

Curriculum Vitae

Anowara Akter

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Hybrid Rice Division
Bangladesh Rice Research Institute
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1.0. PERSONAL PROFILE

- 1.1. Name : Anowara Akter
- 1.2. Father's name : Md. Nurul Islam
- 1.3. Mother's name : Gulshan Akter
- 1.4. Permanent address : House no: 169/3, Block: E, Post: Gazipur-1700, Upazila:
Gazipur Sadar, Dist.: Gazipur.
- 1.5. Date of birth : 10 May 1977
- 1.6. Place of birth : Feni, Bangladesh
- 1.7. Marital status : Married
- 1.8. Sex : Female
- 1.9. Nationality : Bangladeshi by birth
- 1.10. Basic degree : B. Sc. Agriculture (4 yrs degree)
- 1.11. Field of specialization : Crop variety development
- 1.12. Date of joining : 23 February 2006 in BRRI
- 1.13. Experience : Fifteen **years and four months** of practical experiences on
hybrid rice breeding for variety development.
- 1.14. National ID no. : 7759418044
- 1.15. Blood Group : O+ (positive)
- 1.16. Physique : Hight 5' 00"; Weight 56Kg
- 1.17. Mailing address : Senior Scientific Officer
Hybrid Rice Division
Bangladesh Rice Research Institute
Gazipur 1701, Bangladesh

2.0. ACADEMIC QUALIFICATION

Name of the examination	Board/University	Passing year	Subjects Offered	Division /CGPA
MS in CB	Bangladesh Agricultural University, Mymensing	2004	Crop Botany	3.65 (Out of 4)
B.Sc. in Agriculture (Hons.)	Sher-E- Bangla Agricultural University, Dhaka	1999 (held at 2001)	Agricultural Botany, Agricultural Chemistry, Agricultural Economics and Sociology, Agricultural Engineering, Agricultural Extension and Rural Development, Agronomy, Animal Science, Agro-forestry, Biochemistry, Biotechnology, Entomology, Environmental Science, Genetics and Plant Breeding , Horticulture, Plant Pathology, Soil Science, Statistics, Language and Communication.	Second Class
Higher Secondary School Certificate (H.S.C)	Dhaka Board	1994	Bengali, English, Mathematics, Physics, Chemistry, Biology.	First Division
Secondary School Certificate (S.S.C)	Dhaka Board	1992	Bengali, English, Mathematics, Physics, Chemistry, Biology, Social Science, Higher Mathematics, Islamic Study.	First Division

MS=Master of Science B Sc Ag = Bachelor of Science in Agriculture; HSC= Higher secondary School Certificate; SSC= Secondary School Certificate BISE = Board of Intermediate and Secondary Education.

3.0. TRAINING RECEIVED

3(a) In Country

Organization	Year	Duration		Name of Programme
		Months/weeks	Days	
BRRI, Gazipur	2006	-	05	Hybrid Rice Development and Seed Production
BRRI, Gazipur	2010	-	03	GSR-Hybrid Rice Seed Production Training Course
BRRI, Gazipur	2011		13	Genetic Theory of Hybrid Rice

				Breeding
BIRRI, Gazipur	2011	-	18	Integrated Techniques of Hybrid Rice Seed Production
BIRRI, Gazipur	2011	-	12	Technology of Hybrid Rice Cultivation
BIRRI, Gazipur	2013	-	06	Integrated Rice Production Training Course
BIRRI, Gazipur	2013	-	05	Implication of Molecular Tools in Crop Improvement under Stress Environment
BIRRI, Gazipur	2013	-	10	Gene cloning and rice transformation
BIRRI, Gazipur	2014	2	-	Two-month Rice Production Training Course
GTI, Mymensing	2014		13	Research Methodology
BIRRI, Gazipur	2015	-	05	Experimental Design and Data Analysis
BIRRI, Gazipur	2017	-	05	Programming R for Experimental Design and Data Analysis
BIRRI, Gazipur	2017	-	05	Hybrid Rice Development and Seed Production Training
BIRRI, Gazipur	2019		06	Basic Molecular Biology and Disease Resistance

13(b) Abroad

Country	Year	Duration		Name of Programme
		Months/ weeks	Day	
China	2013	4	-	Training Course on Hybrid Rice Technology for Bangladesh

4.0 WORKSHOP

- Twenty first BIRRI-DAE Joint workshops Theme “Bridging the Rice Yield Gap for food Security” held at Bangladesh Rice Research Institute, Joydebpur, Gazipur, from 19-21 September, 2006.
- Workshop on “Sterility in Boro Rice” held at Bangladesh Rice Research Institute, Joydebpur, Gazipur on 19 April, 2007.
- Workshop on “Strategies for Hybrid Rice Research and Seed Production for food self sufficiency in Bangladesh” held at Bangladesh Rice Research Institute, Joydebpur, Gazipur on 22 June, 2010.
- Workshop on “Mid Term Evaluation of IAPP BIRRI Component ” held at Bangladesh Rice Research Institute, Joydebpur, Gazipur on 6 May, 2014.

