

Professor Dr. Md. Touhidul Islam



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Area of Specialization and Research Interest

Whitefly, Entomopathogenic fungus, Biological control, Sex pheromone trap, Biopesticide, IPM, Open and Distance Education

Education Qualification

- **PhD in Agricultural Entomology and Pest Control** (3 Years) from South China Agricultural University, Guangzhou, PR china (September 2006 to August 2009), 2009.
 - **Master of Science in Crop Botany** (1 and half years), Bangladesh Agricultural University, Mymensingh, 2002.
 - **Bachelor of Science in Agriculture** (4 Years), Bangladesh Agricultural University, Mymensingh, 1992.
 - **Higher Secondary Certificate (HSC)** Examination, Dhaka Board, 1987.
 - **Secondary School Certificate (SSC)** Examination, Dhaka Board, 1985.
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Professional Experience

- June 2025: **Professor**, Agriculture, School of Agriculture & Rural Development (SARD), Bangladesh Open University, Gazipur- 1705, Bangladesh
 - May 2018 to June 2024: **Associate Professor**, Agriculture, School of Agriculture & Rural Development (SARD), Bangladesh Open University, Gazipur- 1705, Bangladesh
 - March 2017 to February 2018: **Postdoctoral Researcher**, Institute of Biotechnology, Gazipur Agricultural University, Salna, Gazipur- 1706, Bangladesh
 - December 2012 to May 2018: **Assistant Professor**, Agriculture, School of Agriculture & Rural Development (SARD), Bangladesh Open University, Gazipur- 1705, Bangladesh
 - March 2011 to December 2012: **Researcher (Postdoctoral)**, Department of Plant Protection, University Putra Malaysia, 434 UPM Serdang, Selangor, Malaysia
 - September 2004 to March 2006: **Senior Scholar (Plant Protection)**, Department of Entomology, Faculty of Agriculture, South China Agricultural university, Guangzhou, China
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List of Publications

1. Sobahan MA, Akter N, and **Islam MT**. 2025. Effects of Biochar and Chitosan on Growth and Yield of Rice (*Oryza sativa* L.) Under Salt Stress. Journal of Plant Sciences, 13 (2): 21-29. <https://doi.org/10.11648/j.jps.20251302.11>
2. Hossain MF and **Islam MT**. 2024. Prospect of Cocoa (*Theobroma cacao* L.) Cultivation in the Environmental Conditions of Gazipur, Bangladesh. Journal of Agroforestry and Environment, 17 (2): 55-60. <https://doi.org/10.55706/jae1717>
3. **Islam MT**. 2022. Current status and future prospects of *Cladosporium* sp., a biocontrol agent for sustainable plant protection. Biocontrol Science (Japan; Impact Factor = 1.1; Q3 Journal), 27 (4): 185-191. <https://doi.org/10.4265/bio.27.185>

