List of Publications of Professor Md Tofazzal Islam, FBAS

Total 350+; Google Scholar citation 7,500+ (approx.), h-index 46; i10-index 141; Patent 1.

Selected Publications

2022-2023

1. **Islam, T**.\* & Kasfy, S. H. (2023). CRISPR-based point-of-care plant disease diagnostics. *Trends in Biotechnology* 41(2): 144-146. **Impact factor: 21.942,** Web address: <https://doi.org/10.1016/j.tibtech.2022.10.002> \*Corresponding author.
2. **Islam T**.\*, Ansary M.W.R., Rahman, M.M. (2023). *Magnaporthe oryzae* and its pathotypes: a potential plant pandemic threat to global food security. In: Scott, B., Mesarich, C. (eds) Plant Relationships. The Mycota, vol 5. Springer, Cham. <https://doi.org/10.1007/978-3-031-16503-0_18>
3. **Islam T.\***, Azad R.B., Kasfy S.H., Rahman A.A., Khan T.Z. (2023). Horizontal gene transfer from plant to whitefly. *Trends in Biotechnology* 41(2): 144-146. **Impact factor: 21.942,** Web address: <https://doi.org/10.1016/j.tibtech.2023.01.007> \*Corresponding author.
4. Rahman M., **Islam T.,** Jett L., Kotcon J. (2023). Probiotic bacteria, anaerobic soil disinfestation and mustard cover crop biofumigation suppress soilborne disease and increase yield of strawberry in a perennial organic production system. *Plant Disease*, **Impact factor: 4.614.** 7 February, <https://doi.org/10.1094/PDIS-10-22-2402-RE>
5. Hoque M.N., Rahman M.S., Sarkar M.M.H., Habib M.A., Akter S., Banu T.A.,…. **Islam, T\***. (2023) Transcriptome analysis reveals increased abundance and diversity of opportunistic fungal pathogens in nasopharyngeal tract of COVID-19 patients. *PLoS ONE* 18(1): e0278134. **Impact Factor: 3.752.** Web address: <https://doi.org/10.1371/journal.pone.0278134> \*Corresponding author.
6. Khan, M., Al Mamun Khan, M., Mahfuz, A. M. U. B., Sanjana, J. M., Ahsan, A., Gupta, D. R., Hoque M.N., **Islam, T**\*. (2022). Highly potent natural fungicides identified *in silico* against the cereal killer fungus *Magnaporthe oryzae*. *Scientific Reports* 12(1): 1-16. **Impact factor: 4.996**, Web address: <https://doi.org/10.1038/s41598-022-22217-w> \*Corresponding author
7. Chakraborty, M., Rabby, S. F., Gupta, D. R., Rahman, M., Paul, S. K., Mahmud, N. U., & **Islam, T**.\* (2022). Natural protein kinase inhibitors, staurosporine, and chelerythrine suppress wheat blast disease caused by *Magnaporthe oryzae Triticum*. *Microorganisms* 10(6): 1186. **Impact factor: 4.926**, Web address: <https://doi.org/10.3390/microorganisms10061186> \*Corresponding author.
8. Paul, S. K., Chakraborty, M., Rahman, M., Gupta, D. R., Mahmud, N. U., Rahat, A. A. M., Sarker, A., Hannan, M.A., Rahman, M.M., Akanda, A.M., Ahmed, J.U. & **Islam, T.**\* (2022). Marine natural product antimycin A suppresses wheat blast disease caused by *Magnaporthe oryzae Triticum*. *Journal of Fungi,* 8(6): 618. **Impact factor: 5.724** Web address: <https://doi.org/10.3390/jof8060618> \*Corresponding author.
9. Hoque, M. N., Sarkar, M., Hasan, M., Khan, M., Hossain, M., Hasan, M., Habib, A., Akhter, S., Banu, T.A., Goswami, B., Jahan, I., Nafisa, T., Molla, M.A., Soliman, M.E., Araf, Y., Khan, M. & **Islam, T**\*. (2022). Differential gene expression profiling reveals potential biomarkers and pharmacological compounds against SARS-CoV-2: insights from machine learning and bioinformatics approaches. *Frontiers in Immunology* Article: 3875. **Impact Factor: 8.786**, Web address: <https://doi.org/10.3389/fimmu.2022.918692> \*Corresponding author
10. **Islam, T**\*., Afroz, N., Koh, C., Hoque, M. N., Rahman, M. J., Gupta, D. R., Mahmud, N.U., Nahid, A., Islam, R., Bhowmik, P.K. & Sharpe, A. G. (2022). Whole-genome sequencing of a year-round fruiting jackfruit (*Artocarpus heterophyllus* Lam.) reveals high levels of single nucleotide variation. *Frontiers in Plant Science* 13: 1044420 **Impact factor: 6.627**. Web address: <https://doi.org/10.3389/fpls.2022.1044420> \*Corresponding author
11. Paul, S. K., Mahmud, N. U., Gupta, D. R., Rani, K., Kang, H., Wang, G. L., & **Islam, T.**\* (2022). *Oryzae* pathotype of *Magnaporthe oryzae* can cause typical blast disease symptoms on both leaves and spikes of wheat under a growth room condition. *Phytopathology Research*, 4: 9. **Impact factor: 3.955** Web address: <https://doi.org/10.1186/s42483-022-00114-4> \*Corresponding author.
12. Rabby, S.M.F., Chakraborty, M., Gupta, D.R., Rahman, M., Paul, S.K., Mahmud, N.U., Rahat, A.A.M., Jankuloski, L., **Islam, T.**\* (2022). Bonactin and feigrisolide C Inhibit *Magnaporthe oryzae Triticum* fungus and control wheat blast disease. *Plants*, 11(16): 2108. **Impact factor: 4.658** Web address: <https://doi.org/10.3390/plants11162108> \*Corresponding author.
13. Raihan, M. R. H., Rahman, M., Mahmud, N. U., Adak, M. K., **Islam, T**.\*, Fujita, M., & Hasanuzzaman, M. (2022). Application of rhizobacteria, *Paraburkholderia fungorum* and *Delftia* sp. confer cadmium tolerance in rapeseed (*Brassica campestris*) through modulating antioxidant defense and glyoxalase systems. *Plants,* 11(20): 2738. **Impact factor: 4.658** Web address: <https://doi.org/10.3390/plants11202738> \*Corresponding author.
14. Sánchez, E., Ali, Z., **Islam, T.,** & Mahfouz, M. (2022). A CRISPR‐based lateral flow assay for plant genotyping and pathogen diagnostics. *Plant Biotechnology Journal*, 20(12): 2418-2429. **Impact factor: 13.26,** Web address: <https://doi.org/10.1111/pbi.13924>
15. Zhang, H. F., **Islam, T**.\*, & LIU, W. D. (2022). Integrated pest management programme for cereal blast fungus *Magnaporthe oryzae*. *Journal of Integrative Agriculture*, 21(12): 3420-3433 **Impact factor: 4.384** Web address: <https://doi.org/10.1016/j.jia.2022.08.056> \*Corresponding author.
16. Mahmud, N.U., Gupta, D.R., Paul, S.K., Chakraborty, M., Mehebub, M.S., Surovy, M.Z., Rabby, S.M.F., Rahat, A.A.M., Roy, P.C., Sohrawardy, H., Amin, M.A., Masud, M.K., Ide, Y., Yamauchi, Y., Hossain, M.S., **Islam, T.\*** (2022). Daylight-driven rechargeable TiO2 nanocatalysts suppress wheat blast caused by *Magnaporthe oryzae Triticum*. *Bulletin of the Chemical Society of Japan*, 95(8): 1263-1271. **Impact factor: 5.488**, Web address: <https://www.journal.csj.jp/doi/abs/10.1246/bcsj.20220010> \*Corresponding author
17. Briste, P.S., Akanda, A.M., Bhuiyan, M.A.B., Mahmud, N.U., **Islam, M.T.** (2022) Morphomolecular and cultural characteristics and host range of *Lasiodiplodia theobromae* causing stem canker disease in dragon fruit. *Journal of Basic Microbiology,* 62: 689-700. **Impact factor: 2.281**, Web address: <https://doi.org/10.1002/jobm.202100501> \*Corresponding author
18. Mohi-Ud-Din, M., Rohman, M.M., Alam, M.A., Hasanuzzaman M., **Islam T.\*** (2022) Wheat variety carrying 2NvS chromosomal segment provides yield advantage through lowering terminal heat–induced oxidative stress. *Protoplasma*, 260: 63–76. **Impact factor: 3.186,** Web address:<https://doi.org/10.1007/s00709-022-01759-w> \*Corresponding author
19. Paul S.K., Mahmud N.U., Gupta D.R., Alam M.N., Chakraborty M., **Islam M.T.**\* (2022) First report of *Fusarium sacchari* causing sugarcane wilt in Bangladesh. *Plant Disease* 106(1): 319. **Impact factor: 4.614,** Web address:<https://doi.org/10.1094/PDIS-04-21-0681-PDN> \*Corresponding author
20. Paul S.K., Mahmud N.U., Muzahid A.N.M., **Islam T.\*** (2022). First report of collar and root rot of faba bean caused by *Rhizoctonia solani* AG-2-2 IIIB in Bangladesh. *Plant Disease,* 106(3): 786-1055. **Impact Factor: 4.614.** Web address: <https://doi.org/10.1094/PDIS-08-21-1603-PDN> \*Corresponding author