- Workshop on “Regional Workshop of IAPP BRRRI Barisal” held at BRRRI Regional Station, Shagardi, Barisal on 8 May, 2014.
- Workshop on “Regional Workshop of IAPP BRRRI Rangpur” held at BRRRI Regional Station, Dharmadash, Rangpur on 14 May, 2014.
- Workshop on “Regional Workshop of IAPP BRRRI Barisal” held at BRRRI Regional Station, Shagardi, Barisal on 28 March, 2015.

5.0 EXTRA CURRICULUM ACTIVITIES AND MEMBERSHIP

- Member of Krishibid Institution,
- Life member of Plant Breeding and Genetics Society of Bangladesh.
- Life member of Bangladesh Society of Seed Technology.
- Life member of Bangladesh Society for Bioinformatics.
- Member of Agronomy Society.
- Member of BRRISA
- Member of Bangladesh Botanical Society.

6.0. EMPLOYMENT RECORD

- Service Period: From February 2006 to till.
- Employer: Bangladesh Rice Research Institut
- Position: Senior Scientific Officer (SSO)
- Research Experience
 - Planning, execution and supervision of breeding program for
 - (i) Development of parental lines (A, B and R lines) resistance to disease (Bacterial Blight and Blast) for high-yielding hybrid rice variety
 - (ii) Evaluation of newly developed hybrid rice varieties
 - Genetic analysis and interpretation
 - Report writing and presentation

▪ Research Interest

Introgression of Bacterial Blight Resistant genes into hybrid rice parental lines using the MAS

7.0. ACHIEVEMENTS

- Development of parental lines for high yielding hybrid rice variety
- Parental line development of bacterial blight resistant materials.

8.0. OTHER RELEVANT ACTIVITIES/INFORMATION

- Computer skills on MS word, MS Excel, PowerPoint, (statistical software eg. MSTATC, Genstat) etc.
- Ability on fluently English speaking, listening, reading and writing.

9.0. LIST OF PUBLICATIONS

(a) Scientific Journals

As Principal author (11)

1. **Anowara Akter**, Jamil Hassan M, Umma Kulsum M, Islam MR, Kamal Hossain and Mamunur Rahman M.2014. AMMI Biplot Analysis for Stability of Grain Yield in Hybrid Rice (*Oryza sativa* L.). J Rice Res 2:126. doi: 10.4172/jrr.1000126
2. **A Akter**, M J Hasan, A. K.Paul, M. M. Motalib and M. K. Hossain.2009.Selection of parent for improvement of restorer line in rice (*Oryza sativa* L.). SAARC J. Agri., 7 (2):43-50.
3. **A Akter**, M K Hossain, , P L Biswas and H Begum. 2009. Genetic Parameter, Correlation and Path Analysis for yield and yield components of some rice hybrids. Eco-friendly Agril. J. 2 (10): 830-834.
4. **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 J. Pl. Breed. Genet. 22(2):13-18.
5. **A Akter**, M. J. Hasan, H.Begum, M.U. Kulsum and M K Hossain,2010. Combining ability analysis in rice (*Oryza sativa* L.). Bangladesh J. Pl. Breed. Genet. 23(2):07-13.
6. **A Akter**, M R Karim, M U Kulsum M Z Islam and A H M Razzaque.2007. Effect of GA₃ and different harvesting date on siliqua shattering of mustard variety BINASARISHA-3. Int. J. Sustain. Agril. Tech. 3(2):19-23.
7. **A Akter**, E Ali, M Islam, R Karim and A H M Razzaque. 2007. Effect of GA₃ on growth and yield of Mustard. *Int.J. Sustain. Crop Prod.* 2(2): 16-20.
8. **Anowara Akter**, M Jamil Hasan, Umma Kulsum, M H Rahman, M Khatun and M R Islam. 2015. GGE Biplot Analysis for Yield Stability in Multienvironment Trials of Promising Hybrid Rice (*Oryza sativa* L.). Bangladesh Rice J. 19(1): 1-8. DOI: <https://doi.org/10.3329/brj.v19i1.25213>
9. **Anowara Akter**, M Jamil Hasan, Umma Kulsum, M H Rahman, A K Paul, L F Lipi and Salma Akter. 2015. Genotype x Environmental Interaction and Yield Stability Analysis in Hybrid Rice (*Oryza sativa* L.) By AMMI Biplot. Bangladesh Rice J. 19(2): 83-90. DOI: <https://doi.org/10.3329/brj.v19i2.28168>
10. **Anowara Akter**, M Jamil Hasan, Mosammat Umma Kulsum, Laila Ferdousi Lipi, Hasina Begum,Niaz Md Farhat Rahman. 2019. Stability and adaptability of promising hybrid rice genotypes in different locations of Bangladesh. Adv Plants Agric Res. 9(1):35–39. DOI: [10.15406/apar.2019.09.00407](https://doi.org/10.15406/apar.2019.09.00407).