4. **Islam MT**, MA Haque, NU Mahmud, DR Gupta, T Islam. 2022. *In vitro* compatibility of entomopathogenic fungus, *Cladosporium cladosporioides* with three plant extracts. Plant Protection Science (Czech Republic; Impact Factor = **1.4**; Q2 Journal), 58: 213-219. <http://10.17221/135/2021-PPS>
5. **Islam MT**, 2021. Influence of seed source on plant growth, yield and yield gap of rice (*Oryza sativa* L.). Tropical Biodiversity (Malaysia). 2: 82-86. <http://doi.org/10.26480/trab.02.2021.82.86>
6. **Islam MT**, 2021. Behavioral response of *Bemisia tabaci* (Hemiptera: Aleyrodidae) towards *Metarhizium anisopliae* volatiles. Acta Scientifica Malaysia (ASM), 5: 62-66. <http://doi.org/10.26480/trab.02.2021.82.86>
7. **Islam MT**, 2020. Enhancement of rice and wheat seed germination and seedling vigor by biocontrol agent, *Cladosporium cladosporioides*. Res. Agric. Livest. Fish, 7: 09-15. <http://doi.org/10.26480/asm.02.2021.62.66>
8. **Islam MT**. 2020. Evaluation of rice (*Oryza sativa* L.) seed collected from different sources in Bangladesh. BOU Journal of Agriculture and Rural Development, 12 (1): 45-52.
9. **Islam MT**. 2020. A review on the compatibility of entomopathogenic fungus with plant extract for sustainable crop protection. BOU Journal of Agriculture and Rural Development, 12 (2): 7-15.
10. **Islam T**, Gupta DR, Surovy MZ, Mahmud NU, Mazlan N and Islam T, 2019. Identification and application of a fungal biocontrol agent *Cladosporium cladosporioides* against *Bemisia tabaci*. Biotechnology & Biotechnological Equipment (Taylor & Francis, Bulgaria, Impact Factor- **1.4**; Q2 Journal), 33: 1698-1705. <https://doi.org/10.1080/13102818.2019.1695541>
11. **Islam MT** and Haque MA, 2018. Evaluation of pre-harvest interval for pesticides on different vegetables in Bangladesh. Journal of Bangladesh Agricultural University, 16(3): 444-447. <http://dx.doi.org/10.3329/jbau.v16i3.39415>
12. Hossain MF, **Islam MT**, Islam MA and S Akhtar, 2017. Cultivation and uses of stevia (*Stevia rebaudiana* Bertoni) a review. Afr. J. Food Agric. Nutr. Dev., 17(4): 12745-12757.
13. Sidi, MB, **Islam MT**, Ibrahim Y and Omar D. 2013. Effect of azadirachtin and rotenone on *Trichogramma papilionis* (Hymenoptera: Trichogrammatidae). Journal of Food, Agriculture & Environment, 11: 1509-1513. <https://doi.org/10.1234/4.2013.4587>
14. **Islam MT**, D Omar, AKMA Shah, MF Hasan 2016. Virulence of entomopathogenic fungus, *Metarhizium anisopliae* to sweetpotato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae) under osmotic stress. Proceedings of National Academy of Science, India, Section B: Biological Science (Springer; India; Impact Factor = **0.263**; Q3 Journal), 26: 617-622. <http://doi.org/10.26480/asm.02.2021.62.66>
15. **Islam MT**, D Omar, M Shabanimofrad 2014. Molecular identification and virulence of six isolates of *Metarhizium anisopliae* (Deuteromycotina: Hyphomycetes) to *Bemisia tabaci* (Hemiptera, Aleyrodidae) Q biotype. Journal of Asia-Pacific Entomology (Elsevier, South Korea; Impact Factor- **1.3**; Q2 Journal), 17: 237-241. <https://doi.org/10.1016/j.aspen.2014.01.008>
16. Hsia, ICC, **Islam MT** and Omar, D. 2014. Evaluation of conidial viability of entomopathogenic fungi as influenced by temperature and additive. International Journal of Agriculture and Biology (Impact Factor = **0.882**; Q3 Journal), 16: 146-152.
17. Akter S, Latif MA, Mia, AT, Ansari, TH, **Islam MT** and Rafii MY 2013. Efficacy of fungicides against grain pot disease n rice (*Oryza sativa*). Life Science Journal (Q4 Journal), 10: 3005-3008. <https://doi.org/10.7537/marslsj100413.400>
18. Ahmad, SNB, **Islam MT**, Abdullah, DK and Omar, D. 2013. Study of tannery phase diagram study of rotenone *Derries elliptica* (Fabales: Fabiaceae), a novel approach of insecticide formulation. Asian Journal of Chemistry (Q4 Journal), 25: 4718-4722. <https://doi.org/10.14233/ajchem.2013.14045>
19. **Islam MT** and Omar, D (2012) Combined effect of *Beauveria bassiana* with neem on virulence of insect in case of two application approaches. Journal of Animal and Plant Science (Impact Factor- **0.6**; Q4 Journal), 22: 77-82.
20. Parvin, S, Zeng, XN and **Islam MT**. 2012. Bioactivity of Indonesian mahogany, *Toona sureni* (Blume)

