Resume of

Md. Tazul Islam Chowdhury, *PhD*

Professor & Ex-Chairman, Dept. of Agricultural Chemistry,
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Field of Interest:

Heavy metal analysis, Safe food production, Pesticide residue analysis, Food Toxicology, Analytical Chemistry, Sustainable uses of agro chemicals, Organic Synthesis, Environmental pollution etc.

Laboratory Skills:

Collection, preparation and digestion of food and plant samples. Expertise on analyzing the sample analytical techniques, UPLC techniques, AAS machine techniques, Chromatographic techniques etc.

Academic Qualification:

Subject	**Name of Degree**	**Board/ University**	**Country**	**Division/ Class**	**Year of Graduation**
Post-Doctoral Training on Food Safety	Equivalent to Post Doc.	Wagenengine University &Research (WUR)	Netherlands	Awarded	2023
Agriculture	PhD	Ehime University	Japan	Awarded	2017
Applied Bio-resource Science	MSc	Kagawa University	Japan	Awarded (90 % Marks)	2014
Agril. Chemistry	MS	SAU, Dhaka	Bangladesh	CGPA 3.69 (80-90 % Marks)	2008
Agriculture	B.Sc.Ag (Hons.)	SAU, Dhaka	Bangladesh	First Class with Merit Position	2003 (Held in 2005)
Science	HSC	Dhaka	Bangladesh	First Class	1999
Science	SSC	Cumilla	Bangladesh	First Class* (856 Marks)	1997

Core Qualifications

- ✓ Extensive knowledge on food safety, sanitation and environmental pollution
- ✓ Good research and writing skills
- ✓ Excellent interpersonal and oral communication skills
- ✓ Able to conduct audits of food preparation, sanitation and safety
- ✓ Monitoring and Supervision
- ✓ 20 years' experience in research and teaching
- ✓ 28 MS students supervised

Previous experiences:

- ✓ Research Associate: 05.01.2005 to 10.01.2007
- ✓ Lecturer: 11. 01. 2007 to 13.08.2008
- ✓ Assistant Professor: 14.08.2008 to10.01.2016
- ✓ Associate Professor: 11.01.2016 to 10.01.2020
- ✓ Professor: 11.01.2020 to till date

List of publications

Total Number of publications (National and International): 43 +2 = 45

Published Book Chapter:

Abu Naim Md. Muzahid, Yusha Araf, Nur Uddin Mahmud, Aniruddha Sarker, Fariya Akter, **Md. Tazul Islam Chowdhury**, Muhammad J.A. Shiddiky, Hossain Sohrawardy, Moutoshi Chakraborty, Tofazzal Islam, (2023) Chapter 24-Potentials of mycosynthesized nanomaterials for efficient remediation of environmental contaminants, Editor(s): Kamel A. Abd-Elsalam, In Nanobiotechnology for Plant Protection, Fungal Cell Factories for Sustainable Nanomaterials Productions and Agricultural Applications, Elsevier, 2023, Pages 693-724, ISBN 9780323999229, https://doi.org/10.1016/B978-0-323-99922-9.00015-5.

Published (Related Paper Only) in a Journal:

1. **Md. Tazul Islam Chowdhury** and Md. Anisur Rahman (2024). Health risk assessment of Organophosphorus Pesticides of Country Bean and Bitter Guard. *Nature Study Digest*, 7(1): 104-114.
2. Sadia Samma, Md. Sirajul Islam Khan, **Md. Tazul Islam Chowdhury**, Mohammed Ariful Islam, Jerker Fick and Abdul Kaium (2024). Evaluating Soil-Vegetable Contamination with Heavy Metals in Bogura, Bangladesh: A Risk Assessment Approach. Environmental Health Insights. 18: 1–13. https://doi.org/10.1177/117863022412826
3. Tajnin Jahan, Sabina Yasmin, Md Aftab Ali Shaikh, Md Jubayer Ibn Yousuf, Md Saidul Islam, **Md Tazul Islam Choudhury**, Md Humayun Kabir (2023). Development and validation of a modified QuEChERS method coupled with LC-MS/MS for simultaneous determination of difenoconazole, dimethoate, pymetrozine, and chlorantraniliprole in brinjal

collected from fields and markets places to assess human health risk. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e14972

