# Dr. Md. Jahangir Alam

*Curriculum Vitae, August 2026*

***Associate Professor***
*Dept. of Food Technology and Nutritional Science (FTNS)*
*Mawlana Bhashani Science and Technology University (MBSTU)*
*Tangail-1902, Bangladesh*
*Cell: +8801721083424*
*Skype: Jahangirftns@gmail.com*
*Email: jahangirftns@gmail.com*
*jahangir@mbstu.ac.bd*




## Personal Status

Given Name: **Md. Jahangir**
Last Name: **Alam**
Date of Birth: **July 21, 1988**
Nationality: **Bangladeshi**
Passport No: **EL0353539**

## Education

Period Attended

2021-2026 **Doctor of Philosophy (PhD)**
Major: Bioresources Science; Specialty: Biomolecular Function
The United Graduate School of Agricultural Science, Iwate University, Japan

2013-2015 **MS in Food Technology and Nutritional Science**
Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.

CGPA: **3.96/4.00**; Position: **2nd**; Duration: **1.5 years**; Session: **2010-2011**

2007-2012 **B. Sc. (Hons.) in Food Technology and Nutritional Science**
Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh.

CGPA: **3.91/4.00;** Position:**1st**; Duration: **4 years**; Session: **2006-2007**

2004-2006 **Higher Secondary Certificate (Science Major)**
Thakurgaon Govt. College, Thakurgaon -5100, Bangladesh.

CGPA: **5.00/5.00**; Duration: **2 years**

1999-2004 **Secondary School Certificate (Science Major)**
Bairati High School, Boda, Panchagarh-5000, Bangladesh.

CGPA: **4.50/5.00**; Duration: **5 years**

## Scholarships and Awards

- **Prime Minister Gold Medal 2013** for securing the highest CGPA in B. Sc. (Hons.) examination in the Faculty of Life Science, MBSTU, Tangail-1902, Bangladesh.
- **Vice-Chancellor's Award** in recognition of the greatest achievement among all the graduates of the Master's Examination 2012, Faculty of Life Science, MBSTU, Tangail-1902, Conferred on 13 June 2015.
- **University Merit Scholarships** for obtaining highest GPA in the faculty of Life Science in 2nd, 3rd and 4th year final examinations, MBSTU, Tangail-1902, Bangladesh.

## Research Publication

1. **Md. Jahangir Alam**, Naoya Kodama, Kazuma Ikeda, Kanami Muraki, Yudai Higuchi, Masaya Fujita, Naofumi Kamimura, Eiji Masai, Hiroyuki Kurihara, and Tomonori Sonoki. **Selective vanillate production from sugarcane bagasse-derived aromatic compounds using an engineered *Pseudomonas* sp. NGC7-based strain.** *Journal of Bioscience and Bioengineering*. 2026. 141(2), 125-134

   DOI: https://doi.org/10.1016/j.jbiosc.2025.11.001

2. Khan Md Murtaja Reza Linkon, Md Faridul Islam, **Md Jahangir Alam**, Rehnova Mustafa, Faruk Hosen, Syeda Huraiya Hasan Nishi, Md Abdul Alim. **Effects of plant-based high-fiber diet on blood cholesterol profile and cardiovascular health in growing Long Evans rats**. *Clinical Nutrition Open Science.* 2024. 55 (2024) 149e162

   DOI: https://doi.org/10.1016/j.nutos.2024.03.015

3. Md Abdul Alim, Tarana Jannat Mumu, Ummay Salma Tamanna, Md Moin Khan, Md Imran Miah, Md Shahikul Islam, Zannat Ara Jesmin, Tayeba Khan, Md Rakibul Hasan, **Md Jahangir Alam**, Khan Md Murtaja Reza Linkon, Md Nannur Rahman, Rokeya Begum, Utpal Kumar Prodhan. **Hypolipidemic effect and modulation of hepatic enzymes by different edible oils in obese Wistar rats**. *Helion*. 2024; 10: e25880.

