

CURRICULUM VITAE

1. **Name** : Ratna Rani Majumder
2. **Father's Name** : Jadab Chandra Majumder
3. **Mother's Name** : Renuka Majumder
4. **Husband's Name** : Ripon Kumar Roy
5. **Sex** : Female
6. **Date of Birth** : 01 October 1984
7. **Mobile No.** : +88 01722040199
8. **Nationality** : Bangladeshi (By Birth)
9. **Religion** : Hindu (Sanatan)
10. **Marital status** : Married
11. **Permanent Address** : Village : Madhabpur Post Office : Madhabpur,
Upazilla. : Bauphal District : Patuakhali
12. **Present Address** : Scientific Officer, Plant Breeding Division, Bangladesh Rice Research
Institute, Gazipur-1701, Bangladesh
13. **Email** : rrmajumder@yahoo.com
14. **Educational Qualification**



Degree	University/ Institution	CGPA/ Division	Year of passing	Major subjects
MS (Genetics & Plant Breeding)	Bangabandhu Sheikh Mujibur Rahman Agricultural University	3.70 out of 4.00	2009	Genetics & Plant Breeding (Genetics, Cytogenetics, Plant Breeding, Advanced Plant Breeding, Molecular Genetics Quantitative Genetics, Breeding Field Crops, Plant Biochemistry ¹ , Plant Tissue Culture)
B.Sc. Ag. (Hons.)	Sher-e-Bangla Agricultural University	3.80 out of 4.00	2006	Genetics, Agronomy, Soil Science, Plant Pathology, Entomology, Agril. Chemistry, etc.
Higher Secondary School Certificate	Gazipur Govt. Mohila College	First (759 Marks)	2002	Bangla, English, Physics, Chemistry, Biology, Mathematics
Secondary School Certificate	BARI High School	First (802 Marks)	2000	Bangla, English, Physics, Chemistry, Biology, Mathematics

15. Job Experience

Designation	Duration	Location
Scientific Officer	From 20-08-2009 to 14-12-2014	Plant Breeding Division, BRRI, Gazipur
Senior Scientific Officer	From 15-12-2014 to date	Plant Breeding Division, BRRI, Gazipur

16. Research Activities

Activity 1: I am working as a co- investigator of Stress Tolerant Rice for South Africa and Asia (STRASA)-Drought project for Development of Drought Tolerant Rice varieties. I was the Principal Investigator of (Integrated Agricultural Productivity Project) IAPP-Drought from Boro 2012 to Boro 2013.

BRRi dhan56, BRRi dhan57 and BRRi dhan66 are the drought tolerant varieties for the T. Aman season, have been developed under the umbrella of Drought projects in the year 2011 and 2014, respectively.

Activity 2: I was a co-investigator of the project entitled “Pyramiding *saltol* and submergence tolerance gene in the genetic background of BRRi dhan49” in Plant Breeding Division of BRRi. Homozygous BRRi dhan49-*Saltol* lines were crossed with BRRi dhan49-*Sub1* line and produced pyramided F₁ seeds possessing *Saltol* and *Sub1* QTLs in the same background of BRRi dhan49.

Activity 3: I am working as a principal investigator for Development of Premium Quality Rice. BRRi dhan63, a promising premium quality Boro variety has been developed under Development of Premium Quality Rice project in the year of 2014.

Activity 4: I am working as a co-investigator for Development of Rainfed Lowland Rice. One promising genotype namely BR7611-31-5-3-2 for T. Aman season has been waiting for release by the National Seed Board of Bangladesh very soon.

Activity 5: I have active participation in different trials of exotic NERICA germplams provided by Ministry of Agriculture. NERICA mutant for the T. Aman season has been waiting for release by the National Seed Board of Bangladesh very soon.

Activity 6: I am actively involved in the development of BRRi dhan55 which is a moderately drought, cold and salinity tolerant Boro variety in 2011 and BRRi dhan58, a tissue culture induced standard Boro variety in the year of 2012.

Activity 7: One promising genotype namely HUA565 for T. Aman season from Green Super Rice project has been waiting for release by the National Seed Board of Bangladesh very soon.

Extension activities

Activity 1: I am associated with technology transfer of BRRi released varieties through validation trial under in Rajshahi and Rangpur region of Bangladesh under Integrated Agricultural Productivity Project (IAPP)-Drought.

Activity 2: I am associated with Participatory Variety Selection (PVS) of different drought tolerant genotypes in Rajshahi and Rangpur region of Bangladesh under Integrated Agricultural Productivity Project (IAPP)-Drought.

