

CURRICULUM VITAE OF

MUHAMMAD MAHMUDUL HASAN, PhD
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Highlights of Research Qualifications:

- Twelve years experience in plant breeding, mutation breeding, marker-assisted breeding, statistical analysis and report writing of plant agricultural research.
- Experienced in research with molecular marker (SSR analysis of Rice).
- Experienced in media culture of rice blast; data collection and analysis.
- Experienced in Molecular Breeding. **Especially in Marker assisted backcrossing (MABC) in blast resistance breeding in rice.**
- Able to work well independently or as part of a team with excellent interpersonal and communication skills.
- Conducting research and management for the development of high yielding and disease resistant varieties of rice.

Educational Qualifications:

Degree/Certificate	University /College/ School	Year
Post Doctoral Research Fellow	Universiti Putra Malaysia (UPM), Malaysia	2018
PhD in Genetics and Plant Breeding	Universiti Putra Malaysia (UPM), Malaysia	2015
Master of Science (M.S.) in Agronomy	Bangladesh Agricultural University, Mymensingh	2008
B. Sc. in Agriculture, (Honours)	Bangladesh Agricultural University, Mymensingh	2006
Higher Secondary School Certificate (HSC)	K.B. Intermediate College, Mymensingh	2001
Secondary School Certificate (SSC)	Patadaha Koyra High School, Madarganj, Jamalpur	1999

Thesis Title:

Post Doc: **Introgression of blast resistant genes into rice through marker-assisted backcrossing (MABC)**

PhD: **Development of a blast resistant rice lines through marker-assisted backcrossing between varieties MR263 and Pongsu Seribu 1**

M.S: **Effect of Planting Method and Variety on Yield of Transplanting Aman Rice.**

Number publication	Total citation	H-index	i10-index	Highest citation
28	550	10	11	161

Publications:

Cited Index Journals:

1. **M. M. Hasan**, M. Y. Rafii, M. R. Ismai, M. Mahmood, H. A. Rahim, Md. Amirul Alam, M. A. Malek and M. A. Latif. 2015. **Introgression of the blast resistance gene into MR263, an elite variety, through marker-assisted backcrossing.** *Journal of the Science of Food and Agriculture*, DOI 10.1002/jsfa.7222. (Publisher:
2. **M. M. Hasan**, M. Y. Rafii, M. R. Ismai, M. Mahmood, H. A. Rahim, Md. Amirul Alam, Fahim Ahmed, M. A. Malek and M. A. Latif. 2018. **Genetic analysis of the resistance to rice blast in the BC2F1 population derived from MR263 × Pongsu Seribu1.** *Biotechnology & Biotechnological Equipment*. DOI: 10.1080/13102818.2018.1506266.
3. **M. M. Hasan**, M. Y. Rafii, M. R. Ismai, M. Mahmood, H. A. Rahim, Md. Amirul Alam, M. A. Malek and M. A. Latif. 2015. **Performance of yield and yield contributing characteristics of BC₂F₃ population with addition of blast resistant gene.** *Ciencia e Agrotecnologia*, 39 (5): 463-476.
4. Adedze Yawo Mawunyo Nevame, LuXia, ChofongGilbertNchongboh, **Muhammad Mahmudul Hasan**, Md. Amirul Alam, Li Yongbo, Zhang Wenting, Si Longting. 2020. **Validation of some disease resistance-molecular marker associated with multiple disease in tomato for marker-assisted selection program.** *Science Asia* (46) 19-29.
5. S. C. Chukwu, M. Y. Rafii, S. I. Ramlee, S. I. Ismail, M. M. Hasan, Y. A. Oladosu U. G. Magaji, Ibrahim Akos, K. K. Olalekan. 2019. **Bacterial leaf blight resistance in rice: a review of conventional breeding to molecular approach.** *Molecular Biology Reports*. <https://doi.org/10.1007/s11033-019-04584-2>.