4. Surovi Kabir, Abdul Kaium, **Md. Tazul Islam Chowdhury**, Mohammed Ariful Islam, Simana Akter Bhuiyab, Md. Wadud Ahmed, Md. Nurul Kadir, Md. Moniruzzam and Md. Sirajul Islam Khan (2022). Environmental pollution, ecological and human health risk assessment of heavy metals in rice farming system near the Buriganga River in Dhaka, Bangladesh. International Journal of Environmental Analytical Chemistry. 104(11): 2593-2612.
5. Anisur Rahman, Abdul Kaium, Md. Sirajul Islam Khan**,** Mohammed Ariful Islam, Noorjahan Begum, M.D.H. Prodhan, A. Hossain, S.S.B. Mustafiz, and **M.T.I. Chowdhury** (2021). Residue level and health risk assessment of organophosphorus pesticides in country bean and bitter gourd collected from Cumilla, Bangladesh. Food Research. 5(6): 238-246.
6. Marzia Habib, Abdul Kaium, Md. Sirajul Islam Khan**, Tazul Islam Chowdhury**, MDH Prodhan, Mohammed Ariful Islam (2021). Residue level and health risk assessment of organophosphorus pesticides in eggplant and cauliflower collected from Dhaka city, Bangladesh. Food Research. 5(3):369-377.
7. Md. Sirajul Islam Khan, Abdul Kaium, Bittam Kumar Sarkar, Rokeya Begum, Noorjahan Begum, Mohammed Ariful Islam, **Md. Tazul Islam Chowdhury**, Marzia Habib and Md. Abdul Hakim (2021). Potencies of *Justicia adhatoda* L. for its possible phytotoxic activity. Plant Science Today. 8(2): 289-292.
8. **M.T.I.Chowdhury**, M.S.I. Khan, M.A. Islam, S.S.B. Mustafiz and Y. Kawanami, (2020). Efficacy of some common medicinal plants for its possible inhibitory activity. J. Sher-e-Bangla. Univ., 11 (1&2): 47-51.
9. Tanzin Chowdhury, M. A. H. Chowdhury, Md. Arifur Rahman, Kamrun Nahar, **Md. Tazul Islam Chowdhury** and Md. Sirajul Islam Khan (2020). Response of *Aloe Vera* to Inorganic and Organic Fertilization in Relation to Leaf Biomass Yield and Post-Harvest Fertility of Soil. Bulgarian Journal of Agricultural Sciences. 26(2): 346-354.
10. Must Alima Rahman, Mohammed Ariful Islam, Mohammad Tipu Sultan, Abu Hena Mostofa Kamal, Ruhul Amin Khan, Mohammad Razzak, **Md. Tazul Islam Chowdhury**, Md. Sirajul Islam Khan**,** Mohammad Zahirul Islam Mollah (2019). Assessment of Chitosan as Preservative on Shelf Life and Major Nutrient Contents on Fruits and Vegetables. American Journal of Agricultural Science. 6(1): 1-10.
11. Mohammed Ariful Islam, Ahammad Ullah, Marzia Habib, **Md. Tazul Islam Chowdhury**, Md Sirajul Islam Khan, Abdul Kaium, Mohammad Dalower Hossain Prodhan (2019). Determination of major organophosphate pesticide residues in cabbage collected from different markets of Dhaka. Asia Pacific Environmental and Occupational Health Journal (APEOHJ). 5(2): 30-35.
12. **Md. Tazul Islam Chowdhury**, Hikaru Ando, Ryo C. Yanagita and Yasuhiro Kawanami (2018). Synthesis and inhibitory activity of deoxy-D-allose amide derivative against plant growth. Bioscience, Biotechnology and Biochemistry. 82(5):775-779.

