

## Curriculum Vitae

**Anowara Akter**  
Scientific Officer  
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 : Village: Uttardhanikunda; Post: Noapur; Upazila:  
Parshuram, Dist.: Feni.
- 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 : **Ten years** of practical experiences on hybrid rice  
breeding for variety development.
- 1.14. National ID no. : 3323007169112
- 1.15. Blood Group : O+ (positive)
- 1.16. Physique : Hight 5' 00"; Weight 52Kg
- 1.17. Mailing address : 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

- National Training Course on “Hybrid Rice Development and Seed Production” held on March 19-23, 2006 at Bangladesh Rice Research Institute, Gazipur, Bangladesh.
- International Training Course on “GSR-Hybrid rice seed production” held on February 23 to February 25, 2010 under Green Super Rice (GSR) Project at Bangladesh Rice Research Institute, Gazipur, Bangladesh.
- International Training Course on “Genetic Theory of Hybrid Rice Breeding held on April 25 to May 08, 2011 under UNESCAP Hybrid Rice Technology Extension Program at Bangladesh Rice Research Institute, Gazipur, Bangladesh.

- International Training Course on “Integrated Techniques of Hybrid Rice Seed Production” held on May 02 to May 20, 2011 under UNESCAP Hybrid Rice Technology Extension Program at Bangladesh Rice Research Institute, Gazipur, Bangladesh.
- International Training Course on “Technology of Hybrid Rice cultivation” held on May 11 to May 22, 2011 under UNESCAP Hybrid Rice Technology Extension Program at Bangladesh Rice Research Institute, Gazipur, Bangladesh.
- National Training Course on “Integrated Rice Production Training Course” held on January 19-24, 2013 at Bangladesh Rice Research Institute, Gazipur, Bangladesh.
- National Training Course on “Implication of Molecular Tools in Crop Improvement under Stress Environment” held on January 27-31, 2013 at Bangladesh Rice Research Institute, Gazipur, Bangladesh.
- National Training Course on “Gene cloning and rice transformation” held on April 15-24, 2013 at Bangladesh Rice Research Institute, Gazipur, Bangladesh
- International Training Course on “Hybrid Rice Technology for Bangladesh” held on June 5<sup>th</sup> to September 24<sup>th</sup> , 2013 under Yuan Longping High- tech Agriculture Co., Ltd. Ministry Of Commerce, People’s Republic of China.
- National Training Course on “Two-month Rice Production Training Course” held on 16 February to 16 April, 2014 at Bangladesh Rice Research Institute, Gazipur, Bangladesh.

#### **4.0 WORKSHOP**

- Twenty first BRRI-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 BRRI Component” held at Bangladesh Rice Research Institute, Joydebpur, Gazipur on 6 May, 2014.
- Workshop on “Regional Workshop of IAPP BRRI Barisal” held at BRRI Regional Station, Shagardi, Barisal on 8 May, 2014.
- Workshop on “Regional Workshop of IAPP BRRI Rangpur” held at BRRI 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.
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## **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
- Service Period: From February 2006 to till.
- Position: Scientific Officer (SO)
- 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 MSword, MSEXcel, 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 (7)***

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 GA<sub>3</sub> 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 GA<sub>3</sub> on growth and yield of Mustard. *Int.J. Sustain. Crop Prod.* 2(2): 16-20.

### ***As co-author (24)***

8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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).
16. 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.

17. 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.
18. 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.
19. 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.
20. 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.* 2012, 37(2):109-116.
21. 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).
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.

**(b) Abstract**

**As Principal author (1)**

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. 9<sup>th</sup> Biennial Conference, 25-26 October,2014, Plant Breeding and Genetic Society of Bangladesh.P50.

*As co-author (1)*

2. 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.). 6<sup>th</sup> 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. Habrid Dhaner Chasabad O Biz Utpadon Kolakoushal. Hybrid Rice Prokolpa, Bangladesh Dhan Gobeshona Institute, Gazipur-1701.

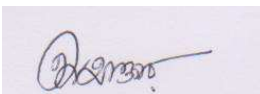
**(d) Leaflet**

*As co-author (1)*

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

**10.0. Persons to Whom a Reference may be made**

- i. Dr. Md. Jamil Hassan, Principal Scientific Officer, Hybrid Rice Division, Bangladesh Rice Research Institute, Gazipur 1701, Bangladesh; Phone: +88-02- 9257401- 5 Ext. 328 (Office) Mobile: 01916577660, Fax: 880-2-9252734. E-mail: [jamilbri@yahoo.com](mailto:jamilbri@yahoo.com)
- ii. Dr. Jiban Krishna Biswas, Director General, Bangladesh Rice Research Institute, Gazipur 1701, Bangladesh; Phone: +88-02- 9252736 (Office) Mobile: 01711960349, Fax: 880-2-9252734. E-mail: [biswas.jiban@gmail.com](mailto:biswas.jiban@gmail.com)



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