

# NIZAM UDDIN

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**Address:** Apon Villa, Holding No- 34/48, Word- 62, Sontec, Donia, Dhaka, Bangladesh

## Career Goal

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- To pursue a long-term academic career integrating high-quality research and effective teaching, with the aim of advancing scientific knowledge, mentoring students, and contributing to institutional and societal development

## Areas of Interest

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- Environmental Microbiology
- Genomics
- Phage Therapy
- Bioinformatics
- Stem Cell & Cancer Biology

## Education

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**Master of Science in Microbiology** **2020-2022**

Department of Microbiology, University of Dhaka, Bangladesh *CGPA: 3.93 out of 4 Covered Study*

*Area: Environmental biotechnology, advanced molecular genetics, immunopathology and vaccine development, molecular virology & oncology, enzyme & protein biotechnology, pharmaceutical biotechnology*

**Bachelor of Science in Microbiology** **2016-2019**

Department of Microbiology, University of Dhaka, Bangladesh *CGPA: 3.84 out of 4 Covered Study*

*Area: Genetic engineering, genomics & bioinformatics, diagnostic microbiology, public health & epidemiology, molecular cell biology, fermentation technology, biostatistics, microbial physiology & metabolism*

**Higher Secondary School Certificate** **2013-2015**

Notre Dame College, Dhaka, Bangladesh *GPA: 5.00 out of 5*

**Secondary School Certificate** **2011-2013**

Ideal School and College, Motijheel, Dhaka, Bangladesh *GPA: 5.00 out of 5*

## Professional Experience

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**Scientific Officer** **2023 - Present**

**Genomic Research Laboratory, Bangladesh Council of Scientific and Industrial Research (BCSIR) Dhaka, Bangladesh**

**Master's Thesis** **2020-2022**

**Environmental Microbiology Laboratory, University of Dhaka** *Title: Characterization of Oil-degrading Bacteria Isolated from Oil-contaminated Soil, Dhaka, Bangladesh* **Key Findings:**

- Growth optimisation of oil-degrading bacteria
- A variety of biochemical tests and conventional PCR run for 16S rRNA, oil-degradative gene screening (alkB, C23DO), biofilm forming gene (bap, csuE, bfmS)
- Sorted out the biosurfactant producing oil-degrading bacteria

**Key Findings:**

- Sequences data taken from worldwide and high variation found
- VP28 analysis in protein level
- Evolutionary relationship generated in MEGA 7

## Research Projects

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### Project Leader

- Molecular Epidemiology and Antimicrobial Susceptibility of *Campylobacter* spp. Isolated from Human and Poultry Sources (2025-2027)
- Assessing of Bioremediation Potential among Microbiota Collected from Sukermouth Catfish in Bangladesh (2023-2025)

### Research Associate

- Characterization of Xanthan Gum Producing Bacteria from *Xanthomonas* sp.
- Development of Regeneration Protocol of Exotic Foreign Fruits (Dragon, Kiwi) in Bangladesh
- Dengue Serotype, Transmission, Prevalence and Vaccine Development

## Laboratory Skills

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- Conventional PCR
- Bacteria sample collection, culture and processing
- DNA Extraction
- RNA Extraction
- Plasmid extraction
- Gel Electrophoresis
- Antibigram

## Other Skills

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- **Language:** English - Fluent (IELTS Overall-6.5)
- **Software:** Microsoft Office - Handy
- **Presentation:** Oral & Poster - Fluent
- **Scientific Writing:** Proficient
- Organized scientific workshops, seminars and conferences

## Awards

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- National Science & Technology Fellowship (2021-2022)
- Honour's Scholarship
- HSC Scholarship
- JSC Scholarship
- PSE Scholarship

## Conference Presentations

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- **Poster Presentation:** ICGNB 2022 Conference held at North South University 2022
- **Oral Presentation:** 39th BSM Annual International Conference held at Dhaka University 2025

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## Extra-curricular Activities

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- Participated in BTV National Debate Competition
- Former Vice President of Fazlul Haq Debating Club
- General Member at Notre Dame Debating Club

## Publications (Selected)

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1. Genomic Analysis of *Acinetobacter baumannii* DUEMBL6 Reveals Diesel Bioremediation Potential and Biosafety Concerns. *PLOS One*.
2. Exploring the multifaceted biological activities of *Mallotus philippensis* (Lam.) Muell. Arg., bark extracts. *Next Research, Elsevier*.
3. Unveiling the Bioactive Potential of the Pteridophyte *Thelypetris Nudata* (Roxb.) CV Morton: Phytochemistry and Pharmacological Evaluation. *Bioresearch Communication*.
4. In vitro Regeneration of Exotic Kiwi Fruit (*Actinidia deliciosa*) in Bangladesh. *Plant Tissue Culture & Biotechnology*.
5. A computational analysis of a hypothetical protein from *Acinetobacter nosocomialis* identifies it as a multicopper oxidase linked to the copper resistance system. *Journal of Bangladesh Academy of Sciences*.
6. Binary and ternary metal complexes of Sal-OAPH<sub>2</sub> ligand derived from o-aminophenol and salicylaldehyde: Synthesis, spectral, antimicrobial and conductometric studies. *Journal of Molecular Structure, Elsevier*.

## Thesis Supervision

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- Information not provided

## Professional Memberships

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- Information not provided

## Professional Trainings

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- Information not provided

## References

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- **Dr. Anowara Begum**  
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- **Dr. Sangita Ahmed**  
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