
Nishat Shayala Islam, Lecturer

Department of Biology & Chemistry

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Current Position

2013 to date

Lecturer, Department of Biology and Chemistry, School of Health and Life Sciences, North South University, Dhaka, Bangladesh

Job Description:

I teach in undergraduate level; Basic Biology, Biophysical Chemistry, General Chemistry, Microbial Ecology and Bacterial Genetics as a full time faculty

I coordinate Biophysical Chemistry Laboratory; for undergraduate students and also instruct in Basic Biology and General Chemistry Laboratory

I supervise undergraduate projects; students' use Microbiology Laboratory of the department, external laboratories or hospitals. As internal supervisor I monitor the research process, guide on research planning, presentation preparation, writing the report and doing statistical analysis and also grade them

I do administrative works; arranging seminars, interviews, laboratory design, student's consultancy, admission test duties, management of department stuff, advertisement of the Laboratory facility and programs etc.

Faculty Advisor, Earth Club, North South University, Dhaka, Bangladesh

I advice and control one of the biggest club at North South University, Dhaka, Bangladesh. Conduct seminars, public awareness, outreach programs, career development consultations, budget checking of the club etc.

Academic Qualifications

MSc (taught) in Bioscience Technology

2010-2011

University of York, UK.

Thesis title: "Bioinformatic Analysis of Novel Non-coding Motifs in Pathogenic Bacterial Genome"

Thesis Supervisor: Dr. Peter Ashton. Head of Genomics and Bioinformatics, Technology Facility, University of York, UK

Module Studied: Basic Biology, Protein Production, Genomics, Proteomics, Biophysical Techniques, Bioinformatics, Business and Transferable Skills etc.

Result: 60% (Good Performance)

BSc in Genetic Engineering and Biotechnology

2005-2009

University of Dhaka, Bangladesh

Project Title: "Understanding the Evolutionary Origin and Mechanism of Prion"

Supervisor: Dr. Jesmin. Professor, Department of Genetic Engineering & Biotechnology, University of Dhaka, Bangladesh

Module Studied: Basic Biochemistry, Basic Microbiology, Molecular Biology, Recombination Technology, Cell Biology, Tissue culture techniques, Bio-safety regulations, Genomics, Proteomics, Bioinformatics, and Biostatistics etc.

Result: First class (8th position) with distinction marks

HSC (Higher Secondary Certificate)

2002-2004

Viqarunnisa Noon School and College, Dhaka Board. Science

Result: GPA 5.00 out of 5.00

SSC (Secondary School Certificate).

2000-2002

Viqarunnisa Noon School and College, Dhaka Board. Science

Result: GPA 5.00 out of 5.00

Research Training

Research Assistant

November 2011-December 2012

Bioinformatics Laboratory, University of Dhaka, Bangladesh

Principal Job: Influence of metals and Prion protein in Alzheimer's disease pathogenesis.

Supervisor: Dr. Jesmin, Department of Genetic Engineering and Biotechnology, University of Dhaka, Bangladesh

Laboratory Experience

March- April, 2011

Genomics Laboratory, University of York, UK

Principal Job: Standardizing the DNA sequencing protocol using Advance Biosystems Genetic Analyzer 3130xl

Supervisor: Dr. Naveed Aziz, Genomics Lab, Technology Facility, University of York, UK

Research Fellowship

June-September, 2007

Parasitology Laboratory, ICDDR, B, Bangladesh

Principal Job: Diagnosis of Amoebiasis, Malaria and Leishmaniasis, using Light microscope, ELISA and Cell culture

Supervisor: Dr. Rashidul Haque, Scientist and Head, Parasitology Laboratory, ICDDR, B

Research and Publication

Publication: Nishat Shayala Islam and Ishtique Rashid.2013 "Bioinformatic Analysis of Novel Non-coding Motifs in Pathogenic Bacterial Genome". J. Asiat. Soc. Bangladesh, Sci. 39(1): 9-20, June 2013.

Conference publication: Nishat Shayala Islam, Ishtique Rashid, Shathi Mallik and Dr. Jesmin. 2010. "Understanding the molecular mechanism of Prion and Alzheimer's disease pathogenesis." presented on ADPD, Barcelona, Spain.

On-going Research:

Topic 1: Finding relationship between the molecular mechanism of Prion and Alzheimer's disease pathogenesis.

Research Methodology: Bioinformatics and Computational Biology with literature review.

Topic 2: Isolation and characterization of pathogenic microorganism in UTI patients in a local Hospital.

Research Methodology: Microbial culture, biochemical and antibiotic sensitivity test, statistical analysis of the data.

Topic 3: Isolation and characterization of pathogenic microorganism in street food and raw meat samples in local areas.

Research Methodology: Microbial culture, biochemical and antibiotic sensitivity test, statistical analysis of the data.

Research Supervision Activities

Internal Supervisor for the project "Isolation and antibiogram of extended spectrum beta lactamase (ESBL) producing *Escherichia coli* from urine sample". Experiment conducted in Dhaka Medical College Hospital (DMC). February, 2014

Principal Supervisor for the project "Prevalence of *Salmonella* spp. and *Staphylococcus* spp. in market samples of chicken meat in Dhaka city and sensitivity test of these organisms". Experiment conducted in Microbiology Laboratory, North South University, Dhaka. February, 2014

Skills

Computer

I am very good in using MS Word, Excel and PowerPoint, Graphics and Designing, Bioinformatics tools and software's like BLAST, CLUSTALW, CLUSTALX, FASTA etc. I have strong command on Perl programming language and statistics.

Language

Bengali is my mother language. English is my second language and Medium of instruction in undergraduate and Graduate is English and currently teaching in an English medium institution. **IELTS score: 7.0** (overall). Exam date: 24th May, 2014

Awards and Memberships

Dean's Award for extraordinary performance in BSc Honours examination (2008), Faculty of Biological Science, University of Dhaka, 2012

Board Scholarship for Higher-secondary School Certificate (H.S.C.) examination result. Board Scholarship for Secondary School Certificate (S.S.C.) examination result

Memberships American Society for Microbiology (ASM), Young Biotechnologists of Bangladesh (youngBB)

Interests

Academic: Bioinformatics, Neuroscience, Cancer research, Antibiotic resistance etc.

Non-Academic: Computer graphics and designing are the areas I like most. I have also arranged scientific and cultural programs and conferences during my University life. I was an active member of Science clubs during school and college. I used to be the badminton champion and I also attended national archery tournaments. Football and Cricket are my favourite games which I follow on television. I like to watch movies and read classic novels. Every day one of my priorities is to read the newspapers to have up-to-date knowledge about the world.

References

Dr. Abdul Khaleque, Associate Professor, School of Life Science, Department of Biology & Chemistry, North South University, Dhaka, Bangladesh. Phone: +8802-55668200 ext. 1904. E-mail: akhaleque@northsouth.edu

Dr. Jesmin, Professor, Department of Department of Genetic Engineering & Biotechnology, University of Dhaka, Bangladesh. Phone: +880-2-9661900 ~73 / ext. 7819. E-mail: jesmin@univdhaka.edu

Dr. Peter Ashton, Head of Genomics and Bioinformatics, Technology Facility, Department of Biology, University of York, North Yorkshire UK. YO10 5DD. Phone: +44 (0)1904 328808. E-mail: peter.ashton@york.ac.uk

Dr. ABM Md. Khademul Islam, Assistant Professor, Dept. of Genetic Engineering & Biotechnology, University of Dhaka, Bangladesh. Phone: +880-2-9661900 ~73 / ext. 7825 . E-mail: khademul@du.ac.bd