6. Adedze Yawo Mawunyo Nevame, LuXia, ChofongGilbertNchongboh, **Muhammad Mahmudul Hasan**, Md. Amirul Alam, Li Yongbo, Zhang Wenting, He Yafei, Reza Mohammad Emon, Mohd Razi Ismail, Andrew Effisue, Sun Gang, Li Wenhui, Si Longting. 2018. **Development of a new molecular marker for the resistance to tomato yellow leaf curl virus**. Biomed Research International. Volume 2018, Article ID 8120281, 10 pages <https://doi.org/10.1155/2018/8120281>.
7. **M. M. Hasan**, M. Y. Rafii, M. R. Ismai, M. Mahmood, H. A. Rahim, Md. Amirul Alam, Sadegh Ashkani, M. A. Malek and M. A. Latif. 2015. Marker Assisted backcrossing: a useful method for rice improvement. *Biotechnology & Biotechnological Equipment*, 29 (2): 237-254.
8. **M. M. Hasan**, Md. Amirul Alam, M. Monjurul Alam Mondal and Adam B. Puteh. 2014. Varietal performance and effect of planting method on yield and yield contributing characteristics of rice. *Life Science Journal*, 11(9): 9- 13.
9. M. A. Alam, A. S. Juraimi, M. Y. Rafii, A. A. Hamid, F. Aslani, **M. M. Hasan**, M. A. M. Zainudin and M. K. Uddin. 2014. Evaluation of Antioxidant Compounds, Antioxidant Activities, and Mineral Composition of 13 Collected Purslane (*Portulaca oleracea* L.) Accessions. *BioMed Research International*, **2014: 1- 10**.
10. Fahim Ahmed, M. Y. Rafii, M. R. Ismai, Abdul Shukor Juraimi, H. A. Rahim, M. A. Latif, **M. M. Hasan** and Fatah Abro Tanweer. 2016. The addition of submergence-tolerant Sub1 gene into high yielding MR219 rice variety and analysis of its BC2F3 population in terms of yield and yield contributing characters to select advance lines as a variety. *Biotechnology & Biotechnological Equipment*, DOI:10.1080/13102818.2016.1192959
11. Nevame, A. Y. M., Emon, R. M., Malek, M. A., **Hasan, M. M.**, Md. Amirul Alam, Farah Melissa Muharam, Farzad Aslani, and Ismail, M. R. 2018. Relationship between High Temperature & formation of Chalkiness and their effects on Quality of Rice: A review. Biomed Research International. Volume 2018, Article ID 1653721, 18 pages <https://doi.org/10.1155/2018/1653721>.
12. Alam, M.A., Hakim, M. A., Abdul Shukor Juraimi., Rafii, M. Y., **Hasan, M. M.**, Farzad Aslani 2018. Potential allelopathic effects of rice plant aqueous extracts on germination and seedling growth of some rice field common weeds. *Italian Journal of Agronomy*, doi: 10.4081/ija.2018.1066
13. A. N. A. Haque, M. E. Hossain, M. E. Haque, **M. M. Hasan**, M. Y. Rafii, Heng, Lee, S. M. Shamsuzzaman. 2017. Effect of soil amendmets and nitrogen levels on growth, yield and nitrogen uptake by rice plant under saline condition in noakhali district, bangladesh . *Bangladesh Journal of Botany*, **46(1): 381-388. IF: 0.233**
14. A. N. A. Haque, M. E. Hossain, M. E. Haque, **M. M. Hasan**, M. Y. Rafii, M. A. Malek and S. M. Shamsuzzaman. 2017. Response of yield, nitrogen use efficiency and grain protein content of wheat (*triticum aestivum* l.) varieties to different nitrogen levels . *Bangladesh Journal of Botany*, **46(1): 389-396** Israt Jahan, M. M. Rahman, **M. M. Hasan**, M. E. Hossain, A. N. A. Haque, S. M. Shamsuzzaman, M. Y. Rafii. 2017. Residual effects of two consecutive