Other relevant experiences

a. Data analysis: I have the practical knowledge to operate and interpret MSTAT C, GENSTAT, SPSS, BASICA STAT Soft, PLABSTAT, CROPSTAT software. I can also operate molecular breeding softwares like AlphaEaseFC, GGT, QGgene, Power marker, Primer3, NTSyspc, Bioedit software for data analyzing.

b. Bioinformatics tool: I know how to use BLAST and Clustal W software.

16. Number of Publications

- a. Journal publication: National: 09 International: 03
- b. Other publication : Folder: 01 Poster: 05

17. Training Information

a. Local Training

Title	From	To	Duration	Sponsoring Agency	Remarks
Hybrid rice development and seed production.	02.11.2009	04.11.2009	3 days	BRRRI, Gazipur	Satisfactorily Completed
1-Month Rice Production Training Course	21.03.2010	19.04.2010	30 days	BRRRI, Gazipur	Distinction
Research Methodology	25.09.2010	07.10.2010	13 days	GTI, BAU	Successfully Completed
GSR-Hybrid Rice Seed Production Training Course	02.03.2011	03.03.2011	2 days	BRRRI, Gazipur	Successfully Completed
Theory and Practice of Molecular Breeding in Rice	26.01.2012	01.02.2012	7 days	BRRRI, Gazipur	Successfully Completed
Breeder Seed Production and Preservation of Rice	03.03.2012	05.03.2012	3 days	BRRRI, Gazipur	Successfully Completed
Rice Breeder Seed Production and Preservation	18.06.2012	20.06.2012	3 days	BRRRI, Gazipur	Successfully Completed
Theoretical and Applied Molecular Breeding	24.09.2012	29.09.2012	6 days	BRRRI, Gazipur	Successfully Completed and placed 3 rd position
Hybrid Rice Seed Production Technology	09.10.2012	11.10.2012	3 days	BRRRI, Gazipur	Satisfactorily Completed
On-farm Research Methodology	13.10.2012	18.10.2012	6 days	BARI, Gazipur	Successfully Completed
Foundation Training Course for NARS Scientists (Batch-23)	23.01.2013	23.05.2013	4 months	BARC, Dhaka (BARD, Comilla)	Successfully Completed
Rural Development and Poverty Reduction	12.05.2013	16.05.2013	5 days	BRDTI, Khadimnagar, Sylhet	Successfully Completed
Training on Genetic Data Analysis software	23.06.2013	28.06.2013	6 days	BRRRI, Gazipur	Successfully Completed

b. Local Workshop:

Title	From	To	Duration	Training venue	Sponsoring Agency	Remarks
Participatory Varietal Selection	22.11.2009	23.11.2009	2 days	BRRRI	IRRI-BRRRI	Successfully Completed

c. International Training:

Title	From	To	Duration	Training venue	Sponsoring Agency	Remarks
Molecular Breeding Course	22.02.2010	05.03.2010	12 days	IRRI	IRRI	Satisfactorily Completed
Genetic Theory of Hybrid Rice Breeding	25.04.2011	08.05.2011	14 days	BRRRI	UNESCAP Hybrid Rice Technology Extension Program	Satisfactorily Completed

d. International Workshop:

Title	From	To	Duration	Training venue	Sponsoring Agency
Review and Planning Workshop Phase 2 Year 2	16.04.2012	17.04.2012	2 days	Spectra Convention Center LTD., Dhaka, Bangladesh	IRRI

18. Field of Specialization: Genetics and Plant Breeding

19. Research Achievements

Association of Technology developed	Remarks
1. Development of BRRRI dhan55	1. Standard Boro variety with moderately drought, cold and salinity tolerance
2. Development of BRRRI dhan56	2. Drought tolerant variety for high barind tracts area
3. Development of BRRRI dhan57	3. Moderately drought tolerant variety, Jirasail/minikit type grain
4. Development of BRRRI dhan58	4. Tissue culture derived standard Boro variety
5. Development of BRRRI dhan63 (Soru Balam)	5. Premium quality rice with extra long slender grain
6. Development of BRRRI dhan66	6. Drought tolerant variety for high barind tracts area

20. List of Publications

A. International Paper: 03 (Three)

As Co Author

1. Yasmin, M R Islam, S Rehana, **R R Mazumder**, M Anisuzzaman, H Khatun, R Rayhan and G B Gregorio, 2012. Molecular Characterization of Inbred and Hybrid Rice Genotypes of Bangladesh. *Sabrao Journal of Breeding and Genetics*, 44 (1) 163-175.
2. K Nahar, M Hasanuzzaman and **R R Majumder**. 2009. Effect of Low Temperature Stress in Transplanted Aman Rice Varieties Mediated by Different Transplanting Dates, *Academic Journal of Plant Sciences* 2 (3): 132-138.
3. Md. Maksudul Haque, **Ratna Rani Majumder**, Tapas Kumer Hore, Md. Romel Biswash. 2015. Yield contributing characters effect of submerged water levels of boro Rice (*Oryza sativa* L.). *Scientia Agriculturae*, 9 (1), 23-29.

