

## Curriculum Vitae

### **Personal Information:**

Name : **MS. SHAMIMA AKTER**  
Date of birth : July 1, 1971  
Place of birth : Sirajgonj, Bangladesh  
Marital status : Married  
Nationality : Bangladeshi by birth

### **Address:**

Senior Scientific Officer  
Plant Pathology Division  
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### **Academic Qualifications:**

- **Doctor of Philosophy (PhD):** Plant Pathology, Faculty of Agriculture, Universiti Putra Malaysia, Malaysia, 2015
- **Master of Science (M.S.),** Bangladesh Agricultural University, Mymensingh, Plant Pathology, 1999, 1<sup>st</sup> Class, 1141 (71.31%)
- **Bachelor of Science in Agriculture (B.Sc.Ag.),** Bangladesh Agricultural University, Mymensingh, Agriculture, 1993, (exam. held in 1997) 1<sup>st</sup> Class, 2648 (61.58%)
- **Higher Secondary Certificate (H.S.C.),** Rajshahi Board, Science, 1989, 1<sup>st</sup> Division, 708 (70.80%)
- **Secondary School Certificate (S.S.C.),** Rajshahi Board, Science, 1987, 1<sup>st</sup> Division, 744 (74.40%)

### **Computer Knowledge:**

Sufficient knowledge and skills in Microsoft Word, Microsoft Excel, Power Point, SPSS, and IRRI Stat, Crop-Stat and SAS.

### **Working Experiences:**

I have been working on different aspects of rice diseases in the Plant Pathology Division of Bangladesh Rice Research Institute, Bangladesh, from 28.02.1999 to till date.

## Research interest:

I am interested to find out effective management technology of disease. It could be either biological management or integrated disease management.

## Research Publications:

### Journal article

### Full paper

1. **S. Akter**, M. A.T. Mia and I. Hossain. 2001. Chemical Control of Grain Discolouration in Rice, Bangladesh J. Seed Sci. and Tech. 5 (1&2): 41-45.
2. **S. Akter**, M. S. Mian and M. A. T. Mia. 2001. Chemical Control of Sheath Blight (*Rhizoctonia solani*) Disease of Rice, Bangladesh J. Plant Pathol. 17 (1&2): 35-38.
3. **S. Akter**, M. M. Rahman, M.A.T. Mia, N.R. Sharma and H. Kohinoor. 2003. Interaction among the *Rhizoctonia* spp. causing sheath blight disease complex in rice. Bangladesh J. Plant Pathol. 19 (1&2): 1-5.
4. **S. Akter**, Salim Mia, M. S. Kabir, M. A. Latif and M. A. T Mia. 2005. Avirulent *Rhizoctonia oryzae* controlling sheath blight of rice under field condition. Bangladesh J. Plant Pathol. 21(1&2): 89-91.
5. N. R. Sharma, **S. Akter** and M. M. Rahman. 2004. Survey on Rice (*Oryza sativa* L.) Sheath Blight Disease Complex in Gazipur District of Bangladesh. The Agriculturists. 2 (2):101-107.
6. Salim Mian, **S. Akter**, A. Ali and M. A. T, Mia. 2004. Evaluation of some new chemicals against sheath blight in rice. Bangladesh J. Plant Pathol. 20 (1&2):59-61.
7. M. N. Islam, A. T. M. Hasanuzzaman, M. A. A. Bachchu, M. S. Alam and **S. Akter**. 2004. Screening of some Jute Mutants to evaluate their preference to Jute hairy Caterpillar, *Spilarctia obliqua* Walker. The Agriculturists. 2(2): 84-88.
8. M.S. Kabir, S.M.Shadidullah, **S. Akter** and M.A.T. Mia. 2006. Determination of threshold level for sheath blight disease of rice. Bangladesh J. Plant Pathol. 22(1&2): 69-72.
9. M.A. Latif, **S. Akter**, M.S.Kabir, M.A. Ali, M.A. Hossain and M.L Rahman.2006. Efficacy of some organic amendments for the Control of Ufra disease of rice. Bangladesh J. Microbiol. 23(2):118-120.
10. **S. Akter** and M.A.T. Mia. 2007. Role of sole seed-borne fungi causing grain spotting in rice. Bangladesh J. Plant Pathol. 23 (1&2): 29-33.
11. Hossain, M.A., M.S. Kabir, **S. Akter**, M.A. Latif and M.A.T. Mia. 2008. Isolation of antagonistic bacteria and their effectiveness against sheath blight disease of rice. J. Microb. World. 10 (2): 113-117.

