

## CURRICULUM VITA OF MONIRUL ISLAM DEPUTY DIRECTOR OF RDA, BOGURA



1. Applicants Name : Monirul Islam, *PhD*
2. Date of Birth : 8<sup>th</sup> November, 1989
3. Field of Specialization : Agro (Food) Processing, Post-harvest Technology, Food Safety, Rural e-Commerce, Personal Development
4. Academic Qualifications:

Degree/ Examination	Institution (University / College/ School / Department)	Program Duration	Class/Division / GPA (Percent Marks where applicable)	Year
Ph.D. in Agro-products Processing & Utilization	Institute of Food Science & Technology, Chinese Academy of Agricultural Sciences, Beijing, China	4 years	-	2023
M. Engg. in Food Science and Engineering	School of Food Science and Technology, Jinagnan University, Wuxi, China	3 Years	84% marks	2019
BSc Food Engineering	Department of Food Technology and Rural Industries, Bangladesh Agricultural University, Mymensingh	4 years	CGPA 3.453 out of 4.00	2012
HSC (Science)	Rajshahi Board	2 years	GPA 4.80 out of 5.00	2007
SSC (Science)	Rajshahi Board	10 years	GPA 5.00 out of 5.00	2005

5. Experiences including Research and Training:

Position	Organization	Duration	Part Time/Full Time
PhD Research Fellow	Chinese Academy of Agricultural Sciences, Beijing, China	4 years	Full Time
Masters Research Fellow	Jinagnan University, Wuxi, China	3 years	Full Time
Research Fellow	Central Institute of Agricultural Engineering (CIAE), ICAR, Bhopal, India	15 days	Full Time
Training Fellow	Egyptian International Centre for Agriculture, Cairo, Egypt	60 days	Full Time
Training Fellow	National Institute of Micro Small and Medium Enterprise, Hyderabad, India	60 days	Full Time

6. Membership / Fellowship of Learned Societies, Professional Institutions and Other Noteworthy Affiliations, etc.:
  - **Member**, Krishibid (Agriculturist's) Institution, Bangladesh (Bogura Chapter)
  - **Member**, Bangladesh Society for Food Engineering & Technology
  - **Member**, The Institute of Engineers, Bangladesh

7. Professional Awards / Honours Received:
- Jiangnan University President Scholarship award (2017-2018)
8. Professional Work at National and International Levels:
- **PIO and Focal Person:** Livelihood enhancement of the small farmers in SAARC region through small scale agro-business focusing on value chain development, for IA, Bangladesh, Funded by SAARC Development Fund;
  - **Consultant:** Development of Training Cum Processing Centre at Comilla, Narshindi, Khulna and Rangpur under integrated quality horticulture development project- 2<sup>nd</sup> phase, Dept. of Agricultural Marketing, Farmgate, Dhaka;
  - **Specialist Training and Course Designer:** Food Safety (ToT), Small Scale Agro-processing, Agro-processing (ToT), Food Safety Training for BFSA official (ToT), Horticulture Crop Processing for DAM Official (ToT), Food Safety Training for LDDP (Livestock Dept)-ToT, Foundation Training Course for BCS (Health), BCS (Education), BCS General FTC, LGED Engineers, BBS Officials;
  - Developing modal for agro processing activities and provide advisory services to GO/ NGO and private entrepreneurs;
  - Food quality analysis and products R&D Lab, RDA, Bogura. Micro Biology and chemical lab development in Vagan Agro Ltd; and
  - Innovated model of RDA: Electronic *Dahi* Incubator for *Bourar Dahi*.
9. Participation in National Commissions, Committees, etc. commissioned by the Government of Bangladesh and Govt. Institution / Organizations:
- SAARC Regional Training on Agribusiness Focusing Agro-processing at ICAR-Indian Institute of Horticulture Research, Bengaluru, India, 13-15 September, 2022; and
  - Delegate, Belt and Road Chinese University and Overseas Partner Exchange Conference" is set to take place on December 14 - 15, 2023, at Guangzhou, China
10. Teaching activities undertaken (course and laboratory) at undergraduate and graduate levels

Course No. and Title of The Courses Taught	Level	No. of Students	(Lectures Per Week) or (His / week)	Year
RDE 403, Agro-processing and Marketing (RDA & BSMRAU)	PGD in Rural Development	30	3	2014, 2015, 2016 & 2023
MSARL 3301, Agro-processing (Open University, RDA study center)	Masters	18	3	2023
MSARL 3303, Food and Nutrition Security (Bangladesh Open University, RDA study center)	Masters	18	3	2023
MSARL 3304, Entrepreneurship and Agribusiness (Bangladesh Open University, RDA study center)	Masters	18	3	2023
FTNS 5216, Internship (2-month long industrial attachment/Govt. Institute attachment/NGO attachment on Food Processing and Technology/Nutrition) (MBSTU, Bangladesh)	Masters (Non-thesis)	20	3	2014, 2015, 2016 & 2023
FPE 400, Attachment Training in Food	BSc Food and	10	3	2014, 2015,