   DOI: https://doi.org/10.1016/j.heliyon.2024.e25880

4. Md Abdul Alim, Tarana Jannat Mumu, Ummay Salma Tamanna, Md Moin Khan, Md Imran Miah, Esrafil, M., Akter, S., Alam, M.J., Alim, M.A., Reza, M.S.A., Zubair, M.A., Joy, P.R., Jahan, M. and Khatun, M. **Development and quality evaluation of novel biscuits by utilizing fruits and vegetables seed.** *Food Research* 8 (1) : 181 - 189

   DOI: https://doi.org/10.26656/fr.2017.8(1).090

5. **Md. Jahangir Alam,** Md. Kamrul Hasan, Md. Abdul Alim, Shamoli Akter, Khan Md. Murtaja Reza Linkon & Utpal Kumar Prodhan. **Rice bran oil reduces organ-specific fat deposition, attenuates hyperlipidaemia and abnormal liver function in Long Evans rats with high fat intake**. *Malaysian Journal of Nutrition*. 2023; 29(3): 481-492.

   DOI: https://doi.org/10.31246/mjn-2022-0133

6. Shaha A; M. Esrafil; S. Akter; L. Bari; M.S.H. Khan; M.J. Alam; P.R. Dina; M.A. Zubair . **Determination of sodium benzoate in different brands of orange juices available in Bangladesh by high-performance liquid chromatography.** *Food Research* 8 (1) : 313 - 318

   DOI: https://doi.org/10.26656/fr.2017.8(1).198

7. Md. Zakir Hossain, Farhana Easmin, Sakirul Islam Bhuiyan, Md. Abdul Alim, Shamoli Akter, Md. Jahangir Alam, Md. Nannur Rahman and Md. Azizul Haque. **Study on Tea Consumption Behavior During the Covid-19 Pandemic and the Analysis of the Antioxidant Activity and Bioactive Compounds of Flavoring Ingredients of Tea.** *Current Research in Nutrition and Food Science*. 2024; 11(1): 434-444.

   DOI: http://dx.doi.org/10.12944/CRNFSJ.11.1.33

8. Juthi Mirza, Masuda Sultana, Md. Esrafil, Shamoli Akter, Md. Jahangir Alam, Md. Shahinul Haque Khan and Md. Abu Zubair. **Rapid High-Performance Liquide Chromatographic Method for Quantitative Determination of Caffeine in Different Soft and Energy Drinks Available in Bangladesh.** *Current Research in Nutrition and Food Science*. 2021; 9(3): 1081-89.

DOI: http://dx.doi.org/10.12944/CRNFSJ.9.3.33

9. Khan, M.S.H, Zubair, M.A; Haque, M.A., Alam, M.J., Akter, S., Esrafil, M.. **Identification and quantification of sodium benzoate in soft drinks available in Tangail region by high-performance liquid chromatography.** *Food Research*. 2022, 6 (3) : 220-225

DOI: 10.26656/fr.2017.6(3).348

10. Md. F. Islam, Khan Md. M.R. Linkon, Md. Shyfullah, Mehedi Hassan, Md. E.S. Aoual and Md. J. Alam. **Association of Dietary Patterns with Glycated Hemoglobin (HbA1c) among Type 2 Diabetes Patients: A Cross-sectional Study.** *Current Nutrition & Food Science*, 2021, 17(7); 716 – 726

Doi: https://doi.org/10.2174/1573401317666210222101504

11. **Md. Jahangir Alam**, Shamoli Akter, Shohana Afroze, Md. Tarikul Islam, Emdadul Haque Sayeem. **Development of Fiber and Mineral Enriched Cookies by Utilization of Banana and Banana Peel Flour**. *Journal of microbiology, biotechnology and food sciences*. 2020; 13(30): 329-334.

DOI: https://doi.org/10.15414/jmbfs.2020.10.3.329-334

12. Shamoli Akter, **Md. Jahangir Alam**, Salamatullah, Rehnova Mustafa, Faruk Hosen, A.K. Obidul Huq. **Enhancing Bioactive Compound and Antioxidant Activity of Cake by Using Pumpkin Powder**. *Current Nutrition & Food Science*. 2020; 16(1): 1-8.

