

Curriculum Vitae



1. Name : **MD. MAMUNUR RASHID**
2. Name of Institute : **Bangladesh Rice Research Institute**
3. Division/Regional Station : Plant Pathology Division, BRRI, Gazipur
4. Position : Senior Scientific Officer (Deputation)
5. Date of birth : 12 October, 1981
6. Mother's Name : Late Deloara Begum
7. Father's Name : Late Md. Abul Hashem
8. Spouse Name : Married
9. No. of children : 2 sons
10. Mailing Address : E-5, Fahima-Sowkot Dreams, 335-336, Adalot, Chotora, Adarsha Sadar, Cumilla-3500
Mobile : +8801712887507
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11. Permanent Address : Village : Uttar Gram (Mirza Bari), P.O. Sankuchail Bazar
Upazila : Burichong
District : Cumilla

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Name of institutions	Degree/ Certificate	Division/ Class/Grade	Major subjects
Kyoto Prefectural University, Japan	PhD	Pass Article	Molecular biology
BAU, Mymensingh	MS in Plant Pathology	Grade A CGPA 3.789	IDM, Bact., Dis. Res. CPP, SP, Pathogenesis etc.
BAU, Mymensingh	B. Sc. Ag. (Hons.)	1 st	P. Path, Agron, Soil Sci, GPB, Entom, C. Bot, etc.
Notre Dame College, Dhaka	HSC	1 st	Phy, Chem, Biology, Math, Bang, Eng.
Noagaon M A Mazid Mia High School	SSC	1 st	Bang, Eng, G. Sci, GMath, HMath etc.

13. Job experiences

Employer	Designation	Duration	Major areas of research
1. Apex Biopesticides and Biofertilizer Ltd.	Research Executive R & D	8.8.2007 to 8.11.2007	Biotechnological research, Microbiology
2. BRRI R/S Sonagazi, Feni and Gazipur, Bangladesh	SO	12.11.2007 to 13.12.2014	Plant Pathology
3. BRRI, Gazipur, Bangladesh	SSO	14.12.2014 to 3.1.2018	Plant Pathology
4. BRRI R/S Cumilla	SSO	4.1.2018 to date	

14. Experiences:

- ✚ Experienced in survey and monitoring of rice diseases in Bangladesh
- ✚ Identification of beneficial microorganisms against bacterial blight (*Xanthomonas oryzae* pv. *oryzae*) and sheath blight (*Rhizoctonia solani*) pathogens of rice.
- ✚ Studies on the development of biopesticides due to combat major rice diseases like bacterial blight and sheath blight
- ✚ Studies on genetic diversity of *Xanthomonas oryzae* pv. *oryzae* in Bangladesh
- ✚ Studies on the development of Bacterial Blight resistant rice variety by gene pyramiding.
- ✚ Experiments of Pest Management, Varietal Development are conducting at BRRI Gazipur.
- ✚ Participation of different workshops, seminars and DAE programs.

Scientific qualifications:

Gene transformation, gene sequencing, gene signalling pathway, gene expression studies, diagnostics of fungi, bacteria, statistical analyses of research data.

