

# Curriculum Vitae

**FULL NAME** Saima Sabrina, Ph.D.

**CONTACT INFORMATION**

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**CURRENT AFFILIATION**

**Associate Professor**

Department of Biochemistry and Molecular Biology  
Mawlana Bhashani Science and Technology University,  
Tangail-1902, Bangladesh.

**RESEARCH INTEREST**

I am particularly interested in exploring mechanisms of immune evasion by cancer cells, the role of tumor-associated immune cells in promoting tumor progression, and the potential of immunotherapeutic approaches to enhance anti-tumor immunity.

**WORK EXPERIENCE**

1 Apr 2024– Present

**Associate Professor,**

**Department of Biochemistry and Molecular Biology**

Mawlana Bhashani Science and Technology University,  
Tangail, Bangladesh

11 Nov 2019–31 Mar 2024

**Assistant Professor,**

**Department of Biochemistry and Molecular Biology**

Mawlana Bhashani Science and Technology University,  
Tangail, Bangladesh

11 Nov 2017–10 Nov 2019

**Lecturer,**

**Department of Biochemistry and Molecular Biology**

Mawlana Bhashani Science and Technology University,  
Tangail, Bangladesh

4 May 2017–9 Nov 2017

**Lecturer, Department of Chemistry**

BGMEA University of Fashion and Technology (Bangladesh)

28 Jan 2015–30 Apr 2017

**Lecturer, Department of Chemistry**

Fareast International University (Bangladesh)

17 Jan 2010–31 Mar  
2011

**Adjunct Faculty, Department of Biochemistry**

Bangabandhu Sheik Mujibur Rahman Agricultural University

## EDUCATION AND TRAINING

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2020–2024 Doctor of Philosophy (PhD) in Immunology  
Yamagata University, Japan

Thesis Title

Relationship between initial state of myeloid cells and clinical efficacy of cancer immunotherapy: Implications for prognosis of cancer.

2009–2010 Master of Science (Thesis group) in Biochemistry and Molecular Biology  
Jahangirnagar University, Dhaka (Bangladesh)

Thesis Title

Experimental production of oil adjuvant Newcastle disease killed vaccines and determination of antibody levels in comparison with a commercial killed vaccine in antibody free chickens.

Overall Standing: First Class 3rd Position

2003–2009 Bachelor of Science (Honors) in Biochemistry and Molecular Biology  
Jahangirnagar University, Dhaka (Bangladesh)

Overall Standing: First Class 2nd Position

1999–2001 Higher Secondary Certificate First Division  
Bir Uttam Shahid Anwar Girls' College, Dhaka (Bangladesh)

1997–1999 Secondary School Certificate First Division  
Monipur High School, Dhaka (Bangladesh)

### Personal skills

Mother tongue(s) Bengali

Other language(s) English, Japanese

### Job-related skills

- Participated in a Research Project "Production of biodiesel from crude rice bran oils in Bangladesh" at Jahangirnagar University.
- Gained experience in a research position at the Virology laboratory of Bangladesh Livestock Research Institute, Savar, Dhaka (Thesis Project).
- Attended a workshop on "Biological Data Analysis Using SPSS" at Mawlana Bhashani Science and Technology University.
- Attended a workshop on "Research Methodology, e-Research, Research Proposal and Report Writing" at Mawlana Bhashani Science and Technology University.

- Participated in a workshop on “Instrumental Analysis of Bioactive Compounds and Food Additives” at Mawlana Bhashani Science and Technology University.
- Participated in training on recombinant DNA technology, animal experiment techniques, protein analysis and flow cytometry analysis in Yamagata university.

## Digital skills

- Well versed in the use of Microsoft Office suite of applications
- Capable in using SPSS
- Capable in using Prism and EZR (64 bit)

## List of Publications

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### Publications with peer review process