11. **A Akter**, M J Hasan, M A Latif, M U Kulsum, P L Biswas, M H Rahman, R R Majumder, L F Lipi, M R Quddus, F Akter, A Ara. 2019. Genetic Variability, Heritability, Correlation and Path Coefficient Studies for Yield and Yield Components of Some Promising Rice Hybrids. *Bangladesh Rice J.* 23 (2): 27-34, DOI: <https://doi.org/10.3329/brj.v23i2.48245>

As co-author (21)

12. 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 J. Pl. Breed. Genet.* 22(1):01-06.
13. K Hossain, **A Akter**, H Begum M Khatun and ASM Masuduzzaman.2009. Genetic diversity and its association with heterosis in rice (*Oryza sativa* L.). *Bangladesh J. Pl. Breed. Genet.* 22(2):39-46.
14. Kamal Hossain, **A Akter**, M A Rahman M H Ali and M A Hossain.2009. Prediction of Heterosis for Yield and its component traits among Hybrid of line x tester crosses in Rice (*Oryza sativa* L.). *Eco-friendly Agril. J.* 2 (2):494-498.
15. Kamal Hossain, **A Akter**, A K Paul, M J Hasan and P L Biswas.2009. Line x Tester Analysis and Gene Action for Agromorphological traits in Rice (*Oryza sativa* L.) *Eco-friendly Agril. J.* 2 (4):531- 536.
16. Kamal Hossain, **A Akter**, A K Paul, M S Hossain, and A W Julfikar.2009. Combining ability for economic traits in hybrid rice (*Oryza sativa* L.). *Bangladesh J. Pl. Breed. Genet.* 22(2): 07-12.
17. M U Kulsum, M J Hasan, K M Hossain, M H Rahman and **A Akter**. 2010. Floral characteristics of some CMS lines and their Corresponding Maintainer. *Eco-friendly Agril. J.* 3 (3): 145-149.
18. M U Kulsum, M A Baque, **Anowara Akter**, M H Kabir Shiragi and M A Karim.2007. Effect of different Nitrogen Levels on Dry Matter Production, Canopy Structure and Light Transmission of Blackgram. *Asian Journal of Plant Sciences*, 6(7):1044-1050.
19. M Umma Kulsum, M Jamil Hasan **Anowara Akter**, Hafizar Rahman and Priyalal Biswas. 2013. Genotype-Environment interaction and stability analysis in hybrid rice: an application of additive main effects and multiplicative interaction. *Bangladesh J.Bot.* 42(1): 73-81, 2013(June).
20. M J Hasan, Umma Kulsum, M H Rahman , **A Akter** and S H Bulbul. 2010. Diversity Studies of 32 Maintainer lines of hybrid rice (*Oryza sativa* L.). *Eco-friendly Agril. J.* 3 (3): 150-153.
21. M J Hasan, Umma Kulsum, M H Rahman, **A Akter** and M. K. Hossain. 2009. Characterization of floral traits of BRRI developed component lines of hybrid rice. *Bangladesh J. Pl. Breed. Genet.* 22(2): 47-50.
22. M J Hasan, Umma Kulsum, M.H. Rahman , **A. Akter** and A. K. M. Shamsuddin. 2009. Multivariate Analysis in pollen parent (Restorer line) of hybrid rice (*Oryza sativa* L.). *Bangladesh J. Pl. Breed. Genet.* 22(2): 63-66.
23. M.J.Hasan,M.U. Kulsum, **A. Akter**, A.S.M. Masuduzzaman and M.S. Ramesha.2011.Genetic variability and character association for agronomic traits in hybrid rice (*Oryza Sativa* L.). *Bangladesh J. Pl. Breed. Genet.* 24(1):45-51.