DOI: https://doi.org/10.2174/1573401316666200326121236

13. Dilruba Akter, Rokeya Begum, Md. Nannur Rahman, Nasim Talukder, **Md. Jahangir Alam**. **Optimization of Extraction Process Parameter for Rice Bran Protein Concentrate and its Utilization in High Protein Biscuit Formulation**. *Current Research in Nutrition and Food Science*. 2020; 8(2):596-608

DOI: http://dx.doi.org/10.12944/CRNFSJ.8.2.25

14. **Md. Jahangir Alam,** Aslam Uddin, Uzzal Chakraborty, Tanvir Mahmud, Mohammad Nazim Khan, Shamoli Akter. **Study on Contamination, Source and Microbial Quality of Selected Street Fruit Juices and Sherbet in Tangail City.** *Research & Reviews: Journal of Food Science and Technology.* 2018; 7(1): 01-08.

DOI: https://doi.org/10.37591/rrjofst.v7i1.179

15. U. K. Prodhan, **Md. Jahangir Alam**, Abida Sultana, Md. Harun-Ar Rashid, Tumpa Das, Nargis Akter, Mohammad Mahfuzur Rahman. **Quality Assessment of Sweetmeat (Rosogolla) Of Dhaka and Tangail Region of Bangladesh.** *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT).* 2017; 11(7): 06-11.

DOI: 10.9790/2402-1107010611.

16. Utpal Kumar Prodhan, **Md. Jahangir Alam**, Munira Khandakar Sadia, Sayeda Sultana, Md. Abdul Hye, Md. Shabudden Ahamed. **Study on the quality of commercial market milk available in Bangladesh.** *Annals. Food Science and Technology*. 2016; 17(2): 293-298.

DOI: https://europub.co.uk/articles/204272

17. Nusrat Jahan Mukta, Shukla Rani Das, Md. Ahmed Hossain Nasreen Jahan, **Md. Jahangir Alam. Comparative Analysis of Nutrient Content and Cooking Characteristics between Binamoog and Sonamoog of Bangladesh.** *Research & Reviews: Journal of Food Science and Technology.* 2016; 5(2): 1-9.

DOI: https://doi.org/10.37591/rrjofst.v5i2.433

18. Utpal Kumar Prodhana, Khan Md. Murtaja Reza Linkon, Md. Akhterujjaman, **Md. Jahangir Alam. Performance Analysis of Industrially and Traditionally Used Cultures in Yogurt Production Considering Microbial Risk.** *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS).* 2015; 12 (1): 92-99.

    DOI: http://asrjetsjournal.org/

19. U.K. Prodhan, K.M.M.R. Linkon, Md. Fardos Al-Amin, **Md. Jahangir Alam. Development and quality evaluation of mushroom (*pleurotussajor-caju*) enriched biscuits.** *Emirates Journal of Food and Agriculture*. 2015; 27(7): 542-547. doi: 10.9755/ejfa.2015.04.082.

    DOI: https://doi.org/10.9755/ejfa.2015.04.082

20. Md. Ariful Alam, **Md. Jahangir Alam,** Md. Abdul Hakim, A. K. Obidul Huq, S. M. Golam Moktadir. **Development of Fiber Enriched Herbal Biscuits: A Preliminary Study on Sensory Evaluation and chemical Composition.** *International Journal of Nutrition and Food Sciences*. 2014; 3(4): 246-250.

    DOI: https://doi.org/10.11648/j.ijnfs.20140304.13

## Abstracts Published in Conferences

1. Md. Majharul Islam, Md. Jabbar Hossain, Nadira Tanzum Urmi, Nargis Akter and **Md. Jahangir Alam**. Comparative Assessment of Natural and Artificially Ripened Tomatoes and Effects on Storage Life. In: abstracts of the 1st international Conference on Advancement of Life Science, 5-6 April 2019. Organized by Faculty of Life Science, MBSTU, Bangladesh
2. Mesbah Uddin Talukder, Md. Nannur Rahman, **Md. Jahangir Alam**, A. K. Obidul Huq. KAP studies on HIV/AIDS and Food intake pattern among Transport drivers in selected two ares of Bangladesh. In: abstracts of the 1 st international Conference on Food Safety, Nutrition and Public Health: present scenario and future chalenges, 27 November 2016. Jointly Organized by dept. of FTNS, MBSTU, Tangail-1902, Bangladesh and Higher Education Quality Enhancement Project (HEQEP), UGC, Dhaka, Bangladesh.
3. A. K. Obidul Huq, **Md. Jahangir Alam,** MU Talukder. "Health Care and Nutritional Knowledge among Selected Pregnant Women at Tangail District, Bangladesh. In: abstracts of the 4th Regional Public Health Conference, March 2014. Jointly Organized by Bangladesh University of Health Science and Department of International Health, University of Oslo, Norway.