15. Number of Publications (Please enclose list):

List of Scientific articles

a) As Principal Author

1. **Rashid M. M.**, Khan M. M. R., Hossain, M. A. and Hossain M. M. 2007. Management of Seed-Borne Fungi of Jute in Mymensingh Region. Bangladesh J. Crop Sci. 18 (1): 209-214.
2. **Rashid M. M.**, Ruhul Amin A. B. M., Rahman F., Bhuiyan M. R., Meah M. B. and Mian M. S. 2010. Determination of Effective Dose of Garlic for Controlling Seed-Borne Fungal Disease of Tomato. Bangladesh Journal of Plant Pathology. 26 (1&2): 65-68.
3. **Rashid M. M.**, Kabir M. H., Hossain M. M., Bhuiyan M. R. and Khan M. A. I. 2015. Eco-friendly management of chilli anthracnose (*Colletotrichum capsici*). Int. J. Plant Pathol. 6 (1): 1-11.
4. **Rashid M. M.**, **Ikawa Y**, **Tsuge S.** 2016. GamR, the LysR-type galactose metabolism regulator, regulates *hrp* gene expression via transcriptional activation of two key *hrp* regulators, HrpG and HrpX, in *Xanthomonas oryzae* pv. *oryzae*. Appl. Environ. Microbiol. 82: 3947-3958. Doi.10.1128/AEM.00513-16.
5. **Rashid MM**, SAI Nihad, MAI Khan, A Haque, A Ara, T Ferdous, A Imran and MA Latif. 2021. Pathotype profiling, distribution and virulence analysis of *Xanthomonas oryzae* pv. *oryzae* causing bacterial blight disease of rice in Bangladesh. Journal of Phytopathology. 169 (7): 1-9.
6. **Rashid MM**, MR Bhuiyan, HA Dilzahan, MA Hamid, N Hasan, MAI Khan, MA Latif. 2021. Biological Control of Rice Sheath Blight Disease (*Rhizoctonia solani*) Using Biopesticides and Biocontrol agents. Bangladesh Rice Journal. 24 (1): 47-58.

b) As co-author

1. Masduzzaman S., Meah M. B., Seal H. and **Rashid M. M.** 2008. Determination of Inhibitory Action of Allamanda Leaf Extracts Against Some Important Plant Pathogens. J. Agric. Rural Dev. 6(1&2):107-112.

2. Ruhul Amin A. B. M., **Rashid M. M.**, Meah M. B. 2009. Efficacy of Garlic Tablet to Control Seed-borne Fungal Pathogens of Cucumber. *J. Agric. Rural Dev.* 7(1&2): 135-138.
3. Khan M. A. I., Kabir M. S., Monsur M. A., Tuhina-Khatun M., Nessa B., **Rashid M. M.**, Bhuiyan M. R., Ansary T. H., Ali M. A. and Mia M. A. T. 2010. Reaction of Some Pyramid Lines to Bacterial Leaf Blight Pathogen in Bangladesh. *Bangladesh Journal of Plant Pathology.* 26 (1&2): 45-52.
4. Rahman M. M., Ansari A. and **Rashid M. M.** 2010. Diversity Analysis in Rice Using GENSTAT and SPSS Programs. *The Agriculturists.* 8(2): 14-21.
5. Islam M. A., Islam M. R., Sarker A. B. S., Rahman M. M. and **Rashid M. M.** 2008. Effect of Phosphorus on growth and yield of a Japonica and Indica Rice Varieties. *J. Agric. Educ. Technol.* 11 (1&2): 79-86.
6. Bhuiyan M. R., Rashid M. M., Debjit Roy, Karmakar B. Hossain M. M. and Khan M. A. I. 2011. Sound Weed Management Option for Sustainable Crop Production. *Bangladesh J. Weed Sci.* 2(1&2): 79-86.
7. Rahman M. M., Syed M. A., Adil M, Ahmad H. and **Rashid M. M.** 2012. Genetic Variability, Correlation and Path Coefficient Analysis of Some Physiological Traits of Transplanted Aman Rice (*Oryza sativa* L.). *Middle-East J. Sci. Res.* 11 (5): 563-566.
8. Rahman M. M., **Rashid M. M.** and Islam M. A. 2013. Transplanting by Uprooting Tillers from Dibbled Field: An Idea for Crop Intensification and Sustainable Rice Cultivation. *J. Rice Res.* 1: 109. doi: 10.4172/jrr.1000109.
9. Bhuiyan M. R., **Rashid M. M.**, Khan M.A.I., Hoque M., Nessa B., Rafii M. Y. and Latif M. A. 2013. Eco-friendly Management of Seed Borne fungi for Sustainable Crop Production. *Life Sci. J.* 10 (4): 1640-1650.
10. Kabir M. H., **Rashid M. M.**, Bhuiyan M. R., Mian M. S., M. Ashrafuzzaman, Rafii M. Y. and Latif M.A. 2014. Integrated Management of Alternaria Blight of Broccoli. *J. Pure Appl. Microbiol.* 8 (1): 149-158.
11. ABM Muzahidul Islam, Rahman J R, Nihad SAI, Akter R, Dilzahan HA, Islam MZ, Bhuiyan MR, Kabir MH, **Rashid MM**, Islam MR, Latif MA and Khan MAI. 2017. Evaluation of indigenous rice germplasm for identification of durable bacterial blight (*Xanthomonas oryzae* pv. *oryzae*) resistance sources in Bangladesh. *The Experiment.* 43(3): 2495-2515.
12. JR Rahman, **Rashid MM**, Nihad SAI, Ara A, Islam MR and Khan MAI. 2018. Evaluation of chemicals against bacterial blight of rice caused by *Xanthomonas oryzae* pv. *oryzae*. *Bangladesh Journal of Agriculture.* 41-43: 1-12.
13. SAI Nihad, Ara A, **Rashid MM**, Hasan MAI, Khan MAI, Latif MA. 2021. Genetic diversity of rice genotypes revealed bacterial blight disease and morphological traits. *Bangladesh Rice Journal.* 24 (1): 71-84.
14. Latif MA, Uddin MB, **Rashid MM**, Hossain M, Akter S, Jahan QSA, Hossain MS, Ali MA, Hossain MA. 2021. Rice Bakanae disease: Yield loss and Management issues in Bangladesh. *Food Science and Technology.* 9 (1): 7-16.

