

# CV of Dr. Md. Mamunur Rahman



1.	Name	: Dr. Md. Mamunur Rahman
2.	Father's name	: Md. Ramiz Uddin
3.	Mother's name	: Nurjahan Begum
4.	Husband's name (if applicable)	: Not applicable
5.	Gender	: Male
6.	Designation	: Senior Scientific Officer
7.	Institution	: Bangladesh Rice Research Institute
8.	Date of joining in the present position	: November 22, 2012
9.	Date of first joining in service	: November 12, 2007
10.	Date of birth and age	: January 01, 1982

## 11. Educational Qualification

Degree/Diploma/Certificate	Class/Grade/Division	University/Institute/Board	Year
S.S.C.	1 <sup>st</sup> Division	Dhaka Board	1997
H.S.C.	1 <sup>st</sup> Division	Jessore Board	1999
B.Sc. Ag (Hons)	CGPA 3.76 (out of 4.00)	Patuakhali Science and Technology University	2006
M. S. in Genetics and Plant Breeding	CGPA 3.77 (out of 4.00)	Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh	2010
Ph. D		Kanazawa University, Japan	2013

## 12. Field of Specialization:

- 1) Molecular Biology
- 2) Proteomics
- 3) Plant Breeding
- 4) Plant toxicology
- 5) Adaptive research
- 6) Technology Transfer

### 13. Training:

#### a) In Country:

SN	Organization	Year	Duration		Name of Program
			Month	Days	
1	BRRI, Gazipur	2008	0	05	Hybrid Rice Development and Seed Production
2	BRRI, Gazipur	2008	0	03	Breeder Seed Production and Preservation of Rice
3	BRRI, Gazipur	2009	0	02	Participatory Varietal Selection
4	BRRI, Gazipur	2010	0	03	Breeder Seed Production and Preservation of Rice
5	BARC, Dhaka	2013	0	05	Financial Management and Procurement
6	BRRI, Gazipur	2013	0	03	Training on Experimental Design, Layout and Statistical Analysis
7	BRRI, Gazipur	2014	2	0	Two-month Rice Production Training Course
8	GTI, BAU, Mymensing	2014	0	13	Research Methodology
9	NATA, Gazipur	2017	0	05	Climate Smart Agriculture
10	BRRI, Gazipur	2017	0	05	Hybrid Rice Development and Seed Production Training Course
11	BRRI, Gazipur	2018		05	Innovation in Public Service
12	BARC, Dhaka	2018	0	04	Farming Systems Research and Development
13	Cabinet Division and a2i programme	2018	0	03	Innovation Project Design
14	BRRI, Cabinet Division and a2i programme, ICT Division	2020	0	2	Innovation in Public Service
15	NATA, Gazipur	2020-21	4	0	Foundation Training Course

#### b) Abroad: N/A

### 14. Experience:

Position	Period		
	From	To	Total (Yr. /Mo.)
Scientific Officer	November 12, 2007	November 21, 2012	5 years 0 months
Senior Scientific Officer	November 22, 2012	To date (06/07/2021)	

### 15. Publications (Attachment 1)

(a)	Scientific journal	No. of publication
	(i) Full paper	
	a) Paper Published in the Reputed International Journal (having impact factor)	
	Principal author	4
	Co-author	8
	b) Other International and National Journal	
	Principal author	9
	Co-author	13
	(i) Short Communication	
	Principal author	0
	Co-author	0
(b)	Books/Monographs/Bulletins/Leaflets/Popular Articles	
	(ii) Books	
	Principal author	1
	Co-author	1
	(iii) Monographs/Leaflets	
	Principal author	0
	Co-author	0
	(iv) Bulletins/Poster Paper/Popular Articles	
	Principal author	3
	Co-author	0
(c)	Seminar/Workshop/Symposium Proceedings	
	(i) International/National	
	Principal author	4
	Co-author	1

### 16. Research achievement

- (i) No. of Technology developed : 2
- (ii) No. of Research Programme
  - (a) Developed : 22
  - (b) Supervised : 18
  - (c) Executed : 72

