

## CURRICULUM VITAE OF

### Rakiba Shultana

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#### CAREER OBJECTIVES

- ❑ To pursue higher education
- ❑ To build up career in Bangladesh Rice Research Institute, utilizing my excellent academic background, innovative skills and research experiences.
- ❑ To contribute effectively in the research field of crop physiology, better crop management and weed science to address the food security issue in my country.

#### PRESENT DUTIES AND RESPONSIBILITIES

- ❑ Planning and conducting project-wise experiments collaboration with my colleagues to develop appropriate technologies. Managing and collecting data at experimental station
- ❑ Collecting, analyzing, interpreting data and submitting report to the head of the division. I have to undertake tour to different place of the country with permission of the authority
- ❑ Supervising research and administrative activities of officers and staff under me to done the work efficiently in time. I have to undertake teaching assignment for the institute training course
- ❑ Determining the quality of the work done and take or suggest steps to improve the quality
- ❑ Creating facilities for efficient accomplishment of responsibilities entrusted to me and the juniors
- ❑ Supervising proper field preparation, layout, irrigation, drainage, plant protection and other field management practice needed for experiments
- ❑ Spending time in the library for reading books and scientific journals
- ❑ Presenting at least one paper in a year at BRRRI Thursday seminar

#### KEY STRENGTH

Possess excellent academic background, updated knowledge, planning and organizing ability, skills to work in group approach, excellent proficiency in English language, have the ability to learn new tasks quickly and to overcome challenges through determination.

#### RESEARCH INTEREST

- ❑ Partitioning of assimilates within the plant parts
- ❑ Relationship between source and sink
- ❑ Crop canopy architecture and photosynthetic machinery
- ❑ Contribution of different plant parts in grain filling and duration of grain filling
- ❑ Current photosynthesis, stored carbohydrates and rate of respiratory loss
- ❑ Effect of pesticides on soil environment and microorganism
- ❑ Fundamental problems relating to crop production particularly focusing on rice: a major food crop of Bangladesh
- ❑ Crop modeling
- ❑ Green house gas emission from wet land rice field
- ❑ Develop advance technology on post harvest loss minimization

## RESEARCH ACTIVITIES WHICH I AM CURRENTLY INVOLVED

- Fertilizer and weed management of direct wet seeded rice
- Weed seed bank dynamics in different cropping pattern
- Cost effective weed management, Chemical weed control, residual effect of herbicide
- Screening of allelopathic potential rice varieties
- Physiology study of drought tolerance rice varieties
- Analysis of various organs of rice, grain development and starch accumulation, and higher yielding through the improvement of seed ripening
- Growth analysis and the cultivation technique of rice
- Growth analysis of rice under different competition period with weeds
- Weed management and evaluation of new herbicides
- Analysis of rice re growth as ratooning.

## PERSONAL DETAILS

Name in full : Rakiba Shultana  
Permanent address : House no: 62/1, Vatikashore, Mymensingh  
Date of birth : 1 January 1983.  
Nationality : Bangladeshi (by birth)  
Sex : Female  
Marital status : Married  
Blood group : O<sup>+ve</sup>

## EDUCATIONAL QUALIFICATION

Name of the examination	Board/ University	Course Duration	Year of completion	Class/ GPA	% marks obtained
MS in Plant pathology	BAU*, Mymensingh	Three Semester	2007	First 3.953/4.00	98.83%
B.Sc.Ag. (Hons.)	BAU, Mymensingh	Four years	2004	First	63.29%
H.S.C	Rajshahi	2 years	2000	First	71.2%
S.S.C	Rajshahi	10 years	1998	First	85.2%

\*BAU = Bangladesh Agricultural University, Mymensingh

## MAJOR SUBJECTS STUDIED

B. Sc. Ag. (Hons.)	Agronomy, Entomology, Soil Science, Horticulture, Plant Pathology, Crop Botany Agro forestry, Statistics, Genetics & Plant Breeding, Agricultural Chemistry, Biochemistry, Agricultural Extension Education, Economics, Rural Sociology, Functional English Course, Computr.
MS in Plant Pathology	Clinical plant pathology, Phytopathological Research Methodology, Disease resistance, Seed pathology, Integrated Disease management, Molecular plant pathology, Plant pathogenesis and genetics of plant pathogens, Epidemiology and forecasting of plant Diseases, Methods in plant pathology, Plant disease management, Mycology, Plant Nematology

## TITLE OF MS THESIS

Effect of BAU- Biofungicide in controlling leaf spot of wheat.

