CURRICULUM VITAE
OF
S M JAHURUL HAQUE



Contact Details

Lecturer
Department of Biomedical Engineering,
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Background Summary:

Currently I am serving as a lecturer of Department of Biomedical Engineering, Islamic University, Kushtia, Bangladesh. I have a background in infectious diseases for more than 3 years with specific training in epidemiology, genetics, vaccine and drug trials. I served as a senior research assistant and research fellow of virology laboratory under the Infectious Diseases Division, icddr.b (International Centre for Diarrheal Disease Research, Bangladesh) from 2016 to 2018.

As a laboratory research fellow in the field of virology my work was largely concentrated in the area of viral diarrheas in particular, rotavirus as well as respiratory viruses. Later when I became senior research assistant of the Virology laboratory my additional responsibilities were to direct the research program of the laboratory and mentor young research fellow students.

In recent years, my work has involved several major areas: (a) implementation, interpretation and analysis of electrolyte imbalance in diabetic patients; (b) understanding multiscale interactions between cells, and the influence of these interactions on internal regulatory control networks, and the external microenvironment that shapes cell fate and functional tissue development; (c) role of different interactions in protein folding, stability and protein interactions with the ligands.

As a lecturer of Biomedical Engineering department, one of my important goals is to develop and implement various artificial organs transplantation and rapid diagnostics in low- and middle-income countries, including technology transfer. I have also been collaborating with other researchers from leading universities and research organizations around the globe, learned from experience and produced two peer-reviewed publications and one first prize holding international conference paper.

Current Position

Lecturer
Department of Biomedical Engineering,
Islamic University, Kushtia-7003, Bangladesh

Career Objective

To perform the best with my knowledge, experience, hard work and motivation to serve the organization to achieve its goal

Educational Qualifications

- **M.Sc., 2014** – Obtained **3.89** out of **4.00** (**Department first in position**) in Biotechnology & Genetic Engineering during 2014 (held in 2016) from Islamic University, Kushtia-Bangladesh. (***Thesis Title:*** *Distribution of Group A Rotaviruses Genotypes among Hospitalized Diarrheal Patients in Dhaka, Bangladesh: 2012-2015*)

- **B.Sc. (Hons), 2013** – Obtained **3.81** out of **4.00** (**Department first in position**) in Biotechnology & Genetic Engineering during 2013 (held in 2015) from Islamic University, Kushtia-Bangladesh.

(***Project Title:*** *Current Research on Acute Myeloid Leukemia; Systemic Review*)

- **H.S.C, 2008** – Obtained **4.80** out of **5.00** in Science from Pangsha College, Pangsha, Rajbari.
- **S.S.C, 2006** – Obtained **4.88** out of **5.00** in Science from B M D High School Pangsha, Rajbari.

Professional Experience

July 2018- Present **Lecturer**

Department of Biomedical Engineering, Islamic University, Kushtia-7003, Bangladesh

August 2017-July 2018 **Senior Research Assistant**

International Center for Diarrheal Disease Research, Bangladesh (icddr,b) Principal Investigator: Dr. Mustafizur Rahman (Virology lab)

Responsibilities:

- Screening and characterization of circulating respiratory viruses by rt- PCR and perform other molecular biology experiments and sequence analysis.
- Propagation of influenza virus in MDCK cell line followed by antigenic characterization, determination of antibody titer in serum samples of vaccine-trial population.
- WST-1 Cell Proliferation Assay for filgrastim using M-NFS-60 cell line.
- Bio-assay of biotech products (Interferon, Etanercept) on A549 and L929 cell lines.

Nov, 2015 – Dec, 2015 **Graduate Research Fellow**

International Center for Diarrheal Disease Research, Bangladesh
Principal Investigator: Dr. Mustafizur Rahman (Virology lab)
Responsibilities:

- Nucleic acid extraction and preparation; PCR (nested, touch-down, Real Time) optimization; targeted gene and whole genome sequencing by Sanger method.
- Bioinformatics analysis (sequence based antigenic data analysis, primer design, phylogenic analysis, reassortment and recombination event analysis, evolutionary analysis with different bioinformatics softwares) and manuscript drafting.