2020-2021

1. Characterization of *Pestalotiopsis* sp. causing gray leaf spot in coconut (*Cocos nucifera* L.) in Bangladesh. Md. Abdullahil Baki Bhuiyan, Nasrin Sultana, Nur U. Mahmud, Md. Abdul Kader, Oliul Hassan, Taehyun Chang, **Tofazzal Islam**\*, Abdul M. Akanda (2021) *Journal of Basic Microbiology* <https://doi.org/10.1002/jobm.202100253> **Impact Factor (IF): 2.281.** \*Corresponding author
2. Rapid detection of wheat blast pathogen *Magnaporthe Oryzae Triticum* pathotype using genome-speciﬁc primers and Cas12a-mediated technology. Houxiang Kang, Ye Peng, Kangyu Hua, Yufei Deng, Maria Bellizzi, Dipali Rani Gupta, Nur Uddin Mahmud, Alfredo S. Urashima, Sanjoy Kumar Paul, Gary Peterson, Yilin Zhou, Xueping Zhou, **Md Tofazzal Islam**\*, Guo-Liang Wang (2021) *Engineering*, <https://doi.org/10.1016/j.eng.2020.07.016> **Impact Factor (IF): 7.555.** \*Corresponding author
3. Hydrogen peroxide detoxifying enzymes show different activity patterns in host and non-host plant interactions with *Magnaporthe oryzae Triticum* pathotype. Gupta, D.R., Khanom, S., Rohman, M.M., Hasanuzzaman, M., Surovy, M.Z., Mahmud, N.U., Islam, M.R., Shawon, A.R., Rahman, M., Abd-Elsalam, K.A., **Islam, T.\*** (2021) *Physiology and Molecular Biology of Plants* <https://doi.org/10.1007/s12298-021-01057-4> **Impact Factor (IF): 2.391.** \*Corresponding author
4. Identification of rice blast loss-of-function mutant alleles in the wheat genome as a new strategy for wheat blast resistance breeding. Guo H, Du Q, Xie Y, Xiong H, Zhao L, Gu J, Zhao S, Song X, **Islam T** and Liu L (2021) *Frontiers in Genetics* 12:623419. doi: 10.3389/fgene.2021.623419 **Impact Factor (IF): 4.599.**
5. Characterization of *Sclerotium rolfsii* Causing Root Rot of Sugar Beet in Bangladesh. Swapan Kumar Paul, Nur Uddin Mahmud, Dipali Rani Gupta, Musrat Zahan Surovy, Mahfuzur Rahman & **Md.** **Tofazzal Islam**. *Sugar Technology* <https://doi.org/10.1007/s12355-021-00984-6> **Impact Factor (IF): 1.591.**
6. Multiplex amplicon sequencing dataset for genotyping pandemic populations of the wheat blast fungus. Batiseba Tembo, Nur Uddin Mahmud, Sanjoy Kumar Paul, Soichiro Asuke, Adeline Harant, Thorsten Langner, C. Sarai Reyes-Avila, Emilie Chanclud, Vincent Were, Suwilanji Sichilima, Rabson M. Mulenga, Dipali Rani Gupta, Md. Shabab Mehebub, Abu Naim Md. Muzahid, M. Fajle Rabby, Pawan K. Singh, Alison Bentley, Yukio Tosa, Daniel Croll, Kurt Lamour, **Tofazzal Islam**, Nicholas J. Talbot, Sophien Kamoun, Joe Win (2021) Zenodo, <http://doi.org/10.5281/zenodo.4605959>
7. Bacilli as sources of agrobiotechnology: recent advances and future directions. Zerihun T. Dame, Mahfuz Rahman, **Tofazzal Islam**\* (2021). *Green Chemistry Letters and Reviews* **14**(2): 245-270, DOI: 10.1080/17518253.2021.1905080. **Impact Factor (IF): 4.990** \*Corresponding author
8. Biological and biorational management of blast diseases in cereals caused by *Magnaporthe oryzae*. Moutoshi Chakraborty, Nur Uddin Mahmud, Chhana Ullah, Mahfuzur Rahman, **Tofazzal Islam\*** (2021) *Critical Reviews in Biotechnology*, doi: 10.1080/07388551.2021.1898325 **Impact Factor (IF): 8.429.** \*Corresponding author
9. Genome sequences of sixty *Magnaporthe oryzae* isolates from multiplehostplant species. Vincent Were, David T. Mwongera, Darren M. Soanes, Ram-Krishna Shrestha, Lauren Ryder, Andrew J. Foster, Samuel K. Mutiga, Felix Rotich, Joe Win, Thorsten Langer, Weibin Ma, Adeline Harant, Ibrahima Ouedraogo, **Tofazzal Islam**, Jim C. Correll, Sophien Kamoun, Nicholas J Talbot (2021) Zenodo, doi: 10.5281/zenodo.4627043
10. Biocontrol agent, biofumigation, and grafting with resistant rootstock suppress soil-borne disease and improve yield of tomato in West Virginia. Mahfuz Rahman, **Tofazzal Islam**, Lewis Jett, James Kotcon. *Crop Protection* 145: 105630, <https://doi.org/10.1016/j.cropro.2021.105630>, **IF: 2.571**
11. Prospect and challenges for sustainable management of climate change-associated stresses to soil and plant health by beneficial bacteria. Sarker, A., Ansary, M.W.R., Hossain, M.N., **Islam, T**\*. (2021) Stresses, 1(4), 200-222; https://doi.org/10.3390/stresses1040015. \*Corresponding author
12. Identification of marine sponge-associated bacteria of the Saint Martin's island of the Bay of Bengal emphasizing on the prevention of motile *Aeromonas* septicemia in *Labeo rohita*. Sulav Indra Paul, Md Mahbubur Rahman, Mohammad Abdus Salam, Md Arifur Rahman Khan, Md Tofazzal Islam (2021) *Aquaculture* 454: 737156. <https://doi.org/10.1016/j.aquaculture.2021.737156> **Impact Factor (IF): 4.424.**
13. Dietary chitosan promotes the growth, biochemical composition, gut microbiota, hematological parameters and internal organ morphology of juvenile *Barbonymus gonionotus*. Mohammad Abdus Salam, Md. Ashikur Rahman, Sulav Indra Paul, Fatama Islam, Avishek Kanti Barman, Zinia Rahman, Dinesh Chandra Shaha, Md. Mahbubur Rahman, Tofazzal Islam (2021) *PLoS One* 16(11): e0260192. <https://doi.org/10.1371/journal.pone.0260192> **Impact Factor (IF): 3.420.**
14. CRISPR-Cas9-mediated genome editing technology for abiotic stress tolerance in crop plant. Akbar Hossain, Md. Muzahid E. Rahman, Sahin Ali, Tanjina Islam, M. Abu Syed, Tahira Syed, Syed Adeel Zafar, Laxmipreeya Behera, Milan Skalicky, Marian Brestich, Tofazzal Islam (2021) In: Plant Perspectives to Global Climate Changes: Developing Climate Resilient Crops. Academic Press, pp. 231-354. <https://doi.org/10.1016/B978-0-323-85665-2.00008-X>
15. Neglected and underutilized crop species: are they future smart crops in fighting poverty, hunger and malnutrition under changing climate? Akbar Hossain, Mst. Tanjina Islam, Sagar Maitra, Debjyoti Majumder, Sourav Garai, Mousumi Mondal, Asgar Ahmed, Anirban Roy, Milan Skalicky, Marian Brestic, Tofazzal Islam (2021). In: Zargar S.M., Masi A., Salgotra R.K. (eds) *Neglected and Underutilized Crops - Towards Nutritional Security and Sustainability*. Springer, Singapore. <https://doi.org/10.1007/978-981-16-3876-3_1>
16. Heavy metals contamination and associated health risks in food webs—a review focuses on food safety and environmental sustainability in Bangladesh. Aniruddha Sarker, Jang-Eok Kim, Abu Reza Md. Towfiqul Islam, Muhammad Bilal, Md. Refat Jahan Rakib, Rakhi Nandi, Mohammed M. Rahman, **Tofazzal Islam\*.** (2021) *Environmental Science and Pollution Research*, in press. **Impact Factor (IF): 2.223.** \*Corresponding author
17. *Enterococcus faecalis* involved in streptococcosis like infection in silver barb (*Barbonymus gonionotus*). Rakib Ehsan, Mahbubul Alam, Tasmina Akter, Sulav Indra Paul, Md. Javed Foysal, Dipali Rani Gupta. Tofazzal Islam, Md. Mahbubur Rahman (2021) *Aquaculture Reports* **21**: 100868. <https://doi.org/10.1016/j.aqrep.2021.100868> **Impact Factor (IF): 3.216.**
18. Exogenous Application of Methyl Jasmonate and Salicylic Acid Mitigates Drought-Induced Oxidative Damages in French Bean (*Phaseolus vulgaris* L.). Mohi-Ud-Din, Mohammed, Dipa Talukder, Motiar Rohman, Jalal U. Ahmed, S. V.K. Jagadish, **Tofazzal Islam**\*, and Mirza Hasanuzzaman (2021). *Plants* 10(10): 2066. <https://doi.org/10.3390/plants10102066>. **Impact Factor (IF): 3.935\*.** \*Corresponding author
19. SARS-CoV-2 Infection reduces human nasopharyngeal commensal microbiome with inclusion of pathobionts. Hoque, M. Nazmul and Sarkar, Md. Murshed Hasan and Rahman, M. Shaminur and Akter, Shahina and Banu, Tanjina Akhtar and Goswami, Barna and Jahan, Iffat and Hossain, M. Saddam and Shamsuzzaman, A. K. Mohammad and Nafisa, Tasnim and Molla, M. Maruf Ahmed and Yeasmin, Mahmuda and Ghosh, Asish Kumar and Osman, Eshrar and Uzzaman, Mohammad Samir and Habib, Md Ahashan and Mahmud, Abu Sayeed Mohammad and Crandall, Keith A. and Khan, M. Salim and **Islam, Tofazzal**\* (2021). Available at SSRN: https://ssrn.com/abstract=3834603 or <http://dx.doi.org/10.2139/ssrn.3834603> \*Corresponding author
20. *In silico* analysis of gRNA secondary structure to predict its efficacy for plant genome editing. Hassan M.M., Chowdhury A.K., Islam T. (2021) In: Islam M.T., Molla K.A. (eds) CRISPR-Cas Methods. Springer Protocols Handbooks. Humana, New York, NY. <https://doi.org/10.1007/978-1-0716-1657-4_2>
21. Microbial co-infections in COVID-19: Associated microbiota and underlying mechanisms of pathogenesis. M. Nazmul Hoque, Salma Akter, Israt Dilruba Mishu, M. Rafiul Islam, M. Shaminur Rahman, Masuda Akhter, Israt Islam, Mehedi Mahmudul Hasan, Md. Mizanur Rahaman, Munawar Sultana, Tofazzal Islam, M. Anwar Hossain. *Microbial Pathogenesis* **156**: 104941. <https://doi.org/10.1016/j.micpath.2021.104941> **Impact Factor (IF): 3.738**
22. SARS-CoV-2 infection reduces human nasopharyngeal commensal microbiome with inclusion of pathobionts. Hoque, M. Nazmul and Sarkar, Md. Murshed Hasan and Rahman, M. Shaminur and Akter, Shahina and Banu, Tanjina Akhtar and Goswami, Barna and Jahan, Iffat and Hossain, M. Saddam and Shamsuzzaman, A. K. Mohammad and Nafisa, Tasnim and Molla, M. Maruf Ahmed and Yeasmin, Mahmuda and Ghosh, Asish Kumar and Osman, Eshrar and Uzzaman, Mohammad Samir and Habib, Md Ahashan and Mahmud, Abu Sayeed Mohammad and Crandall, Keith A. and Khan, M. Salim and Islam, Tofazzal (4/22/2021) Available at SSRN: https://ssrn.com/abstract=3834603 or <http://dx.doi.org/10.2139/ssrn.3834603>
23. Arbuscular mycorrhizal fungi: the natural biotechnological tools for sustainable crop production under saline soils in the modern era of climate change. Hossain A., Bhatt R., Arora S., Latef A.A.H.A., Islam T. (2021) In: Aftab T., Hakeem K.R. (eds) *Plant Growth Regulators*. Springer, Cham. <https://doi.org/10.1007/978-3-030-61153-8_17>
24. Prospects of nanotechnology in improving the productivity and quality of horticultural crops. Rana, Ruhul A., Md. N. Siddiqui, Milan Skalicky, Marian Brestic, Akbar Hossain, Emrul Kayesh, Marek Popov, Vaclav Hejnak, Dipali R. Gupta, Nur U. Mahmud, and **Tofazzal Islam\*** (2021) *Horticulturae* 7(10): 332. <https://doi.org/10.3390/horticulturae7100332> **Impact Factor (IF): 2.331.** \*Corresponding author
25. Uncertainty of pesticides in foodstuffs, associated environmental and health risks to humans—a critical case of Bangladesh with respect to global food policy. Sarker, A\*., **Islam, T.\***, Rahman, S., Nandi, R., Kim, J.E. (2021) *Environ Sci Pollut Res* <https://doi.org/10.1007/s11356-021-16042-3> \*Contributed equally. **Impact Factor (IF): 4.223**
26. Advances in Genomics Approaches Shed Light on Crop Domestication. Zhao, Yang, Mengfan Feng, Dev Paudel, Tofazzal Islam, Aliya Momotaz, Ziliang Luo, Zifan Zhao, Ni Wei, Sicheng Li, Qing Xia, Bowen Kuang, Xiping Yang, and Jianping Wang. (2021) *Plants* 10(8): 1571. <https://doi.org/10.3390/plants10081571> **Impact Factor (IF): 3.935**
27. Remediation of chemical pesticides from contaminated sites through potential microorganisms and their functional enzymes: Prospects and challenges. Aniruddha Sarker, Rakhi Nandi, Jang-Eok Kim, Tofazzal Islam\* (2021) *Environmental Technology & Innovation* 23: 101777, <https://doi.org/10.1016/j.eti.2021.101777> **Impact Factor (IF): 5.263.** \*Corresponding author
28. Diversity and genomic determinants of the microbiomes associated with COVID-19 and non-COVID respiratory diseases. M. Nazmul Hoque, M. Shaminur Rahman, Rasel Ahmed, Md. Sabbir Hossain, Md. Shahidul Islam, Tofazzal Islam, M. Anwar Hossain, Amam Zonaed Siddiki. *Gene Reports* 23: 101200. <https://doi.org/10.1016/j.genrep.2021.101200>
29. Choice of assemblers has a critical impact on de novo assembly of SARS-CoV-2 genome and characterizing variants. Rashedul Islam, Rajan Saha Raju, Nazia Tasnim, Md. Istiak Hossain Shihab, Maruf Ahmed Bhuiyan, Yusha Araf, **Tofazzal Islam**\* (2021) *Breefings in Bioinformatics,* bbab102, <https://doi.org/10.1093/bib/bbab102>. **Impact Factor (IF): 11.622.** \*Corresponding author
30. Tissue regeneration: How far away is the reality from science-fiction? Farhan Rahman Chowdhury, **Tofazzal Islam**\* (2021) *Trends in Cell and Molecular Biology* **15**, 33-42. \*Corresponding author
31. Gut probiotic bacteria of *Barbonymus gonionotus* improve growth, hematological parameters and reproductive performances of the host. Salam, M.A., Islam, M.A., Paul, S.I., Rahman, M.M., Rahman, M.L., Islam, F., Rahman, A., Saha, D.C., Alam, M.S., **Islam, T**. *Sci Rep* 11, 10692 (2021). <https://doi.org/10.1038/s41598-021-90158-x> **Impact Factor (IF): 4.379**
32. Plant endophytic yeasts *Pichia fermentans* and *Meyerozyma caribbica* improve growth, biochemical composition, haematological parameters and morphology of internal organs of premature *Barbonymus gonionotus*. Fatama Islam, Mohammad Abdus Salam, Md. Ashikur Rahman, Sulav Indra Paul, Tamalika Rani Das, Md. Mahbubur Rahman, Dinesh Chandra Shaha, Dipali Rani Gupta, Md Shah Alam, **Tofazzal Islam** (2021) Aquaculture Reports, 19: 100575. <https://doi.org/10.1016/j.aqrep.2020.100575> **Impact Factor (IF): 3.216.**
33. Silicon and selenium transporters in plants. Akbar Hossain, **Tofazzal Islam** (2021). In: Metal and Nutrient Transporters in Abiotic Stress, Aryadeep Roychoudhury Durgesh Tripathi Rupesh Deshmukh Eds, Elsevier, in press. [https://www.elsevier.com/.../roychoudhury/978-0-12-817955-0](https://www.elsevier.com/books/metal-and-nutrient-transporters-in-abiotic-stress/roychoudhury/978-0-12-817955-0?fbclid=IwAR0akJ04R5gluuTDIziFyyvY46ulZvJKmqtpToQXFliwm6UNCYRCPxCpyTQ)
34. Fabrication of highly and poorly oxidized silver oxide/silver/tin(IV) oxide nanocomposites and their comparative anti-pathogenic properties towards hazardous food pathogens. Md. Ikram Ul Hoque, Al-Nakib Chowdhury, **Md. Tofazzal Islam**, Shakhawat H. Firoz, Ummayhanni Luba, Azhar Alowasheeir, Md. Mahbubur Rahman, Ateeq Ur Rehman, Syed Haseeb Ali Ahmad, Rudolf Holze, Md. Shahriar A. Hossain, Saidur Rahman, Scott W. Donn, Yusuf Valentino Kaneti (2021). *Journal of Hazardous Materials* **408**: 15 April 2021, 124896. <https://doi.org/10.1016/j.jhazmat.2020.124896> **Impact Factor (IF): 10.588.**
35. Physiological and biochemical dissection reveals a trade-off between antioxidant capacity and heat tolerance in bread wheat (*Triticum aestivum* L.). Mohammed Mohi-Ud-Din, Nurealam Siddiqui, Motiar Rohman, S. V.K. Jagadish, Jalal U. Ahmed, Mohamed M. Hassan, Akbar Hossain, **Tofazzal Islam\*.** 2021. *Antioxidants* **10**(3): 351. https://doi.org/10.3390/antiox10030351 **Impact Factor (IF): 6.312.** \*Corresponding author
