioremediation
- 5.Fermentation Technology
- 6. Quality Control of food, fishes and beverages
- 7. Microbial Ecology
- 8. Environmental Microbiology

Experience 3:

Name of the Organization: SQUARE Pharmaceuticals Limited.

Position: Executive (Microbiology) **Duration:** Nov 3, 2019- April 1, 2021

Responsibility:

- 1.Lab Compliance
- 2.Documentation
- 3. Testing of pharmaceutical products

Experience 4:

Name of the Organization: The ACME Laboratories Limited.

Position: Executive (Microbiology) **Duration:** Mar 1, 2018- Oct 7, 2019

Responsibility:

- 1.Lab Compliance
- 2.Documentation
- 3. Testing of pharmaceutical products

Research Experience:

1.MS Thesis: MS thesis entitled "Study on cellulolytic bacteria" was conducted at Department of Microbiology, University of Chittagong in 2016-2017 under the supervision of Professor Dr. Md. Towhid Hossain.

2.Project/Thesis Supervision: The project entitled "Isolation, Identification and Prevalence of bacteria from effluent of textile industry located in Sirajganj" was supervised by me at Department of Microbiology, Khwaja Yunus Ali University.

Expertise Area:

1.Laboratory Skill:

Basic Microbiological Technique: Identification of bacteria by microscopic, morphological and biochemical characteristics, Preservation of bacteria and fungi, Antimicrobial assay, Enzyme assay, Antibiogram, MIC and MBC of antibiotics.

Molecular Technique: DNA extraction, PCR, Agarose gel electrophoresis.

Immunological Technique: Identification of pathogenic microbes and viruses (HBV,TB) by Immunochromatographic Technique (ICT), Determination of aflatoxin by ELISA method.

Pharmaceutical Skill: Sterility testing, Endotoxin testing, Determination of particulate matter, Microbial limit test, Microbial analysis of water, Growth promotion tests, Autoclave revalidation.

2. Computer Skill:

Office Package: Microsoft Word, Microsoft Power Point, Microsoft Excel etc.

Award:

- 1. Scholarship by Kinder Garden Association of Bangladesh in 2000.
- 2. Scholarship by Adarsha foundation in 2002.
- 3. Junior Scholarship by Board of Intermediate and Secondary Education, Chittagong, 2005
- 4.Secondary School Certificate Scholarship 2008 by Board of intermediate and Secondary Education, Chittagong, Bangladesh.
- 5.D.P.I. Scholarship 2015 by University of Chittagong based on excellent result in B.Sc.(hons.) Exam.
- 6.Fellowship from Ministry of Science & technology in 2016 for M.S. thesis work.