**17. Outstanding achievement:** Monbukagakusho scholar for PhD under Kanazawa University, Japan.

## 18. Relevant activities and achievements

SN	Relevant activities and achievements	Link/Attachment/Number
1	Collaborative professor, Kanazawa University, Japan	From 2017; 5 years
2	Editorial Board Member, <b>Journal:</b> Rice Research: Open Access	<a href="https://www.omicsonline.org/editorialboard-rice-research-open-access.php">https://www.omicsonline.org/editorialboard-rice-research-open-access.php</a>
3	Editorial Advisory Board Member, <b>Journal:</b> Review of Plant Studies	<a href="http://www.conscientiabeam.com/editors/editor-list.html">http://www.conscientiabeam.com/editors/editor-list.html</a>
4	Original Research paper reviewed	10
5	Organized and participated in Field day, Rice Production Training and District Agricultural Technology Extension Committee (DATEC) meeting etc.	50
6	Participated as a resource person and delivered lecture on Rice and Rice based Technology in the training programs of Bangladesh Rice Research Institute, Department of Agriculture Extension, Blue Gold Program etc.	50
5	Scored 6.00 in the International English Language Testing System (IELTS) at British Council, Dhaka  Scored 795 in TOEIC test, ETS, Japan	
6	Office management: Worked as CoPI of “Climate Resilient Farming Systems Research and Development for the Coastal Ecosystem” for one year (2018-2019).	

## Attachment 1: List of publications

Book	: 1
Scholarly book chapter	: 1
Papers in referred journals	: 34
International Impact Factor Journal	: 12
Local and non-Impact Factor Journal	: 22

### *Book – 1*

1. M. Mamunur Rahman, M. K. Bashar and M. G. Rasul. 2012. Molecular Characterization and Genetic Variation in Rice. LAP Lambert Academic Publishing GmbH & Co. KG, Saarbrücken, Germany. (ISBN:978-3-659-17000-3)  
(URL: <https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-659-17000-3/molecular-characterization-and-genetic-variation-in-rice>)

### *Scholarly book chapters – 1*

1. M. Azizur Rahman, M. Mamunur Rahman and H. Hasegawa. 2012. Arsenic in Rice: A Human Health Emergency in South and South-East Asia. In: Rice: Production, Consumption and Health Benefits. Ed. Yoshihiro Liu and Liliana Froyen. Nova Science Publishers, Inc. New York. Pp: 37-64. (URL: <http://www.barnesandnoble.com/w/rice-yoshihiro-liu/1111468590>)

### *Journal Articles as First Author (International and Impact factor journals)-4*

1. **M. M. Rahman**, M. A. Rahman, T. Maki, T. Nishiuchi, T. Asano and H. Hasegawa. 2015. A marine phytoplankton *Prymnesium parvum* upregulates the component proteins of photosystem II under iron stress. *Photosynthetica*, 53(1): 136-143 (Impact Factor: 1.007).  
(URL: <http://link.springer.com/article/10.1007/s11099-015-0095-4?no-access=true>)
2. **M. Mamunur Rahman**, M. Azizur Rahman, T. Maki, T. Nishiuchi, T. Asano and H. Hasegawa. 2013. A marine phytoplankton (*Prymnesium parvum*) up-regulates ABC transporters and several other proteins to acclimatize with Fe-limitation. *Chemosphere*, 95: 213-219. (Impact Factor: 3.499)  
(URL: <http://www.sciencedirect.com/science/article/pii/S0045653513012198>)
3. **M. Mamunur Rahman**, M. Azizur Rahman, T. Maki and H. Hasegawa. 2012. Phytotoxicity of arsenate and salinity on early seedling growth of rice (*Oryza sativa* L.): A threat to sustainable rice cultivation in South and South-East Asia. *Bulletin of Environmental Contamination and Toxicology*, 88(5): 695-702. (Impact Factor: 1.216)  
(URL: <http://link.springer.com/article/10.1007/s00128-012-0580-4?no-access=true>)
4. **M. Mamunur Rahman**, M. G. Rasul, M. A. Hossain, K. M. Iftekharruddaula and H. Hasegawa. 2012. Molecular characterization and genetic diversity analysis of rice (*Oryza*

*sativa* L.) using SSR markers. Journal of Crop Improvement, 26(2): 244-257. (Impact Factor: 0.649)  
(URL: <http://www.tandfonline.com/doi/abs/10.1080/15427528.2011.627533>)

