

Contact Information

Dr. Md Niamul Kabir

Department of Natural Sciences

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Research Areas and Interests

Food Safety

Food Microbiology

High Pressure Processing (HPP)

Microbial Genomics

Plant Pathology

Plant Tissue Culture

Teaching

Fundamentals of Biotechnology – BIOL3000K

Cell and Molecular Biology – BIOL4701K

Genetic Engineering – BIOL4703K

Microbiology and Applications – BIOL3333K

General Botany – BIOL3300K

Introduction to Microbiology – BIOL 2211K

Human Anatomy and Physiology I&II – BIOL2411K & BIOL2412K

Introduction to Biological Sciences I & II – BIOL1111K & BIOL1112K

Principals of Biology I & II – BIOL2107K & BIOL2108K

Professional Experiences

- **Assistant Professor of Biology**
- **Postdoctoral Research Associate** – Food Safety and Food Microbiology
- **FSPCA Lead Instructor** for Human Food
- Certified PCQI - FSPCA Preventive Controls for Human Food
- Developing and Implementing HACCP Training Certified
- Certificate in Effective College Instructions from ACUE
- Graduate certificate in Applied Geospatial Information Systems (GIS)

Publications

Recent/Selected:

Publication #1: Asefaw, S.; Aras, S.; **Kabir, N.**; Wadood, S.; Chowdhury, S.; Fouladkhah, A.C. Public Health Importance of Preventive Measures for *Salmonella* Tennessee and Salmonella Typhimurium Strain LT2 Biofilms. *Microbiol. Res.* **2023**. (Accepted on May 26th 2023).

Publication # 2: Chowdhury, A., Aras, S., **Kabir, N.**, Wadood, S., Allison, A., Chowdhury, S., & Fouladkhah, A. C. (2022). Susceptibility of Pathogenic Nontyphoidal Salmonella Serovars and Avirulent Salmonella LT2 to Elevated Hydrostatic Pressure and Citricidal™. *Journal of the Tennessee Academy of Science*, 96(1), 49-54.

Publication # 3: Aras, s.; **Kabir, M.N.**, wadood, s.; george, j.; chowdhury, s.; fouladkhah, a.c. Synergistic effects of nisin, lysozyme, lactic acid, and citricidaltm for enhancing pressure-based inactivation of bacillus amyloliquefaciens, geobacillus stearothermophilus, and bacillus atrophaeus endospores. *Microorganisms* 2021, 9,653.
<https://doi.org/10.3390/microorganisms903065>

Publication #4: **Kabir, M.N.**, Aras, S., George, J., Wadood, S., Chowdhury, S., Fouladkhah, A. High-pressure and thermal-assisted pasteurization of habituated, wild-type, and pressure-stressed *Listeria monocytogenes*, *Listeria innocua*, and *Staphylococcus aureus*. *LWT- Food Science and Technology*, 2020 Oct 27:110445.. <https://doi.org/10.1016/j.lwt.2020.110445>.

Publication #5: **Kabir, M.N.**; Aras, S.; Wadood, S.; Chowdhury, S.; Fouladkhah, A.C. Fate and Biofilm Formation of Wild-Type and Pressure-Stressed Pathogens of Public Health Concern in Surface Water and on Abiotic Surfaces. *Microorganisms* **2020**, 8, 408.

Publication # 6: **Kabir, M.N.**; Aras, S.; Allison, A.; Adhikari, J.; Chowdhury, S.; Fouladkhah, A. Interactions of Carvacrol, Caprylic Acid, Habituation, and Mild Heat for Pressure-Based Inactivation of O157 and Non-O157 Serogroups of Shiga Toxin-Producing *Escherichia coli* in Acidic Environment. *Microorganisms* **2019**, 7, 145.

Publication #7: **Kabir, M.N.**; Taheri, A.; Dumenyo, C.K. Development of PCR-Based Detection System for Soft Rot Pectobacteriaceae Pathogens Using Molecular Signatures. *Microorganisms* **2020**, 8, 358.

Recent Grants

Project Title: Research Initiation Award: Enhancing the Decontamination Process of Food Borne Pathogens to Increase the Shelf Life of Food. (NSF)

Project Role: PI

Project Title: Investigating the survival, biofilm formation and gene expression profiles of selected food pathogens. (NIH – NIGMS).

Project Role: PI

Project Title: Infusion of Data Expertise into Undergraduate Biology Curriculum (DEUBiC)

Project Role: **Co-PI**

Awards and Honors

Outstanding Ph.D. Graduate Student

College of Agriculture, Human and Natural Sciences, Tennessee State University, Nashville
2016

Second Place Emerging Leader Oral Presentation

4th Annual State-Wide Competition for Food Safety Modernization Act, Food Safety, and Food Science, 2020

Second Place Student Research Competition

Southern Nursery Association Bryson L. James Student Research Competition, Ph.D. category.
2018

First Place Poster Presentation

Graduate science category at 39th Research Symposium. Tennessee State University,
2017

Third Place Oral Presentation

126th meeting of the Tennessee Academy of Science. Austin Peay State University,
2016

Second Place Oral Presentation

Graduate science category, 37th Research Symposium. Tennessee State University,
2015

National Science and Technology Fellowship

Ministry of Science and Technology, Bangladesh.
2007

Educations

PhD. Biological Science, - Tennessee State University, USA

MS. Plant Pathology - Tennessee State University, USA

GIS - Graduate Certificate - Tennessee State University, USA

MBA. Finance – University of Asia Pacific, Bangladesh

M.Sc. Plant Tissue Culture - University of Dhaka, Bangladesh

B.Sc. Plant Science - University of Dhaka, Bangladesh