36. Principle, diversity, mechanism, and potential of practical application of plant probiotic bacteria for the biocontrol of phytopathogens by induced systemic resistance. Musrat Zahan Surovy, **Tofazzal Islam**\* (2021). In: Food Security and Plant Disease Management, Ajay Kumar, Samir Droby Eds. Elsevier Pubs. pp. 75-94. https://doi.org/10.1016/B978-0-12-821843-3.00004-0 \*Corresponding author
37. Selenium biofortification: roles, mechanisms, responses and prospects. Akbar Hossain, Milan Skalicky, Marian Brestic, Sagar Maitra, Sukamal Sarkar, Zahoor Ahmad, Hindu Vemuri, Sourav Garai, Mousumi Mondal, Rajan Bhatt, Pardeep Kumar, Pradipta Banerjee, Saikat Saha, **Tofazzal Islam**, Alison M. Laing (2021). Molecules **26**(4): 881. <https://doi.org/10.3390/molecules26040881> **Impact Factor (IF): 4.411.**
38. Assessment of heavy metals in the sediments of Chalan beel wetland area in Bangladesh. Mohammad Abdus Salam, Mohammad Ashraful Alam, Sulav Indra Paul, Fatama Islam, Dinesh Chandra Shaha, Mohammad Mizanur Rahman, Mohammad Arifur Rahman Khan, Mohammad Mahbubur Rahman, Abul Kalam Mohammad Aminul Islam, Tofayel Ahamed, Golum Kibria Muhammad Mustafizur Rahman, Mohammad Giashuddin Miah, Abdul Mannan Akanda, **Tofazzal Islam** (2021) *Processes* **9**(3): 410. <https://doi.org/10.3390/pr9030410> **Impact Factor (IF): 2.847.**
39. Consequences and mitigation strategies of abiotic stresses in wheat (*Triticum aestivum* L.) under the changing climate. Akbar Hossain, Milan Skalicky, Marian Brestic, Sagar Maitra, M. Ashraful Alam, M. A. Syed, Jamil Hossain, Sukamal Sarkar, Saikat Saha, Preetha Bhadra, Tanmoy Shankar, Rajan Bhatt, Apurbo Kumar Chaki, Ayman EL Sabagh, Tofazzal Islam. (2021) Agronomy **11**(2): 241. <https://doi.org/10.3390/agronomy11020241> **Impact Factor (IF): 3.417.**
40. Involvement of *Enterococcus* species in streptococcosis of Nile tilapia in Bangladesh. Tasmina Akter, Md Javed Foysal, Mahbubul Alam, Rakib Ehsan, Sulav Indra Paul, Farhana Momtaz, Muhammad A.B. Siddik, Alfred Chin Yen Tay, Ravi Fotedar, Sanjay Kumar Gupta, Tofazzal Islam, Md Mahbubur Rahman. (2021) *Aquaculture* **531**: 30 January 2021, 735790. <https://doi.org/10.1016/j.aquaculture.2020.735790> **Impact Factor (IF): 4.242.**
41. Gene editing in filamentous fungi and oomycetes using CRISPR-Cas technology. Sanjoy Kumar Paul, Tasmina Akter, **Tofazzal Islam\*** (2021) In *CRISPR and RNAi Systems*, Kamel A. Abd-Elsalam and Ki-Taek Lim eds., Elsevier Inc., <https://doi.org/10.1016/B978-0-12-821910-2.00014-X>. pp. 723-753. \*Corresponding author
42. Zerovalent Iron Modulates the Influence of Arsenic-Contaminated Soil on Growth, Yield and Grain Quality of Rice. Akter, Sanjida; Rahman, Golum K.M.M.; Hasanuzzaman, Mirza; Alam, Zakaria; Watanabe, Toshihiro; **Islam, Tofazzal**\* (2021) Stresses 1, no. 2: 90-104. <https://doi.org/10.3390/stresses1020008>. \*Corresponding author
43. First Report of collar and root rot of faba bean caused by *Rhizoctonia solani* AG-2-2 IIIB in Bangladesh. S. K. Paul, N. U. Mahmud, A. N. M. Muzahid, and Tofazzal Islam\* (2021) Plant Disease <https://doi.org/10.1094/PDIS-08-21-1603-PDN> \*Corresponding author **Impact Factor (IF): 4.438.**
44. First Report of *Fusarium sacchari* causing sugarcane wilt in Bangladesh. S. K. Paul, N. U. Mahmud, D. R. Gupta, M. N. Alam, M. Chakraborty, and Tofazzal Islam\* (2021) Plant Disease <https://doi.org/10.1094/PDIS-04-21-0681-PDN> \*Corresponding author **Impact Factor (IF): 4.438.**
45. First Report of Basal Rot of Dragon Fruit Caused by *Fusarium oxysporum* in Bangladesh. N. U. Mahmud, M. Chakraborty, S. K. Paul, D. R. Gupta, M. Z. Surovy, Mahfuzur Rahman, and Md. Tofazzal Islam\* (2021) Plant Disease 105(1): <https://doi.org/10.1094/PDIS-01-20-0005-PDN> \*Corresponding author **Impact Factor (IF): 4.438.**
46. Wheat (*Triticum aestivum* L.) in the rice-wheat systems of South Asia is influenced by terminal heat stress at late sown condition: A case in Bangladesh. Akbar Hossain, Mst. Tanjina Islam and **M. Tofazzal Islam** (2021). In *Plant Stress Physiology*, Akbar Hossain ed. IntechOpen, DOI: 10.5772/intechopen.91828
47. Isolation, morphological and biochemical characterization of rhizobacteria from arsenic contaminated paddy soils in Bangladesh: An in vitro study. Hossain, M. M., Rahman, G. K. M. M., Akanda, M. A. M., Solaiman, A. R. M., **Islam, M. T.,** Rahman, M. M. (2021). *Asian Journal of Soil Science and Plant Nutrition* ***7***(2): 41-55. <https://doi.org/10.9734/ajsspn/2021/v7i230110>
48. Challenges in medical waste management amid COVID-19 pandemic in a megacity Dhaka. Golam Mahbub Faisal, M. Nazmul Hoque, M. Shaminur Rahman, **Tofazzal Islam**\* (2021) *J Adv Biotechnol Exp Ther.* 4(1): 106-113. <https://doi.org/10.5455/jabet.2021.d111> \*Corresponding author.
49. Inhibitory effects of linear lipopeptides from a marine *Bacillus subtilis* on the wheat blast fungus *Magnaporthe oryzae Triticum*. Moutoshi Chakraborty, Nur Uddin Mahmud, Dipali Rani Gupta, Fakir Shahidullah Tareq, Hee Jae Shin, **Tofazzal Islam\***. (2020) *Frontiers in Microbiology* **11:**665.doi: 10.3389/fmicb.2020.00665. **Impact Factor (IF): 5.640.** \*Corresponding author
50. Mechanism of plant growth promotion and disease suppression by chitosan biopolymer. Moutoshi Chakraborty, Mirza Hasanuzzaman, Mahfuzur Rahman, Md. Arifur Rahman Khan, Pankaj Bhowmik, Nur Uddin Mahmud, Mohsin Tanveer, **Tofazzal Islam**\* (2020). *Agriculture* 2020, **10**(12), 624; <https://doi.org/10.3390/agriculture10120624> **Impact Factor (IF): 2.925.** \*Corresponding author
51. Wheat blast: a new threat to food security. **M. Tofazzal Islam\*,** Dipali Rani Gupta, Akbar Hossain, Krishna K. Roy, Xinyao He, Muhammad R. Kabir, Pawan K. Singh, Md. Arifur Rahman Khan, Mahfuzur Rahman & Guo-Liang Wang(2020). *Phytopathology Research* **2:** 28. <https://doi.org/10.1186/s42483-020-00067-6> \*Corresponding author
52. Mobilizing Crop Biodiversity. Susan McCouch, Zahra Katy Navabi, Michael Abberton, Noelle L. Anglin, Rosa Lia Barbieri, Michael Baum, Kirstin Bett, Helen Booker, Gerald L. Brown, Glenn J. Bryan, Luigi Cattivelli, David Charest, Kellye Eversole, Marcelo Freitas, Kioumars Ghamkhar, Dario Grattapaglia, Robert Henry, Maria Cleria Valadares Inglis, **Tofazzal Islam**, Zakaria Kehel, Paul J. Kersey, Graham J. King, Stephen Kresovich, Emily Marden, Sean Mayes, Marie Noelle Ndjiondjop, Henry T. Nguyen, Samuel Rezende Paiva, Roberto Papa, Peter W.B. Phillips, Awais Rasheed, Christopher Richards, Mathieu Rouard, Maria Jose Amstalden Sampaio, Uwe Scholz, Paul D. Shaw, Brad Sherman, S. Evan Staton, Nils Stein, Jan Svensson, Mark Tester, Jose Francisco Montenegro Valls, Rajeev Varshney, Stephen Visscher, Eric von Wettberg, Robbie Waugh, Peter Wenzl, Loren H. Rieseberg (2020) *Molecular Plant* **13**(10): 1341-1344. doi.org/10.1016/j.molp.2020.08.011 **Impact Factor (IF): 13.164**
53. [Oligomycins Inhibit *Magnaporthe oryzae Triticum* and suppress wheat blast disease](https://www.biorxiv.org/content/10.1101/2020.05.13.094151v1.abstract). Moutoshi Chakraborty, Nur Uddin Mahmud, Abu Naim Md Muzahid, SM Fajle Rabby, **Tofazzal Islam\***. *BioRxiv* doi: <https://doi.org/10.1101/2020.05.13.094151> \*Corresponding author
54. Whole-genome sequence of a plant growth-promoting strain, *Serratia marcescens* BTL07, isolated from the rhizoplane of *Capsicum annuum* L. Sudipta Dutta, Amena Khatun, Dipali Rani Gupta, Musrat Zahan Surovy, M Mahbubur Rahman, Nur Uddin Mahmud, Richard D Emes, Andrew Warry, Helen M West, Michèle L Clarke, M Nazmul Hoque, Muhammad Maqsud Hossain, Mohammad Abdus Salam, **M Tofazzal Islam\***. *Microbiol Resour Announc* **9**: e01484-19. <https://doi.org/10.1128/MRA.01484-19> \*Corresponding author
55. Modulation of nutritional and biochemical properties of wheat grains infected by the blast fungus *Magnaporthe oryzae Triticum* pathotype. Musrat Zahan Surovy, Dipali Rani Gupta, Nur Uddin Mahmud, Pallab Bhattacharjee, Md Shaid Hossain, Md Mehebub, Mosaddiq Rahaman Rahi, Bhaskar Chandra Majumdar, **Tofazzal Islam\***. *Frontiers in Microbiology* **11**:1174. doi: 10.3389/fmicb.2020.01174 **Impact Factor (IF): 5.640.** \*Corresponding author
56. Whole-genome sequence of fish-pathogenic *Enterococcus faecalis* strain BFFF11. Tasmina Akter, M. Mahbubur Rahman, Alfred Chin Yen Tay, Rakib Ehsan, M. Tofazzal Islam. *Microbiology Resource Announcement* **9**: e01447-19. doi: 10.1128/MRA.01447-19
57. Suitable methods for isolation, culture, storage and identification of wheat blast fungus *Magnaporthe oryzae Triticum* pathotype. Dipali Rani Gupta, Musrat Zahan Surovy, Nur Uddin Mahmud, Moutoshi Chakraborty, Sanjoy Kumar Paul, Md. Shaid Hossain, Pallab Bhattacharjee, Md. Shabab Mehebub, Kanistha Rani, Rumana Yeasmin, Mahfuzur Rahman and **Md Tofazzal Islam**\* (2020) *Phytopathology Research* **2:**30. <https://doi.org/10.1186/s42483-020-00070-x> \*Corresponding author
58. Nitrogen Use Efficiency in Rice under Abiotic Stress: Plant Breeding Approach. Satyen Mondal, Jamil Hasan, Priya Lal Biswas, Emam Ahmed, Tuhin Halder, Md. Panna Ali, Amina Khatun, Muhammad Nasim, Tofazzal Islam, Evangelina S. Ella and Endang M. Septiningsih (October 15th 2020). IntechOpen, DOI: 10.5772/intechopen.94038. Available from: <https://cwww.intechopen.com/online-first/nitrogen-use-efficiency-in-rice-under-abiotic-stress-plant-breeding-approach>
59. Tackling the COVID-19 pandemic: The Bangladesh perspective. Md Taimur Islam, Anup Kumar Talukder, Md Nurealam Siddiqui, Tofazzal Islam (2020) *J Public Health Res.* **9**(4):1794. doi: 10.4081/jphr.2020.1794.
60. Application of *Gliricidia sepium* tree leaves and nitrogen fertilizer to improve tomato production and soil properties. S. S. Keya, M. G. Miah, M. A. Rahman and M. Tofazzal Islam (2020) Annals of Bangladesh Agriculture 24 (1): 77-87. [www.doi.org/10.3329/aba.v24i1.51937](http://www.doi.org/10.3329/aba.v24i1.51937)
61. Whole-genome sequence of *Bacillus subtilis* WS1A, a promising fish probiotic strain isolated from marine sponge of the Bay of Bengal. M. Mahbubur Rahman, Sulav Indra Paul, Tasmina Akter, Alfred Chin Yen Tay, M. Javed Foysal, **M. Tofazzal Islam** (2020) *Microbiology Resource Announcement* **9**: e00641-20. https://doi.org/10.1128/MRA.00641-20
62. Genomic diversity and evolution, diagnosis, prevention, and therapeutics of the pandemic COVID-19 disease. M. Nazmul Hoque, Abed Chaudhury, Md Abdul Mannan Akanda, M. Anwar Hossain, **Md Tofazzal Islam**\* (2020) *PeerJ* **8**: e9689 <http://doi.org/10.7717/peerj.9689> **Impact Factor (IF): 2.984.** \*Corresponding author
63. Oligomycins inhibit Magnaporthe oryzae Triticum and suppress wheat blast disease. Chakraborty M, Mahmud NU, Muzahid ANM, Rabby SMF, **Islam T**\* (2020) *PLoS ONE* **15**(8): e0233665. <https://doi.org/10.1371/journal.pone.0233665> **Impact Factor (IF): 3.240.** \*Corresponding author
64. First Report of Basal Rot of Dragon Fruit Caused by *Fusarium oxysporum* in Bangladesh. N. U. Mahmud, M. Chakraborty, S. K. Paul, D. R. Gupta, M. Z. Surovy, Mahfuzur Rahman, and **Md. Tofazzal Islam**\* (2020). *Plant Disease*, 13 Nov 2020https://doi.org/10.1094/PDIS-01-20-0005-PDN **Impact Factor (IF): 4.438.** \*Corresponding author
65. Revisiting the plant growth-promoting rhizobacteria: lessons from the past and objectives for the future. Abhinav Aeron, Ekta Khare, Chaitanya Kumar Jha, Vijay Singh Meena, Shadia Mohammed Abdel Aziz, **Mohammed Tofazzal Islam**, Kangmin Kim, Sunita Kumari Meena, Arunava Pattanayak, Hosahatti Rajashekara, Ramesh Chandra Dubey, Bihari Ram Maurya, Dinesh Kumar Maheshwari, Meenu Saraf, Mahipal Choudhary, Rajhans Verma, H. N. Meena, A. R. N. S. Subbanna, Manoj Parihar, Shruti Shukla, Govarthanan Muthusamy, Ram Swaroop Bana, Vivek K. Bajpai, Young-Kyu Han, Mahfuzur Rahman, Dileep Kumar, Norang Pal Singh & Rajesh Kumar Meena (2020) *Archives of Microbiology*  **202:**665–676. <https://doi.org/10.1007/s00203-019-01779-w> **Impact Factor (IF): 2.552.**
66. Wheat (*Triticum aestivum* L.) in the Rice-Wheat Systems of South Asia Is Influenced by Terminal Heat Stress at Late Sown Condition: A Case in Bangladesh (2020) Akbar Hossain, Mst. Tanjina Islam and **M. Tofazzal Islam** (2020). In: *Plant Stress Physiology*, IntechOpen, DOI: 10.5772/intechopen.91828
67. Application of Nanotechnology for Sustainable Crop Production Systems. Hossain A., Kerry R.G., Farooq M., Abdullah N., **Tofazzal Islam M.** (2020) In: Thangadurai D., Sangeetha J., Prasad R. (eds) *Nanotechnology for Food, Agriculture, and Environment*. Nanotechnology in the Life Sciences. Springer, Cham. pp. 135-159. <https://doi.org/10.1007/978-3-030-31938-0_7>
68. Nutrient Management for Improving Abiotic Stress Tolerance in Legumes of the Family Fabaceae. Akbar Hossain, Ayman EL Sabagh, Murat Erman, Shah Fahad, **Tofazzal Islam**, Rajan Bhatt, Mirza Hasanuzzaman (2020) In: *The Plant Family Fabaceae*, Hasanuzzaman M., Araújo S., Gill S. (eds). Springer, Singapore, pp. 393-415. <https://doi.org/10.1007/978-981-15-4752-2_15>
69. CRISPR-Cas9-Mediated Gene Editing in Wheat: A Step-by-Step Protocol. Pankaj K Bhowmik, **M Tofazzal Islam** (2020) In: *CRISPR-Cas Methods*, **M. Tofazzal Islam** et al. eds. Springer Protocols Handbooks. Humana, New York, NY. pp. 203-222. <https://doi.org/10.1007/978-1-0716-0616-2_13>
70. Wide Horizons of CRISPR-Cas-Derived Technologies for Basic Biology, Agriculture, and Medicine. Kutubuddin A Molla, Subhasis Karmakar, **M Tofazzal Islam** (2020) In: *CRISPR-Cas Methods*, **M. Tofazzal Islam** et al. eds. Springer Protocols Handbooks. Humana, New York, NY. pp. 1-23. <https://doi.org/10.1007/978-1-0716-0616-2_1>
71. Morphological, Physiobiochemical and Molecular Adaptability of Legumes of Fabaceae to Drought Stress, with Special Reference to *Medicago Sativa* L. Akbar Hossain, Muhammad Farooq, Ayman EL Sabagh, Mirza Hasanuzzaman, Murat Erman, **Tofazzal Islam** (2020) In: *The Plant Family Fabaceae*, Hasanuzzaman M., Araújo S., Gill S. (eds). Springer, Singapore, pp. 289-317. <https://doi.org/10.1007/978-981-15-4752-2_11>
72. Involvement of *Enterococcus* species in *streptococcosis* of Nile tilapia in Bangladesh. Tasmina Akter, Md Javed Foysal, Mahbubul Alam, Rakib Ehsan, Sulav Indra Paul, Farhana Momtaz, Muhammad A.B. Siddik, Alfred Chin Yen Tay, Ravi Fotedar, Sanjay Kumar Gupta, **Tofazzal Islam**, Md Mahbubur Rahman (2021) *Aquaculture*  531: 2021, 735790, <https://doi.org/10.1016/j.aquaculture.2020.735790>. **Impact Factor (IF): 4.242.**

