Abridged Curriculum Vitae of

Md. Mohidul Hasan, PhD.

PROFESSOR

Department of Plant Pathology
Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur-5200, Bangladesh
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Date of Birth : December 31, 1979,Bangladesh

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RESEARCH INTEREST:

Plant-microbe interaction; Eco-friendly management of crop diseases; Development of bio-pesticide and/or bio-fertilizer

RESEARCH PROFILE LINKS :

Google SCHOLAR : https://scholar.google.com/citations?user=MItsSq0AAAAJ&hl=en

Research Gate : https://www.researchgate.net/profile/Dr-Mohidul-Hasan

Publon : https://publons.com/researcher/3231336/mohidul-hasan/

ACADEMIC HISTORY:

PhD in Science in Biotechnology (2014)
Department of Biotechnology, Yeungnam University, Republic of Korea
PhD Dissertation Title: "Production of Beneficial Plant Secondary Metabolites by Metabolic Engineering"
Advisor: *Prof. Dr. Kwang Hyun Baek*
Committee: *Prof. Dr. Han Hong Bae, Prof. Dr.Sang Hee Shim, Prof. Dr. Hae-Keun Yun, Prof. Dr. Eun-Jung Kwak.*

MS in Plant Pathology (2004)
Bangladesh Agricultural University, Mymensingh, Bangladesh
Dissertation Title: "Bio-control of Root-Knot (*Meloidogyne javanica*) of Mungbean with BAU-Biofungicide and BINA Biofertilizer"
Advisor: *Prof. Dr. Muyeenuddin Ahmad*
Result: CGPA 3.875 (out of 4.0)

B.Sc. Ag. (Hons.), (2000)
Bangladesh Agricultural University, Mymensingh, Bangladesh
Result: First Class
Position: Twelfth (out of 431)

TEACHING AND RESEARCH EXPERIENCES

Professor : May 14, 2017 to till date, HSTU, Bangladesh

Associate Professor : May 15, 2013 to May 14, 2017, HSTU, Bangladesh

International Research Professor : September 1, 2016 to August 30, 2017 Department of Biotechnology, Yeungnam University, Korea.

PhD Research Fellow : September 1, 2016 to February 2014

Assistant Professor : January 16, 2008 to May 14, 2013, HSTU, Bangladesh

Lecturer : May 15, 2005 to January 15, 2008, HSTU, Bangladesh

TOTAL IMPACT FACTOR (IF)

41.163 (Published paper in Thompson Reuters listed journal)

PUBLICATIONS (SCI/SCIE/Scopus/J-Gate/CAB etc. Indexed Journals (*Corresponding author):