- Sabrina, S., Giasuddin, M., Rahman, S. B., Akter, S., & Uddin, K. R. Preparation of Newcastle Disease Killed Vaccines and Antibody Levels Determination. *Bangladesh Journal of Life Sciences*, 2011 (June), 13- 20.
- Akter, S., Sabrina, S., Rahman, M. N., & Rahman, S. B. Production and Characterization of Biodiesel after Extraction of Rice Bran Oil. *Bangladesh Journal of Life Sciences*, 2011, 129-133.
- Asaduzzaman, M., Basak, R., Islam, M.S., Juliana, F.M., Ferdous, T., Islam, M.J., Mamun, A.A., Sabrina, S., Uddin, M.M., Islam, M.K. Vitamin D Deficiency and Insufficiency in Healthy Pregnant Women Living in Dhaka, Bangladesh, 2018. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*, Volume 17, Issue 4 Ver. 9, 66-73.
- Islam, M. J., Amin, M. B., Asaduzzaman, M., Juliana, F. M., Sabrina, S., Rashid, R. and Sarkar, A. (2018). Successful Transplantation of Primary Hepatocytes from DsRed Mice into Fah-;/Scid/Scid Mice; A Future In Vivo Model System for Receiving Human Hepatocytes. *Advances in Life Science and Technology*, ISSN 2224-7181 (Paper) ISSN 2225-062X (Online), (December. 2018), Vol.69.
- Sabrina, S., Nobel, F.A., Islam, K., Akter, S., Hasan, T., Jahan, T., Jebin, R.A., Shaha, M., Chandra, T., Rahman, M.M., Hasan, M.R., Rashid, R., Juliana, F.M., Asaduzzaman, M. and Islam, M. J. (2019). A Cross-Sectional Study of the HBV and HCV Based on Its Epidemiology in Mymensingh City, Bangladesh. *IOSR Journal of Nursing and Health Science (IOSR-JNHS)*, e-ISSN: 2320–1959.p-ISSN: 2320–1940 Volume 8, Issue 4 Ser. IX. (July-Aug .2019), PP 29-35.
- Islam, M. J., Das, S.A., Nawfal, K.T., Juliana, F.M., Sabrina, S., Nobel, F.A., Akter, S., Jebin, R.A., Chandra, T., Mozibullah, M., Sohel, M., Mogal, M.R., Hossain, M.A., Hasan, M.M., Khatun, M.M. and Asaduzzaman, M. (2019). Determination of HCV genotyping for therapeutic purpose in capital city Dhaka, Bangladesh. *Bioresearch Communications*. Volume 05, Issue 02 (July 2019), 765-769.
- Islam, M. J., Chandra, T., Jebin, R.A., Yasmin, F., Khatun, M., Islam, M.A., Ramzan, S.B., Nobel, F.A., Akter, S., Islam, M., Hasan, M.M., Khatun, M.M., Yesmin, S., Sabrina, S., Khatun, M., Mamun, A.A., Islam, M.K., Asaduzzaman, M., Das, K.C., Amin, M.B. and Uddin, M.K.M (2020). Determination of Optimum Survivability Factors of Highly Pathogenic *Vibrio cholerae* 01 Serogroup-Specific Bacteriophage JSF4φ. *American Journal of Pure and Applied Biosciences*. ISSN: 2663-6913 (Online) & 2663-6905 (Print), Volume 2(2), 8-14.
- Nobel, F.A., Akter, S., Jebin, R.A., Chandra, T., Rahman, M.M., Zamane, S.A., Islam, K., Sabrina, S.,

Akther, N., Islam, A., Hasan, M.R. and Islam, M. J. (2021). Prevalence of multidrug resistance pattern of *Escherichia coli* from suspected urinary tract infection (UTI) in Mymensingh city, Bangladesh. *J Adv Biotechnol Exp Ther.* 2021 Sep; 4(3): 256-264.

- Islam, M.J., Sarker, T.C., Jebin, R.A., Yasmin, F., Khatun, M., Islam, M.A., Ramzan, S.B., Nobel, F.A., Akter, S., Islam, M., Hasan, M.M., Khatun, M.M., Yesmin, S., Sabrina, S., Khatun, M. et al. 2020. Determination of optimum survivability factors of highly pathogenic *Vibrio cholerae* 01 serogroup specific bacteriophage JSF4 $\phi$ . *American J. of Pure and Applied Biosciences*, 2(2), pp.8-14
- Sabrina, S., Takeda, Y., Kato, T., Naito, S., Ito, H., Takai, Y., Ushijima, M., Narisawa, T., Kanno, H., Sakurai, T., et al. Initial Myeloid Cell Status Is Associated with Clinical Outcomes of Renal Cell Carcinoma. *Biomedicines* **2023**, 11, 1296.
- Takeda, Y., Kato, T., Sabrina, S., Naito, S., Ito, H., Emi, N., Kuboki, Y., Takai, Y., Fukuhara, H., Ushijima, M., et al. Intracellular Major Histocompatibility Complex Class II and C-X-C Motif Chemokine Ligand 10-Expressing Neutrophils Indicate the State of Anti-Tumor Activity Induced by *Bacillus Calmette–Guérin*. *Biomedicines* **2023**, 11, 3062.
- Nagashima, M., Takeda, Y., Saitoh, S., Sabrina, S., Araki, A., Nagase, S., Asao, H. A loss of tuning of both pro-coagulant and inflammatory responses in monocytes in patients with preeclampsia. *J Reprod Immunol.* 2024; 166:104334.
- Sabrina, S., Saha, S. R., Kamruzzaman, M. and Islam, M. J. Exploring the cancer-fighting properties of *Catharanthus roseus*: A natural powerhouse. *Plant Trends.* 2024; 2(4): 108-115.

## Grants obtained

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- Awarded University Stipend for both B.Sc. and M.Sc. Studies – Awarded to top 10 students in batch.
- Awarded Japanese Government Scholarship (MEXT) in 2019 for perusing doctoral study.

## Membership

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- Member of Japanese Cancer Association from 2021
- Member of Japanese Society for Immunology from 2022