## EXPERIENCES

Bangladesh Rice Research Institute (BRRI) is the leading rice research institute of Bangladesh. I have joined as a scientific officer at agronomy division of BRRI in 12 November 2007 and upgraded as Senior Scientific officer in 22 November 2012. About six years research experience on agronomic crop management.

## COMPUTER SKILLS AND COMPETENCES

Knowledge on Microsoft Word, Microsoft Excel, Microsoft Power point, Adobe Photoshop, MSTAT, CROPSTAT.

## PERSONAL INTEREST

Interested to publish scientific findings/technology on daily newspaper. Creating agricultural arts, showing agriculture fair and visiting art galleries. Travelling home country and abroad to gather experience on different cultures.

## LIST OF PUBLICATIONS

### Full paper as Principal Author (03)

- 1) **Shultana, R.**, I. Hossain, S. Ahmed and M. A. A. Mamun. 2009. Efficacy of BAU-Biofungicide in controlling leaf spot of wheat (*Triticum aestivum*). Eco-friendly Agril. J. 2(2): 392-395,
- 2) **Shultana, R.**, A. Haque, S. A. Rezvi, M. A. A. Mamun and S. Pramanik. 2010. Callus induction and regeneration from mature embryo of different wheat genotypes. Eco-friendly Agril. J. 3(12): 508-511.
- 3) **Shultana, R.**, M. A. A. Mamun, S. A. Rezvi and M. S. Zahan. 2011. Performance of some pre emergence herbicides against weeds in winter rice. Pak. J. Weed Sci. Res. 17(4): 365-372.
- 4) **Shultana, R.**, M. A. A. Mamun, A. J. Mridha. 2013. Impacts of different competition duration of *Echinichloa crus-galli* on transplanted aman rice. American Open. J. Agric. Res.1 (5): 14-23

### Full paper as Co-author (11)

- 1) Mandal, A. C., S.A. Rezvi, **R. Shultana**, M.M. Islam and A. Haque. 2009 Molecular characterization of maize cultivars by random amplified polymorphic DNA (RAPD) markers. Eco-friendly Agril. J. 2(11): 895-900.
- 2) Mamun, M. A. A., A.U. Sarker, M. Begum, M. J. U. Chowdhury, **R. Shultana**. 2009. Effect of prilled urea and Urea super granule on growth and yield of rice. Int. J. BioRes 6(2): 55-61
- 3) Mamun, M. A. A., **R. Shultana**, M. A. Siddique, M. S. Zahan and S. Pramanik. 2010. Impact of oxadiazon and pyrazosulfuron-ethyl on rice and associated weeds in dry season rice cultivation. Pak. J. Weed Sci. Res. 16(3): 309-319.
- 4) Karim, K. M., **R. Shultana**, A. Haque, S. A. Rezvi and L. Rahman. 2010. Molecular characterization and genetic diversity of Introgressed *Brassica* genotypes using RAPD markers. Eco-friendly Agril. J. 3(12): 497-507.
- 5) Mamun, M. A. A., F. Islam, **R. Shultana**, M. S. Zahan and S. Pramanik. 2010. Weed management in boro rice and its economics. Eco-friendly Agril. J. 3(9): 417-422.
- 6) Badshah, M. A., J.C. Biswas, M. A. A. Mamun, **R. Shultana** and M. S. Uddin. 2008. Monibandobi: A high yield potential land race of rice with low input. Int. J. Bio Res 5(5): 29-32.
- 7) Mannan, M. A., M. I. M. Akhand, S. A. Islam, A. J. Mridha and **R. Shultana**. 2010. Influence of nitrogen on the growth and yield of basmati rice genotypes in boro season. Int. J. Sustain. Agril. Tech. 6(3): 39-45.