24. M.J.Hasan, Umma Kulsum, MH Rahman, **A. Akter**, AKM Shamsuddin.2014.Comparative study of floral characteristics in the component lines of hybrid rice (*Oryza Sativa* L.). Bangladesh J. Bot. **43**(1): 1-8, 2014 (June).
25. M.J.Hasan,U. Kulsum, L.F.Lipi, **A. Akter**, and M.R.Islam. 2012.Genetic variability in Parental lines of exotic rice hybrids. Bangladesh J. Agri, 37(2):109-116.
26. M.J.Hasan,U. Kulsum, L.F.Lipi, **A. Akter**, and A.K.M.Shamsuddin. 2013. Evaluation of maintainer and restorer lines for yield and yield contributing traits of rice (*Oryza sativa* L.). Bangladesh J. Agril. Res, 38 (4): 553-562.
27. M.J.Hasan, M H Rahman, **A. Akter**, M U. Kulsum and A.Islam. 2015. Asseament of Appropriate GA3 Rate and Row Ratio for Better Seed Yield of a Promising Hybrid Rice Variety. Bangladesh Rice J. 19 (1) : 57-61.
28. M.J.Hasan, M H Rahman, **A. Akter** and M U. Kulsum. 2015. Optimization of GA₃ and row ratio for seed yield of a promising hybrid rice variety. Bangladesh J. Bot. **44**(4): 671-674, 2015 (December).
29. M.J.Hasan,U. Kulsum, A K Paul, P L Biswas, M H Rahman, A Ansari, **A Akter** L.F.Lipi, S J Mohiuddin and M Zahid-Al-Rafiq. 2018. Assessment of variability for Floral Characteristics and Out-Crossing Rate in CMS Lines Hybrid Rice. Bangladesh Rice J. 22(2):31-39.
30. H Begum, M Khatun, M A Siddique, **A Akter**, M K Hossain. 2009. Influence of Different concentration of Surfactants Plant Regeneration From Cotyledons of *Corchorus capsularis* and *Corchorus olitorius*. *Eco-friendly Agril. J. 2 (4):499-503*.
31. H Begum, MS Ahmed, M Khatun, **A Akter**, M K Hossain. 2009. In Vitro Regeneration Performance of Corchorus Species. *Eco-friendly Agril. J. 2 (2): 490-493*.
32. H Begum, M. Khalequzzaman, **A. Akter**, M. P. Ali and M. A.Motalib. 2009. Influence of Different concentration of vitamins on plant regeneration from two cultivated species of jute. SAARC J. Agri., 7 (1), 72-84.
33. H Begum, M A Motalib, **A Akter**, M U Kulsum, M J Hassan. 2013. Screening and evaluation for resistance to bacterial blight for rice (*Xanthomonas oryzae pv. Oryzae*). *Eco-friendly Agril. J. 6 (01): 10-12*.
34. H Begum, M A Motalib, **A Akter**, M U Kulsum, R K Roy. 2013. Wild Species identification using morphological markers. *Eco-friendly Agril. J. 6 (01): 13-16*.
35. Paul A K, M K Hossain, **A Akter**, M J Hasan, and P L Biswas.2009. Combining ability Effect and Gene Action for Yield and its component traits in Rice (*Oryza sativa* L.) *Intl.J.BioRes 6(4):9-13*
36. Priya Lal Biswas, Afsana Ansari Mossammut Umme Kulsum, **Anowara Akter** and Sharmistha Ghosal.2010.Studies on genetic paramenter, character association and path analysis in restorer lines of hybrid rice (*Oryza sativa* L.). *Bangladesh J. Prog. Sci. & Tech.* 8(1):.119-122.
37. PL Biswas, A K Paul, M K Hossain, **A Akter**, H Begum and S Ghosal. 2009. Variability and Character Association Studies in Hybrid Rice. *Intl.J.BioRes.7(1):48-52*.
38. M Z Islam, M A Baset Mia, **A Akter**, M.H. Rahman. 2007. Biochemical Attributes of Mutant Rice under different Saline Levels. *Int.J. Sustain. Crop Prod.* 2(3): 17-21.
39. M Z Islam, M A Baset Mia, M R Islam and **A Akter**. 2007. Effect of different Saline levels on Growth and yield Attributes of Mutant Rice. *J. Soil Nature.* 1(2): 18-22.