1. Qulsum, M.U., Islam, M.M., Chowdhury. M.E.K., Hossain, S.M.M. and Hasan, M.M*. August 2023. Management of bacterial wilt (*Ralstonia solanacearum*) of brinjal using *Bacillus cereus, Trichoderma harzianum* and *Calotropis gigantea* consortia in Bangladesh. Egyptian Journal of Biological Pest Control. 33: 74. (IF: 2.3)
2. Habib, M.A., Islam, M.M., Islam, M.M., **Hasan, M.M*.** and Baek, K.-H. April, 2023. Current Status and De Novo Synthesis of Anti-Tumor Alkaloids in *Nicotiana*. Metabolites. 13, 623.
3. Habib, M.A., Islam, MM., Islam, ATMS., Hassan, SME., and **Hasan, MM*.** March 2022. *In vitro* and *in vivo* efficacy of some chemicals against common scab (*Streptomyces scabies*) of potato. **Archives of Phytopathology and Plant Protection**. 55 (7): 886-899. **(IF: 0.735).**
4. Islam, M.M., Islam, A.T.M.S*., **Hasan, M.M*.,** Rashid, M.M. and Hossain, S.M.M. March, 2022. Potentiality of native *Trichoderma harzianum* in controlling damping off and foot rot of chilli and its viability in different storage conditions. **Pakistan Journal of Agricultural Sciences**. 59(1): 29-34. **(IF: 0.748).**
5. Islam, M.M., Zafor MA., Chowdhury, M.E.K., Islam, ATMS., and **HASAN, M.M*,** April 2021. Biological control of damping off and foot rot of chilli using an indigenous *Trichoderma harzianum*. **East African Scholars Journal of Agriculture and Life Sciences.** 4(4): 101-105.
6. Bashir, T., Mishra, R.C., **Hasan, M.M.,** Mohanta, T.K. and Bae, H. November 2018**.** Effect of hybridization on somatic mutations and genomic rearrangements in plants**. International Journal of Molecular Sciences.** 19: 3758. **(IF: 5.542).**
7. **Hasan MM.,** Dhakal R. and Baek KH. **September, 2017.** Accumulation of taxadiene by root culture of *Nicotiana benthamiana* domin transformed with taxadiene synthase. **Bangladesh Journal of Botany**. 46(3): 899-905. **(IF: 0.308).**
8. **Hasan MM.,** Tufail Bashir, Ritesh Ghosh, Sun keun Lee and Bae H. August, 2017. An overview of LEDs' effects on the production of bioactive compounds and crop quality. **Molecules.** 22 (9): 1420. **(IF: 4.148).**
9. **Hasan MM.,** Tufail Bashir and Bae H. **June, 2017.** Use of ultrasonication technology for the increased production of plant secondary metabolites. **Molecules.** 22 (7): 1046. **(IF: 4.148).**
10. **Hasan MM.,** and Bae H. February, 2017. An overview of stress-induced resveratrol synthesis in grapes: perspective for resveratrol-enriched grape products. **Molecules.** 22 (2): 294. **(IF: 4.148).**
11. **Hasan MM.,** Islam N.B., Naznin S., Islam MM. and Mustarin KE. December, 2016**.** Management of *Cercospora* leaf spot of Indian spinach (*Basella alba* L.) with BAU bio-fungicide and a plant growth promoting hormone. **Universal Journal of Plant Science,** 4(4): 43-49.
12. **Hasan MM.,** Hasan MS, Naznin S., Islam NB. and Mustarin KE. December, 2016. Bio-control of root-knot (*Meloidogyne incognita*) of Indian Spinach (*Basella alba* L.). **Universal Journal of Agricultural Research.** 4(6): 247-253.

13. **Hasan MM.,** Kim HS., Jeon JH, Kim SH, Moon B., Song JY., Shim SH. and Baek KH. June, 2014. Metabolic engineering of *Nicotiana benthamiana* for the increased production of taxadiene. **Plant Cell Reports.** 33(6): 895-904. **(IF: 4.57).**
14. **Hasan MM.,** Yun HK., Kwak, EJ. and Baek KH**.** March, 2014. Preparation of resveratrol-enriched grape juice from ultrasonication treated grape fruits. **Ultrasonics Sonochemistry**. 21(2): 729-734. **(IF: 7.491).**

15. **Hasan MM.**, Cha M., Bajpai VK. and Baek KH. September, 2013. Production of a major stilbene phytoalexin, resveratrol in peanut (*Arachis hypogaea*) and peanut products: a mini review. **Reviews in Environmental Science and Biotechnology**. 12: 209–221**. (IF: 8.044).**
16. **Hasan MM.** and Baek KH. August, 2013. Induction of resveratrol biosynthesis in grape skins and leaves by ultrasonication treatment. **Korean Journal of Horticultural Science and Technology.** 31(4): 496-502. **(IF: 0.869).**
17. Bajpai VK., Kan SC., Kim S., **Hasan MM**, Dhakal R., Park E, and Baek KH. February, 2012. Microbial conversion of tomato by *Pectobacterium carotovorum* subsp. *Carotovorum* 21: a biotechnological approach to control pathogenic *Candida* species. **Romanian Biotechnological Letters.** 17 (1): 6989-6998. **(IF: 0.412)**

PUBLICATIONS: PUBLISHED IN NON-INDEXED JOURNAL (*CORRESPONDING AUTHOR)