- 8) Bhuiyan, M. K. A., A.J. Mridha, G. J. U. Ahmed, J. A. Begum and **R. Shultana**. 2011. Performance of Chemical weed control in Direct Wet seeded rice culture under two agro- ecological conditions of Bangladesh. Bangladesh J. Weed sci. 2(1 & 2): 1-8.
- 9) Mamun, M. A. A., **R. Shultana**, S. A. Islam, M. A. Badshah, M. K. A. Bhuiyan and A.J. Mridha 2011. Bio-efficacy of Bensulfuron methyl – pretilachlor 6.6% GR against weed suppression in transplanted rice. B. J. Weed Sci. 2(1&2): 9-13.
- 10) Mamun, M. A. A., **R. Shultana**, M. K. A. Bhuiyan and A.J. Mridha and A. Mazid. 2011. Economic Weed Management Options in Winter Rice. Pak. J. Weed Sci. Res 17(4): 323-331.
- 11) Mamun, M. A. A., **R. Shultana**, S. A. Islam, M. K. A. Bhuiyan and A.J. Mridha 2012. Efficacy of metsulfuron – methyl 20% WDG in controlling weeds in transplanted rice. Bangladesh Agron. J. 15(1): 17-23.
- 12) Mamun, M. A. A., **R. Shultana**, B. C. Roy, M. M. Rana, A. Parvez and A. J. Mridha. 2012. Effect of transplanting with separated tillers and planting time on the performance of boro rice. Bangladesh Agron. J. 15(2): 83-88.
- 13) Mamun, M. A. A., **R. Shultana**, M. M. Rana and A. J. Mridha. 2013. Economic Threshold Density of Multispecies Weed for Direct Seeded Rice. Asian. J. Agric. Rural. Dev. 3(8): 523-531.
- 14) Mamun, M. A. A., **R. Shultana**, and A. J. Mridha. 2013. Determination of yield loss and economic threshold density of *Scirpus maritimus* in winter rice. Aca. J. Agric. Res. 1(11): 211-219.

#### LANGUAGE PROFICIENCY

Language	Standard of proficiency		
	Reading	Writing	Speaking
English	Good	Good	Good
Bengali	Very Good	Very Good	Excellent

#### TRAINING RECEIVED

##### a) In country:

Organization	Year	Duration		Name of Programme
		Months/weeks	Days	
BRRI, Gazipur	2008		05	Hybrid Rice Development And Seed Production
BRRI, Gazipur	2008	One Month	-	Rice Production Training
Sech Bhaban, Manik Mia Avenue, Dhaka	2009	-	05	Adaptive Nutrition
BARC, Dhaka	2009		03	Use of Fertilizer Recommendation guide-2005
BRRI, Gazipur	2009	-	05	Breeder Seed Production and preservation of Rice
BRRI, Gazipur	2011		12	Technology of Hybrid Rice Cultivation
GTI, Mymensingh	2009	Two Weeks	-	Research Methodology
BARD, Comilla	2012	Four Months	-	Foundation Training Course
BARC, Dhaka	2013	-	02	Agricultural Land Management for improving Soil Fertility and Irrigation Efficiency under AFACI Project

**(b) Abroad**

Country	Year	Duration		Name of Programme
		Months/w eeks	Day	
IRRI, Philippines	2010	-	12	Leadership Course for Asian and African Women for Research and extension in rainfed rice ecosystem

**PROFESSIONAL MEMBERSHIP**

- i) Bangladesh Rice Research Institute Scientist's Association (BRRISA)
- ii) Bangladesh Society of Agronomy
- iii) Weed Science Society of Bangladesh
- iv) Krishibid Institution of Bangladesh

I hereby declare that all the above statements are correct and complete.



Rakiba Shultana