13. Harauchi Yamaashi, **Md. Tazul Islam Chowdhury**, RC Yanagita and Yasuhiro Kawanami(2017). Inhibitory activity of 6-*O*-decyl-D-allose and 6-(decanoylamino)-6-deoxy-D-allose against plant growth. Technical Bulletin Faculty of Agriculture, Kagawa University 69:17–22.
14. Nahid Sultana, Md. Abdur Razzaque, **Md. Tazul Islam Chowdhury**, Md. Abdul Owhab Mridha and Tuhin Suvra Roy (2019). Effect of Nitrobenzene on Plant Growth, Yield and Minerals Content of Tomato. Journal of Experimental Biosciences. 10 (2):
15. **Md. Tazul Islam Chowdhury**, Madoka Naito, Ryo C. Yanagita and Yasuhiro Kawanami (2015). Synthesis of 6-*O*-decanoyl-D-altrose and 6-*O*-decanoyl-D-gulose and evaluation of their biological activity on plant growth. Plant Growth Regulation. 75(3): 707-713.
16. **M.T.I Chowdhury**, M.A. Razzaque, Nasim Sultana, S.S.B. Mustafiz, Shakila Akter, Ayesha Akter and Md. Rafiqul Islam (2013). Chlorinated Pesticide Residue Status in Some Winter Vegetables. International Journal of Agriculture and Crop Sciences. 6(11): 667-675.
17. MSI Khan, MA Razzaque, **MTI Chowdhury** and Mirza Hasanuzzaman (2011). Ionic toxicity assessment of water sources and their suitability for irrigation, drinking, livestock and industrial purposes. Journal of Experimental Sciences. 2(1):16-20.
18. **MTI Chowdhury**, MA Razzaque, and MSI Khan (2011). Chlorinated pesticide residue status in tomato, potato and carrot. Journal of Experimental Sciences. Journal of Experimental Sciences. 2(1):1-5.
19. MSI Khan, MA Razzaque, **MTI Chowdhury** and AR Mazumder (2010). Toxicity assessment of ground water in different aquifers of Kushtia district in Bangladesh. Bangladesh Journal of Progressive Science & Technology. 8(1):153-156.
20. **M.T.I. Chowdhury**, A.H.M. Solaiman, Naheed Zeba, Mirza Hasanuzzaman, S. S. B. Mustafiz and Kamrun Nahar (2009). Determining the Status of Chlorinated Pesticide Residue in Some Leafy Vegetables. Journal of Ecobiotechnology. 1(1): 41-45.
21. Munjuri Akter, Simana Akter Bhuiya, Mehedi Amin, Mohammed Ariful Islam, **Tazul Islam Chowdhury**, Sirajul Islam Khan, Mohammed Sakhawat Hossain, Abdul Kaium (2024) Assessing Quality and Safety: Mineral and Metal Content in Local and Imported Honey from Dhaka City. (Submitted)
22. Dr. Mohammed Ariful Islam, **Dr. Tazul Islam Chowdhury** (2022). Food Safety and Role of Home Kitchens. The Daily Sun, Editorial, 01 February.
23. **ড. তাজুল ইসলাম চৌধুরী তুহিন** (২০২২). নিরাপদ ও পুষ্টিকর খাদ্য এখন সময়ের দাবী, দৈনিক ইত্তেফাক সম্পাদকীয় (০২ ফেব্রুয়ারী, ২০২২)
24. **তাজুল ইসলাম চৌধুরী তুহিন**, মোহাম্মদ আরিফুল ইসলাম ও আবুল হাসনাত সোলায়মান (২০১৮), আম নিয়ে আর কোন বিভ্রান্তি নয়, দৈনিক প্রথম আলো (০৪ জুন, ২০১৮)।
25. ড. **তাজুল ইসলাম চৌধুরী তুহিন** (২০২০) আম নিয়ে ভীতি নয়, দৈনিক যুগান্তর (০৭ জুলাই, ২০২০)
26. ড. **তাজুল ইসলাম চৌধুরী তুহিন**, ড. মোহাম্মদ আরিফুল ইসলাম ও আব্দুল কাইউম (২০২০), আমে কেমিকেল ব্যবহার করা কি ক্ষতিকর? জাগো নিউজ ২৪.কম (৩০ জুন, ২০২০)

