

CURRICULUM VITAE

PERSONAL DATA

Name	ABM Sharif Hossain
Nationality	Bangladesh
Position	Associate Professor
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Phone	-----

EDUCATION

Year	Academic Degree	Institution
2006	PhD in Plant Physiology and Biotechnology	Ehime University, Japan
2003	MS in Plant Physiology and Biotechnology	Ehime University, Japan
1996	BSc Ag (Agri-Biological Science)	Bangladesh Agricultural University

WORK EXPERIENCE

Period	Position	Address
2022-Present	Associate Professor	Department of Biology, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, KSA
2019-2022	Visiting Professor and Joint Supervisor for Postgraduate Students	Institute of Biological Science and Technology, Faculty of Science, UKM and UM, Malaysia
2011-2019	Associate Professor	Department of Biology, Faculty of Science, University of Hail, Hail, KSA.
2006-2011	Associate Professor and Senior Lecturer	Biotechnology Program, Institute of Biological Science, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia.
2001-2006	Teaching Assistant	Biological Production Science, Graduate School of Agricultural Science, Ehime University, Matsuyama, Japan.

RESEARCH INTERESTS

Plant nutrition, pigments and hormone (Nano-nutrition and hormone application in plant growth), Plant and Industrial Biotechnology (Cell and Tissue culture, Genetic Engineering, sustainable development and recycling process, Environmental Science (abiotic stress), nanocellulose and nano-starch biomaterials as natural products.

PUBLICATIONS

Patents

ABMS Hossain, MS Aleissa, HA Rudayni et al. 2024. Bio-derived x-ray-sensitive film and a method of preparation thereof. US patent No. 12099291.

ABMS Hossain, MS Aleissa, HA Rudayni et al. et al. US patent No. 12098285

ABMS Hossain, MS Aleissa, HA Rudayni, FA Rahman. Surgical nano-biothread made from cellulose fiber. US Patent No. 12251101.

ABMS Hossain, MS Aleissa, HA Rudayni, MM Zahrary, A Alhudhaibi, FA Rahman. 2025. Biodegradable nanocomposite surgical screw containing bone nanoparticles. US Patent No. 12350400.

Publications

1.ABMS Hossain. 2025. Study of carbohydrate, bioactive compounds, antioxidants, vitamin C, and mineral content at the ripening stage of grapes, rambutan, and pineapple. Cellular and Molecular Biology. 71: 5. <https://doi.org/10.14715/cmb/2025.71.5.4>

2. ABM Hossain, ABS Ahmed, CH U, HA Alrudayni, FM Haouala. 2024. Acid-base Catalyzed Transesterification Bioprocess for Biodiesel from Jatropha Oil-Based Free Fatty Acids: Its Physical, and Mechanical Properties. Iranian Journal of Chemistry and Chemical Engineering. 43 (5): 1-10.

3. ABM Hossain, AS Ahmed, HA Alrudayni, FM Haouala, MS Aleissa. 2024. Evaluation of Chemical Metal Elements from Algae Biofuel Using Different Types of Catalysts and Nano-catalyst. Iranian Journal of Chemistry and Chemical Engineering. 43 (5): 20-30.

4. AM Alhudhaibi, SM Ragab, M Sharaf, L Turoop, S Runo, S Nyanjom, Hossain ABMS. 2024. Effect of ex situ, eco-friendly ZnONPs incorporating green synthesised Moringa oleifera leaf extract in enhancing biochemical and molecular aspects of Vicia faba L. under salt. Green Processing and Synthesis 13 (1): 20240012.

5. AM Alhudhaibi, MAR Ibrahim, SMS Abd-Elaziz, HRM Farag, SM Elsayed, Hossain ABMS. 2024.Enhancing salt stress tolerance in wheat (*Triticum aestivum*) seedlings: insights from trehalose and mannitol. BMC Plant Biology 24 (1): 472.

6. M Imteaz, ABM Hossain, A Ahsan, P Kaur. 2024. Mathematical modelling of quantifying bioethanol fuel production from pineapple waste. Detritus, 54: 1-7.

7. ABMS Hossain, MM. Alenazi, NA. Ibrahim and NS Bashir. 2024. Effects of Plant Growth Regulator on the Okra Growth, Yield, Chlorophyll Content and Aborted Seed Production In vivo. 6 (2): 45-53.

8. ABMS Hossain, AM Alsaif, HA Rudayni A. Al-Hashimi, MS Aleissa, RM Taha. 2023. Carbohydrate, flavonoid, anthocyanin, total phenol, chlorophyll and mineral (K⁺) content development of wax apple fruit as affected by CPPU and NAA using swabbing technology, Revista Brasileira de Fruticultura 45 (5): doi: 10.1590/0100-29452023798.

9. ABMS Hossain. 2023. Okra growth, Chlorophyll Content and Fluorescence Yield as Affected by Naphthalene Acetic Acid as Growth Regulator, Bulletin of the Life Science, Pharmacology and Environmental 12 (5): 9-14.
 10. ABMS Hossain, MMA Alenazi, ASA Ahmed, HA Alrudayni, F Haouala. 2023. Seedless okra pod, chlorophyll, vitamin C and mineral content development using plant growth regulator in vitro and in vivo culture. Cellular and Molecular Biology 69 (13): 53-58.
 11. ABMS Hossain, HA Alrudayni, F Haouala, MS Aleissa, D Kahrizi. 2024. Callus cell and explants regeneration, glucose, mineral, antioxidant and flavonoid content development using broccoli root tip and leaf cutting in vitro. Cellular and Molecular Biology 69 (11): 45-50.
 12. ABMS Hossain, MM Mekhled, RM Taha. 2022. Biochemical Content, Vitamin and Minerals Development in Okra Using Plant Growth Regulators. Journal of Applied Sciences 22 (5): 256-262.
 13. M Imteaz , ABMS Hossain, A Ahsan. 2022. Data driven mathematical modelling of bioethanol fuel production from rambutan fruit waste. Waste and Resources Management ICE 176 (2): 70-76.
 14. ABMS Hossain, MM Alenazi, RM Taha. 2022. Effects of different plant growth regulators on the pod setting, aborted seed, nutrient, and vitamin C content in okra using flower ovary injection, World Journal of Biology and Biotechnology 7 (1): 23-26.
 15. ABMS Hossain, 2022. Organic Food Production and Food Additive Using Natural Resources: Nutritional and Health Benefits. Bulletin of the Life Science, Pharmacology and Environmental. 12 (1): 264-272.
- Books:**
1. ABMS Hossain. 2023. Plant Nutritional Physiology and Biotechnology Research. Lambert Academic publishing, Germany. ISSN: 13-9786206143079.
 2. ABMS Hossain. 2022. Organic Food Production: Nutrition and Health Benefits. LAP Lambert Academic publishing Co. Paperback, Germany ISBN: 978-6204738536, pp180.