## Number of Research Publication

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|---|---|
| Total Number of Publications | **20** |
| Number of publications in **ISI/Scopus** indexed journals | **14** |
| Citations in Scopus | **100** (Scopus) https://www.scopus.com/authid/detail.uri?authorId=58730405600<br>**301** (Google Scholar) https://scholar.google.com/citations?user=dD89bfYAAAAJ&hl=en |

## Research Interest

- Bioresources Science
- Biomolecular Function
- Bioactive compound
- Functional food

## Research Experience

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|---|---|
| PhD Thesis Title | Selective vanillate production from sugarcane bagasse-derived aromatic compounds using an engineered *Pseudomonas* sp. NGC7-based strain |
| MS Dissertation Title | Rice bran oil has hypolipidemic effect and helps to reduce organ specific fat deposition in obese Long Evans rats. |
| B.Sc. (Hons.) Dissertation Title | Development of Fiber Enriched Herbal Biscuits: A Preliminary Study on Sensory Evaluation and chemical Composition. |

## Research Project Experience

**Research completed as Principal Investigator**

Jul./ 2025-Jun. 2025
- Vanillic Acid Production from the Agricultural Residue of Sugarcane Bagasse and Rice Husk funded by Research Cell, Mawlana Bhashani Science & Technology University Technology, Santosh, Tangail-1902, Bangladesh.

Jul./ 2020-Jun. 2021
- Bioactive Compound and Antioxidant Activity of Locally Consumed Fruits and Vegetables in Bangladesh funded by Research Cell, Mawlana Bhashani Science & Technology University Technology, Santosh, Tangail-1902, Bangladesh.

Jul./2017–Jun./2018
- Effect of Mixing Wheat Flour with Pumpkin and Dates on Antioxidant and Beta-carotene Content of Low Sugar Cake, funded by Research Cell, Mawlana Bhashani Science & Technology University Technology, Santosh, Tangail-1902, Bangladesh.

Jul./ 2018-Jun. 2019
- Microbial Safety, Proximate Analysis and Sensory Properties of Nutritionally Enriched Cookies by Utilization of Banana and Banana Peel Flour funded by Research Cell, Mawlana Bhashani Science & Technology University Technology, Santosh, Tangail-1902, Bangladesh.

Jul./ 2015-Jun. 2016
- Identification of possible contamination sources and Assessment of microbial quality of juices sold by street vendors in Tangail City, funded by Research Cell, Mawlana Bhashani Science & Technology University Technology, Santosh, Tangail-1902, Bangladesh.

**Research completed as Co-Investigator**

Jul./ 2018-Jun. 2019
- Study on hypolipidemic effect, lipid lowering capacity from different fat depots and modulation of hepatic enzymes of different edible oils on obese Long Evans rats, funded by Ministry of Science and Technology, Government of Bangladesh.

- Effects of plant-based high-fiber diet on blood cholesterol profile and cardiovascular health in growing Long Evans rats funded by Ministry of Science and Technology, Government of Bangladesh.

## Work Experience

| | |
|---|---|
| Aug. /2023-till date (**4 years**) | **Associate Professor**<br>Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh. |
| Aug. /2017-Aug 2023 (**4 years**) | **Assistant Professor**<br>Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh. |
| Jul. /2015-Aug./2017 (**2 years**) | **Lecturer**<br>Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail-1902, Bangladesh. |
| May. /2014-Mar./2015 (**9 months**) | **Part-time Instructor**<br>Diploma in Food Technology Department, Oxford College of Science and Technology, Tangail-1902, Bangladesh. |