1. Nezu, N.J., Islam, M.S., Hasan, M.S., Islam A.T.M.S., and Hasan, M.M * June 24, 2023. Eco-friendly management of anthracnose of chili using, formulated *Trichoderma* and indigenous medicinal plant. Ecology Journal. 5 (1): 73-79.
2. Tudu, SLD, Habib, MA, Islam, MM, Chowdhury, MEK and **Hasan, MM*.** December, 2021. Management of seed associated fungi and Alternaria leaf spot disease of black mustard (*Brassica nigra* l.) using botanicals. Bangladesh J. Agril. Res. 46(4): 407-416.
3. Sarkar, M.N.H., Islam, M.M.*, Habib, M.A., Islam, A.T.M.S. and **Hasan, M.M.*.** May 2021. Biocontrol efficacy of the isolated *Trichoderma harzianum* against damping off and foot rot diseases of country bean. Int. J. Sustain. Crop Prod. 16(2):20-25.
4. Islam, MM, Tudu, SLD, Chowdhury, MEK, Hossain,SkMM and **Hasan, MM*.** December, 2020. Efficacy of some selected botanicals in controlling Alternaria leaf blight of yellow mustard (*Brassica campestris* L.). BOU J. Agric. Rural Dev. 12(2): 17-27.
5. Parvin R, Fancy R, Chowdhury M.E.K., Hassan* S.M.E. and **HASAN M.M*.** Efficacy of some chemicals to control the major diseases of banana at Thakurgaon and Dinajpur districts. September 2019. International Journal of Experimental Agriculture. 9(2): 13-19.
6. Begom, MM., **Hasan, MM*.,** Sarker, A., Mondal, AK. And Islam, MM. April, 2018. Antibacterial efficacy of *Ricinus communis* against *Bacillus cereus* and *Escherichia coli*. Food and Pharma International. 1(4): 194-198.
7. Mondal, A.K. **Hasan M.M.***, Ananya, S. Begom M.M. and Shafiqul Islam A.T.M. 2017. Antibacterial efficacy of four selected medicinal plants against *Xanthomonas oryzae* pv. *oryzae*. Bangladesh J. Plant Pathol. 33 (1 & 2): 37-42.
8. Hossain, S.M.M, Islam, M.S., Hassan, S.M.E. and **Hasan, M.M.** 2017. Reaction of some local rice cultivars against four major fungal diseases of rice under natural Epiphytotic condition. Bangladesh J. Plant Pathol. 33 (1&2): 49-56.
9. Begom MM, **Hasan MM**, Islam, MM, Islam, NB, Alam MA, Hossain, MM., 2017. *In vitro* antimicrobial efficacy of *Calotropis procera* (Ata) against some foodborne bacteria. Food and Pharma International. 1 (2): 93-98.
10. Islam NB., Hossain SMM*, **Hasan MM.**, Hassan SME and Islam M.M. 2016. Incidence and severity of black point disease of wheat. Int. J. Expt. Agric. 6(2):12-19.
11. Islam M.M., Hassan SME., Hossain S.M.M.*, **Hasan MM.** and Islam NB. 2016. Prevelence and management of some major diseases of mango at Dinajpur district of Bangladesh**.** Int. J. Expt. Agric. 6(2):1-11.