#### ***Journal Articles as Co-author (International and Impact factor journals)-8***

1. H. Hasegawa, K. Nakagawa, M. Azizur Rahman, M. Takemura, T. Maki, K. Naito and **M. Mamunur Rahman**. 2015. A fluorescent-based HPLC assay using 4-chloro-7-nitrobenzo-2-oxa-1, 3-diazole as derivatization agent for the determination of iron bioavailability to red tide phytoplankton. Chromatographia. 78: 65-72. (Impact Factor: 1.37)  
(URL: <http://link.springer.com/article/10.1007%2Fs10337-014-2792-8>)
2. M. Azizur Rahman, **M. Mamunur Rahman** and H. Hasegawa. 2014. A new citrate-bicarbonate-ethylenediaminetetraacetate (CBE) method for chemical extraction of hydrous iron oxides from plant root surfaces. Communications in Soil Science and Plant Analysis, 45(13): 1760-1771. (Impact Factor: 0.496)  
(URL: <http://www.tandfonline.com/doi/abs/10.1080/00103624.2014.884106>)
3. M. Azizur Rahman, H. Hasegawa, **M. Mamunur Rahman**, T. Maki and Richard P. Lim. 2013. Effect of iron ( $\text{Fe}^{2+}$ ) concentration in soil on arsenic uptake in rice plant (*Oryza sativa* L.) when grown with arsenate [As(V)] and dimethylarsinate (DMA). Water, Air, & Soil Pollution, 224(7): 1-11. (Impact Factor: 1.748)  
(URL: <http://link.springer.com/article/10.1007/s11270-013-1623-0>)
4. Hiroshi Hasegawa, **M. Mamunur Rahman**, Sayaka Kato, Teruya Maki, M. Azizur Rahman. 2013. Potential of proteins and their expression level in marine phytoplankton (*Prymnesium parvum*) as biomarker of N, P and Fe conditions in aquatic systems. Advances in Biological Chemistry, 3(3): 338-346. (Impact Factor: 0.21)  
(URL: <http://www.scirp.org/journal/PaperInformation.aspx?PaperID=33577>)
5. M. Azizur Rahman, **M. Mamunur Rahman**, T. Maki and H. Hasegawa. 2012. The significance of biodegradable methylglycinediacetic acid (MGDA) for iron and arsenic bioavailability and uptake in rice plant. Soil Science and Plant Nutrition, 58(5): 627-636. (Impact Factor: 1.38)  
(URL: <http://www.tandfonline.com/doi/abs/10.1080/00380768.2012.717246>)
6. Hiroshi Hasegawa, **M. Mamunur Rahman**, Kouta Kadohashi, Yui Takasugi, Yousuke Tate, Teruya Maki and M. Azizur Rahman. 2012. Significance of the concentration of chelating ligands on  $\text{Fe}^{3+}$ -solubility, bioavailability, and uptake in rice plant. Plant Physiology and Biochemistry, 58: 205-211. (Impact Factor: 2.98)  
(URL: <http://www.sciencedirect.com/science/article/pii/S0981942812001702>)
7. M. Azizur Rahman, **M. Mamunur Rahman** and Hiroshi Hasegawa. 2012. Arsenic-induced straighthead: An impending threat to sustainable rice production in South and South-East Asia!. Bulletin of Environmental Contamination and Toxicology, 88(3): 311-315. (Impact Factor: 1.216)

(URL: <http://link.springer.com/article/10.1007/s00128-011-0490-x?no-access=true>)

8. M. Azizur Rahman, **M. Mamunur Rahman**, K. Kadahashi, T. Maki and H. Hasegawa. 2011. Effect of external iron and arsenic species on chelant-enhanced iron bioavailability and arsenic uptake in rice (*Oryza sativa* L.). *Chemosphere*, 84(4): 439-445. (Impact Factor: 3.21)  
(URL: <http://www.sciencedirect.com/science/article/pii/S0045653511003419>)