- applications of municipal solid waste compost and fertilizers on biomass production and yield of rice (*Oryza Sativa* L.). *Bangladesh Journal of Botany*, **46(1): 397-404.**
15. M. T. Rahman, M. R. Islam, **M. M. Hasan**, M. F. Iqbal, A. N. A. Haque, S. M. Shamsuzzaman, M. Y. Rafii. 2017. Effects of micronutrient on growth and micronutrient content of hybrid maize (*Zea Mays* L.) *Bangladesh Journal of Botany*, **46(1): 527-532.**
 16. M. S. Mia, A. K. Patwary, L. Hassan, **M. M. Hasan**, Md. A. Alam, M. A. Latif, M. A. Mondal and A. B. Puteh. 2014. Genetic Diversity Analysis of Ginger (*Zingiber officinale* Roscoe.) Genotypes Using RAPD Markers. *Life Science Journal*, 11(8): 90-94.
 17. S. K. Roy, M. Y. Ali, M. S. Jahan, U. K. Saha, M. S. Ahmad-Hamdani, **M. M. Hasan** and Md. Amirul Alam. 2014. Evaluation of growth and yield attributing characteristics of indigenous Boro rice varieties. *Life Science Journal*, 11(4): 122-126.
 18. Nusrat Jahan, Md. Rafiqul Islam, A. B. Siddique, M. Rafiqul Islam, **M. M. Hasan**, S. M. Shamsuzzaman and A.W. Samsuri. 2014. Effects of Integrated Use of Prilled Urea, Urea Super Granule and Poultry Manure on Yield of Transplant Aus Rice and Field Water Quality. *Life Science Journal*, 11(8):101-108.
 19. M. Monjurul Alam Mondal and Adam B. Puteh, M. A. kashem, **M. M. Hasan**, H. El-Zeadani and B. Zulkarami. 2014. Morpho-physiological and reproductive characters and their relationships with seed yield of advanced mungbean mutants. *Research on Crops*, 15 (2): 444-449.
 20. M. M. Rahman, M. A. Kader, A. Z. M. Moslehuddin, **M. M. Hasan**, A. B. Siddique, S. M. Shamsuzzaman and A. W. Samsuri. 2014. Response of Potato to Ash as an Alternative Source of Potassic Fertilizer. *Life Science Journal*, 11(11):14-19.
 21. M. A. Malek, M. Pramanik, M. H. R. Pramanik, M. R. Ismail, M. Y. Rafii , A. B. Puteh, M. M. A. Mondal and **M. M. Hasan**. 2014. Evaluation and selection of rapeseed (*Brassica napus* L.) mutants for higher seed yield. *Journal of Food, Agriculture & Environment*, 12 (1): 285 - 288.
 22. M. Monjurul Alam Mondal and Adam B. Puteh, M. A. kashem, **M. M. Hasan**. 2014. Effect of plant density on canopy structure and dry matter partitioning into plant parts of soybean (*Glycinmax*). *Life Science Journal*, 11(3):67-74.
 23. Z. Islam, M. K. Siddiqua, **M. M. Hasan**, M. A. Nahar¹, MD. Amirul Alam, S. M. Shamsuzzaman, M. A. Mondal and Adam B. Puteh. 2014. Assessment of genetic diversity of brinjal (*Solanum melongena* L.) germplasm by RAPD markers. *Research on Crops*, 15(2): 416-422.
 24. M. M. J. Liza, M.R. Islam, M. Jahiruddin, **M. M. Hasan**, Md. Amirul Alam, S. M. Shamsuzzaman and A. W. Samsuri. 2014. Residual effects of organic manures with different levels of chemical fertilizers on rice. *Life Science Journal*, 11(12):6-12.

25. F. Yasmine, M.A. Rahman, M.M. Hasan, Md. Amirul Alam, M.S. Haque, M.R. Ismail and M.Y. Rafii. 2019. Morphophysiological and yield attributes of groundnut varieties under different salinity stress conditions. *Legume Research*, 42(5) 2019:684-687
26. Farzad Aslani, A. Shukor Juraimi, M. Saiful Ahmad-Hamdani, M. Amirul Alam, M. Mahmudul Hasan, F. S. Golestan Hashemi and Mohammad Bahram. 2019. The role of arbuscular mycorrhizal fungi in plant invasion trajectory. *Plant Soil*. <https://doi.org/10.1007/s11104-019-04127-5>

Non Citation Indexed Journal

1. Ali, M. A., Hasan, M. M., Mia, M. S., Ahmad, Q. N. (2011). Karyotype analysis in lignosus bean (*Dipogon lignosus*) and lablab bean (*Lablab purpureus*). *Journal of the Bangladesh Agricultural University* 9(1): 27-36.

SEMINAR/ CONFERENCE/ CONGRESS/WORKSHOP ATTENDED

- First Plant Breeding Seminar (Advances in Plant Improvement). 3-5 July 2012, Agro-Biotechnology Institute, Malaysia (ABI), Serdang, Selangor, Malaysia.
- The First National LRGS Food Security Rice Research Colloquium 31 January, 2013. Auditorium Jurutera, Faculty of Engineering, UPM, Serdang, Selangor, Malaysia
- UPM-Thomson Reuters Seminar 2013. Driving Success in Research, Innovation and Commercialization. 20 Aug. 2013. Dewan Kuliah Utama, Faculty of Medicine and Health Science. UPM.
- Upm-Shizuoka University International Colloquium, 3 March 2014, Agriculture Hall Faculty of Agriculture, University Putra Malaysia.
- Workshop on Graphical Genotypes (GGT) for Visualization and Analysis of Genetic Data, 12 February 2015, University Putra Malaysia, Serdang, Selangor, Malaysia

References:

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