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- (Meliaceae), against the red flour beetle, *Tribolium castaneum* (Coleoptera, Tenebrionidae). Revista Brasileira De Entomologia (**Brazil**; Impact Factor- **1.3**; Q3 Journal), 56: 354-358. <https://doi.org/10.1590/S0085-56262012005000047>
21. Sidi MB, **Islam MT**, Ibrahim Y and Omar, D. 2012. Effect of insecticide residue and spray volume application of azadirachtin and rotenone on *Trichogramma papilionis* (Hymenoptera: Trichogrammatidae). International Journal of Agriculture and Biology (Impact Factor = **0.882**; Q4 Journal), 14: 805-810.
 22. Ahmad, SNB, **Islam MT**, Abdullah, DK and Omar, D. 2012). Evaluation of physicochemical characteristics of microemulsion formulation of rotenone and its insecticidal efficacy against *Plutella xylostella* L. (Lepidoptera: Plutellidae). Journal of Food Agriculture & Environment, 10: 384-388. <https://doi.org/10.1234/4.2012.3402>
 23. Morshed, MM., Omar, D., Mohamad, R., Wahed, SA., **Islam MT**. 2011. Sampling and analysis of chlorpyrifos airborne residue emitted under treated field conditions. Journal of Environmental Protection and Ecology (**Bulgaria**; Impact Factor = **0.774**; Q4 Journal), 12: 447- 456.
 24. **Islam MT**, Ren, SX, and Omar, D. 2011. The integrated use of entomopathogenic fungus, *Beauveria bassiana* with botanical insecticide, neem against *Bemisia tabaci* on eggplant. African Journal of Microbiological Research, 5: 3909- 3913.
 25. Latif MA, Rahman, MM, Kabir, MS, Ali, MA, **Islam MT** and Rafii, MY. 2011. Genetic diversity analyzed by quantitative traits among rice (*Oryza sativa* L.) genotypes resistant to blast disease. African Journal of Microbiological Research, 5: 4383- 4391.
 26. **Islam MT**, Castle, SJ and Shunxiang, R (2010) Compatibility of the insect pathogenic fungus, *Beauveria bassiana* with neem against sweetpotato whitefly, *Bemisia tabaci*, on eggplant. Entomologia Experimentalis et Applicata (**Netherland**; Blackwell; Impact Factor- **1.7**; Q2 Journal), 134: 28-34. <https://doi.org/10.1111/j.1570-7458.2009.00933.x>
 27. **Islam MT**, Qiu, BL and Shunxiang, R (2010) Host preference and influence of the sweetpotato whitefly, *Bemisia tabaci* (Homoptera: Aleyrodidae) on eggplant (*Solanum melongena* L.). Acta Agriculturae Scandinavica, Section B- Plant Soil Science (**Sweden**; Taylor & Francis; Impact Factor- **1.8**; Q2 Journal), 60: 320-325. <https://doi.org/10.1080/09064710902976974>
 28. **Islam MT**, Olleka, A and Shunxiang, R (2010) Influence of neem on susceptibility of *Beauveria bassiana* and investigation of their combined efficacy against sweetpotato whitefly, *Bemisia tabaci* on eggplant. Pesticide Biochemistry and Physiology (**USA**; Elsevier; Impact Factor- **4.0**; Q1 Journal), 98: 45-49. <https://doi.org/10.1016/j.pestbp.2010.04.010>
 29. **Islam MT** and Shunxiang, R (2009) Effect of sweetpotato whitefly, *Bemisia tabaci* (Homoptera: Aleyrodidae) infestation on eggplant (*Solanum melongena* L.) leaf. Journal of Pest Science (**Germany**; Springer; Impact Factor- **4.1**; Q1 Journal), 82: 211-215. <https://doi.org/10.1007/s10340-008-0241-x>
 30. **Islam MT** and Shunxiang, R. 2007. Development and reproduction of *Bemisia tabaci* on three eggplant varieties. Journal of Entomology, 4: 231-236.
 31. **Islam MT**, AKMA Prodhan and Sarwer AKMG. 2007. Root anatomy of country bean. International Journal of Agricultural Research, 2: 508-517. [10.3923/ijar.2007.508.517](https://doi.org/10.3923/ijar.2007.508.517)
 32. **Islam MT**, AKMA Prodhan, SMA Bari and Sarwer AKMG. 2005. Anatomy of the hypocotyl of country bean. Asian Journal of Plant Science, 4: 323-333. [10.3923/ajps.2005.323.333](https://doi.org/10.3923/ajps.2005.323.333)
 33. **Islam MT**, Prodhan AKMA, Bari SMA and Islam MO. 2003. Islam. Stem anatomy of country bean, Pakistan Journal of Biological Science, 6: 1741-1750. [10.3923/pjbs.2003.1741.1750](https://doi.org/10.3923/pjbs.2003.1741.1750)