12. M.A. Latif, M.A Ali, **S. Akter**, M. Hossain, Q.S.A Jahan, M.S.Kabir,N.R.Shrama, M.M Rhaman and M.A.T.Mia. 2009. Screening of genotypes, organic amendments and antagonistic bacteria for the control of Sheath blight disease of rice. *Eco-friendly Agril.J* 2(&): 706-712.
13. S.A.J. Quazi, M. M. Rahman, **S. Akter**, M. Tuhina-Khatun and M.A. Monsur 2009. Assessment of yield loss due to Tungro in Bangladesh. *Bangladesh J. Plant Pathol.* Vol. 25 (1&2): 37-40.
14. **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.
15. M.A. Begum, **S. Akter**, A. Nahar and M. Hatem Ali. 2010. Efficacy of different isolation methods of plant parasitic nematodes from soil of bitter gourd and teasel gourd fields. *Bangladesh J. Prog. Sci. and Tech.* 8(2): 271-274.
16. **S. Akter**, M.A.Ali, N.R. Sharma, M.M. Rahman and M.A.T. Mia. 2009. Prevalence of three Rhizoctonia species in four regions of Bangladesh and their virulence. *Bangladesh Journal of Plant Pathology*, Vol.25 (1&2): 25-30.
17. **Shamima Akter**, M. A. Latif, Abu Taher Mia, Tahmid Hossain Ansari, Md. Touhidul Islam and M. Y. Rafii. 2013. Efficacy of Fungicides against Grain Spot Disease in Rice (*Oryza sativa*), *Life Science Journal* 10(4): 3005-3008.
18. M. A. Latif, Mohd Rafii Yusop, Gous Miah, **Mrs Shamima Akter** and Md Ansar Ali. 2013. Chemical control of ufra disease of rice: A simple profitability analysis. *Journal of Food, Agriculture & Environment* 11 (2): 716-720.
19. **Akter, S.**, Jugah Kadir, Abdul Shukor Juraimi, Halimi Mohd Saud and Salha Elmahdi. 2013. Isolation and Identification of antagonistic bacteria from phylloplane of rice as biocontrol agents for sheath blight, *Journal of Environmental Biology* 35(6): 1095-1100.
20. Abbas Nasehi, Jugah Bin Kadir, Mehdi Nasr Esfahani, Farshid Mahmodi, Elham Golkhandan, **Shamima Akter** and Hajar Ghadirian. 2014. Cultural and physiological characteristics of *Stemphylium lycopersici* causing leaf blight disease on vegetable crops. *Archives of Phytopathology and Plant Protection*, 47(14): 1658-1665.
21. Salha Elmahdi, Jugah Kadir, Mahmud Tengku Muda Mohamed, Ganesan Vadamalai, **Shamima Akter**. 2015. Isolation, Screening and Characterization of Effective Microbes with Potential for Biological Control of Fusarium wilt of Rock Melon. *World Journal of Agricultural Research* 3(1): 11-16.

#### Short communication

1. **S. Akter** and M.A.T. Mia. 2008. Development of screening method for leaf scald disease of rice. *Bangladesh J. Plant Pathol.* 24 (1&2):79-80.

## **Presentation**

### **National**

1. **S. Akter** and M. A.T. Mia. Management of grain discolouration in rice. Paper presented in the **Thursday Seminar** at Bangladesh Rice Research Institute (BRRI), 1 September, 2005, Bangladesh.
2. U. A. Nahar, F. Rahman, **S. Akter**, M. A. Saleque and M. A. M. Miah. Isolation and identification of indigenous potential filamentous fungi and determination rate of composting. Paper presented in the **Thursday Seminar** at Bangladesh Rice Research Institute (BRRI), 21 April, 2005, Bangladesh.
3. **S. Akter**, M.A.T. Mia, M.S. Kabir and M.A. .Latif. Effect of sheath rot (*Sarocladium oryzae*) on rice seed health. WASD Fifth Annual International conference on Managing Knowledge, Technology and Development in the Era of Information Revolution. 29-31 October, 2007, Griffith University Brisbane, Australia.
4. M.S. Kabir, **S. Akter**, P.S. Biswas, M.A. Latif and M.A. Hossain. Screening, phenotypic and physiological structures of *Xanthomonas oryzae* pv. *oryzae* and its races in Bangladesh .The 2<sup>nd</sup> International Conference on Bacterial Blight of Rice, October 1-3, 2007, Nanjing, China.
5. M.A. Latif, **S. Akter**, Q.S.A. Jahan and M.A.T. Mia. Incidence, yield loss and management of rice bakanae disease. Paper presented in the **Thursday Seminar** at Bangladesh Rice Research Institute (BRRI), 28 January 2010, Bangladesh.
6. **Akter, S.**, Rahman, M.M., Sharma, N.R. and Mia, M.A.T. 2003. Occurrence of Rhizoctonia species, their pathogenicity and interaction and isolation of bacterial antagonists, DFID-CPP Rice Sheath blight Project R 7778. Stakeholder Workshop. Bangladesh Rice Research Institute, 3<sup>rd</sup> December, 2003, Gazipur, Bangladesh.