June 2014-September 2015 **Research Fellow**

Islamic University, Depertment of Biotechnology and Genetic Engineering, Islamic University, Kushtia
Principal Investigator: Hossain Md, Faruquee (Assistant Professor, Islamic University, Kushtia
Responsibilities:

• Provide mentorship to undergraduate students in conducting lab experiments eg. bacterial culture & identification using biochemical

tests, light microscope operation, organic and inorganic substance identification using titration, acid base reactions etc.

• Prepare lab protocols for experiments and designe lab assessment questionnaire.

Publication List (Recent First)

- *Warda Haque, **Jahurul Haque,** Dipan Barai, Sezanur Rahman, Sayra Moni, Mohammad Enayet Hossain, Abu Syed Golam Faruque, Shanawaz Ahmed, K. Zaman, Mustafizur Rahman (2018); Distrbution of rotavirus genotypes in Dhaka, Bangladesh, 2012-2016:* **'Re-emergence of G3P[8] after over a decade of interval. '** Journal of Vaccine. 2018 (August); DOI: *10.1016/j.vaccine.2018.08.081*

- *Mokibul Hassan Afrad, Tasnuva Avzun,* **Jahurul Haque**, *Warda Haque, Mohammad Enayet Hossain, AFM Rajibur Rahman, Shahnawaz Ahmed, Abu Syed Golam Faruque, Mohammed Ziaur Rahman, Mustafizur Rahman* (2017); **'Detection of enteric- and non-enteric adenoviruses in gastroenteritis patients, Bangladesh, 2012-2015.'** Journal of Medical Virology. 2017 (November); 1–8. DOI: *10.1002/jmv.25008*

- *Warda Haque,* **Jahurul Haque**, *Shahnawaz Ahmed, Dipan Barai, Mohammad Enayet Hossain, Mohammed Ziaur Rahman, Abu Syed Golam Faruque, K Zaman, Mustafizur Rahman* (2017); **'Rotavirus genotypes circulating in Bangladesh prior to the introduction of vaccine, 2012-16: re-emergence of G3 genotype.'** Conference Paper: Asian conference on diarrheal disease and Nutrition (ASCODD), 2017 at Kochi, India.
  Available on *www.researchgate.net/publication/324219275*

Conferences/Seminars/Workshops

- **Full Biosafety and Biosecurity Training** (Topics Covered: Safe Laboratory Design, General Laboratory Safety, Chemical Safety, Biosafety, Emergency response to biological incidence, Laboratory inspection, Waste Management, BSL3), 19, 20 and 29 September 2016, **icddr'b**, Mohakhali, Dhaka.
- **Biosafety Orientation program**, 8 August 2016, **icddr'b**, Mohakhali, Dhaka.
- National Workshop on Bioinformatics and Computational Biology, **Islamic University**, Kushtia-7003, Bangladesh.

Awards and recognition

- University Grand Commission (UGC) Scholarship, Bangladesh
- University Merit Scholarship, Islamic University, Kushtia-7003, Bangladesh
- Departmental Merit Scholarship, Islamic University, Kushtia-7003, Bangladesh

Linguistic Proficiency

Bengali is mother language and fluent in verbal & writing for English.

Computer Literacy

Applications **:** All general purpose Software, Microsoft Office, SPSS.
Bioinformatics **:** BioEdit, Mega, PhyMol, Ex-Pasy.
Database **:** NCBI, Galaxy, BRINDA, EBI, EMBOSS.
Others **:** Expert in Web browsing & E-mail operation.

Affiliation

1. **Member**, Swapno, A voluntary organization of Dhaka
2. **Member,** Tarunno A voluntary organization of Islamic University, Kushtia

Personal Information

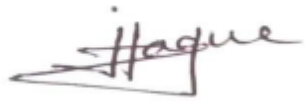
Father's Name	**:** Ishaque Ali Sikdar
Mother's Name	**:** Jahanara Begum
Date of birth	: December 15, 1990
Religion	: Islam (Sunni)
Nationality	: Bangladeshi (by birth)
Permanent Address	:Vill: Boro Khamer Majail, PO: Boyrat Madrasha, PS: Pangsha, Dist: Rajbari

Hobbies
Reading, travelling and fishing

Referee(s)

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