Google Scholar: https://scholar.google.com/citations?hl=en&user=TyuGH1cAAAAJ&view_op=list_works

Research Project

SL No.	Title	Year	Contribution	Amount	Status
01.	Studies on chemical usage in selected vegetables and fruits during storing, transporting and marketing in northern part of Bangladesh	2013-14	Principal Researcher	75000/- TK.	Completed
02.	Comparison of the quality of rice seed from different sources in Bangladesh	2018-19	Principal Researcher	200000/- TK.	Completed
03.	Effect of seed-borne fungi on seed quality of rice	2020-21	Principal Researcher	300000/- TK.	Completed
04.	Integrated Pest Management (IPM) and Conventional Practices for Eggplant Production: A Comparative Study	2022-23	Principal Researcher	300000/- TK.	Completed
05.	Integrated management of brinjal shoot and fruit borer <i>Leucinodes orbonalis</i> (Lepidoptera: Crambidae) using sex pheromone with <i>Celastrus angulatus</i>	2024-25	Principal Researcher	300000/- TK.	Ongoing

Major Academic and/or Administrative Responsibilities/Duties

- **Member of Academic Council**, Bangladesh Open University from 27/12/2020 to date.
- **Member of School Committee**, SARD, BOU from SARD, BOU from 09/05/2013 to 08/05/2015 (1st), 08/10/2020 to date (2nd).
- **Convener, Group of Agroforestry**, Book update sub-committee, SARD, BOU 2015.
- **Member, Regulation Preparation Committee** for the Masters Program of Sustainable Agriculture and Rural Livelihood, SARD, BOU 2016.
- **Coordinator** for the establishment of laboratory in SARD, BOU 28/01/2016 to 28/02/2017.
- **Member**, Self Review Team of COL-RIM (The Commonwealth Learning of Review Improvement) project in BOU part, 2014 to 2015
- **Program Coordinator**, Bachelor of Agricultural Education Program (**BAGEd**), SARD, BOU 25/01/2013 to 14/02/2015

Recognition and Merit Awards

- **UGC Postdoctoral Fellowship** (2017) from University Grant Commission of Bangladesh.
- **UPM Postdoctoral Fellowship** (2011) from University Putra Malaysia (UPM) for Postdoctoral Research.
- Received prize money and certificate for best foreign student in the year of 2008-09 out of 53 foreign students at South China Agricultural University, Guangzhou, China.
- **VLIR-UOS Fellowship** from Gent University, Belgium to do training.
- Received prize money and certificate for best foreign student in the year of 2006-07 out of 47 foreign students from South China Agricultural University, Guangzhou, China.
- **Chinese Government Scholarship** (2006) for PhD study from China Scholarship Council (CSC).
- **UNESCO/Peoples Republic of China Great Wall Co-Sponsored Fellowship** (2004) from South China Agricultural University, Guangzhou, China for research.

PhD Supervision: 01 (Ongoing)

Supervision of Project Report of Master of Science in Sustainable Agriculture & Rural Livelihood, MSARL

Completed: 09

Ongoing: 05

Memberships in Professional & learned bodies

- Member of Krishibid Institution Bangladesh (KIB), Bangladesh.
- General Secretary, Bangladesh Open University Teachers' Association (BOUTA): 2014
- Executive Committee Member, Bangladesh Open University Teachers' Association (BOUTA): 2015 & 2020

Audio & Video Program

- Number of audio program = 20
- Number of video program = 20



(Professor Dr. Md. Touhidul Islam)

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