**2017-2019**

1. Plant health emergencies demand open science: Tackling a cereal killer on the run. Kamoun S, Talbot NJ, **Islam MT**. (2019) *PLoS Biology* **17**(6): e3000302. [https://doi.org/10.1371/journal. pbio.3000302](https://doi.org/10.1371/journal.%20pbio.3000302) **Impact Factor (IF): 8.029**
2. Molecular identification of *Vibrio alginolyticus* causing vibriosis in shrimp and its herbal remedy. Md Abdul Hannan, Md Mahbubur Rahman, Md Nurunnabi Mondal, DEB SUZAN CHANDRA, Gazlima Chowdhury, **Md Tofazzal Islam**. (2019) *Polish Journal of Microbiology* 68(4): 429-438. doi: 10.33073/pjm-2019-042. **Impact Factor (IF):** 1.280
3. Cytotoxic and anti-inflammatory resorcinol and alkylbenzoquinone derivatives from the leaves of *Ardisia sieboldii*. Md Shahinozzaman, Takahiro Ishii, Mohammad A Halim, Md Amzad Hossain, **Md Tofazzal Islam**, Shinkichi Tawata. *Zeitschrift für Naturforschung C* 74 (11-12): 303-311. **Impact Factor (IF):** 1.649
4. *Rmg8* confers resistance to the Bangladeshi lineage of the wheat blast fungus. Jensen, C., Tosa, Y., Islam, M.T., Talbot, N.J., Kamoun, S., and Saunders, D.G.O. 2019. Zenodo, <http://doi.org/10.5281/zenodo.2574196>.
5. Nanopore sequencing of genomic DNA from *Magnaporthe oryzae* isolates from different hosts. Win, J., Chanclud, E., Reyes-Avila, C.S., Langner, T., Islam, T., and Kamoun, S. 2019. Zenodo, <http://doi.org/10.5281/zenodo.2564950>
6. Chitosan biopolymer improves the fruit quality of litchi (*Litchi chinensis* Sonn.). Mehebub MS, Mahmud NU, Rahman M, Surovy MZ, Gupta DR, Hasanuzzaman M, Rahman M, **Islam MT\*** (2019) *Acta Agrobot.* **72**(2):1773. <https://doi.org/10.5586/aa.1773> \*Corresponding author
7. Simultaneous detection of *Colletotrichum acutatum* and *C. gloeosporioides* from quiescently infected strawberry foliage by real-time PCR based on high resolution melt curve analysis. Rahman M, **Islam T**, Schwegel R, Louws F (2019) *American Journal of Plant Sciences* **10**: 382-401. doi: [10.4236/ajps.2019.103028](https://doi.org/10.4236/ajps.2019.103028).
8. Improving yield and antioxidant properties of strawberries by utilizing microbes and natural products. Rahman M, Rahman M, **Islam T** (March 15th 2019) In: *Strawberry - Pre- and post-harvest management techniques for higher fruit quality*. Asao T, Asaduzzaman M eds. [Online First], IntechOpen, DOI: 10.5772/intechopen.84803.

1. First report of dragon fruit stem canker caused by *Lasiodiplodia theobromae* in Bangladesh. Preangka Saha Briste, MAB Bhuiyan, Abdul Mannan Akanda, Oliul Hassan, Nur Uddin Mahmud, Md Abdul Kader, Taehyun Chang, **Md. Tofazzal Islam\*** (2018) *Plant Disease,* **Published Online:** 23 May 2019 <https://doi.org/10.1094/PDIS-03-19-0619-PDN> (\*Corresponding author), **Impact Factor (IF): 4.438**
2. Probiotic bacilli in sustainable aquaculture. Rahman, MM, Kawser AQMR, **Islam MT** (2019) In: *Bacilli in Agrobiotechnology: Phytostimulant and Biocontrol*, Islam MT et al. eds. Springer Nature Switzerland AG.

 <https://www.springer.com/gp/book/9783030151744#aboutBook>

1. Chitosan biostimulant controls infection of cucumber by *Phytophthora capsici* through suppression of asexual reproduction of the pathogen. Zohara F, Surovy MZ, Khatun A, Prince MFRK, Akanda MAM, Rahman M, **Islam MT** (2019) *Acta Agrobot.* 72(1):1763. https://doi. org/10.5586/aa.1763

1. Applications of nanomaterials for future food security: challenges and prospects. Islam MT (2019) *Malaysian Journal of Halal Research* **3**(1): 6-9. DOI: <https://doi.org/10.2478/mjhr-2019-0002>
2. Wheat blast in Bangladesh: the current situation and future impacts. **M. Tofazzal Islam\***, Kwang-Hyung Kim, and Jaehyuk Choi (2019) *Plant Pathology Journal* 35(1): 1–10. (\*Corresponding author), **Impact Factor (IF): 1.795**
3. Identification and application of a fungal biocontrol agent *Cladosporium cladosporioides* against *Bemisia tabaci.* Islam T, Gupta DR, Surovy MZ, Mahmud NU, Mazlan N, **Islam MT\*.** (2019). *Biotechnology & Biotechnological Equipment*. **33**(1):1698-1705. (\*Corresponding author), **Impact Factor (IF): 1.632**
4. *Pyricularia graminis-tritici* is not the correct species name for the wheat blast fungus: Response to Ceresini et al. (this issue). Barbara Valent, Mark Farman, Yukio Tosa, Dominik Begerow, Elisabeth Fournier, Pierre Gladieux, **M. Tofazzal Islam,** Sophien Kamoun, Martin Kemler, Linda M. Kohn, Marc-Henri Lebrun, Jason Stajich, Nicholas J. Talbot, Ryohei Terauchi, Didier Tharreau, Ning Zhang (2019). *Molecular Plant Pathology* 20(2): 173–179. DOI: 10.1111/mpp.12778. **Impact Factor (IF): 5.663**
5. Cautionary notes on use of the MoT3 diagnostic assay for *Magnaporthe oryzae* wheat and rice blast isolates. Dipali Rani Gupta, Claudia Sarai Reyes Avila, Joe Win, Darren M. Soanes, Lauren S. Ryder, Daniel Croll, Pallab Bhattacharjee, Md. Shaid Hossain, Nur Uddin Mahmud, Md. Shabab Mehbub, Musrat Zahan Surovy, Md Mahbubur Rahman, Nicholas J. Talbot, Sophien Kamoun, **M. Tofazzal Islam\*** (2019). *Phytopathology* 109(4): 504-508. doi: 10.1094/PHYTO-06-18-0199-LE (\*Corresponding author), **IF: 4.025.**
6. Approaches for Enhancing Abiotic Stress Tolerance in Plants. Edited by Mirza Hasanuzzaman, Kamrun Nahar, Masayuki Fujita, Hirosuke Oku, **Tofazzal Islam** (2019), CRC Press, Taylor and Francis, New York, pp. 584.
7. Application of CRISPR-Cas genome editing tools for the improvement of plant abiotic stress tolerance. Md Tofazzal Islam, Pankaj Bhowmik, Md Kutubuddin (2019) In: *Approaches for Enhancing Abiotic Stress Tolerance in Plants*, CRC Press, Taylor and Francis, New York, pp. 345-365.
8. First report of Fusarium wilt caused by *Fusarium oxysporum* on strawberry in Bangladesh.Musrat Zahan Surovy, Md. Khairul Kabir, Dr. Dipali Rani Gupta, Oliul Hassan, Nur Uddin Mahmud, Abdullah As Sabir, Mahfuzur Rahman, Taehyun Chang, Daniel Panaccione, **Md. Tofazzal Islam**\* (2018) *Plant Disease,* **103** (2):367-68. <https://doi.org/10.1094/PDIS-07-18-1121-PDN> [Epub ahead of print] (\*Corresponding author), **IF: 4.438**
9. A new pathotype of *Magnaporthe oryzae* causing devastating wheat blast disease in multiple continents. M. Tofazzal Islam (2018) *Phytopathology* **108**:S2.16. <https://doi.org/10.1094/PHYTO-108-12-S2.14> **IF: 4.025.**

