CURRICULUM VITAE

PERSONAL INFORMATION



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Dept. of Applied Nutrition and Food Technology
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Research Interest: My research interests focus on functional food safety, environmental toxicology, and microbial biotechnology, with an emphasis on developing sustainable solutions for human health and environmental protection. My research also examines the mechanisms of heavy metal toxicity and their impacts on food safety and public health. In addition, I am interested in microbial bioremediation using metal-resistant bacteria, biosorption, and biotechnology-based approaches to develop sustainable remediation strategies for heavy metal-contaminated environments.

PROFESSIONAL EXPERIENCES

Position	Year	Department	Institute/University
Professor	18-09-2025-Present	Applied Nutrition and Food Technology	Islamic University, Bangladesh
Associate Professor	18-09-2020-17-09-2025	Applied Nutrition and Food Technology	Islamic University, Bangladesh
Assistant Professor	18-09-2013-17-09-2020	Applied Nutrition and Food Technology	Islamic University, Bangladesh
Lecturer	18-09-2010-17-09-2013	Applied Nutrition and Food Technology	Islamic University, Bangladesh

ACADEMIC DATA

DEGREE	TITLE	DEPARTMENT	UNIVERSITY	YEAR
PhD	Metagenomic Exploration and Artificial Design of Microbial Metallothioneins and Their Application in Bioadsorbent Materials	Environmental Biotechnology	University of Chinese Academy of Sciences, Beijing, China.	2024
Postgraduate	Formulation of flour from different cereals and observation of its impact on type-2 diabetes patients.	Applied Nutrition and Food Technology	Islamic University, Kushtia, Bangladesh	2006
Undergraduate	Green Tea and Human Health.	Applied Nutrition and Food Technology	Islamic University, Kushtia, Bangladesh	2005

SELECTED ARTICLES

1. Islam MM, Zheng X, Kimotho RN, Moniruzzaman M, Li X (2026) Design and functional assessment of novel metallothionein in bacteria for cadmium and copper bioremediation. Environmental Science and Pollution Research, 33(11):4982-4999. https://doi.org/10.1007/s11356-026-37625-y
2. Hanif MS, Tayyab M, Baillo EH, Islam MM, Islam W, Li X (2024) Plant microbiome technology for sustainable agriculture. Frontiers in Microbiology, 1500260. https://doi.org/10.3389/fmicb.2024.1500260
3. Rahman SS, Meherunnahar, Reja MM, Islam MR, Islam MM, Rouf SMA, Rahman MH (2023) Proximate nutrient analysis of elephant apple (*Dillenia indica*) fruit and its hypoglycemic, and hypolipidemic potentials in alloxan-induced diabetic rats. Food and Humanity, 1; 1355-1361. https://doi.org/10.1016/j.foohum.2023.10.003
4. Easmin A, Karim MR, Rahman SS, Hasan MM, Elahi MT, Islam MS, Islam MM, Paul DK (2023) Protective effect of *Nigella sativa* Linn seeds (black cumin seeds) fortified diet against sodium arsenite-induced toxicities. Food and Humanity, 1; 1436-1441. https://doi.org/10.1016/j.foohum.2023.10.012
5. Aktar M, Islam M, Raza M, Azhar B, Moni Z, Rahman M, Rahman A, Tang M (2022) Phytochemical characteristics and antioxidant potential of *litchi chinensis* sonn. seeds of Bangladesh. Bangladesh Journal of Agriculture, 47(1), 16-26. https://doi.org/10.3329/bjagri.v47i1.60590
6. Li X, Islam MM, Chen L, Wang L, Zheng X (2020) Metagenomics-Guided Discovery of Potential Bacterial Metallothionein Genes from the Soil Microbiome That Confer Cu and/or Cd Resistance. Applied and Environmental Microbiology, 86(9):e02907-19. https://doi.org/10.1128/AEM.02907-19
7. Islam MM, Karim MR, Zheng X, Li X (2018) Heavy Metal and Metalloid Pollution of Soil, Water and Foods in Bangladesh: A Critical Review. Int J Environ Res Public Health, 15(12):2825. https://doi.org/10.3390/ijerph15122825
8. Islam MM, Kamruzzaman M, Islam MS, Elahi MT, Rahman SS, Paul DK, Chaudhury MAZ, Rouf SMA, Samad MA (2015)1.Impact of Bread Made from Mix Cereals and Pulses on the Glycemic Profile in Type 2 Diabetic Patients - A Randomized Controlled Trial. Current Nutrition & Food Science, 11 (2); 136 – 144. https://doi.org/10.2174/1573401311666150429225904
9. Hasanuzzaman M, Kamruzzaman M, Islam MM, Khanom SAA, Rahman MM, Lisa LA, Paul DK (2014) A Study on Tomato Candy Prepared by Dehydration Technique Using Different Sugar Solutions. Food and Nutrition Sciences, 5. https://doi.org/10.4236/fns.2014.513137

10. Islam R, Mondol LK, Sheikh L, Rahman SS, Islam M, Rahman A (2013 Identification of fatty acid profile, lipid characterization and nutritional status of *Clarias batrachus*. Nutritional Science and Food Technology 1(1).