Course No. and Title of The Courses Taught	Level	No. of Students	(Lectures Per Week) or (His / week)	Year
Process Industries (HSTU, Bangladesh)	Process Engg			2016 & 2023
Food Processing Training for Entrepreneurship	HSC	30	-	2014, 2015, 2016 & 2023
Food Safety Training for BFSA official (ToT)	Graduate	75	-	2023
Horticulture Crop Processing for DAM Official (ToT)	Graduate	60	-	2015

11. Supervision Thesis/Design Project at undergraduate Level

No. of Student	No. of Project		Year
	Thesis	Design	
1	Development and quality analysis Carrot juice (Collaboration with NPIUB, Manikgonj, Bangladesh)		2020

12. Supervision of Completed Graduate Research Work.

Level (Masters/Ph.D.)	Thesis Title	Year
Masters	Physico-chemical and sensory properties of cakes supplemented with different concentration of soy flour (Collaboration with HSTU)	2016
Masters	Formulating and Analyzing Consumer Preference of Gluten Free Bread (Collaboration with BSMRAU)	2015

13. Research Grants Received

Organization Offering the Grant	Project title	Period
SAARC Development Fund (SDF)	Livelihood enhancement of the small farmers in SAARC region through small scale agro-business focusing on value chain development	2020-2022
China Scholarship Council (CSC)	Functional Properties of Soybean Protein Hydrolysates, Structure of Glycinin-Polyphenol Complex and its Anticancer Activity	2019-2023
China Scholarship Council (CSC)	Effectiveness of organic acid spray on fresh silver carp ( <i>Hypophthalmichthys Molitrix</i> ) fish to increase shelf-life at refrigerated temperature and study on fish protein enriched instant mix	2016-2019
RDA Research Fund	Local food products supplemented by soya flour for school tiffin	2013-2014
RDA Research Fund	Design and fabrication of electronic yogurt incubator, and comparison of qualities of yogurt made by electronic and incubation system	2015-2016
RDA Research Fund	Standardization of Safe and Low-cost Ripening Technology of Banana for Farmer/small trader level	2023-2024

#### 14. List of publications

1. **Islam, M.**, Huang, Y., Jain, P., Fan, B., Tong, L., & Wang, F. (2023). Enzymatic hydrolysis of soy protein to high moisture textured meat analogue with emphasis on antioxidant effects: As a tool to improve techno-functional property. *Biocatalysis and Agricultural Biotechnology*, 102700.
2. **Islam, M.**, Huang, Y., Islam, S., Fan, B., Tong, L., & Wang, F. (2022). Influence of the Degree of Hydrolysis on Functional Properties and Antioxidant Activity of Enzymatic Soybean Protein Hydrolysates. *Molecules*, 27(18), 6110.
3. **Islam, M.**, Huang, Y., Islam, M. S., Lei, N., Shan, L., Fan, B., ...& Wang, F. (2022). Effect of high-moisture extrusion on soy meat analog: study on its morphological and physiochemical properties. *Italian Journal of Food Science*, 34(2), 9-20.
4. Islam, M. S., Hongxin, W., Ali Mahdi, A., **Islam, M.**, Noman, A., &an Wei, F. (2021). Comparison of nutritional composition, physicochemical and antioxidant properties of muscle, liver, and shell from Grass Turtle (*Chinemysrevesii*). *CyTA-Journal of Food*, 19(1), 304-315.
5. Akter, M., Roshid, M., Hosen, M. A., Hosain, M., Islam, M., & Khalek, M. A. (2021). Physico-chemical and sensory properties of cakes supplemented with different concentration of soy flour. *International Journal of Food Science and Nutrition*, 6(2), 16-21.
6. **Monirul Islam**, Mohammad Abid Hossain Mridha, Md. Ferdous Hossain Khan (2020); "Design and Fabrication of Electronic Yogurt Incubator, and Comparison of Qualities of Yogurt to Traditional Incubation System", *Journal of Bangladesh Rural Development Studies*, Volume: XXIII, No-01, Pp 65-74
7. Monirul, I., Yang, F., Niaz, M., Qixing, J., & Wenshui, X. (2019). Effectiveness of combined acetic acid and ascorbic acid spray on fresh silver carp (*Hypophthalmichthys molitrix*) fish to increase shelf-life at refrigerated temperature. *Current Research in Nutrition and Food Science Journal*, 7(2), 415-426.
8. Niaz Mahmud, **Monirul Islam**, Md. Shovon Al-Fuad, Samiron Sana, Md. JannatulFerdaus, Suzon Ahmed, Shahriar Islam Satya, Md. Abdullah Al Mamun, NazmusSakib, Md. Shofiquil Islam, Shuvonkar Kangsha Bonik (2019). Estimation of Heavy Metals, Essential Trace Elements and Anti-Nutritional Factors in Leaves and Stems from Moringao leifera. *International Journal of Food Science and Biotechnology*. Vol. 4, No. 2, pp. 51-55.
9. **Islam, M.**, Sarker, M. N. I., Islam, M. S., Prabakusuma, A. S., Mahmud, N., Fang, Y., ...& Xia, W. (2018). Development and quality analysis of protein enriched instant soup mix. *Food and Nutrition Sciences*, 9(6), 663-675.
10. **Monirul Islam**, Niaz Mahmud, Tazbidul Nawas, Yang Fang, Wenshui Xia (2018). Health Benefits and Spray Drying Microencapsulation Process of Fish Oil (Omega-3). *American Journal of Food Science and Nutrition Research*. Vol. 5, No. 2, pp. 29-42.
11. **Monirul Islam**, Shamal Chandra Hawlader, Md. Ferdous Hossain Khan, Mohammad MunsurRahman and M A Matin (2017), small scale agro-processing is a key component of rural mass employment generation in bangladesh: concept model, *International Journal of Economics, Business and Management Research*, volm 1:5 Pp 77-88.
12. **Monirul Islam**, Md. Arif Hossain Jewel and Md. Abid Hossain Mridha (2016) ,Quality and Labeling Standards of Processed Food Products .*Int. J. Bus. Soc. Sci. Res.* 4(2): 89-94.
13. **M. Islam**, J.S. Jothi, M. R. Habib, A. Iqbal (2014), *Evaluation of Nutritional and Sensory Quality Characteristics of Pumpkin Pies*, *International Journal of Emerging Trends in Science and Technology*, vol. 1, issues. 7, pp.1091-1097.