27. ড. **তাজুল ইসলাম চৌধুরী তুহিন**, ড. মোহাম্মদ আরিফুল ইসলাম ও আব্দুল কাইউম (২০২০), আমে কেমিকেল ব্যবহার হলেই ক্ষতিকর নয়, কালের আলো.কম (২৭ জুন, ২০২০)

Book Published: 01

1. **Md. Tazul Islam Chowdhury (2016)** Status of Chlorinated Pesticide Residue in Some Selected Vegetables. LAP LAMBERT Academic Publishing

Completed National and International Research Project: 8

1. Sub Project Title: Determination of Aflatoxins in Cereal Crops and Their Processed Foods in Bangladesh. Project number: OKP-BGD-10065, Funded by: Nuffic (Natherlands)
2. Enhancing Food Safety TVET and Higher Education in Bangladesh, Sher-e-Bangla Agricultural University. (coordinator), OKP-BGD-10065, Funded by: Nuffic (Natherlands)
3. Analysis of Pesticide Residues in Green Chilli and Coriander Collected from Gopalganj District of Bangladesh. Funded by; University Grants Commission (2020-2021)
4. Evaluation of Heavy Metal Pollution in Water and Sediment of Balu River with Possible Health Risks. Funded by; University Grants Commission (2022-2023)
5. "Yield and Quality Improvement of Tomato Using Plant Growth Regulator. Funded by Ministry of Science and Technology (2018-2019).
6. Determination of Pesticide Residues in Some Summer Vegetables Collected From Cumilla District of Bangladesh. Funded by Ministry of Science and Technology (2018-2019).
7. Effect of Glyphosate Herbicide on Phosphorus Availability and Yield Attributes of Wheat. Funded by Ministry of Science and Technology (2021-2022).
8. Assessment of Heavy Metal Contamination in Raw Milk for Human Consumption Collected From Surroundings of Dhaka City. Funded by Ministry of Science and Technology (2023-2024).

Professional Trainings (International):

- Instrumental residue analysis of tetracyclines in animal products, 26-30 September'2022, WFSR, The Netherlands.
- 33rd Understanding Training Course on ISO/IEC 17025:2017, 12-14 October'2020, Bangladesh Accreditation Board.
- Good Agricultural Practices for the Production of Safe Food, 27-28 October'2019, Bangladesh Food Safety Authority.
- Basic Food Hygiene, HACCP and Inspection System, 03-04 September, 2019, Kansas State University, USA.

- Pesticide Residue Analysis in Fruits Using QuEChERS Extraction and Gas Chromatography. 25-29 November' 2018, Bangladesh Agricultural Research Institute (BARI).
- Molecular Techniques with a Focus on Cell Culture, June 11 to July 10, 2018, Kagawa University, Japan.
- Detection of Environmental Pollutants and Monitoring of Health Effects, February 5-16, 2018, Chulabhorn Research Institute, Thailand.
- Arsenic in Drinking Water, Soil and Food Crops in Southeast Asia, 17-20 April, 2011, Centre for Environmental Risk Assessment and Remediation (CERAR), University of South Australia.

On-going Research:

- Micro-pollutant analysis in the river of Bangladesh, Jointly working with Umea University, Sweden
- Heavy metal analysis in Milk
- Heavy metal analysis in Water, sediment and Fish collected from different river

Coordinator, Food Safety Laboratory, Sher-e-Bangla Agricultural University

Personal Information:

- Date of Birth: 31 December 1981
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- Permanent Address: Village-Pairangkul, P.O. Boroshalghar, P.S. Debidwar, District: Cumilla.
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