

## ***Saaimatul Huq***

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Software Engineering Technology  
Centennial College  
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### **EDUCATION**

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**Software Engineering Technology Diploma** **2019-2021 (expected)**

*Centennial College, ON, Canada*

**Biotechnology Diploma** **2019**

*Centennial College, ON, Canada*

**PhD, Biochemistry and Molecular Biology** **2010**

*Saitama University, Japan*

**Master of Science, Biochemistry and Molecular Biology** **2003**

*University of Dhaka, Bangladesh*

**Bachelor of Science, Biochemistry and Molecular Biology** **2002**

*University of Dhaka, Bangladesh*

### **PROFESSIONAL EXPERIENCE**

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**Research Associate (Co-op), VOLUNTEER** **May-August, 2018**

*Ryerson Mars Research facility, Chemistry and Biology Department, Ryerson University, Canada*

**Senior Scientific Officer** **2015-2017**

*Molecular Biotechnology Division, National Institute of Biotechnology, Bangladesh*

**Research Associate** **2014-2015**

*Department of Biochemistry and Molecular Biology, Shahjalal University of Science and Technology, Bangladesh*

**Research Assistant** **2012**

*Division of Clinical Laboratories, National Cancer Center, Japan*

**Research Assistant** **2010-2011**

*Laboratory of Gene Expression, Graduate School of Biomedical Science,*

*Tokyo Medical and Dental University, Japan*

**Research Assistant** **2007-2010**

*Department of Biochemistry and Molecular Biology, Saitama University, Japan*

**Research Assistant** **2006-2007**

*Molecular Biology Lab, Department of Biochemistry and Molecular Biology, University of Dhaka, Bangladesh*

*University of Dhaka, Bangladesh*

## TECHNICAL EXPERIENCES

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**Molecular Biology:** PCR, RT-PCR, Cloning, Gene targeting, Recombinant protein expression and purification, Protein-Protein interaction assay, Biochemical function analysis of protein, Molecular chaperone function analysis, Southern blot, Western blot, Northern blot, Gel filtration chromatography, Primer designing, Fluorescence microscopy, Genotyping by PCR, Analysis of mRNA splicing patterns by RT-PCR using bioanalyzer, mutational analysis of genes i.e. *EGFR*, *K-Ras*, *Alk* associated with different cancer using DNA from blood and paraffin embedded tissue samples, Fluorescence in situ hybridization (FISH) examination of *HER-2* gene, *EWSR* gene, *ALK* gene and of *SYT* gene associated with cancer, and of soft tissue, detection of Single nucleotide polymorphism (SNP) analyzing PCR samples by High-Resolution Melting Analysis (HRMA), basic bioinformatics tools.

**Programming Languages Learned:** C#, Java, JavaScript, Python, SQL.

**Tools Learned:** Visual studio, Visual studio Code, Eclipse, SQL database, MongoDB, Node.js, Angular, Express generator, Software testing, Linux OS, GitHub, Hiroku.

## PUBLICATIONS

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1. Md. Moniruzzaman , Irfan Ahmed, Saaimatul Huq, Md. Shakur All Mahmud, Sonya Begum, U.S. Mahzabin Amin, Palash Kumar Sarker, Mohammad Uzzal Hossain, Keshob Chandra Das ,Md. Salimullah. Association of polymorphism in heat shock protein 70 genes with type 2 diabetes in Bangladeshi population. Mol Genet Genomic Med. 8:e1073, 2020.
2. Mohammad Abdullah-Al-Shoeb, Saaimatul Huq, Muhammad Abul Kalam Azad, Md. Nafiur Rahman. Assessment of antibacterial efficacy of Lugol s iodine compared with commercial hand sanitizers of Bangladesh. Journal of World's Poultry Research 9(5):130-137, 2019.
3. Saaimatul Huq and Hitoshi Nakamoto. Heat Shock Proteins and Acquisition of Thermotolerance in Plants. In: Pessarakli, M. ed., Handbook of Plant and Crop Stress, 3rd Ed. CRC press, 519-534, 2010.
4. Saaimatul Huq, Keigo Sueoka, Shoichi Narumi, Fumio Arisaka, and Hitoshi Nakamoto. Comparative Biochemical Characterization of Two GroEL Homologs from the Cyanobacterium *Synechococcus elongates* PCC 7942. Biosci. Biotechnol. Biochem. 74 (11), 2273-2280, 2010.
5. Saaimatul Huq, Md. Shahidul Islam, Abu Ashfaqur Sajib, Nadim Ashraf, Samiul Haque and Haseena Khan. Genetic diversity and relationships in Jute (*Corchorus* spp.) revealed by SSR markers. Bangladesh J. Bot. 38(2):153-161, 2009.

## **SCHOLARSHIPS**

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The Japanese Government MEXT Scholar, Saitama University, Japan. 2007

University Grant Scholarship, University of Dhaka, Bangladesh for B.Sc. result. 2005

## **MENTORING EXPERIENCE**

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Conducted advanced hands-on basic biotechnology training classes for students on bacterial culture, PCR, SNP detection by restriction digestion, DNA fingerprinting and DNA sequencing by Sanger's method, spectroscopy, electrophoresis.

Mentored technicians and thesis students in training biochemistry and molecular biology techniques.

Provided DNA sequencing services to different research institutes and universities.

## **GRANTS**

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Special grant of Ministry of Science and technology, Government of the people's Republic of Bangladesh in the year of 2015-16 on "Association of Genetic polymorphism in Stress related Heat Shock Protein 70 with Type 2 Diabetes Mellitus patients of Bangladesh".

A grant on a project titled "Exploration of Economically Important Marine Flora From the Bay of Bengal: A Pilot Study" funded by Indian Ocean Rim Association (IORA) in the year of 2015-16.

## **REFERENCES**

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**AVAILABLE UPON REQUEST**