B. National Paper: 09 (Nine)

As Principal Author: 03 (Three)

1. **R.R. Majumder**, R.K. Roy, M.A. Kader, T.L. Aditya and A. Ansari. 2013. Variability, correlation and path analysis in maintainer lines of aromatic rice for out crossing traits. *Bangladesh j. crop sci.* 25: 139-146.
2. **R R Majumder**, R K Roy, M Khatun, T K Hore, K Nahar, U K Majumder. 2014. Study on outcrossing traits of some aromatic restorer lines of hybrid rice. *Eco-friendly Agril. J.* 7(10): 110-114.
3. **Ratna Rani Majumder**, Ripon Kumar Roy, M. A. Khaleque Mian and nasrin Akter Ivy. 2014. Genetic divergence of aromatic Rice (*Oryza sativa* L.) [Paper accepted in *Bangladesh Journal of Botany*]

As Co Author: 06 (Six)

1. U K Majumder, A Dutta, M S Rahman, **R R Majumder** and D N R Paul (2008). Consumer Demand Behavior of Rural Households in Dinajpur Sadar Upazila: Applications of Different Types of Engel Models, *J. Sci. Technol.(Dinajpur)*. Vol. 6:112-112-120

2. Ansari A., A W Julfiqar., M G Rasul., R K Roy and **R R Majumder**, (2010). Assessment of variability of outcrossing and yield trials in cytoplasmic male sterile lines of hybrid rice (*Oryza sativa* L), *Eco-friendly Agril. J.3 (2):84-88*.
3. T L Aditya, S Ghosal, N Sharma, M R Islama, **R R Majumder**, H Khatun, R Bhuiyan, F M Moinuddin, B Karmakar and TH Ansari, (2010). General and Specific Adaptability through Genowpe-Environment Interactions of Some Somaclonal Lines In Rice Bangladesh. *J. Prog. Sci. & Tech.* 8(1):005-008
4. M Khatun, S Ghosal, M R Hasan, **R R Majumder** and H Begum, (2011). Correlation and Path Coefficient Analysis of Rice Genotypes (*Oryza sativa* L), *Eco-friendly Agril. J.4 (12):768-773*.
5. M Paul, **R R Majumder**, H Khatun, L Ali and R K Roy. (2013). Genetic Variability and character association in tomato (*Lycopersicon esculentum* Mill.). *Eco-friendly Agril. J. 7(10):100-104*
6. M.A. Kader, **A.K. Patwary, M.M. Hossain and R.R. Majumder**. 2013. Performance of sixty experimental hybrid genotypes of rice in irrigated ecosystem of Bangladesh. *Bangladesh j. crop sci.* 25: 147-159.

C. Seminar: 02 (Two)

As Principal Author: 01 (One)

1. **R R Majumder**, M A Kader, T K Hore and T L Aditya. 2014. Progress of drought tolerant rice variety development. Paper presented in mid term evaluation workshop of IAPP at BIRRI on 06 May 2014.

As Co Author: 01 (One)

1. Aditya TL, Karmakar B, T Islam, Pervin S, **Majumder RR**, Ahmed HU, Sharma NR, Nasim M, Ali MA, Islam S, Ansari TH, Kader MA, Amelia H, Haefele S and Kumar A. 2014. Progress on the development of drought tolerant rice varieties in rainfed lowland rice ecosystem in Bangladesh. Paper presented in BIRRI Thursday seminar on 13 March 2014.

D. Proceedings: 01 (One)

As Co Author

1. Tamal Lata Aditya, Saleha Khatun and **Ratna Rani Majumder**. 2011. Research and Development and Future Needs of Aromatic High Value Rice for Export market. In: Proceedings of the National Workshop on Research Achievement of Past Ten Years in Cereal Crops and Future Research Strategies for Sustainable Production and Food Security, Bangladesh Agricultural Research Council, Dhaka, 10-11 January 2011: 46-52.