14. M. S. Islam, J.S. Jothi, **M. Islam**, A. K. O. Huq (2014), Nutritional Status of Rural and Urban Under-Five Children in Tangail District, Bangladesh, *International Journal of Innovation and Applied Studies*, vol. 8, no.2, pp.441-448.
15. J. S. Jothi, **M. Islam**, M. S. Islam, M.R. T. Rahman, S. Akther. (2014), Development and Shelf-Life Prediction of Pineapple (Ananas comosus) Preserve and Candy, *International Journal of Innovation and Scientific Research*, vol. 10, no.1, pp.77-78.
16. B. Miah, M.N. Islam, M.F. Jubayer, M.N. Saqib and **M. Islam** (2014) Individual and Combined Effect of Hot Water and Lactic Acid Spray on Quality Attributes of Beef at 40C Temperature, *Journal of Meat Science and Technology*, Vol 2, Issue 3, Pages 68-73,
17. A. Sultana, M. R. T. Rahman, **M. Islam**, M. Rahman, M. A. Alim (2014), Evaluation of Quality of Chapatias Enriched with Jackfruit Seed Flour and Bengal Gram Flour, *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* Volume 8, Issue 5 Ver. III, PP 73-78, .
18. M. S. Islam, J. S. Jothi, **M. Islam**, M. A. Zubair (2014), Antioxidant and Physico-Chemical Properties of Litchi Honey Procured from Gazipur and Tangail District, Bangladesh, *Journal of Entomology and Zoology Studies*, Vol 2, Issue 5, Pages 207-211.
19. M. Mohiuddin, M.A.H. Jewel, **M. Islam**, F. Nessa (2015) "RDA-Credit and Women's Empowerment at Boraidaha Village under Sherpur Upazilla of Bogra Districts" *Bangladesh Research Publication Journal*, Vol 10, Issue 5, Pages 304-308.
20. Islam, M., Alim, M., Hawlader, S., Mohiuddin, M., & Sarker, A. (2019). Assessment and analysis of the overall situation of women and children: Bangladesh scenario. *Int J Public Admin Policy Res*, 4(1), 26-30.

b) Conferences:

i) Proceedings:

1. Conference on Commercialization of products and customer acquisition, Beijing (2021);
2. Conference on High-quality patent application and layout, Beijing (2021);
3. Conference on Application of gas chromatography mass spectrometry technology and its solid-phase microextraction and other pre-processing technologies in the analysis of food flavor components, Beijing (2021);
4. Conference on Scientific research integrity and academic norms, Beijing (2021);
5. Conference on Scientific and technological innovation leads the high-quality development of agricultural products processing industry, Beijing (2021);
6. Conference on National Food Security and Sustainable Development, Beijing (2021);
7. Conference on Writing and publishing of high-quality academic papers, Beijing (2020);
8. Conference on Abide by academic ethics and prevent academic misconduct, Beijing (2020);
9. Conference on Meat preservation and logistics, Beijing (2020); and
10. The first International Conference on Precision Nutrition and Food 3D Printing International Symposium, Beijing (2019).