1. First report of anthracnose crown rot of strawberry caused by *Colletotrichum siamense* in Rajshahi district of Bangladesh. Dipali Rani Gupta, Md. Khairul Kabir, Oliul Hassan, Abdullah As Sabir, Nur Uddin Mahmud, Musrat Zahan Surovy, Mahfuzur Rahman, Taehyun Chang, Daniel Panaccione, **Md. Tofazzal Islam**\* (2018) *Plant Disease* **103**(3): 580. <https://doi.org/10.1094/PDIS-08-18-1461-PDN> (\*Corresponding author), **IF: 4.438**
2. Genome sequences of candidate wheat blast biocontrol bacteria. Sophien Kamoun Emilie Chanclud, Joe Win, Jacob Malone, Musrat Zahan Surovy, Dipali Rani Gupta, **Tofazzal Islam\***. *Figshare,* <https://doi.org/10.6084/m9.figshare.5558641.v1> (\*Corresponding author)
3. Enhancement of Abiotic Stress Tolerance in Plants by Probiotic Bacteria. Md. Mohibul Alam Khan, Patrick Michael Finnegan, Sajid Mahmood, Yasir Anwar, Saleh M. S. Al-Garni, Ahmed Bahieldin, **Md. Tofazzal Islam** (2018) In: Plant Tolerance to Environmental Stresses: Role of Exogenous Phytoprotectants, CRC Press, Taylor and Francis, New York, pp. 381-402.
4. Plant Tolerance to Environmental Stress: Role of Phytoprotectants. Edited by Mirza Hasanuzzaman, Masayuki Fujita, Hirosuke Oku, **Tofazzal Islam** (2018), CRC Press, Taylor and Francis, New York, pp. 458.
5. Chitosan biopolymer promotes yield and stimulates accumulation of antioxidants in strawberry fruit. Rahman M, Mukta JA, Sabir AA, Gupta DR, Mohi-Ud-Din M, Hasanuzzaman M, Miah MG, Rahman M, Islam MT\* (2018) *PLOS ONE* **13**(9): e0203769. <https://doi.org/10.1371/journal.pone.0203769> (\*Corresponding author), **IF: 3.240**
6. Salinity stress accelerates nutrients, dietary fiber, minerals, phytochemicals and antioxidant activity in *Amaranthus tricolor* leaves. Umakanta Sarker, **Md Tofazzal Islam**, Shinya Oba (2018) *PLOS ONE*, Nov 1; 13(11): e0206388. doi: 10.1371/journal.pone.0206388. **IF: 3.240**
7. Glucose isomerization catalyzed by bone char and the selective production of 5-hydroxymethylfurfural in aqueous media. Babasaheb M. Matsagar, Chi Van Nguyen, Md. Shahriar A. Hossain, **Md. Tofazzal Islam**, Yusuke Yamauchi, Paresh L. Dhepe, Kevin C.-W. Wu (2018) *Sustainable Energy Fuels* **2**: 2148-2153. DOI: 10.1039/C8SE00339D **Impact Factor: 6.367**

### The MoT3 assay does not distinguish between *Magnaporthe oryzae* wheat and rice blast isolates from Bangladesh. Dipali Rani Gupta, Claudia Sarai Reyes Avila, Joe Win, Darren M. Soanes, Lauren S. Ryder, Daniel Croll, Pallab Bhattacharjee, Md. Shaid Hossain, Nur Uddin Mahmud, Md. Shabab Mehbub, Musrat Zahan Surovy, Nicholas J. Talbot, Sophien Kamoun, **M. Tofazzal Islam**\* (2018) *bioRxiv*, doi: <https://doi.org/10.1101/345215> (\*Corresponding author)

1. Jute-derived microporous/mesoporous carbon with ultra-high surface area using a chemical activation process. Junayet Hossain Khan, Freddy Marpaung, Christine Young, Jianjian Lin, **Md Tofazzal Islam**, Saad M. Alsherie, Tansir Ahamad, Norah Alhokbany, Katsuhiko Ariga, Lok Kumar Shrestha, Yusuke Yamauchi, Kevin C.-W. Wu, Md Shahriar A. Hossain, Jeonghun Kim (2018) *Microporous and Mesoporous Materials* 274: 251-256, <https://doi.org/10.1016/j.micromeso.2018.07.050>. **IF: 5.455**
2. Open science and international collaboration to tackle the fearsome wheat blast in Asia and beyond. M. Tofazzal Islam, Sophien Kamoun (2018) *Phytopathology* 108:S1.276. <https://doi.org/10.1094/PHYTO-108-10-S1.240> **Impact Factor: 4.025**
3. High surface area nanoporous carbon derived from high quality jute from Bangladesh. Junayet Hossain Khan, Jianjian Lina, Christine Young, Babasaheb M. Matsagar, Kevin C.W. Wu, Paresh L. Dhepe, **Md Tofazzal Islam**, Md Mahbubur Rahman, Lok Kumar Shrestha, Saad M. Alshehri, Tansir Ahamad, Rahul R. Salunkhe, Nanjundan Ashok Kumar, Darren J. Martin, Yusuke Yamauchi, Md Shahriar A. Hossain (2018) *Materials Chemistry and Physics* 216: 491-495. **IF: 4.094**
4. A Novel Method for the Pentosan Analysis Present in Jute Biomass and Its Conversion into Sugar Monomers Using Acidic Ionic Liquid. Matsagar, B.M., Hossain, S.A., **Islam, T.**, Yamauchi, Y., Wu, K.C. (2018) *Journal of Visualized Experiments* (136): e57613, doi:10.3791/57613. **IF: 1.355**

# Mussel-inspired immobilization of silver nanoparticles toward antimicrobial cellulose paper. Md. Shafiqul Islam, Nahida Akter, Md. Mahbubur Rahman, Chen Shi, **M. Tofazzal Islam**, Hongbo Zeng, Md. Shafiul Azam (2018) *ACS Sustainable Chemistry and Engineering* 6 (7): 9178–9188. DOI: 10.1021/acssuschemeng.8b01523. **IF: 8.198**

# Antioxidant leaf pigments and variability in vegetable amaranth. Umakanta SARKER, **Md. Tofazzal ISLAM**, Md. Golam RABBANI, Shinya OBA (2018) *GENETIKA* 50(1): 209-220. **IF: 0.761**

1. Plant probiotic bacteria *Bacillus* and *Paraburkholderia* improve growth, yield and content of antioxidants in strawberry fruit. Mosaddiqur Rahman, Abdullah As Sabir, Julakha Akter Mukta, Md. Mohibul Alam Khan, Mohammad Mohi-Ud-Di, Md. Gishuddin Miah, Mahfuzur Rahman, **Md Tofazza Islam\*** (2018) *Scientific Reports* **8**:2504. (\*Corresponding author), **IF: 4.379**
2. Application of CRISPR/Cas9 Genome Editing Technology for the Improvement of Crops Cultivated in Tropical Climates: Recent Progress, Prospects, and Challenges. Haque E, Taniguchi H, Hassan MM, Bhowmik P, Karim MR, Smiech M, Zhao K, Rahman M and **Islam T\*** (2018) *Frontiers in Plant Science* (2018) 9:617. doi: 10.3389/fpls.2018.00617. (\*Corresponding author), **IF: 5.753**
3. Drought stress tolerance in wheat: omics approaches in understanding and enhancing antioxidant defense. Mirza Hasanuzzaman, Jubayer Al Mahmud, Taufika Islam Anee, Kamrun Nahar, and **Md. Tofazzal Islam**. In: *Abiotic Stress-Mediated Sensing and Signaling in Plants: An Omics Perspective*. S.M. Zargar, M.Y. Zargar (eds.), Springer Science+Business Media Singapore (2018), pp 243-266.
4. *Pseudomonas* and *Burkholderia* inhibit growth and asexual development of *Phytophthora capsici*. Amena Khatun, Tarin Farhana, Abdullah As Sabir, Shah Mohammad Naimul Islam, Helen M. West, Mahfuzur Rahman and **Tofazzal Islam\*** (2018) *Zeitschrift fuer Naturforschung C* **73**(3–4)c:123–135. (\*Corresponding author), **IF: 1.649**
5. Anti-staphylococcal calopins from fruiting bodies of *Caloboletus radicans*. Fakir Shahidullah Tareq, Choudhury Mahmood Hasan, M. Mukhlesur Rahman, Mohd Mukrish Mohd Hanafi, Lucio Colombi Ciacchi, Monika Michaelis, Tilmann Harder, Jan Tebben, **Md. Tofazzal Islam**, and Peter Spiteller (2018) *Journal of Natural Products* **81**:400–404. **IF: 4.050**

# Anthraquinones and flavanols isolated from the vegetable herb Rumex abyssinicus inhibit motility of Phytophthora capsici zoospores. M. F. Tala, M. W. R. Ansary, F. M. Talontsi, T. K. Kowa, **M. Tofazzal Islam**, P. Tane (2018) *South African Journal of Botany* 115:1-4**. IF: 2.315**

# Endophytic Bacillus spp. from medicinal plants inhibit mycelial growth of Sclerotinia sclerotiorum and promote plant growth. Most. Waheda Rahman Ansary, Md. Ferdous Rezwan Khan Prince, Effi Haque, Farzana Sultan, Helen M. West, Md. Mahbubur Rahman, Md. Abdul Mojid Mondol, Abdul Mannan Akanda, Mahfuzur Rahman, Michele L. Clarke, **Md. Tofazzal Islam\*** (2018) *Zeitschrift für Naturforschung C*. 73(5-6): 247–256. DOI: <https://doi.org/10.1515/znc-2018-0002> (\*Corresponding author), **IF: 1.649**

1. Omics-based strategies for improving salt tolerance in maize (*Zea mays* L.). Mohammed Shalim Uddin, Masum Billah, Neelima Hossain, Shamim Ara Bagum, and **M. Tofazzal Islam\*** (2018) In: Abiotic Stress-Mediated Sensing and Signaling in Plants: An Omics Perspective. S.M. Zargar, M.Y. Zargar (eds.), Springer Science+Business Media Singapore, pp. 243-266. (\*Corresponding author)
2. Attitude and consumption of Bangladeshi professional towards biotechnological products. Abu Habib Md. Abdullah, Md. Safiul Islam Afrad, AKM Abdul Hannan Bhuiyan, Md. Enamul Haque, and **Md. Tofazzal Islam\* (2018)**. *Agriculture and Food Security* 7:2 https://doi.org/10.1186/s40066-017-0155-z. (\*Corresponding author).
3. Phenotypic divergence in vegetable amaranth for total antioxidant capacity, antioxidant profile, dietary fiber, nutritional and agronomic traits.Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba (2018) *Acta Agriculturae Scandinavica, Section B — Soil & Plant Science* **68**: 67-76. <http://dx.doi.org/10.1080/09064710.2017.1367029>. **IF: 1.694**
4. Preparation of Ultraviolet curing types silicone type silicone rubbers containing mesoporous silica fillers. Abdullah, Nawfel, Hossain, Md. Shahriar A, Fatehmulla, Amanullah, Farooq, Wazirzada Aslam, **Islam, Md. Tofazzal**, Miyamoto, Nobuyoshi, Bando, Yoshio, Kamachi, Yuichiro, Malgras, Victor, Yamauchi, Yusuke, Suzuki, Norihiro (2018). *Journal of Nanoscience and Nanotechnology* **18**: 86-89.
5. Tuning wall thickness in mesoporous silica films for optimization of optical antireflective properties. Abdullah, Nawfel, Hossain, Md. Shahriar A, Konstantinov, Konstantin, Tanabe, Hirofumi, Matsuura, Mikiya, Maekawa, Kazuhiko, Fatehmulla, Amanullah, Farooq, Wazirzada Aslam, **Islam, Md. Tofazzal**, Bando, Yoshio, Kaneti, Yusuf Valentino, Yamauchi, Yusuke (2018). *Journal of Nanoscience and Nanotechnology* **18**: 100-103.
6. Genomic analyses reveal that biocontrol of wheat blast by *Bacillus* spp. may be linked with production of antimicrobial compounds and induced systemic resistance in host plants. Dutta S, Surovy MZ, Gupta DR, Mahmud NU, Chanclud E, Win J, Kamoun S, **Islam T**. (2018). Figshare [***doi: 10.6084/m9.figshare.5852661.v1***](https://doi.org/10.6084/m9.figshare.5852661.v1)***.***
7. Variability in total antioxidant capacity, antioxidant leaf pigments and foliage yield of vegetable amaranth. Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba (2018) *Journal of Integrative Agriculture* **17**: 1145-1153. [https://doi.org/10.1016/S2095-3119(17)61778-7](https://doi.org/10.1016/S2095-3119%2817%2961778-7), **IF: 2.848**
8. A Simple approach to generate hollow carbon nanospheres loaded with uniformly dispersed metal nanoparticles. Yunqi Li, Haibo Tan, Toshiaki Takei, Md. Shahriar A. Hossain, **Md. Tofazzal Islam**, Saad M. Alshehri, Tansir Ahamad, Rahul R. Salunkhe, Subrata Pradhan, Joel Henzie, Yusuke Yamauchi, and Katsuhiko Ariga (2017) *European Journal of Inorganic Chemistry* 2017(45): 5413–5416. DOI: 10.1002/ejic.201700921, **IF: 2.524**
9. Chitosan and plant probiotics application enhance growth and yield of strawberry. Mukta JA, Rahman M, Sabir AA, Gupta DR, Surovy MZ, Rahman M, **Islam MT\*** (2017) *Biocatalysis and Agricultural Biotechnology* **11**: 9–18. (\*Corresponding author).
10. Sea cucumber glycosides: chemical structures, producing species and important biological properties. Mondol MAM, Shin HJ, Rahman MA, **Islam MT\***. *Marine Drugs*(2017) **15**: 317; doi:10.3390/md15100317. (\*Corresponding author), **IF: 5.118**
11. Direct production of furfural in one-pot fashion from raw biomass using Bronsted acidic ionic liquids. Matsagar BM, Hossain SA, **Islam T**, Alamri HR, Alothman ZA, Yamauchi Y, Dhepo PL, Wu, KC-W (2017) *Scientific Reports* **7**: 13508; doi:10.1038/s41598-017-13946-4. (\*Corresponding author), **IF: 4.379**
12. Genotypic diversity in vegetable amaranth for antioxidant, nutrient and agronomic traits. Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba (2017) *Indian* *Journal of Genetics and Plant Breeding* **77**(1): 173-176. DOI: 10.5958/0975-6906.2017.00025.6. **IF: 0.508**
13. Tethering mesoporous Pd nanoparticles to reduced graphene oxide sheets forms highly efficient electrooxidation catalysts. Muhammad Iqbal, Cuiling Li, Bo Jiang, Md. Shahriar A. Hossain, **Md. Tofazzal Islam**, Joel Henzie and Yusuke Yamauchi (2017) *Journal of Materials Chemistry A* **5**:21249-21256. DOI: 10.1039/c7ta05091g. **IF: 12.732**
14. Enhancement of Growth and Grain Yield of Rice in Nutrient Deficient Soils by Rice Probiotic Bacteria. Khan MMA, Haque E, Paul NC, Khaleque MA, Al-Garni SMS, **Islam MT\*** (2017) *Rice Science* **24**(5): 264-273. <https://doi.org/10.1016/j.rsci.2017.02.002> (\*Corresponding author), **IF: 3.333**
15. Mesoporous metallic rhodium nanoparticles. Bo Jiang, Cuiling Li, Omer Dag, Hideki Abe, Toshiaki Takei, Tsubasa Imai, Md. Shahriar A. Hossain, **Md. Tofazzal Islam**, Kathleen Wood, Joel Henzie & Yusuke Yamauchi (2017) *Nature Communications* **8**:15581 DOI: 10.1038/ncomms15581. **IF: 14.919**
16. Morpho-physiological characterization of soybean genotypes under subtropical environment. M A Gaffar AL-HADI, M Rafiqul ISLAM, M Abdul KARIM, **M Tofazzal ISLAM** (2017) *Genetika* **49**: 297-311. **IF: 0.761**
17. Molecular identification of multiple antibiotic resistant fish pathogenic *Enterococcus faecalis* and their control by medicinal herbs. Muntasir Rahman, Md. Mahbubur Rahman, Suzan Chandra Deb, Md. Shahanoor Alam, Md. Jahangir Alam & **Md. Tofazzal Islam\*** (2017) *Scientific Reports* **7**: 3747. doi:10.1038/s41598-017-03673-1. (\*Corresponding author), **IF: 4.379**
18. Metabolites from the endophytic fungus *Curvularia* sp. M12 act as motility inhibitors against *Phytophthora capsici* zoospores. Muhammad Abdul Mojid Mondol,Jannatul Farthouse, **M. Tofazzal Islam**, Anja Schüffler, and [Hartmut Laatsch](http://pubsdc3.acs.org/author/Laatsch%2C%2BHartmut) (2017) *Journal of Natural Products* **80**: 347–355. DOI: 10.1021/acs.jnatprod.6b00785, **IF: 4.050**
19. Integration of omics approaches for low-phosphorus tolerance in maize. Uddin MS, Khaldun ABM, **Islam MT\*** (2017) In: *Plant Omics and Crop Breeding*. Zargar SM and Rai V eds. Francis and Taylor Group’s CRC Press, pp. 235-262. <https://doi.org/10.1201/9781315365930-9> (\*Corresponding author)
20. Mesostructured fullerene crystals through inverse polymeric micelle assembly. Bishnu Prasad Bastakoti, Yunqi Li, Sudhina Guragain, Yoshio Bando, Amanullah Fatehmulla, W. Aslam Farooq, Md. Shahriar A. Hossain, **Md. Tofazzal Islam**, Lok Kumar Shrestha, Yusuke Yamauchi (2017) *Materials Letters* **209**: 272–275 <http://dx.doi.org/10.1016/j.matlet.2017.07.116>, **IF: 3.423**
21. Co-inoculation with *Enterobacter* and *Rhizobacteria* on yield and nutrient uptake by wheat (*Triticum aestivum* L.) in the alluvial soil under Indo-Gangetic plain of India. Ashok Kumar, B. R. Maurya, R. Raghuwanshi, Vijay Singh Meena, **M. Tofazzal Islam** (2017) *Journal of Plant Growth Regulation* 36: 608–617. doi:10.1007/s00344-016-9663-5. **IF: 4.169**
22. Gold nanoparticles supported on mesoporous titania thin films with high loading as a CO oxidation catalyst. Shingo Akita,Makoto Amemiya, Takanori Matsumoto, Yohei Jikihara, Tsuruo Nakayama, Md. Shahriar A. Hossain, Kenya Kani,Daisuke Ishii, **Md. Tofazzal Islam**, Xiangfen Jiang, Amanullah Fatehmulla, Wazirzada Aslam Farooq, Yoshio Bando, Victor Malgrasand Yusuke Yamauchi (2017) *Chemistry: An Asian Journal* **12** (8): 877–881. **DOI:**10.1002/asia.201700080. **IF: 4.568**
23. Growth promotion of non-legumes by the inoculation of *Bacillus* species. M. A. Baset Mia, Umme Aminun Naher, Qurban Ali Panhwar, and **M. Tofazzal Islam\*** (2017). In *Bacilli and Agrobiotechnology*, **Islam MT** eds. Springer International Publishing, pp. 57-76. (\*Corresponding author)
24. *Bacilli and Agrobiotechnology*. **Islam MT\***, Rahman M, Piyush P and Aeron A. (2017) An edited series book published by Springer International Publishing, ISBN: 978-3-319-44408-6 (Print) 978-3-319-44409-3 (Online). pp. 416. (\*Corresponding author)
25. Synthesis of MOF-525 Derived Nanoporous Carbons with Different Particle Sizes for Supercapacitor Application. Ting-Hsiang Chang, Christine Young, Min-Han Lee, Rahul R. Salunkhe, Saad M. Alshehri, Tansir Ahamad, **Md. Tofazzal Islam**, Kevin C.-W. Wu, Md. Shahriar A. Hossain, Yusuke Yamauchi, and Kuo-Chuan Ho (2017) *Chemistry: An Asian Journal* 12(21):2857-2862. doi: 10.1002/asia.201701082, **IF: 4.568**
26. Isolation and characterization of phosphate solubilizing bacteria from traditional rice cultivation of Bangladesh and their effects on rice. Surovy MZ, Gupta DR, Rahman MM, Akanda MAM, and **Islam MT.** (2017). *Annals of Bangladesh Agriculture*. **21**(1-2): 27-37.

