

**Shakila Sultana**

Email: [shakila130@iub.edu.bd](mailto:shakila130@iub.edu.bd)

**Education**

**University of Dhaka, Dhaka**

2014 M.S

Microbiology

“Characterization of indigenous *Bacillus thuringiensis* strains based on their *cry* genes and Cry protein profile”

Thesis Advisor: Professor Dr Shakila Nargis Khan (PhD)

**University of Dhaka, Dhaka**

2013 B. Sc.

Microbiology

**Viqarunnisa Noon School and College, Dhaka**

2009 HSC

Science

**Employment Experience**

**Independent University, Bangladesh (IUB), Bashundhara, Dhaka**

School of Life Sciences

*Lecturer, January 2018- Present*

**Primeasia University, Banani, Dhaka**

Department of Microbiology

*Lecturer, October 2016- November 2017*

**Academic Appointments**

**Independent University, Bangladesh (IUB), Bashundhara, Dhaka**

School of Life Sciences

*Adjunct Lecturer, May, 2016- October, 2016*

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

Food Microbiology Laboratory, Institute of Food Science and Technology (IFST)

*Intern, January 2013-February 2013*

**Research Experience**

University of Dhaka, Dhaka, Department of Microbiology

Dry lab work:

- Sequence Cleaning
- Designing of Primers
- Phylogenetic Tree Construction
- Dendogram construction based on RAPD-PCR data
- Molecular weight determination from amino acid sequences of protein

Wet lab work:

- Isolation of *Bt* from soil sample
- Detection of *cry* genes by PCR
- Protein profiling by SDS-PAGE
- RAPD-PCR
- Microscopic observation of *Bt* and crystal proteins (Light, Scanning Electron, Phase Contrast)
- Protease Enzyme Essay

### Honors/Awards

- Dean's Award, Faculty of Biological Sciences, University of Dhaka, 2013
- National Science and Technology fellowship Award (Ministry of Science and Technology), 2014

### Publications

**Sultana S.** (2017). Detection of *Campylobacter* spp. from Poultry and Poultry Products in Dhaka, Bangladesh. J Network Med Target Ther 1(1): dx.doi.org/10.16966/jnmtt.101

Uddin E., **Sultana S.**, Datta S. (2016). Antibiotic Sensitivity Pattern of *Staphylococcus aureus* isolated from pus samples of different age and sex groups in Gazipur district, Bangladesh, Primeasia University Journal

Pervin S., Farzana T., Uddin E., **Sultana S.**, Bushra J., (2016). Characterization of Rhizobia from Root Nodule and Rhizosphere of *Lablab purpureus* and *Vigna sinensis* in Bangladesh, International Journal of Research in Applied, Natural and Social Sciences, ISSN(P): 2347-4580, E-ISSN : 2321-8851

Pervin S., Jerin N., Farzana T., **Sultana S.**, Zilani A., (2016). 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.

### Conference Papers

Rahman A., **Sultana S.**, Uddin M.A., Malek M.A., Sultana M., and Hossain A. (2015). Isolation and Characterization of *Bacillus thuringiensis* SW\_R\_F\_1 from Flacherie Diseased Silkworm Larvae. 1st International Conference hosted by Bangladesh Society of Microbiologists ("Microbes for Benefits of Society", December 26-28, 2015 at Dhaka, Bangladesh)

### Workshops

- Safe use of Laboratory Ventilation Equipment (Biosafety Cabinet, Laminar Airflow Cabinet, Fumehood), arranged by ESCO, 2014
- Training on Teaching- learning, curriculum and Quality Assurance under Institutional Quality Assurance Cell, Primeasia University