

Curriculum Vitae of Mahfuj Ara Begum

Present Address

Mahfuj Ara Begum
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Experience in Brief

I have 15 years of professional experience with research activities and an Entomologist. I have 2 years experience in Plant Pathological research of rice crop. Now I have been working in internationally reputed research organization named Bangladesh Rice Research Institute (BRRI) in the position of Senior Scientific Officer.

Basic Academic Qualification

Masters of Science in Entomology (M.S.) from Bangladesh Agricultural University, Mymensingh in 1999. **Class Obtained:** First class. **Duration of the course:** 2 years (Four semesters)

Courses studied in MS:

Insect Taxonomy I, Insect Taxonomy II, Insect physiology, Insect Pest Management, Insect Ecology, Pesticide Management, Insect Nutrition and Biochemistry, Insecticide Toxicology, Entomological Technique, Stored product Entomology

Bachelor of Science in Agriculture (B. Sc. Ag) from Bangladesh Agricultural University, Mymensingh in 1993 (exem. Held in 1997). **Class Obtained:** First class. **Duration of the course:** 4 years

Courses studied in B. Sc. Ag:

Agronomy, Crop Botany, Entomology, Plant Pathology, Soil Science, Horticulture, Genetics & Plant Breeding, Agricultural Extension, Agricultural Chemistry, Statistics, Mathematics, Rural Sociology, Biochemistry, Animal Husbandry, Physical and Analytical Chemistry, Organic Chemistry.

Higher Secondary Certificate (HSC) Examination from Muminunnisa Govt. Women College, Mymensingh, Bangladesh in 1989. Obtained **First Division** in Science group with major subjects; Bengali, English, Physics, Chemistry, Botany, Zoology and Mathematics.

Secondary School Certification (SSC) Examination from Muslim Girls' High School, Mymensingh, Bangladesh in 1987. Obtained **First Division** in Science group with major subjects; Bengali, English, Mathematics, Elective Mathematics, General Science, Geography,

Received Training

Sponsored Institute/Organization	Topic of Training	Venue	Duration
Bangladesh Agricultural Research Council (BARC) Farmgate, Dhaka	Foundation Training Course for NARS* Scientists	Bangladesh Academy for Rural Development (BARD) Kotbari, Comilla	3.5 Months
Bangladesh Rice Research Institute (BRRI), Gazipur	Rice Production, Communication and Office Management	Training Division, BRRI, Gazipur	2.0 Months
Bangladesh Rice Research Institute (BRRI), Gazipur	Root health and soil borne pathogen identification	BRRI, Gazipur	05 Days
Bangladesh Agricultural Research Council (BARC) Farmgate, Dhaka	AEZ/GIS Database Management and its application in Agriculture	Bangladesh Agricultural Research Council (BARC) Farmgate, Dhaka	02 Weeks
DFID	Training on IPM	IRRI, Philippines	03 Weeks
DFID	Training on PRA	NGO Forum, Comilla	01 Week
DFID	Training on SCR	BRRI Gazipur & BRRI Comilla	01 Week
Agri-varsity Rotaract club	Planning, Administration and Management	Graduate Training Institute, BAU	06 Days
Bangladesh Agricultural Research Council (BARC)	Statistical Analysis by using computer packages	Graduate Training Institute, BAU	02 Weeks

* NARS= National Agricultural Research Systems

Resource person in training programme

- (i) Acted as a resource speaker of a training programme on Site specific nutrient management in rice based cropping system.
- (ii) Acted as a resource person in IPM training programme under LITE project funded by DFID
- (iii) Acted as a resource person in rice production training programme for Scientific Officer
- (iv) Acted as a resource person in rice production training programme for Sub Assistant Agricultural Scientific Office

Computer Knowledge

Sufficient knowledge & skill in Microsoft Word, Microsoft Excel, Microsoft Access, Arc view, Power Point, Photoshop, MS state, SPSS and Internet.

Professional records

July 2006 to till date

Job title: Senior Scientific Officer, Entomology Division

Organization: Bangladesh Rice Research Institute, Gazipur 1701

Employer: Director General

Job responsibilities:

- Planning and execution of research project to develop appropriate technology
- Preparation of work plan and work schedules of assigned experiments
- Collect, analyze and interpret data
- Disseminate research results to extension workers and farmers
- Maintain cooperation with national and international agricultural agencies
- Provide counseling and advisory services to farmers on crop cultivation, fertilization, pest management, harvesting, soil management, and crop rotation.
- Research report writing
- Office management

February 2001 to July 2006

Job title: Scientific Officer, Entomology Division

Organization: Bangladesh Rice Research Institute, Gazipur 1701

Employer: Director General

Job responsibilities:

- Conduct experiments according to the approved program
- Plan and conduct research on priority problems
- Collect, analyze, interpret data and prepare research report
- Supervise proper field management, cultural practices, plant protection needed for experiments
- Disseminate research results to extension workers and farmers
- Maintain cooperation with national and international agricultural agencies
- Supervise staff and maintain their records.