40. M R Islam, M Anisuzzaman, H Khatun, N Sharma, M Z Islam, **A Akter** and Partha S Biswas. 2014. AMMI Analysis of Yield performance and Stability of rice genotypes across different Haor Areas. *J. Soil Nature*. 1(2): 18-22. *Eco-friendly Agril. J.* 7 (02):20-24.
41. 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 J. Agric. & Environ. Sci.*, 14 (5): 387-391. DOI: 10.5829/idosi.aejaes.2014.14.05.12336.
42. M.J.Hasan, M U. Kulsum, A K Paul, P L Biswas, M H Rahman,A Ansari, **A Akter**, L F Lipi, S J Mohiuddin and M Zahid-Al-Rafiq.2018. Assesment of Variability for Floral Characteristics and Out-Crossing Rate in CMS Lines of Hybrid Rice. *Bangladesh Rice J.* 22 (2) : 31-39.
43. L F Lipi, M.J.Hasan, **A Akter**, P L Biswas, M U. Kulsum, A Ansari and M Z Islam.2018. Variability Assessment of Different Maintainer Lines for Hybrid Rice Development Based on Qualitative Traits. *Bangladesh Rice J.* 22 (2) : 79-87.
44. L F Lipi1, M J Hassan, **A Akter**, A K Paul1 and S Aktar. 2019. Character Association and Path Analysis in Hybrid Rice. *Eco-friendly Agril. J.* 12(11):85-90.
45. L F Lipi, M J Hasan, M U Kulsum, **A Akter**, H.Rahman and S Aktar. Test Hybrids (*Oryza sativa* L.) Evaluation for Yield and Yield Associated Traits Using Augmented Design. *Bangladesh J.Agril.*41-43:41-48, 2016-18.
46. L F Lipi, M J Hasan, **A. Akter**, M.R. Quddus, P. L. Biswas, A. Ansari and S. Akter. 2020. Genetic variation, heritability and genetic advance in some promising rice hybrids. *SAARC J. Agric.*, 18(2): 39-49. DOI: <https://doi.org/10.3329/sja.v18i2.51107>.
47. F Akter, M Z Islam, **A. Akter**, S K Debsharma, A Shama and M Khatun. 20019. Genetic Diversity of Bacterial Blight Resistant Rice (*Oryza sativa* L.) Genotypes from INGER. *Bangladesh Rice J.* 23(2): 59-64. DOI: <https://doi.org/10.3329/brj.v23i2.48248>.

(b) Abstract

As *Principal author* (2)

1. **A.Akter**, M.J.Hassan, M.H. Rahman, H. Begum, M.Umma Kulsum.2014.Stability analysis for grain yield of promising hybrid Rice (*Oryza sativa* L.) across different locations by AMMI model. 9th Biennial Conference, 25-26 October,2014, Plant Breeding and Genetic Society of Bangladesh. P50.
2. **Aowara Akter**, M Jamil Hassan, M U Kulsum, M H Rahman, A. K. Paul. 2015. Correlation and Path analysis of some promising Hybrid Rice. **Advances in Rice Research**. P80

As *co-author* (1)

3. Md. Kamal Hossain, **Anowara Akter**, Md. Atiqur Rahman Bhuiyan, Kasemson Suriyawan, Tepsuda Rungrat, Anothai Choomsai , Chua Kim Aik and Wickneswari Ratnam.2012. Hybrid performance in cytoplasmic male sterility based three-line and

thermosensitive genic male sterility based two-line hybrid breeding systems in rice (*Oryza sativa* L.). 6th international Hybrid Rice Symposium, 10-12 September, 2012, Hyderabad, India. P63.

(c) Book

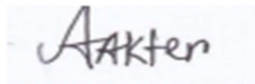
As co-author (1)

1. Dr.ASM Masuduzzaman, **Anowara Akter**, Md. Kamal Hossain, Prioya Lal Biswas, Md. Jamil Hasan, Afsana Ansari, Mosammot Umma Kulsum, Md. Hafizar Rahman and Ashish Kumer Paul. 2010. Hybrid Dhaner Chasabad O Biz Utpadon Kolakoushal. Hybrid Rice Prokolpa, Bangladesh Dhan Gobeshona Institute, Gazipur-1701.

(d) Leaflet

As co-author (1)

1. Dr.ASM Masuduzzaman, Md. Jamil Hassan, Prioya Lal Biswas, Md. Kamal Hossain, **Anowara Akter**, Afsana Ansari, and Ashish Kumer Paul. 2011. BRRU Utvabita Hybrid Dhaner Jathshamuher Chash Paddati. Bangladesh Dhan Gobeshona Institute, Gazipur-1701.



(Anowara Akter)

Senior Scientific Officer (Hybrid Rice)

BRRU RS-Rangpur