E. Abstracts: 05 (Five)

As Principal Author: 02 (Two)

1. **Ratna Rani Majumder**, M. A. Khaleque Mian, Nasrin Akter Ivy and Ripon Kumar Roy. 2011. Out crossing characteristics of identified b (maintainer line) and r line (restorer line) of rice. In: Suevenir of 8th Biennial Conference of Plant Breeding and Genetics Society of Bangladesh to Address Stress Conditions in Bangladesh. P 53. Sher-e-Bangla Agricultural University, Dhaka, 10 December 2011.
2. **R R Majumder**, M A Kader, T K Hore and T L Aditya. 2014. Progress of drought tolerant rice variety development. In: 9th Biennial Conference of Plant Breeding and Genetics Society of Bangladesh. P 61. KIB and BARC, Dhaka, 25-26 October 2014.

As Co Author: 03 (Three)

1. Aditya TL, Karmakar B, T Islam, Pervin S, **Majumder R**, Haefele S, Henry A and Kumar A. 2014. Recent progress on the development of drought tolerant rice variety under rainfed lowland rice ecosystem in Bangladesh. In: Suevenir of 8th Biennial Conference of Plant Breeding and Genetics Society of Bangladesh to Address Stress Conditions in Bangladesh. P 50. Sher-e-Bangla Agricultural University, Dhaka, 10 December 2011.
2. Roy, R. K., U. K. Sarker, M. A. Khalaque Mian. **R. R. Majumder**. 2011. Diallel analysis in local and HYV rice (*Oryza sativa* L.). In: Suevenir of 8th Biennial Conference of Plant Breeding and Genetics Society of Bangladesh to Address Stress Conditions in Bangladesh. P 53. Sher-e-Bangla Agricultural University, Dhaka, 10 December 2011.
3. R.K. Roy, **R.R. Majumder**, S. Sultana, M.E. Hoque and M.S. Ali. 2014. Genetic variability, correlataion and path coefficient analysis for yield and yield components in transplanted Aman Rice (*Oryza sativa* L.). In: 9th Biennial Conference of Plant Breeding and Genetics Society of Bangladesh. P 76. KIB and BARC, Dhaka, 25-26 October 2014.

F: Leaflet 01 (One)

1. Dr. Tamal Lata Aditya and **Ratna Rani Majumder**. BRRI dhan58: A complementary variety to BRRI dhan29 for Boro season. Bangladesh Rice Research Institute. Gazipur-1701.

G: Poster 05 (Five)

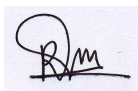
1. Dr. Helal Uddin Ahmed, Dr. M. Akhlasur Rahman, Dr. Md. Rafiqul Islam, Dr. Tamal Lata Aditya, Dr. Partha Sarathi Biswas, Nirmal Sharma, Hasina Khatun, Mohammad Anisuzzaman and **Ratna Rani Majumder**. BRRI dhan55: A new variety suitable for Boro and Aus season. Plant Breeding Division. Bangladesh Rice Research Institute. Gazipur-1701.
2. Dr. Tamal Lata Aditya, Dr. Towfiqul Islam, Mst. Salma Parvin, Biswajit Karmakar, **Ratna Rani Majumder** and Dr. Helal Uddin Ahmed. BRRI dhan56: First drought tolerant variety for T. Aman developed by BRRI. Bangladesh Rice Research Institute. Gazipur-1701.

3. Dr. Tamal Lata Aditya, Dr. Towfiqul Islam, Mst. Salma Parvin, Biswajit Karmakar, **Ratna Rani Majumder** and Dr. Helal Uddin Ahmed. BRRI dhan57: Medium drought tolerant variety having slender grain for T. Aman season developed by BRRI. Bangladesh Rice Research Institute. Gazipur-1701.
4. Dr. Tamal Lata Aditya, Dr. Md. Abdul Kader, **Ratna Rani Majumder**, Tapas Kumer Hore and Dr. Helal Uddin Ahmed. BRRI dhan58: A complementary variety to BRRI dhan29 for Boro season. Bangladesh Rice Research Institute. Gazipur-1701.
5. Dr. Tamal Lata Aditya, Dr. Md. Abdul Kader, **Ratna Rani Majumder**, Tapas Kumer Hore and Dr. Helal Uddin Ahmed. BRRI dhan63: Export quality variety having slender grain for Boro season (Soru Balam). Bangladesh Rice Research Institute. Gazipur-1701.

21. Membership of Professional Societies

- a) Genetics and Plant Breeding Society of Bangladesh
- b) Bangladesh Botanical Society
- c) Bangladesh Rice Research Institute Scientists Association
- d) Krishibid Institution of Bangladesh
- e) Bangabandhu Krishibid Parishad

22. **Academic/research award if any:** NSICT fellowship for the period of 2008-2009 provided by Ministry of Science, Information and Communication Technology, Bangladesh.



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