#### **Journal Articles as First Author (Local and other journals)-9**

1. **M. Mamunur Rahman**, M. A. Syed, A. Akter, Md. Meskatul Alam and Md. Monjurul Ahsan. 2014. Genetic variability, correlation and path coefficient analysis of morphological traits in transplanted Aman rice (*Oryza sativa* L.). *American-Eurasian Journal of Agricultural & Environmental Sciences*, 14(5): 387-391.  
(URL: <http://www.idosi.org/aejaes/jaes14%285%2914/1.pdf>)
2. **M. Mamunur Rahman**, M. M. Rashid and M. A. Islam. 2013. Transplanting by uprooting tillers from dibbled field: An idea for crop intensification and sustainable rice cultivation. *Journal of Rice Research*, 1(2): 109.  
(URL: <http://esciencecentral.org/journals/transplanting-by-uprooting-tillers-from-dibbled-field-an-idea-for-crop-intensification-and-sustainable-rice-cultivation-jrr.1000109.pdf>)
3. **M. Mamunur Rahman**, M. A. Syed, M. Adil, H. Ahmad and M. M. Rashid. 2012. Genetic variability, correlation and path coefficient analysis of some physiological traits of transplanted Aman rice (*Oryza sativa* L.). *Middle-East Journal of Scientific Research*, 11(5): 563-566.  
(URL: <http://www.idosi.org/mejsr/mejsr11%285%2912/4.pdf>)
4. **M. Mamunur Rahman**, A. Hussain, M. A. Syed, A. Ansari and M. A. A. Mahmud. 2011. Comparison among clustering in Multivariate analysis of rice using morphological traits, physiological traits and simple sequence repeat markers. *American Eurasian Journal of Agriculture and Environmental Science*, 11(6): 876-882.  
(URL: <http://www.idosi.org/aejaes/jaes11%286%2911/18.pdf>)
5. **M. Mamunur Rahman**, M. Azizur Rahman, A. Hossain and G. Rasul. 2011. Comparative Study on Morphological, Physiological and Molecular Genetic Diversity Analysis in Rice (*Oryza sativa* L.). *Libyan Agriculture Research Center Journal International*, 2(2): 85-93.  
(URL: <http://www.idosi.org/larcji/2%282%2911/7.pdf>)
6. **M. Mamunur Rahman**, M. G. Rasul, M. K. Bashar, M. A. Syed and M. R. Islam. 2011. Parent selection for transplanted Aman rice breeding by morphological, physiological and molecular diversity analysis. *Libyan Agriculture Research Center Journal International*, 2(1): 29-35.  
(URL: <http://www.idosi.org/larcji/2%281%2911/6.pdf>)

7. **M. M. Rahman**, A. Ansari and M. M. Rashid. 2010. Diversity analysis in rice using GENSTAT and SPSS programs. *The Agriculturists*, 8(2): 14-21.  
(URL: <http://www.banglajol.info/index.php/AGRIC/article/view/7572/5711>)
8. **M. M. Rahman**, M. A. Islam, S. M. Shahidullah, S. M. M. Islam and H. Begum. 2010. Physiogenetic variation in BIRRI developed T. Aman rice (*Oryza sativa* L.) varieties. *The Agriculturist*, 8(1): 32-37.  
(URL: )
9. **M. M. Rahman**, M. G. Rasul, M. K. Bashar, M. A. K. Mian and M. M. Haque. 2009. Morphogenetic divergence in T. Aman rice (*Oryza sativa* L.). *Bangladesh Journal of Plant Breeding and Genetics*, 22(2): 67-71.  
(URL: <http://www.banglajol.info/bd/index.php/BJPBG/article/view/9095>)