Conference Paper

1. Kader MA, Biswas PS, Ahmed HU, Hossain MA, Islam MR, Bari MN, Siddique MA, Hore TK, Haque MM, Amin A, Bhuiyan MKA, ALi MP, Monsur MA, Iqbal M, Shozib HB, Ferdous N, Hossain M, Islam A, Mian MS, **Rashid MM**, Adil M, Akter S, Akter F, Rashid MH, Syed MA, Hossain ATMS, Moniruzzaman S, Hera HR, Jahan GS, Latif MA, Aditya TL, Ali MA, Kabir MS, Reinke MR, Swamy M, Boncodin R, MacKenzie DJ. 2019. Updates of golden rice research in Bangladesh.

2. Khan MAI, Latif MA, Bhuiyan MR, **Rashid MM**, Monsur MA, Ali MA. 2020. pathogenicity of blast isolates and genetic variation of resistance of rice in Bangladesh. 2020. JIRCAS-FFTC International workshop on applicable solutions against rice blast in Asia.
3. **Rashid MM**, Khan MAI, Khantun M, Iftekharuddoula KM, Latif MA. 2017. Screening of rice genotypes against bacterial blight disease of rice in Bangladesh. Annual Review and planning workshop: Stress Tolerance Rice for Africa and South Asia (STRASA). Delhi, India.
4. Latif MA, **Rashid MM**, Khantun M, Iftekharuddoula KM, Khan MAI. 2018. Screening of rice genotypes against bacterial blight and blast diseases of rice in Bangladesh.

Poster

1. Hossain MK, Hasan MR, Debsharma, **Rashid MM**, Islam MM, Hossain MM, Islam MR. The promise of genomic selection in breaking yield ceiling in rice. 2019. International Conference on Plant Breeding for sustainable development. 2-5 July 2019, Gwangju, South Korea.

Leaflets:

1. MAI Khan, Bhuiyan MR, **Rashid MM**, Latif MA, Iftekharuddoula KM, Moni ZR and Ali MA. 2014. "Farmers practices to control sheath blight disease of rice". Funded by Integrated Agricultural Productivity Project (IAPP)-BRRI component.
2. MAI Khan, Bhuiyan MR, **Rashid MM**, Latif MA, Iftekharuddoula KM, Moni ZR and Ali MA. 2014. "Farmers practices to control blast disease of rice". Funded by Integrated Agricultural Productivity Project (IAPP)-BRRI component.
3. **Rashid MM**, Mian MS, Khan FH, Hossain M, Nihad SAI, Khan MAI, Ansari TH, Latif MA. 2020. Management technology of rice tungro disease in Cumilla region (Leaflet). Published by Bangladesh Rice Research Institute. Publication No. 306.
4. **Rashid MM**, Khan FH, Nandi P, Sultana A, Hossain M, Mian MS, Khan MAI, Latif MA. 2020. Blast disease management of aromatic Aman rice variety in Cumilla Region. (Leaflet). Published by Bangladesh Rice Research Institute, Regional Station, Cumilla.
5. **Rashid MM**, Khan FH, Nandi P, Sultana A, Hossain M, Mian MS, Khan MAI, Latif MA. 2019. Blast disease management of Boro rice varieties in Cumilla region (Leaflet). Published by Bangladesh Rice Research Institute, Regional Station, Cumilla.

16. Trainings Information:

Course Title	Institution	*Location	Period		Grade	Position
			From	To		
Breeder Seed Production and Preservation of Rice	BRRI	Gazipur	14.6.2008	16.6.2008	Successfully completed	-
Training on Hybrid Rice Production	BRRI	Gazipur	6.4.2008	10.4.2008	Successfully completed	-
One month rice production Training	BRRI	Gazipur	21.3.2010	19.4.2010	Distinction	3rd
Application of ICT in Agriculture using GIS on Arc View & Arc GIS Technology	BRRI	Gazipur	11.12.2011	15.12.2011	Successfully completed	-
Basic Plant Breeding for Agricultural Researchers	BSMRAU	Gazipur	3.6.2012	14.6.2012	Successfully completed	-
Identification of major diseases and insect pests of important crops and their management	BRRI	Gazipur	2.9.2012	6.9.2012	Successfully completed	

Theoretical and applied molecular breeding	BIRRI	Gazipur	24.9.2012	29.9.2012	Successfully completed	-
Agricultural Research Methodology	BIRRI	Gazipur	22.12.2019	26.12.2019	Successfully completed	
Service process Simplification (SPS)	BIRRI	Gazipur	29.2.2020	1.3.2020	Successfully completed	
Scientific report writing	BIRRI	Gazipur	15.11.2020	19.11.2020	Successfully completed	

17. Field of Specialization : Molecular Plant Pathology

18. Awards (s):
- ✚ Successfully completed the **Post-Graduate Certificate course on Seed Technology** supported by **DANIDA** in the Seed Pathology Centre, Bangladesh Agricultural University, Mymensingh.
 - ✚ Japaneses Government (Monbukagakusho: MEXT) Scholarship Award 2012 for PhD
 - ✚ Certificate of recognition: I have got TRB-BIRRI Annual Award for excellent contribution and works to TRB (Transgenic Rice Breeding) in 12 March 2018, 2019, 2020

19. Membership of Professional Societies: Life member of Bangladesh Phytopathological Society, Seed Pathological society and Member of Japanese Phytopathological Society

20. Project involvement:

- a) Integrated Agricultural Productivity Project (IAPP)-BIRRI from June 2011-Oct. 2012
- b) Transgenic Rice Breeding (TRB)-BIRRI Project: From April 2017 to March 2021

Project involvement:

- a) Collaboration with DANIDA for Adaptation of Bangladesh Agriculture to climate change.
- b) Collaboration with Russel IPM, UK for the development of Biopesticides for controlling major rice diseases in Bangladesh.
- c) NATP-II PBRG project submitted: Ensuring the national food security through identification of novel resistant genes, gene pyramiding and sustainable management of bacterial blight (BB) disease of rice
- d) Bangladesh Academy of Sciences (BAS) funded project: Development of bacterial blight resistant rice variety
- e) STRASA
- f) TRB, BIRRI Cumilla
- g) Golden rice
- h) Healthier rice

Md. Mamunur Rashid

Senior Scientific Officer

Plant Pathology Division

Bangladesh Rice Research Institute

Regional Station, Cumilla, Bangladesh