

**Tasmia Farzana**  
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### **Education**

**University of Dhaka, Bangladesh**  
2010 M.S Department of Microbiology,

**University of Dhaka, Bangladesh**  
2009 Bachelors Department of Microbiology

**Holy Cross Girls High School, Dhaka, Bangladesh.**  
2003 HSC Science

### **Employment Experience**

**Independent University, Bangladesh (IUB), Bashundhara, Dhaka**  
**School of Life Sciences**  
*Lecturer, November 2016 - Present*

**Primeasia University, Dhaka**  
**Department of Microbiology**  
*Lecturer, May 2015- November, 2016*

**University of Science and Technology Chittagong (USTC), Chittagong**  
**Department of Microbiology**  
*Lecturer, January, 2011-March, 2014*

### **Research Experience**

**University of Dhaka, Bangladesh**  
**Department of Microbiology**

- Characterization of some putative probiotic bacteria for efficient application in shrimp aquaculture
  - Development of the process plan
  - Isolation of probiotic bacteria
  - Found out the effective concentration to reduce the infectious dose in-vivo by co-culture experiment
  - Molecular mechanism of probiotic potential was addressed by plasmid extraction And curing
- Distribution of various coli phages in environment and analysis of the effectiveness of a sewage treatment plant. (August,2008-January,2009)
  - Sample processing for phage collection.
  - Investigated distribution of coli phages was by culture-based agar overlay methods
  - Observing the effectiveness of sewage treatment plant

-Documentation of Research findings.

- Isolation, Extraction and Purification of plasmid DNA
- PCR , Immunological techniques (Western Blot, ELISA, CFT) , Biochemical techniques
- Physical quantitative analytical techniques in Microbiology,
- Basic laboratory techniques for isolation (morphological, biochemical tests) cultivation
- Physiological characteristic study, preservation and control of different microorganism

### Honors/Awards

- Achieved “**Dean’s Award**” from the Faculty of science, University of Dhaka for extraordinary performance in the B.Sc Honors Examination of 2007.
- Awarded scholarships by Government for SSC and HSC results.
- Received commendations from Daily ProthomAlo, Daily VorerKagoj, E-biz magazine, Khandakar Group, Institute of science, trade and technology, UCC group for outstanding result in SSC 2001.
- Scholarship by ‘Fair &Lovely Foundation’ for women empowerment in higher education.
- Participated in International Conference on Bioinformatics in University of Science and Technology Chittagong.
- Member – Bangladesh Society of Microbiologists (BSM)
- Member: General Microbiologists Association (GMA)

### Research

- Isolation, identification and culture sensitivity of *Salmonella spp* in children blood sample in Bangladesh. (Manuscript under processing).
- Isolation, identification and antibiotic susceptibility pattern analysis of *Vibrio cholera* O1 from pond water(Manuscript under processing).
- Isolation, Identification and antimicrobial sensitivity analysis of *Salmonellaspp* in children blood sample in Bangladesh (Manuscript under processing)

### Publications

1. M.Alam, **TasmiaFarzana**, C.Ahsan, M.Yasmin, and J.Nessa, **Distribution of Coliphages Against Four *E. Coli* Virotypes in Hospital Originated Sewage Sample and a Sewage Treatment Plant in Bangladesh.** Indian Journal of Microbiology. June 2011, Volume 51, Issue 2, pp 188-193.  
<http://link.springer.com/article/10.1007%2Fs12088-011-0093-6>
2. **T.Farzana**, S.Rahman, M.Naser, M.Karim. **A molecular insight of some probiotic bacteria to address their antagonistic activity against pathogenic vibrios.** Journal of Bangladesh Academy of Sciences (JBAS), Vol. 37, No. 1, June 2013.

3. T.Akter, K.Fatema, R.Alam , A.Parvez , S.Nahar , E.Uddin , S.Pervin and **T.Farzana** **Investigation of Urine Samples for Isolation, Identification and Antibiotic Susceptibility Analysis of Bacterial Pathogens from Suspected Urinary Tract Infected Patients of Bangladesh.** British Journal of Medicine & Medical Research 18(2): 1-10, 2016, Article no.BJMMR.28576 ISSN: 2231-0614, NLM ID: 101570965
4. **Microbiological and Antibiotic Resistance Pattern Analysis of Wash Water from Tea Vendors of Urban Areas in Bangladesh.** International Journal of Scientific & Technology Research, December 2016 Edition - IJSTR-1216-15839.
5. **Characterization of Rhizobia from Root Nodule and Rhizosphere of *Lablab purpureus* and *Vignasinensis* in Bangladesh.** International Journal of Research in Applied, Natural and Social Sciences, ISSN(P): 2347-4580, E-ISSN : 2321-8851

### **Conference Papers and Presentations**

- Presented Seminar on Management of Microbiological Safety and Quality of Food, (2009) Department of Microbiology, University of Dhaka., Dhaka, Bangladesh

### **Other Conferences and Workshops**

- 24th Annual Conference of Bangladesh Society of Microbiologists (2010), Department of Microbiology, University of Dhaka, Dhaka, Bangladesh
- 26th Annual Conference of Bangladesh Society of Microbiologists (2012), Department of Microbiology, University of Chittagong, Chittagong, Bangladesh
- International Training Workshop on Bioinformatics and Computational Biology in South Asian Perspective (2012), Department of Biotechnology, University of Science and Technology Chittagong, Chittagong, Bangladesh
- International conference themed on microbes for benefit of the society, December 2015
- Training on Teaching- learning, curriculum and Quality Assurance under Institutional Quality Assurance Cell, Primeasia University