February 1999 to February 2001

Job title: Scientific Officer, Plant Pathology Division

Organization: Bangladesh Rice Research Institute, Gazipur 1701

Employer: Director General

Job responsibilities:

- Conduct experiments according to the approved program
- Plan and conduct research on priority problems,
- Collect, analyze, interpret data and prepare research report

- Supervise proper field management, cultural practices , plant protection needed for experiments
- Disseminate research results to extension workers and farmers,
- Maintain cooperation with national and international agricultural agencies,
- Supervise staff and maintain their records.

Participation in international, national workshops and seminars

Title	Date	Venue
International		
1. Technical Project Workshop on soil health in Rice-wheat systems considering changing tillage practices.	January 17-18, 2000	Nepal
2. Traveling Seminar on rice-Wheat systems organized by Rice-Wheat consortium for the Indo-Gangetic Plains	September 11-24, 2004	India
National		
1. Workshop on Modern Rice Cultivation in Bangladesh.	January 29-31, 2002	BIRRI
2. Integration of Rice cum Duck farming for resource poor farm household.	February, 08, 2002	BIRRI
3. Bio-ecology and integrated pest management	October 10, 2003	ACI Building Dhaka
4. The Twentieth BIRRI-DAE joint Workshop on Experiences with Modern Rice Cultivation in Bangladesh.	April 19-21, 2004	BIRRI
5. Workshop on Ecology and Management of Rice hispa in Bangladesh.	April 24-25, 2004	BIRRI
6. Final workshop on Livelihood Improvement through Ecology Project.	June 29, 2004	Hotel Rigs Inn, Dhaka
7. A workshop on Integrating lesson learnt from farmers in fast-tracking Technology Adoption: Direct wet seeding of Rice a plastic Drum Seeder.	June 21-22, 2005	BIRRI
8. 21 st BIRRI-DAE joint workshop on Bridging the Rice Yield Gap for Food Security.	September 19-21, 2006	BIRRI
9. Day Long workshop on progress and prospect of IPM on Rice, vegetable, Fruits and Sugarcane.	October 09, 2006	BARC Auditorium, Dhaka.
10. Workshop on sterility in Boro Rice	April 19, 2007	BIRRI

Publications in Different Journals

List of Publications:

Full paper

01. **Mahfuj Ara Begum**, Nur Ahmed, Mainul Haq 2013. Abundance and species composition of rice green leafhopper (Hemiptera: Cicadellidae) in different ecosystems. International Journal of Biosciences 4(6): 74-79
02. M. P. Ali, Dingcheng Huang, G. Nachman, Nur Ahmed, **Mahfuj Ara Begum**, M. F. Rabbi 2014. Will climate change affect outbreak pattern of Plathoppers in Bangladesh? PLoS ONE 9(3): e91678. doi:10.1371/journal.pone.0091678
03. **M.A. Begum and** Mainul Haq 2009. Incidence pattern of different hemipteran bugs infesting rice grain. Bangladesh J. of Entomol. 19(1): 29-40