#### ***Journal Articles as Co-author (Local and other journals)-13***

1. Md. Rafiul Alam Khan, Firoz Mahmud, Mir Alif Reza, Md. Mostofa Mahub, Bir Jahangir Shirazy and **M. Mamunur Rahman**. 2017. Genetic Diversity, Correlation and Path Analysis for Yield and Yield Components of Pea (*Pisum sativum* L.). *World Journal of Agricultural Sciences*, 13 (1): 11-16. ([https://www.idosi.org/wjas/wjas13\(1\)17/2.pdf](https://www.idosi.org/wjas/wjas13(1)17/2.pdf))
2. M. M. Mahub, **M. Mamunur Rahman**, M. S. Hossain, L. Nahar and B. J. Shirazy. 2016. Morphophysiological variation in Soybean (*Glycine max* (L.) Merrill). *American-Eurasian Journal of Agricultural & Environmental Sciences*, 16(2): 234-238.  
(URL: <http://www.idosi.org/aejaes/jaes16%282%2916/4.pdf>)
3. M. M. Mahub, **M. Mamunur Rahman**, L. Nahar and M. M. Mir Kabir. 2015. Genetic Variability Analysis in Different Genotypes of Soybean (*Glycine max* (L.) Merrill). *American-Eurasian Journal of Agricultural & Environmental Sciences*, 16(1): 231-236.  
(URL: <http://www.idosi.org/aejaes/jaes16%282%2916/16.pdf>)
4. M. M. Mahub, **M. Mamunur Rahman**, M. S. Hossain, F. Mahmud and M. M. Mir Kabir. 2015. Genetic variability, correlation and path analysis for yield and yield components in soybean. *American-Eurasian Journal of Agricultural & Environmental Sciences*, 15(2): 231-236.  
(URL: <http://www.idosi.org/aejaes/jaes15%282%2915/15.pdf>)
5. Md. Monjurul Ahasan, Md. Abdur Rashid, **Md. Mamunur Rahman**, Md. Anisur Rahman, Meskatul Alam and Sultana Umma Habiba. 2014. Esterase variability in the different tissues of farm fowl. *International Journal of Genetics*. 4(2): 11-15.  
(URL: <http://idosi.org/ijg/4%282%2914/1.pdf>)
6. Anowara Akter, M. Jamil Hassan, M. Umma Kulsum, M. R. Islam, Kamal Hossain, **M. Mamunur Rahman**. 2014. AMMI biplot analysis for stability of grain yield in hybrid rice (*Oryza sativa* L.). *Journal of Rice Research*, 2(2): 126.  
(URL: <http://esciencecentral.org/journals/ammi-biplot-analysis-for-stability-of-grain->



[yield-in-hybrid-rice-oryza-sativa-l-jrr.1000126.pdf](#)

7. M.A.A. Mahmud, M.A. Syed, **M. Mamunur Rahman**, M.R. Islam and A. Husna. 2011. Genetic divergence in 58 advanced lines of *Brassica rapa*. Libyan Agriculture Research Center Journal International, 2(5): 209-214.  
(URL: <http://idosi.org/larcji/2%285%2911/2.pdf>)
8. A. Ansari, A. W. Julfikar, M. G. Rasul, M. J. Hasan and **M. M. Rahman**. 2010. Genetic parameter, correlation and path analysis for yield and yield related traits in some maintainer lines of hybrid rice (*Oryza sativa* L.). Eco-friendly Agriculture Journal, 23(2):89-95.  
(URL:)
9. M. M. Rahman, **M. M. Rahman**, L. Rahman, H. Begum and S. M. M. Islam. 2009. Molecular characterization and diversity analysis of Brassica genotypes. Bangladesh Journal of Plant Breeding and Genetics, 22(1): 01-08.  
(URL: <http://www.banglajol.info/bd/index.php/BJPBG/article/view/9069>)
10. A. Ansari, M. G. Rasul, A. W. Julfikar, **M. M. Rahman** and Shamsunnaher. 2009. Multivariate analysis in cytoplasmic male sterile lines of rice (*Oryza sativa* L.). Bangladesh Journal of Plant Breeding and Genetics, 22(2): 25-28.  
(URL: <http://www.banglajol.info/bd/index.php/BJPBG/article/view/9087>)
11. Kamal Hossain, A. Akter, H. Begum, A. Ansari and **M. M. Rahman**. 2009. Line x Tester analysis for yield and its related traits in rice (*Oryza sativa* L.) Bangladesh Journal of Plant Breeding and Genetics, 22(2): 01-06.  
(URL: <http://www.banglajol.info/index.php/BJPBG/article/view/9083>)
12. A. Akter, M. K. Hossain, M. J. Hasan, P. L. Biswas and **M. M. Rahman**. 2009. Genetic diversity in maintainer lines of hybrid rice (*Oryza sativa* L.). Bangladesh Journal of Plant Breeding and Genetics, 22(2): 13-18.  
(URL: <http://www.banglajol.info/index.php/BJPBG/article/view/9085>)
13. M. A. Islam, M. R. Islam, A. B. S. Sarker, **M. M. Rahman** and M. M. Rashid. 2008. Effect of phosphorus on growth and yield of a japonica and indica rice varieties. Journal of Agricultural Education and Technology, 11(1&2): 79-86.