12. Hossain SMM, **Hasan MM,** Alam MA, Islam MM. 2015. Study on epidemiology and chemical control of rhizome rot disease of ginger (*Zingiber officinale* rose). J.Sci.Technol. (Dinajpur). Vol. 13: 75-81.
13. **Hasan MM.,** Khatun A., Bachchu MA., Bhuyan MMH. and Hossain MA. 2011. Efficacy of akanda (*Calotropis gigantean* L.) against some phytopathogenic bacteria. J. Agrofor. Enviorn. 5(1): 15-18.
14. Chowdhury EK., **Hasan MM.,** Mustarin KE., Hasan MS. and Fancy R. 2009. Efficacy of different fungicides in controlling rhizome rot of ginger. J. of Agrofor. Environ. 3(1): 179-181.
15. Hasan MS., **Hasan MM.,** Rashid M.M. and Hossain M.F. 2009. Combined management of *cercospora* leaf spot and anthracnose in okra seed production. J. of Agrofor. Environ. 3(1): 119-122.
16. Mustarin K., Uddin MN., **Hasan MM.** and Bhuyan M.M.H. 2009. Control of root-knot disease of soybean by *Trichoderma harzianum*. Bangladesh J. Prog. Sci. & Tech. 7(1): 41-44.
17. Khatun A., **Hasan MM.,** Rahman MM., Hasan MS. and Khandakar N. 2009. *In Vitro* regeneration in two potato (*Solanum tuberosum* L.) varieties. Bangladesh J. of Prog. Sci. and Tech. 7(1): 21-24.
18. Hossain SMM., Hassan SME., and **Hasan MM.** 2008. Field performance and disease incidence of farmers' saved wheat seed collected from major wheat growing regions of Bangladesh. Bangladesh J. of Seed Sci. 12(2): 163-168**.**
19. Khatun MT., Kabir MA., **Hasan MM**., Kabiraj RC. and Ahmad MU. 2008. Efficacy on root-knot (*Meloidogyne javanica*) of tomato of two alcoholic plant extracts with emphasis on chemical investigations. Journal of Science and Technology. 6: 97-102.
20. Hossain SMM., **Hasan MM.** and Hassan SME. 2008. Health of farmers' saved wheat seed of some wheat growing areas of Bangladesh. Bangladesh J. of Seed Sci. 12(2): 157-162**.**
21. Hassan SME., Hossain SMM., **Hasan MM.** and Mustarin KE. 2008. Effect of side dressing of furadan 5G and miral 3G against root-knot (*Meloidogyne javanica*) of brinjal. Bangladesh Res. Publ. J. 1 (2): 156-165.
22. Hossain MT., **Hasan MM.**, Alam, MA., Khatun A. and Alam M. 2008. Efficacy of hot water treatment device and some fungicides against *Phomopsis vexans* of eggplant. Int. J. BioRes. 4 (6): 54-58.
23. Hossain MM., **Hasan MM.**, Hasan MS., Alam MA. and Islam MT. 2007. Screening of tomato and brinjal against bacterial wilt caused by *Ralstonia solanacearum*; Int. J. Sustain. Agril. Tech. 3 (1): 12-15.
24. Rashid MM., Hassan SME. and **Hasan MM.** 2006. A benchmark study on quality seed production by the farmers of Dinajpur districts. J.Sci.Technol. (Dinajpur). Vol. 4: 133-136.
25. **Hasan MM.,** Ahmad MU., Khokon MAR. and Maung ZTZ. 2005. Bio-control of root-knot of mungbean. Bangladesh Journal of Crop Science. 16 (1): 59-63.

ATTENDED IN INTERNATIONAL CONFERENCES:

1. 5th international conference on "Food safety and health". Organized by Bangladesh Society for Safe Food. Held on February 18, 2023, Bangladesh Agricultural Research Council, Farmgate, Dhaka
2. The 9th China-Japan-Korea-USA Joint Symposium on "International Conference on Sustainable Agriculture and Biotechnology 2017". Held in May 16-21, 2017, College of Life and Applied Sciences, Yeungnam University, Korea
3. 10th International congress on "Plant Molecular Biology". Organized by Korean Society for Applied Biological Chemistry. Held in October 21-26, 2012, ICC Jeju, Korea.
4. International symposium & annual meeting of the KSAB. Organized by the Korean Society for Applied Biological Chemistry. Held in October 20-22, 2011, ICC Jeju, Korea.

5. General meeting of the Korean society of plant pathology. Held during April 21-23, 2011. Organized by the Korean Society of Plant Pathology. Kyeungpuk National University, Korea.
6. Fifth International Botanical Conference. Held during December 9-11, 2011. Organized by Bangladesh Botanical Society, Dhaka University, Bangladesh.

RESEARCH PROJECTED CONDUCTED:

1. Working as a Principal Investigator on "Up-scaling the formulation of bio-fungicide and bio-fertilizer to increase vegetable yield" From 2022-2025. Funded by Bangladesh Bureau of Educational Information & Statistics (BANBEIS), Ministry of Education, Government of the People's Republic of Bangladesh
2. Working as a Principal Investigator on" Development of bio-fungicide using beneficial bacteria" a collaborative project. From 2022-2024. Funded by: IRT, HSTU, through UGC, Govt. of Bangladesh
3. Worked as a Principal Investigator on "Molecular identification of beneficial bacteria showing antibacterial efficacy against *Ralstonia solanacearum* responsible for wilt disease of brinjal" Funded by: IRT, HSTU, through UGC, Govt. of Bangladesh. From 2021-2021.
4. Worked as a Principal Investigator on "Identification of native *Trichoderma* sp. to screen against different soil borne fungi including *Sclerotinia sclerotiorum"* Funded by: IRT, HSTU, through UGC, Govt. of Bangladesh. From 2020-2021.
5. Worked as a Principal Investigator on "Production of bacterial bio-pesticide for the management of nursery diseases of chilli". Funded by: University Grant Commission (UGC), Govt. of Bangladesh. From 2019-2020.
6. Worked as a Principal Investigator on "Development of an eco-friendly management practice for bacterial wilt (*Ralstonia solanacearum)* of brinjal with formulated bacteria and medicinal plant extracts". Funded by Ministry of Science and Technology, Govt. of Bangladesh. From 2019-2020.
7. Worked as a Principal Investigator on "Isolation and characterization of beneficial bacteria from soil for the biological control of bacterial wilt of brinjal". Funded by: IRT, HSTU, through UGC, Govt. of Bangladesh. From 2019-2020.
8. Worked as a Principal Investigator on "Biochemical characterization of *Xanthomonas oryzae* pv. *oryzae* isolated from bacterial leaf blight disease of rice" Funded by: IRT (5921), HSTU, through UGC, Govt. of Bangladesh. From 2018-2019.
9. Worked as a Principal Investigator on "Antibacterial Efficacy of neem (*Azidarachta indica*) and lime (*Citrus limon*) leaf extracts against *Xanthomonas oryzae* pv. *oryzae*". Funded by: IRT (4829), HSTU, through UGC, Govt. of Bangladesh. From 2018-2019.
10. Worked as a Principal Investigator on "Biochemical characterization of *Erwinina carotovoa* isolated from soft-rot disease of potato" Funded by: IRT, HSTU through UGC (5921), Govt. of Bangladesh. From 2017-2018.
11. Worked as a Principal Investigator on "Evaluation of antibacterial efficacy of ata and bael leaf extracts against *Erwinia carotovora".* Funded by: IRT, HSTU through UGC (4829), Govt. of Bangladesh. From 2017-2018.

TRAINING AND OTHER EXPERIENCES:

Participated a week long Training Workshop on "Plant Diseases Diagnostic" organized by BAU, Mymensingh and USDA.

INVOLVEMENT IN THE PROFESSIONAL SOCIETIES

12. Worked as a Principal Investigator on "Comparative Studies on the antimicrobial effect of ata (*Annona squamosa*) and turmeric (*Curcuma longa*) leaf against *Ralstonia Solanacearum*". Funded by: Institute of Research and Training (IRT), HSTU, through UGC, Govt. of Bangladesh. From 2015-2016.
13. Worked as a Principal Investigator on "Evaluation of some plant extracts against *Ralstonia solanacearum*", Funded by: Ministry of Science and Technology, Government of Bangladesh. From 2015-2016.
14. Worked as a Principal Investigator on "Evaluation of antibacterial efficacy of akanda (*Calotropis giganta* L.) and castor (*Ricinus communis*)". Funded by: Institute of Research and Training (IRT), HSTU, through UGC, Govt. of Bangladesh. From 2014-2015.

1. Member of editorial board of "Frontiers in Microbiology"
2. Member of editorial board of "Universal Journal of Agricultural Research"
3. Member of Bangladesh Krishibeed Institution (KIB)
4. Life member of "Bangladesh Phytopathological Society"
5. Life member of "Bangladesh Society for Safe Food"
   Life member of "Ecological Society of Bangladesh"

REFEREES :

Kwang-Hyun Baek, PhD. Professor Department of Biotechnology, Yeungnam University, Gyeongbuk, Gyeongsan 712-749, Korea E-mail: khbaek@ynu.ac.kr	**Hanhong Bae, PhD** Professor Department of Biotechnology Yeungnam University, Gyeongbuk, Gyeongsan 712-749, Korea E-mail: hanhongbae@ynu.ac.kr

MD. MOHIDUL HASAN, PhD