## Teaching Experience

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|---|---|
| (Jan. to June 2026) | FTNS 4201: Food Packaging, 4th Year 2nd Semester |
| | FTNS 5203: Technology of Meat and Poultry Products, 3rd Year 2nd Semester |
| (Jul. to Dec 2025) | FTNS 4201: Sugar Technology, 3rd Year 1st Semester |
| | FTNS 5203: Novel Food Processing, MS 2nd Semester |
| (Jan. to June 2019) | FTNS 3105: Food Plant Engineering, 3rd Year 1st Semester |
| | FTNS 4201: Food Packaging, 4th Year 2nd Semester |
| (Jan. to June 2018) | FTNS 3105: Food Plant Engineering, 3rd Year 1st Semester |
| (July to Dec. 2017) | FTNS 2103: Fruits and Vegetable Technology, 2nd Year 1st Semester |
| | FTNS 4207: Applied Nutrition II, 4th Year 2nd Semester |
| (Jan. to June 2016) | FTNS 3105: Food Plant Engineering, 3rd Year 1st Semester |
| | FTNS 4103: Nutrition in emergencies, 4th Year 1st Semester |

## Participation in Training/ Conferences/ Workshops

| | |
|---|---|
| 02 to 03 Jan./2020 | • **Workshop on Introduction to STATA** organized by Global Public Health Research Foundation, Bangladesh, Venue: Uttara (Sector-10), Dhaka. |
| 04 to 05 Jan./2020 | • **Workshop on Systematic Review and Meta-analysis** organized by Global Public Health Research Foundation, Bangladesh, Venue: Uttara (Sector-10), Dhaka. |
| 06 to 08 Jan./2020 | • **Workshop on Epidemiology and Biostatistics** organized by Global Public Health Research Foundation, Bangladesh, Venue: Uttara (Sector-10), Dhaka. |
| 23 to 24 April/ 2019 | • **Training on HPLC Analysis of Vitamin A and E in Edible Soybean Oil and Rice**. Jointly organized by Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University and Ministry of Education, Bangladesh. |
| 05 to 06 April/ 2019 | • **International Conference on Advancement of Life Science.** Organized by Faculty of Life Science, Mawlana Bhashani Science and Technology University, Bangladesh. |
| 24 to 25 April/ 2018 | • **Workshop on Instrumental Analysis of Bioactive Compounds and Food Additives.** Organized by Department of Food Technology and Nutritional Science (FTNS). Venue: Conference Room, Dept. of FTNS, Mawlana Bhashani Science and Technology University, Bangladesh. |
| 06 Mar./ 2018 | • **Workshop on Research Methodology and E-Research.** Jointly organized by Institutional Quality Assurance Cell, Mawlana Bhashani |

Science and Technology University, Tangail-1902, Bangladesh and Higher Education Quality Enhancement Project (HEQEP) project, University Grants Commission of Bangladesh, Dhaka, Bangladesh.

28 Oct. to 02 Nov./ 2017

- **66th training program of NITUB on the Use, maintenance and troubleshooting of common medical instruments.** Organized by Network of Instrument Technical Personnel and User Scientist of Bangladesh (NITUB). Venue: Bangladesh University of Health Science, Dhaka, Bangladesh.

## Memberships

| | |
|---|---|
| **Founding Mentor** | • Nutrition Club of MBSTU, Tangail, Bangladesh |
| **Organizing Secretary** | • MBSTU Debating Society, MBSTU, Tangail, Bangladesh |
| **Rotaractor** | • Rotaract Club of Mawlana Bhashani Tangail. RI District-3282, Bangladesh. |
| **Advisor** | • Badhan Mawlana Bhashani Science and Technology University Unit. |
| **Advisor** | • Prothom Alo Bandhushova, MBSTU unit |
| **Advisor** | • Come for Road Children, MBSTU unit, Bangladesh |

## Computer Expertise

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|---|---|
| Operating System | • Microsoft Windows |
| Software Package | • Very good command on Microsoft Office tools SPSS, WHO anthro software, Mendeley reference management software. |
| | • Very good typing speed (English): 50 word per minute |

## Language Proficiency

| | |
|---|---|
| Mother Tongue | • Bengali |
| Other Language | • English |

## References

**Dr. Rokeya Begum**

Professor
Department of Food Technology and Nutritional Science (FTNS)
Mawlana Bhashani Science and Technology University (MBSTU)
Tangail-1902, Bangladesh
Email: rokeya_ftns@mbstu.ac.bd; rokeya15@yahoo.com
Cell: +8801711588314

**Dr. Tomonori Sonoki**

Professor
Department of Biochemistry and Molecular Biology
Faculty of Agriculture and Life Science
Hirosaki University
3 Bunkyo-cho, Hirosaki, Aomori 036-8561, JAPAN.
Email: sonokit@hirosaki-u.ac.jp