**2015-2016**

1. Emergence of wheat blast in Bangladesh was caused by a South American lineage of *Magnaporthe oryzae*. **M. Tofazzal Islam**\*, Daniel Croll, Pierre Gladieux, Darren M. Soanes, Antoine Persoons, Pallab Bhattacharjee, Md. Shaid Hossain, Dipali Rani Gupta, Md. Mahbubur Rahman, M. Golam Mahboob, Nicola Cook, Moin U. Salam, Musrat Zahan Surovy, Vanessa Bueno Sancho, João Leodato Nunes Maciel, Antonio NhaniJúnior, Vanina Lilián Castroagudín, Juliana T. de Assis Reges, Paulo Cezar Ceresini, Sebastien Ravel, Ronny Kellner, Elisabeth Fournier, Didier Tharreau, Marc-Henri Lebrun, Bruce A. McDonald, Timothy Stitt, Daniel Swan, Nicholas J. Talbot, Diane G. O. Saunders, Joe Win and Sophien Kamoun (2016) *BMC Biology* **14**:84 DOI 10.1186/s12915-016-0309-7. (\*Corresponding author), **IF: 7.431**
2. Oligomycins pamamycin homologues impair motility and induce lysis of zoospores of the grapevine downy mildew pathogen, *Plasmopara viticola*. Zerihun T. Dame, M. **Tofazzal Islam**\*, Elisabeth Helmke, Andreas von Tiedemann, Hartmut Laatsch. 2016. *FEMS Microbiology Letters* **363** (16): fnw167 DOI: http://dx.doi.org/10.1093/femsle/fnw167 (\*Corresponding author), **IF: 2.742**
3. Inhibitory effects of macrotetrolides from *Streptomyces* spp. on zoosporogenesis and motility of peronosporomycete zoospores are likely linked with enhanced ATPase activity in mitochondria. **Islam MT\***, Laatsch H, von Tiedemann (2016) *Frontiers in Microbiology***7**: 1824. doi: 10.3389/fmicb.2016.01824. (\*Corresponding author), **IF: 5.640**
4. Isolation and identification of plant growth promoting rhizobacteria from cucumber rhizosphere and their effect on plant growth promotion and disease suppression. Shaikhul Islam, Abdul M. Akanda, Ananya Prova, **M. T. Islam** and Md. M. Hossain (2016) *Frontiers in Microbiology* **6**:1360. doi: 10.3389/fmicb.2015.01360. **IF: 5.640**
5. Inhibitory effects of *Pseudomonas* spp. on plant pathogen *Phytophthora capsici* in vitro and in planta. Fatematuz Zohara, Md. Abdul Mannan Akanda, Narayan Chandra Paul, Mahfuz Rahman, **Md. Tofazzal Islam**\* (2016) *Biocatalysis and Agricultural Biotechnology* **5**: 69–77. doi.org/10.1016/j.bcab.2015.12.009. (\*Corresponding author)
6. Socio-demographic factors influencing Bangladeshi professionals’ towards biotechnological products. Abu Habib Md. Abdullah, Md. Safiul Islam Afrad, **Md. Tofazzal Islam**, Dipanwita Bhattacharjee, and AKM Abdul Hannan Bhuiyan. *Indian Research Journal for Extension Education* (2016) **16**: 96-102.
7. Medicinal plant extracts and protein kinase C inhibitor suppress zoosporogenesis and impair motility of *Phytophthora capsici*.Most Waheda Rahman ANSARY, Effi HAQUE, M. Helen WEST, Mahbubur M. RAHMAN, Abdul Mannan AKANDA, Yuanchao Wang and **M. Tofazzal ISLAM**\* (2016) *Plant Protection Science* **52**: 113–122. doi: 10.17221/103/2015-PPS. (\*Corresponding author), **IF: 1.464**
8. Genetic variation and interrelationships among antioxidant, quality, and agronomic traits in vegetable amaranth. Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba (2016) *Turkish Journal of Agriculture and Forestry* **40**: 526-535. doi:10.3906/tar-1405-83. **IF: 2.585**
9. Variability, heritability and genetic association in vegetable amaranth (*Amaranthus tricolor* L.). Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba (2015) *Spanish Journal of Agricultural Research* 13(2): e0702, 8 pages, eISSN: 2171-9292. **IF: 1.238**
10. Macrocyclic trichothecenes from Myrothecium roridum Strain M10 with motility inhibitory and zoosporicidal activities against *Phytophthora nicotianae*. Mondol, M.A.M., Surovy MZ, **Islam MT**, Schüffler A, Laatsch H (2015) *Journal Agricultural and Food Chemistry* **63**: 8777–8786. **IF: 5.279**
11. Genotype variability in composition of antioxidant vitamins and minerals in vegetable amaranth. Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba (2015) *Genetika* (2015) 47: 85-96. **IF: 0.761**
12. Dietary effects of chitosan and buckwheat (*Fagopyrum esculentum*) on the performance and serum lipid profile of broiler chicks. M.A. Sayed, **M.T. Islam**, M.M. Haque, M.J.H. Shah, R. Ahmed, M.N. Siddiqui, M.A. Hossain (2015) *South* *African Journal of Animal Science* **45**(4): 429-440. **IF: 1.055**
13. Effect of dietary supplementation of acetone extracts of *Nigella sativa* L. seeds on serum cholesterol and pathogenic intestinal bacterial count in broilers. Siddiqui MN, **Islam MT\***, Sayed MA, Hossain MA (2015) *Journal of Animal and Plant Sciences* **25**: 372-379.(\*Corresponding author), **IF: 0.490**
14. Bioactive natural products for managing peronosporomycete phytopathogens. **Islam MT**\*, Hossain MM, Rahman M (2015) In: *Sustainable Crop Management using Natural Products*, Sangeetha Ganesan, Kurucheve Vadivel and Jayaraj Jayaramen. CAB International 2015, pp. 307-344. (\*Corresponding author)
15. Bioactive natural products for managing downy mildew disease in grapevine. **Islam MT\*** (2015) In: Biocontrol of Major Grapevine Diseases, S. Comphant and F. Mathieu eds., CAB International 2015, pp. 125-149. (\*Corresponding author)
16. Isolation and characterization of arsenic resistant soil bacteria and their effects on germination of rice under arsenic contamination. Istiaq Ahmed, **Md Tofazzal Islam**, Md Akhter Hossain Chowdhury, Md Kamruzzaman(2015) *Res. Agric., Livest. Fish.* **2**(2): 229-237.
17. Gageopeptins A and B, new inhibitors of zoospore motility of the phytopathogen *Phytophthora capsici* from a marine-derived bacterium *Bacillus* sp. 109GGC020. Tareq FS, Hasan CM, Lee HS, Lee YJ, Lee JS, Surovy MZ, **Islam MT**, Shin HJ (2015) *Bioorganic & Medicinal Chemistry Letters* **25**: 3325–3329. **IF: 2.823**
18. **Promotion of plant growth by phytohormone producing bacteria.** Khan, M. M. A., Khatun, A., Islam, M. T. (2016) N. Garg, A. Aeron (Eds.), Microbes in Action, Nova Science Publishers, USA (2016), pp. 45-76.