04. S. Akter, Tuhina Khatun, T.H Ansari, Q.S.A. Jahan, **M.A. Begum** and M.A.T . Mia. 2009. Evaluation of Fungicides in controlling Brown spot Disease of Rice. Bangladesh J. Plant Pathol. Vol.25 (1&2): 71-74.
05. **M.A Begum**, S. Akter, A. Nahar, S. Akter and Hatem Ali. 2010. Efficacy of different isolation methods of plant parasitic nematodes from soil of bitter gourd and teasel gourd fields.
06. M. P. Ali, M. Asadduzzaman, M. A Malek, **M. A . Begum** and A.A Mamun. 2010 Study of insect fauna in different growth stages of Soybean crop. Eco-friendly Agril. J. 3 (2):104-108
07. S.S. Parul, **M.A. Begum**, M. Hasan and N. Islam. 2009. Effect of different N Management Techniques on the growth and yield of BRRI Dhan28. J. Environ. Sci & Natural Resources 2(2): 209-211
08. S.S. Parul, M. Ahmed, **M.A. Begum** and M. Hasan. 2009. Determination of optimum N-dose of BRRI Dhan29 using leaf color chart. J. Environ. Sci & Natural Resources 2(2): 203-206
09. M. Hasan, Z. Islam, A. Akter, **M. A. Begum** and S.S. Parul. 2009. Effect of stem borer damage on the grain yield of T. Aman rice. Eco-friendly Agril.J. 2(11): 968-977
10. Z. Islam, D. Catling, M. Hasan, S.S. Haque, **M. A. Begum** and M. Haq. 2009. Influence of the green revolution on the insect pests of rice with particular reference to Bangladesh. Outlooks on Pest Management 20(1), 37-43.
11. **M.A. Begum**, M.F. Rabbi, N. Ahmed and S. Nasrin. 2005. Biology of rice bug, *Leptocorisa oratorius* (Fab) on rice and three selected weeds. Bangladesh J. of Entomol. 15(1): 65-75
12. **M.A. Begum**, N.R. Sharma and M. A. Samad Azad. 2003. Population dynamics of soil and root nematodes in rice wheat cropping system. The Agriculturists 1(1): 63-68
13. M.R. Khanam, M.J. Abedin Mian, M.N. Bari, **M.A. Begum** and M.J. Uddin. 2003. Ion sorption behaviour under different moisture regimes in Ghatail soil series of Bangladesh. SAARC Journal of agriculture, 1: 51-59
14. **M.A Begum**, M. Jahan, M. N. Bari, M. Hossain and N. Afsana 2002. Potentiality of *Micraspis discolor* (F.) as a biocontrol agent of *Nilaparvata lugens* (Stal). On Line Journal of Biological Sciences 2(9): 630-632
15. M. M. Hossain, M. Shahjahan, N.A. Salam and **M.A. Begum**. 2002. Screening of some brinjal varieties and lines against brinjal shoot and fruit borer, *Leucinodes orbonalis* Guenee. Pakistan Journal of Biological Sciences, 5(10): 1032-1040
16. M. M. Hossain, M. Shahjahan, A.K.M.A. Proshan, M.S. Islam and **M.A. Begum**. 2002. Study of anatomical characters of stem in relation to resistant against Brinjal shoot and fruit borer, *Leucinodes orbonalis* Guenee. Pakistan Journal of Biological Sciences, 5(6) 672-678
17. M. Hossain, M.A. Mazid, **M.A Begum**, M.A Kader and B. Sikdar. 2001. Effect of variety and seedling age on the yield of hybrid rice. Bangladesh Journal of genetics and biotechnology. 2(1&2): 9-14

Short note

01. M. S. Mian, **M.A. Begum** and M. A. Taher Mia. 2003. Effect of two new formulations of carbofuran against ufra disease of rice. Bangladesh Journal of plant pathol. 19 (1&2): 93-94
02. **M.A. Begum**, M. S. Mian and N. K. Datta. 2004. Effect of soil solarization and seed treatment with vitavax 200 on soil and root nematodes of rice. The Agriculturists 2(1): 153-158

Book

01. Z. Islam, M. Haq, **M. A. Begum** and N. Afsana. 2007. Rice Black bug in Bangladesh. Pp 475-482. In: R.C. Joshi, A.T. Barrion and L.S. Sebastian (eds.). Rice black bugs: Taxonomy, ecology and management of invasive species. Philippine Rice Research Institute. 793 pp

Proceedings:

01. Kamal, N.Q., N. Ahmed, M. M. Hossain, M. M. Hossain, **M.A. Begum**, M.N. Bari, N. Afsana and N.A. Kohinur. 2004. Emerging Technologies to Combat Rice Pest. Paper presented at 20th National Workshop on Rice Research and Extension in Bangladesh at BRRRI held on 19-21 April 2004 organized by BRRRI and DAE.
- 02 Nur Ahmed, Björn Holmquist, Sultana Nasrin, M Panna Ali, M Nazmul Bari, **Mahfuj Ara Begum**, Nadira Afsana and M Fazle Rabbi. 2013. Impact of climate change on rice insect pests and their natural enemies. Paper presented at International Conference on Climate Change Impact and Adaptation at DUET, organized by Department of Civil Engineering DUET - Gazipur, Bangladesh

Membership

- Member of the Bangladesh rice Research Institute Scientists' Association (BRRISA)
- Member of the Entomological Society of Bangladesh
- Member of the Plant Pathological Society of Bangladesh
- Member of the Krisibid Institution Bangladesh
- Member of the Professional Organization in Extension and Research (POWER)

Languages

Bengali: Native

Hindi: Moderate

English: Competent user (According to IELTS result)

Score of International English Language Testing System (IELTS): 6.0

Level	Test result for each ability
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Competent user	Listening	Reading	Writing	Speaking
	6.0	5.5	6.0	5.5

Referees

- (1) Dr. Zeng-Rong ZHU
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