

CURRICULAM VITAE

DR. RAKIBA SHULTANA
Senior Scientific Officer
Agronomy division
Bangladesh rice Research
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PERSONAL DETAILS

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^{+ve}

EDUCATIONAL QUALIFICATION

Name of the examination	Board/ University	Course Duration	Year of completion	Class/ GPA	% marks obtained
PhD	UPM, Malaysia	Eight semesters	2020	First 3.95/4.00	-
MS in Plant pathology	BAU, Mymensingh	Three Semesters	2007	First 3.953/4.00	98.83%
B.Sc. (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%

Note: BAU = Bangladesh Agricultural University, Mymensingh; UPM= Universiti Putra Malaysia

Title of MS thesis:

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

Title of PhD thesis:

Effect of Salt-tolerant Plant Growth-Promoting Rhizobacteria (PGPR) inoculation on crop growth, biochemical properties and yield of rice.

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. Thirteen years research experience on agronomic crop management, weed management, fertilizer management, soil microbiology etc.

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.
- 5) **Shultana, R.**, M. A. A. Mamun, L. Naher, M. K. A. Bhuiyan and A. J. Mridha. 2015. Response of nerica rice to nitrogen fertilization. *Bangladesh Agron. J.* 18 (2): 9-14.
- 6) **Shultana, R.**, J., C., Biswas, M., A., A., Mamun and L., Nahar Fertilizer and Weed Management Options for Direct Wet Seeded Rice in Bangladesh. *Bangladesh Rice J.* 20(1): 65-75, 2016
- 7) **Shultana, R.**, Othman, R., Zuan, A. T. K., & Yusop, M. R. (2019). Evaluation of growth and nutrient uptake of rice genotypes under different levels of salinity. *Research on Crops*, 20(1), 1-9.
- 8) **Shultana, R.**, Zuan, A. T. K., Othman, R., & Yusop, M. R. (2019). Growth and nutrients uptake of rice at early seedling stage as inoculated with *Bacillus spp.* *Plant Archives*, 19(2), 1995-2001.
- 9) **Shultana, R.**, Tan Kee Zuan, A., Yusop, M. R., Mohd Saud, H., & Ayanda, A. F. (2020). Effect of Salt-Tolerant Bacterial Inoculations on Rice Seedlings Differing in Salt-Tolerance under Saline Soil Conditions. *Agronomy*, 10(7), 1030.
- 10) **Shultana R.**, Kee Zuan AT, Yusop MR, Saud HM (2020) Characterization of salt-tolerant plant growth-promoting rhizobacteria and the effect on growth and yield of saline-affected rice. *PLoS ONE* 15(9): e0238537.

Full paper as Co-author (11)

- 11) 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.
- 12) Mamun, M., 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
- 13) 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.
- 14) 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.

- 15) 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.
- 16) 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.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) Bhuiyan, M., K., A., S., A., Islam, **R., Shultana**, M., M., Rana, L., Nahar and M., M., Mahbub. Competitive ability of exotic rice cultivars against weed suppression in wet season. Accepted to *Bangladesh Journal of weed science*
- 26) Bhuiyan, M. K. A., L. Nahar, M. M. Mahbub, **R. Shultana**, M.A.J. Mridha, M.A. Rahman and M. Kamruzzaman. Yield response and nitrogen use efficiency of boro rice varieties as affected by different methods of USG and prilled urea application. *Bangladesh Agron. J.* 2016, 19(1): 1-10.
- 27) Lutfun Nahar, **Rakiba Shultana**, Khairul Alam Bhuiyan, Md. Zakaria Ibne Baki and Romana Akter. Assessment of different crop residues and herbicide on weed control efficiency in Transplanted Aman rice. *International Journal of Applied Research* 3(3) 7-13.

Book chapter:

1. **Rakiba Shultana**, Md Kamal Uddin, Muhammad Mahmudul Hasan & Md Mahmudul Hasan Khan. Basic Agronomic Calculations Associated with Crop Establishment and Growth Basic Calculations in Agriculture. *Basic Calculations In Agriculture*. Universiti Putra Malaysia Press. Serdang, 2020

2. Md Kamal Uddin, **Rakiba Shultana**, Abdul Shukor Juraimi, Md Mahmudul Hasan & Md Parvez Anwar. *Analysing Weed Species Composition and Determining Dominant Species from Weed Survey Data. Basic Calculations in Agriculture.* Universiti Putra Malaysia Press. Serdang, 2020.

Conference / Symposium proceedings

Rakiba Shultana, Radziah Othman, Ali Tan Kee Zuan, and Mohd Rafii Yusop. 2018. Growth promoting characteristics of salt-tolerant rhizobacteria isolated from paddy field in northern coastal saline areas of Malaysia. *10th International Symposium on Plant-Soil Interactions at Low pH 25-28 June 2018.* Palm Garden Hotel IOI Resort, Putrajaya, Malaysia (Oral presentation).

Rakiba Shultana, Radziah Othman, Ali Tan Kee Zuan and Mohd Rafii Yusop. Exopolysaccharide producing rhizobacteria reduced the salinity effect on rice plants. 2018. *34th Symposium on Malaysian Society for Microbiology, 7-10th December 2018.* The Gurney Resort Hotel & Residences, Georgetown, Penang, Malaysia (Poster presentation).

Rakiba Shultana, Radziah Othman, Ali Tan Kee Zuan and Mohd Rafii Yusop. 2019. Salt tolerant characters of *Bacillus arryabhatai* in reducing the salinity effect on paddy. *Wageningen soil conference. 27 - 30 August 2019.* Wageningen University, The Netherlands (Poster presentation).

Rakiba Shultana, Ali Tan Kee Zuan, and Mohd Rafii Yusop and Halimi Mohd Saud. 2020. Effect of salt-tolerant plant growth-promoting rhizobacteria (PGPR) inoculation on biochemical properties and yield of rice. *Soils 2020.* 6-8 October, 2020. Holiday Villa Johor Bahru City Centre, Johor (poster presentation)

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
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(b) Abroad

Country	Year	Duration		Name of Programme
		Months/weeks	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.



Dr. Rakiba Shultana