**2013-2014**

1. Gageotetrins A-C, noncytotoxic antimicrobial linear lipopeptides from a marine bacterium *Bacillus subtilis*. Tareq FS, Lee MA, Lee HS, Lee YJ, Lee JS, Hasan CM, **Islam MT**, Shin HJ (2014) *Organic Letters* **16**: 928–931. **IF: 6.005**
2. Genotypic variability for nutrient, antioxidant, yield and yield contributing traits in vegetable amaranth. Umakanta Sarker, **Md. Tofazzal Islam**, Md. Golam Rabbani and Shinya Oba. *Journal of Food, Agriculture & Environment* (2014) 12 (3&4): 168-174.
3. Evaluation of fertility disrupting potentials of *Abrus precatorius* seed extracts in male rats for arresting spermatogenesis and suppressed fertility in vivo. Saranika Talukder, Subir Sarker, Md Afzal Hossain, Md Abu Hadi Khan, Md Abdul Hannan, **M Tofazzal Islam** (2014) *Pakistan Veterinary Journal* **34**(1): 18-23. **IF: 1.318**
4. Banchromene and other secondary metabolites from the endophytic fungus *Fusarium* sp. obtained from *Piper guinensis* inhibit the motility of phytopathogenic *Plasmopara viticola* zoospores. Michel D. Kongue Tatong, Ferdinand M. Talontsi, Hamdi M. D. Abdel Rahim, **Md. Tofazzal Islam**, Rainer B. Oswald, Hartmut Laatsch (2014) *Tetrahedron Letters* **55**(30): 4057-4061. **IF: 2.415**
5. Non-cytotoxic antifungal agents: isolation and structures of gageopeptides from a marine-derived *Bacillus subtilis* 109GGC020. Tareq FS, Lee MA, Lee HS, Lee YJ, Lee JS, Hasan CM, **Islam MT**, Shin HJ (2014) *Journal of Agricultural and Food Chemistry* **62**(24): 5565-72. DOI: 10.1021/jf502436r. **IF: 5.279**
6. Proteomics potential and its contribution toward sustainable agriculture. Abhijit Sarkar, **Md. Tofazzal Islam**, Sajad Majeed Zargar, Vivek Dogra, Sun Tae Kim, Ravi Gupta, Renu Deswal, Ganesh Bagler, Yelam Sreenivasulu, Rungaroon Waditee-Sirisattha, Sophon Sirisattha, Jai Singh Rohila, Manish Raorane, Ajay Kohli, Dea-Wook Kim, Kyoungwon Cho, Abdiani Attiq Saidajan, Ganesh Kumar Agrawal, and Randeep Rakwal (2014) In: *Agroecology, Ecosystems, and sustainability* Noureddine Benkeblia N ed., CRC Press. pp. 151-179.
7. Diversity of secondary metabolites from marine *Bacillus* species: chemistry, biosynthesis and biological activity. Mondol MAM, Shin HJ, **Islam MT**\* (2013) *Marine Drugs* **11**: 2846-2872. (\*Corresponding author), **IF: 5.118**
8. Biological control of peronosporomycete phytopathogen by bacterial antagonist. **Islam MT\*** and Hossain MM. In *Bacteria in Agrobiology: Disease Management* (2013) Maheshwari DK ed. Springer Berlin-Heidelberg, pp 167-218. (\*Corresponding author)
9. Plant-associated bacteria in nitrogen nutrition in crops, with special reference to rice and banana. Md. Abdul Baset Mia, Md. Motaher Hossain, Zulkifli Haji Shamsuddin, **M. Tofazzal Islam**\* (2013) In: *Bacteria in Agrobiology: Crop Productivity*, Maheshwari DK ed. Springer Berlin-Heidelberg, pp. 97-126. (\*Corresponding author)

**2011-2012**

1. Zoosporicidal metabolites from an endophytic fungus *Cryptosporiopsis* sp. of *Zanthoxylum leprieurii*. Talonts Talontsi FM, Facey P, Tatong MD, **Tofazzal Islam M**\*, Frauendorf H, Draeger S, Tiedemann Av, Laatsch H (2012) *Phytochemistry* **83**: 87-94. (\*Corresponding author), **IF: 4.072**
2. Screening for phosphate solubilizing bacteria inhabiting the rhizoplane of rice grown in acidic soil in Bangladesh. Sarkar A, **Islam MT\***, Biswas GC, Alam S, Hossain M, Talukder NM(2012) *Acta Microbiologica et Immunologica Hungarica* **59**(2): 199-213. doi: 10.1556/AMicr.59.2012.2.5. (\*Corresponding author), **IF: 2.048**
3. Depsidones and other constituents from Phomopsis sp. CAFT69 and its host plant *Endodesmia calophylloides* with potent inhibitory effect on motility of zoospores of grapevine pathogen *Plasmopara viticola*. Ferdinand Mouafo Talontsi, **Md. Tofazzal Islam**, Petrea Facey, Clovis Douanla-Meli, Andreas von Tiedemann, Hartmut Laatsch(2012) *Phytochemistry Letters* **5**: 657–664. **IF: 1.679**
4. Plant probiotics in phosphorus nutrition in crops, with special reference to rice. **Islam MT** and Hossain MM. In *Bacteria in Agrobiology: Plant Probiotics* (2012), Maheshwari DK ed., Springer Berlin-Heidelberg, pp. 325-363. (\*Corresponding author)
5. Effectively Implementing Information Communication Technology in Higher Education in the Asia-Pacific Region. **M. T. Islam\*** (2012) Co-editor. Nova Science Publishers. New York, USA. (\*Corresponding author)
6. Protein kinase C is likely to be involved in zoosporogenesis and maintenance of flagellar motility in the Peronosporomycete zoospores. **M. T. Islam\***, A. von Tiedemann, H. Laatsch (2011) *Molecular Plant-Microbe Interactions* 24: 938-947. (\*Corresponding author), **IF: 4.171**
7. 2,4-Diacetylphloroglucinol suppresses zoosporogenesis and impairs motility of the Peronospotomycete zoospores. **M. T. Islam**, A. von Tiedemann (2011) *World Journal of Microbiology and Biotechnology* 27: 2071-2079. (\*Corresponding author), **IF: 3.312**
8. Khatmiamycin, a motility Inhibitor and zoosporicide against the downy mildew pathogen *Plasmopara viticola* from *Streptomyces* sp. ANK313. M. A. Abdalla, H. Y. Win, **M. T. Islam**, A. von Tiedemann, A. Schüffler, H. Laatsch (2011) *Journal of* *Antibiotics* 64: 655-659. **IF: 2.649**
9. Bioactive isocoumarins from a terrestrial *Streptomyces* sp. ANK302. D. S. Zinad, K. A. Shaaban, M. A. Abdalla, **M. T. Islam**, H. Anke, H. Laatsch (2011) *Natural* *Products Communication* 6: 45-48. **IF: 0.986**
10. Potentials for biological control of plant diseases by *Lysobacter* spp., with special reference to strain SB-K88. **M. T. Islam\***. In: *Bacteria in* *Agrobiology: Plant Growth Responses* (2011), Maheshwari DK ed., Springer-Verlag Berlin Heidelberg, pp. 335-364. (\*Corresponding author)
11. Cost-effectiveness, equitable and flexible higher education through open and distance learning in Bangladesh. **M. T. Islam\*** (2011) *Turk. Online J. Dist. Edu.* 12: 102-113. (\*Corresponding author)
12. *Nigella sativa* L. supplemented diet decreases egg cholesterol content and suppresses harmful intestinal bacteria in laying hens. **M. T. Islam**\*, A. S. M. Selim, M. A. Sayed, M. A. Khatun, M. N. Siddiqui, M. S. Alam, M. A. Hossain (2011) *Journal of Animal and Feed Science* 20 (4): 587-598. (\*Corresponding author), **IF: 1.525**
13. Salinity effect on mineral nutrient distribution along root and shoot of rice (*Oryza sativa* L.) genotypes differing in salt tolerance. M. A. Razzaque, N. M. Talukder, **M. T. Islam**\*, R. K. Dutta (2011) *Archives of Agronomy and Soil Science* 57: 33-45. (\*Corresponding author), **IF: 3.092**

**2009-2010**

1. Seed extracts of a Bangladeshi medicinal plant *Abrus precatorius* L. show antifertility activity in female rats. M. A. Hannan, M. A. Hossain, **M. T. Islam**\* (2010) *Oriental Pharmacy and Experimental Medicine* 10: 103-110. (\*Corresponding author)
2. Mode of antagonism of a biocontrol bacterium *Lysobacter* sp. SB-K88 toward a damping-off pathogen *Aphanomyces cochlioides*. **Md. Tofazzal Islam\*** (2010) *World Journal of Microbiology and Biotechnology* (2010) 26: 629-637. (\*Corresponding author), IF: 2.477
3. Growth inhibition and excessive branching in *Aphanomyces cochlioides* induced by 2,4-diacetylphloroglucinol is linked to disruption of filamentous actin cytoskeleton in the hyphae. **Md. Tofazzal Islam**\* and Yukiharu Fukushi (2010) *World Journal of Microbiology and Biotechnology* 26: 1163-1170. (\*Corresponding author), **IF: 3.312**
4. Morphology and behavior of the successive generations of zoospores of a damping-off pathogen *Aphanomyces cochlioides*. **M. T. Islam\*** (2010) *Journal of Plant Pathology* 92: 461-468. (\*Corresponding author), IF: 1.152
5. Ultrastructure of *Aphanomyces coclioides* zoospores and changes during their developmental transitions triggered by the host-specific flavone cochliophilin A. **Md. Tofazzal Islam\*** (2010) *Journal of Basic Microbiology* 50: S58-S67. (\*Corresponding author), **IF: 2.281**
6. Variation in chemotactic preferences of *Aphanomyces cochlioides* zoospores to flavonoids. **M. Tofazzal Islam**\* (2009) *Zeitschrift fuer Naturforschung* 64c: 847-852. (\*Corresponding author), **IF: 1.649**
7. Epidermal features of rice leaf epidermis of rice (*Oryza sativa* L.) cv. BR29. **M. T. Islam**\*, A. K. M. G. Sarwar, H. H. Begum, T. Ito, S. Tahara (2009) *Bangladesh Journal of Plant Taxonomy* (2009) 16: 177-180. (\*Corresponding author), **IF: 0.679**

**2007-2008**

1. Dynamic rearrangement of F-actin organization triggered by host-specific plant signal is linked to morphogenesis of *Aphanomyces cochlioides* zoospores. **M. Tofazzal Islam**\* (2008) *Cell Motility and Cytoskeleton* 65: 553-562. (\*Corresponding author), **IF: 2.141**
2. Nonhost secondary metabolites affect motility and viability of the zoospores of phytopathogenic *Aphanomyces cochlioides*.**M. Tofazzal Islam**\* (2008) *Zeitschrift fuer Naturforschung* 63c: 233-240. (\*Corresponding author), **IF: 1.649**
3. Rhizoplane bacteria as phosphate solubilizing agent on phosphorus nutrition of rice. Md. Shohidul Alam, Nur Mohammad Talukder, **Md. Tofazzal Islam**\* and Atiqur Rahman (2008) *Bangladesh Journal of Agricultural Sciences* **35**(2): 181-188. (\*Corresponding author)
4. Challenges and opportunities of teaching science in a distance in a developing country. **Md. Tofazzal Islam\*** (2009) In: *Accessible Elements: Teaching Science Online and at a Distance*, Kennepohl, D, Shaw, L. eds., Athabasca University Press, **Canada**. (\*Corresponding author)
5. Signaling and interactions between plants and phytopathogenic Peronosporomycetes.**M. Tofazzal Islam\***, A. von Tiedemann. *Phytopathology* 98: S72. (\*Corresponding author), **IF: 4.025**
6. Disruption of ultrastructure and cytoskeletal network is involved with biocontrol of damping-off pathogen *Aphanomyces cochlioides* by *Lysobacter* sp. strain SB-K88. **M. Tofazzal Islam\*** (2008) *Biological Control* 46: 312-321. (\*Corresponding author), **IF: 3.687**
7. Phosphate solubilizing rhizoplane bacteria on growth and yield of transplant aman rice. Md. Shohidul Alam, Nur Mohammad Talukder, **Md. Tofazzal Islam\***, Animesh Sarkar and M. M. Hossain (2008) *Journal of Agroforestry and Environment* **2**(1): 19-22. (\*Corresponding author)
8. Zoosporogenesis and differentiation of grapevine downy mildew pathogen *Plasmopara viticola* in host-free system. **M. Tofazzal Islam\***, A. von Tiedemann (2008). *Phytopathology* 98: S72. (\*Corresponding author), **IF: 4.025**
9. Composition of culture medium influences zoosporogenesis and differentiation of *Aphanomyces cochlioides*. **M. Tofazzal Islam\*,** M. Sakasai, Y. Hashidoko, A. Deora, Y. Sakihama, S. Tahara (2007) *Journal of General Plant Pathology* 73: 324-329. (\*Corresponding author), **IF: 1.449**
10. Morpho-physiological disorders in damping-off pathogen *Aphanomyces cochlioides*interacting with host rhizoplane bacteria. Abhinandan Deora, Yasuyuki Hashidoko, **Md. Tofazzal Islam\***, Yuriko Aoyama, Toshiaki Ito and Satoshi Tahara (2007) In: *Crop Production in Stress Environments: Genetic and Management Options*, Eds., Singh *et al.* (Agrobios International), Jodhpur, India, pp. 119-127. (\*Corresponding author)
11. Isolation and identification of potential phosphate solubilizing bacteria from the rhizoplane of *Oryza sativa* L. cv. BR29 of Bangladesh. **M. Tofazzal Islam**\*, A. Deora, Y. Hashidoko, A. Rahman, T. Ito, S. Tahara (2007) *Zeitschrift fuer Naturforschung* 62c: 103-110. (\*Corresponding author), **IF: 1.649**
12. Understanding of ecochemical interactions between plantsand zoospores: potentials for biorational control of the peronosporomycete soilborne phytopathogens. **Md. Tofazzal Islam\***, Yasuyuki Hashidoko, and Satoshi Tahara (2007). In: *Crop Production in Stress Environments: Genetic and Management Options*, Eds., Singh et al. (Agrobios International), Jodhpur, India, pp. 275-288. (India). (\*Corresponding author)