ii) Presentations:

1. Presentation on agro-processing status of Bangladesh at ICAR-Indian Institute of Horticulture Research, Bengaluru, India (2022);
2. Country presentation at Chinese Academy of Agricultural Sciences, Beijing, China (2019);
3. Presentation on SMEs of Bangladesh at National Institute of Micro Small and Medium Enterprise, Hyderabad, India (2016);
4. Presentation on Small-scale food processing at Jinagnan University, Wuxi, China (2016);

5. Country presentation on present status of food enterprises of Bangladesh at Egyptian International Centre for Agriculture, Cairo, Egypt (2015); and
  6. Country presentation on farm and agro-machinery of Bangladesh at Central Institute of Agricultural Engineering (CIAE), ICAR, Bhopal, India (2014).
- c) Text books written for undergraduate / postgraduate levels:
1. MA Matin, AKM Zakaria, **Monirul Islam**, PGD Resource Book “Agro-processing” for PGD in Rural Development, Course offered by collaboration with Rural Development Academy and Bangabandhu Sheikh MujiburRahman Agricultural University, Published by Rural Development Academy, Bogura, February, 2017 ISBN: 984-556-351-1; and
  2. M.S. Islam, **M. Islam**, J.S. Jothi., “ Food Glossary” for undergraduate/ post graduate student relevant to Food Engineering Published by Ghyankosh, 38 Banglabazar, Dhaka, Bangladesh ISBN 984-8486-26-1, Copyright © 2014.
- d) Research monographs, nomographs, patents and other works completed and contributions in standard published books:
1. **Monirul Islam**, Abid Hossain Mridha, Md. Abdur Rashid, “Study on Local Food Products Supplemented by Soya Flour for School Tiffin”, Published by Rural Development Academy, Bogura, 1<sup>st</sup> edition August **2017**, ISBN: 984-556-354-6
15. (a) Research and teaching plan (research initiative, new course development, etc.):
- I played a key role in developing the course curriculum for Agro-processing in the Post Graduate Diploma in Rural Development, a collaborative program between the Rural Development Academy and Bangabandhu Sheikh Mujibur Rahman Agricultural University. The curriculum, once finalized, was published by the Rural Development Academy; and
  - I have been actively involved in the creation of various training manuals, including those for Food Safety (ToT); Small Scale Agro-processing; Agro-processing (ToT); Food Safety Training for BFSA officials (ToT); Horticulture Crop Processing for DAM Officials (ToT); Food Safety Training for LDDP (Livestock Dept) (ToT); and Foundation Training Courses designed for BCS (Health), BCS (Education), BCS General FTC, LGED Engineers, and BBS Officials.
16. Contribution to the Department Other Than Teaching and Research already stated above during the period under review:
- a) Curriculum Improvement:  
RDE 403, Agro-processing and Marketing (RDA & BSMRAU), MSARL 3301, Agro-processing ( Bangladesh Open University, RDA study center) MSARL 3303, Food and Nutrition Security (Bangladesh Open University, RDA study center), Small Scale Agro-processing, Agro-processing (ToT), Food Safety Training for BFSA officials (ToT), Horticulture Crop Processing for DAM Officials (ToT), Food Safety Training for LDDP (Livestock Dept) (ToT), and Foundation Training Course curriculum improvement for BCS (Health), BCS (Education), BCS General FTC, LGED Engineers, and BBS Officials;
  - b) Laboratory Development:  
Experience working in the Food Quality Control/Research Lab at the Rural Development Academy (RDA) and various private food industries' Quality Control/Quality Assurance Labs;

- c) Production of Teaching Aids:  
Development of diverse teaching aids for agro-processing courses and laboratory work;
- d) Staff development:  
In-charge of Agro-processing Unit of Rural Development Academy, Bogura, I am responsible/ line-director for 12 staffs; and
- e) Others:  
I have conducted research and development on 34 processed food products at the Agro-processing, Preservation, and Marketing (APM) unit of RDA, Bogura. These products have received approval from the Bangladesh Standards and Testing Institution (BSTI) and are commercially marketed by the APM unit.

17. a) Father's Name (In English) : Jorif Uddin
- b) Nationality : Bangladeshi
- c) Present Address (In English) : Rural Development Academy Campus,  
Bogura-5842, Flat# F7, Bangladesh
- d) Mailing Address : Dr. Monirul Islam, Deputy Director, Rural  
Development Academy Campus, Bogura-5842,  
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- e) Permanent Address : Durarkuti, Aditmari, Velabari-5510, Lalmonirhat
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