**2005-2006**

1. Phenolic constituents of *Celosia cristata* L. susceptible to the spinach root rot pathogen *Aphanomyces cochlioides*. Y. Wen, **M. Tofazzal Islam**, S. Tahara (2006) *Biosci. Biochem. Biotechnol.* 70: 2567-2570. **IF: 2.043**
2. Screening phosphate solubilizing bacteria from rhizoplane of tomato. Atiqur Rahman, Nur Mohammad Talukder and **Md. Tofazzal Islam**\* (2006) *Bangladesh Journal of Progressive Science and Technology* **4**: 1-6. (\*Corresponding author)
3. Nutrient contents and their uptake by maize in acid soils as influenced by low levels of phosphorus. Rubeca Fancy, A. Rahman, **Md. Tofazzal Islam** and M. Akhtar Hossain Chowdhury (2006) *Journal of the Bangladesh Society for Agricultural Science and Technology* **3**: 69-72.
4. Contraceptive effects of *Abrus precatorius* seed on female rats. M. Abdul Hannan, M. Afzal Hossain, **Md. Tofazzal Islam**, E. Hossain Chowdhury (2006) *Journal of Bangladesh Society of Agricultural Science and Technology* 3(3&4): 185-188.
5. An antagonistic rhizoplane bacterium *Pseudomonas* sp. strain EC-S101 physiologically stresses a spinach root rot pathogen *Aphanomyces cochlioides*. A. Deora, Y. Hashidoko, **M. T. Islam**, T. Ito, Y. Aaoyama, S. Tahara (2006) *Journal of General Plant Pathology* 72: 57-64. **IF: 1.449**
6. Quality and processes of Bangladesh Open University course materials development. **Md. Tofazzal Islam**\*, Md. Morshedur Rahman and K. M. Rezanur Rahman (2006) *Turkish Online Journal of Distance Education* **7**: 130-138. (\*Corresponding author)
7. Suppression of damping-off disease in host plants by the rhizoplane bacterium *Lysobacter* sp. strain SB-K88 is linked to plant colonization and antibiosis against soilborne Peronosporomycetes. **M. T. Islam**, Y. Hashidoko, A. Deora, T. Ito, S. Tahara (2005) *Applied and Environmental Microbiology* 71: 3786-3796. **IF: 4.792**
8. Secondary metabolites with diverse activities toward phytopathogenic zoospores of *Aphanomyces cochlioides* in host and nonhost plants. S. Tahara, **M. T. Islam** (2005) In: *Discoveries in Agrochemicals*, ACS Symposium Series 892, Am Chem Soc, pp. 202-215.
9. Bioactive secondary metabolites related to life-cycle development of oomycete phytopathogens. **M. T. Islam**, S. Tahara (2005) In: *Studies in Natural Products Chemistry*, Volume 32, Attaur-Rahman ed., Elsevier Science Publishers. pp. 1053-1122.
10. Role of synthesis and exudation of organic acids in phosphorus nutrition in plants in tropical soils. H. H. Begum, **M. T. Islam**\* (2005) *Biotechnology* 4: 333-340. (\*Corresponding author)
11. Current status and prospects for e-learning in the promotion of distance education in Bangladesh. **M. T. Islam\***, A. S. M. Selim. *Turk. Online J. Distance Edu.* (2005) 6 (4): Article, 11. (\*Corresponding author)
12. Antagonistic rhizoplane bacteria induce diverse morphological alterations in Peronosporomycetes hyphae during *in vitro* interaction. A. Deora, Y. Hashidoko, **M. T. Islam**, S. Tahara (2205) *European Journal of Plant Pathology* 112: 311-322. **IF: 1.907**
13. Ecochemical interactions between plants and phytopathogenic *Aphanomyces cochlioides* zoospores. **M. T. Islam**(2005) *J. Grad. Sch. Agric. Hokkaido Univ.* 71: 123-218.

**2003-2004**

1. Quantification of particle method for chemotactic bioassay using Peronosporomycete zoospores. T. Takayama, Y. Fukushi, M. T. Islam,, S. Tahara. *Z. Naturforsch.* (2004) 59c: 892-896. **IF: 1.649**
2. Interactions between rhizoplane bacteria and a phytopathogenic Peronosporomycete *Aphanomyces cochlioides* in relation to the suppression of damping-off disease in sugar beet and spinach. M. T. Islam, Y. Hashidoko, A. Deora, T. Ito, S. Tahara. *IOBC/wprs Bull.* (2004) 27(8): 255-260.
3. Bioassay methods to detect and identify allelochemicals in plants using zoospores of phytopathogens the Peronosporomycetes. M. T. Islam, T. Takayama, S. Tahara In: *Research Methods in Plant Sciences*, Volume 2. Plant Protection, S. S. Narwal, R. Singh, R. K. Walia and V. P. Sharma eds., (2004), pp. 212-241, Scientific Publishers.
4. Requirement of relatively high threshold level of Mg2+ for cell growth of a rhizoplane bacterium *Sphingomonas yanoikuyae* EC-S001. H. Hoo, Y. Hashidoko, M. T. Islam, S. Tahara. *Appl. Environ. Microbiol.* (2004) 70: 5214-5221. **IF: 4.792**
5. Interruption of the homing sequence of phytopathogenic *Aphanomyces cochlioides* zoospores by secondary metabolites from nonhost *Amaranthus gangeticus.* M. T. Islam, Y. Hashidoko, T. Ito, S. Tahara. *J. Pestic. Sci.* (2004) 29: 6-14. **IF: 1.519**
6. Host-specific plant signal and G-protein activator, mastoparan, triggers differentiation of zoospores of the phytopathogenic oomycete *Aphanomyces cochlioides*. M. T. Islam, T. Ito, S. Tahara. *Plant Soil*  (2003) 255: 131-142. **IF: 4.192**

**2001-2002**

1. Zoosporicidal activity of polyflavonoid tannin identified in *Lannea coromandelica* stem bark against phytopathogenic oomycete *Aphanomyces cochlioides*. M. T. Islam, T. Ito, M. Sakasai, S. Tahara. *J. Agric. Food Chem.* (2002) 50: 6697-6703. **IF: 5.279**
2. Zoosporicidal activities of anacardic acids against *Aphanomyces cochlioides*. P. Begum, Y. Hashidoko, M. T. Islam, Y. Ogawa, S. Tahara. *Z. Naturforsch.* (2002) 57c: 874-882. **IF: 1.649**
3. Nicotinamide and structurally related compounds show halting activity against zoospores of the phytopathogenic fungus *Aphanomyces cochlioides.* T. Shimai, M. T. Islam, Y. Fukushi, Y. Hashidoko, R. Yokosawa, S. Tahara. *Z. Naturforsch.* (2002)57c: 323-331. **IF: 1.649**
4. Microscopic studies on the attachment and differentiation of zoospores of the phytopathogenic fungus *Aphanomyces cochlioides*. M. T. Islam, T. Ito, S. Tahara *J. Gen. Plant Pathol.* (2002) 68: 111-117. **IF: 1.449**
5. Ecochemical interactions between plants and zoospores of the phytopathogenic oomycete *Aphanomyces cochlioides*. M. T. Islam. Ph D Thesis (2002), Hokkaido University, Sapporo, Japan
6. Morphological studies on zoospore of *Aphanomyces cochlioides* and changes during the interaction with host materials. M. T. Islam, T. Ito, S. Tahara. *J. Gen. Plant Pathol.* (2001) 67: 255-261. **IF: 1.449**
7. Chemotaxis of fungal zoospores, with special reference to *Aphanomyces cochlioides*. M. T. Islam, S. Tahara. *Biosci. Biotechnol. Biochem.* (2001) 65: 1933-1948. **IF: 2.043**
8. Repellent activity of estrogenic compounds toward zoospores of the phytopathogenic fungus *Aphanomyces cochlioides*. M. T. Islam, S. Tahara. *Z. Naturforsch.* (2001) 56c: 253-261. **IF: 1.649**
9. Diseases of potato from true potato seed. M. Rafiqul Islam, T. K. Dey, **Md. Tofazzal Islam**, M. Saifulla and M. U. Ahmed (2001) *Bangladesh Journal of Agricultural Research* **26**: 79-86.
10. Regulated aggregation of rhizoplane bacteria and phytopathogenic fungal zoospores on spinach seedlings. **Md. Tofazzal Islam,** Toshiaki Ito, Yasuyuki Hashidoko and Satoshi Tahara (2001) *Proceedings, the 6th ISRR Symposium,* November 11-15, 2001, Nagoya, Japan. pp. 432-433.

**1993-2001**

1. Dihydroflavonols from *Lannea coromandelica.* M. T. Islam, S. Tahara. *Phytochemistry* (2000) 54: 901-907. **IF: 4.072**
2. Effects of time and frequency of irrigation on yield of wheat. H. M. Naser, M. T. Islam, H. H. Begum, M. Idris. *Thai J. Agric. Sci.* (1999) 32: 205-209.
3. Concentration of nutrients in wheat plants and grain quality as influenced by different phosphatic fertilizers. M. T. Islam, H. H. Begum. *Bangladesh J. Agric. Sci.* (1999)26: 45-49.
4. Effect of Different sources of phosphatic fertilizers on the nutrient uptake by wheat. M. T. Islam, M. S. Ali, H. H. Begum, M. A. K. Chowdhury. *Prog. Agric.* (1998) 9: 285-288.
5. Influence of different sources of phosphatic fertilizers on yield and yield attributes of modern wheat. M. T. Islam, M. S. Ali, H. H. Begum and A. K. Chowdhury. *Bangladesh J. Agric. Sci.*  (1998) 25: 203-208.
6. Effects of nitrogen on yield attributes of high yield variety aus rice. M. T. Islam, R. K. Bhowmic, M. S. Ali and M. R, Islam. *J. National Sci. Foundation. Sri Lanka,* (1997) 25: 113-119. **IF: 0.515**
7. Weeding and nitrogen application as a means for increasing yield and mineral content of wheat under rainfed condition. M. A. H. Chowdhury, M. T. Islam. *Thai J. Agric. Sci.* (1996) 29: 183-189.
8. Effect of different sources of sulphur on the yield and yield attributes of rice. M. A. H. Chowdhury, A. K. Majumder and **Md. Tofazzal Islam (**1995) *Bangladesh Journal of Training and Development*, **8**: 65-68.
9. Effect of different sources of sulphur on the nutrient uptake by rice. M. A. H. Chowdhury, **Md. Tofazzal Islam** and A. K. Majumder (1994) *Bangladesh Journal of Training and Development* **7**: 51-56.
10. Studies on yield and fruit characters of *Momordica dioica* and *M. cochinchinensis* genotypes. M. M. Rahman, **M. T. Islam** and J. Abedin. (1993) *BAU Res. Prog.* **7**: 123-128.
11. Studies on heterosis in bitter gourd, bottle gourd and ribbed gourd. M. M. Rahman, **M. T. Islam** and M. Wazuddin (1993) *BAU Res. Prog.* **7**: 129-135.

**Patent**

**Biomass Processing Technology** (2020) Md. Tofazzal Islam, Yusuke Yamauchi, Kevin Chia-Wen Wu, and Md Shahriar Al Hossain, Bangladesh Patent Application No. P/BD/2017/000120.

**Published Book**

1. **CRISPR-Cas Methods**, M Tofazzal Islam and Kutubuddin Ali Molla, 2021. Springer International, Switzerland. Vol. 2 <https://doi.org/10.1007/978-1-0716-1657-4>
2. **CRISPR-Cas Methods**, M Tofazzal Islam et al. eds., 2019. Springer International, Switzerland. Vol. 1 <https://www.springer.com/gp/book/9781071606155>
3. **Bacilli and Agrobiotechnology: Plant Stress Tolerance, Bioremediation, and Bioprospecting**, M Tofazzal Islam et al. eds., 2022. Springer International, Switzerland. Vol. 3 [in](https://www.springer.com/gp/book/9783030151744) press.
4. **Bacilli and Agrobiotechnology: Phytostimulation and Biocontrol**, M Tofazzal Islam et al. eds., 2019. Springer International, Switzerland. Vol. 2 <https://www.springer.com/gp/book/9783030151744>
5. **Bacili and Agrobiotechnology**, M Tofazzal Islam et al. eds., 2017. Springer International, Switzerland. Vol. 1 <https://www.springer.com/gp/book/9783319444086>
6. **Plant Tolernace to Environmental Stress: Role of Phytoprotectants,** edited byMirza Hasanuzzaman, Masayuki Fujita, Hirosuke Oku and **M. Tofazzal Islam**, 2019, CRC Press, Taylor and Fancis Group, Boca Raton, FL, <https://bit.ly/3DaKkR4>
7. **Approaches for Enhancing Abiotic Stress Tolerance in Plants,** edited byMirza Hasanuzzaman, Kamrunnanahar, Masayuki Fujita, Hirosuke Oku and **M. Tofazzal Islam**, 2019, CRC Press, Taylor and Fancis Group, Boca Raton, FL, <https://bit.ly/31fAz72>
8. **Peronosporomycetes Signaling and Interactions. Md. Tofazzal Islam** 2023. Springer Publishers, **The Netherlands**, pp. 260 (approx.) (under process of preparation).
9. **Screening and Application of PSB for Rice Production in Acidic Soil.** Animesh Sarker and M. Tofazzal Islam.2012. LAP Lambert Academic Publishing AG & Co KG (ISBN-13:9783846599082). (**Germany**)
10. **Effectively Implementing Information Communication Technology in Higher Education in the Asia-Pacific Region.** 2012. Co-editor. Nova Science Publishers. New York, USA
11. **Agricultural Science.** A coursebook for HSC. 2012. Co-author. Bangladesh Open School, BOU. Bangladesh.
12. **Information and Communication Technology in Education.** **Md. Tofazzal Islam.** 2007. Paragon Enterprises Ltd., Rupayan Center, Mohakhali, Dhaka-1212, Bangladesh, ISBN 984-32-3872-9, 230pp. (in Bangla).
13. **Soil Science**, Graduate, Co-author, December 1996, Bangladesh Open University, Gazipur-1704, Bangladesh, 160 pp. (in Bangla).
14. **Forest Nursery**, Graduate, Co-author, December 1998, Bangladesh Open University, Gazipur-1704, Bangladesh, 100 pp. (in Bangla)
15. **Statistics**, Graduate, Co-author, December 1998, Bangladesh Open University, Gazipur-1704, Bangladesh, 312 pp. (in Bangla).
16. **Agricultural Science**, Certificate, Co-author, December 1996, Bangladesh Open University, Gazipur-1704, Bangladesh.
17. **Introductory Agriculture and Environment**, Graduate, Editor, December 1996, Bangladesh Open University, Gazipur-1704, Bangladesh, 173 pp. (in Bangla).
18. **Seed and Seed Technology**, Graduate, Editor, December 1996, Bangladesh Open University, Gazipur-1704, Bangladesh, 63 pp. (in Bangla).
19. **Plant Nutrition and Fertilizer Management**, Graduate, Editor, December 1997, Bangladesh Open University, Gazipur-1704, Bangladesh, 136 pp. (in Bangla).