### **International**

7. **S. Akter**, M.A.T. Mia, M.S. Kabir and M.A. .Latif. Effect of sheath rot (*Sarocladium oryzae*) on rice seed health. WASD Fifth Annual International conference on Managing Knowledge, Technology and Development in the Era of Information Revolution. 29-31 October, 2007, Griffith University Brisbane, Australia.
8. M.S. Kabir, **S. Akter**, P.S. Biswas, M.A. Latif and M.A. Hossain. Screening, phenotypic and physiological structures of *Xanthomonas oryzae* pv. *oryzae* and its races in Bangladesh. The 2<sup>nd</sup> International Conference on Bacterial Blight of Rice, October 1-3, 2007, Nanjing, China.
9. **Akter, S.**, Tuhina, K., Pervin, S., and Mia, M.A T. Effect Of Transplanting Time on Grain Spotting In Rice. Poster presented in the 28<sup>th</sup> International Rice Research Conference, Hanoi, Vietnam, 8-11 November, 2010.

10. Muthumeenakshi, S., Sreenivasa Prasad, S., Sharma, N.R., **Akter, S.**, Rahman, M., Taher Mia, M.A., Nahar, M. and Brown, A. E. 2002. Towards understanding the diversity and epidemiology of *Rhizoctonia* species involved in rice sheath blight complex in Bangladesh; Molecular Approaches, Plant Pathology; Global Food Security, BSPP Conference, Imperial, London, 8-10 July 2002.
11. Muthumeenakshi, S., Sreenivasa Prasad, S., Das, B., Archer, S., Sharma, N.R., **Akter, S.**, Rahman, M.M., Taher Mia, M.A. and Brown.A.E. 2003. Molecular Approaches to identify *Rhizoctonia* species involved in rice sheath blight complex. 8<sup>th</sup> International congress of Plant Pathology, Christchurch, New Zealand, 2-7 February, 2003.
12. **Shamima Akter**, Jugah Kadir, Shukor Juraimi and Halimi Saud, Isolation and characterization of endophytic bacterial antagonist against rice sheath blight pathogen (*Rhizoctonia solani*). Poster presented in the 5<sup>th</sup> International Conference on Integrated Pest Management for Asia and Africa. Sutra Harbour Majestic, Kota Kinabalu, Sabah, Malaysia, 17-20 December 2012.
13. **Shamima Akter**, Jugah Kadir, Abdul Shukor Juraimi and Halimi Mohd Saud. Potential of two phylloplane *Pseudomonas* bacteria against *Rhizoctonia solani* causing sheath blight of rice (*Oryza sativa*). Paper presented in the Post Graduate Symposium on Plant Protection 2013, Residence Hotel, UNITEN, Bangi, Selangor, Malaysia, 26 August 2013.
14. **Shamima Akter**, Jugah Kadir, Abdul Shukor Juraimi, Halimi Mohd Saud, "Optimization of indole acetic acid production by *Pseudomonas* and effect on rice seedling growth" paper published in proceedings of 8th International conference on p conference on plant protection in the tropics "Plant protection for food security and safety", Berjaya Time Square Hotel, Kuala Lumpur, Malaysia, 8-10 April 2014.

### **Professional Training achieved:**

#### **In country**

- **Foundation Training**, Bangladesh Academy for Rural Development (BARD), Comilla, Bangladesh, 3.5 months
- **Rice Production, Communication and Office Management**, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh, 2 months
- **Training of Trainer on Participatory Reflection and Action (PRA)**, Village Education Resources Center (VERC), Savar, Bangladesh, 1 week
- **Hybrid Rice Technology**, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh, 1 month
- **Identification, Sampling and Data Collection on Rice Sheath Blight Disease Complex**, Bangladesh Rice Research Institute (BRRI), Bangladesh, 3 days

- **Gender and Development**, Regional Public Administration Training Centre (RPATC), Bangladesh, 5 days
- **Safe use of Pesticides in Agriculture**, Bangladesh Agricultural Research Council (BARC), Bangladesh, 2 days
- **Breeder Seed Production and Preservation of Rice**, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh, 5 days

#### **Abroad**

- **Fungal Molecular Diagnostic**, Horticulture Research International, UK, 3 months
- **Leadership Course for Asian Women in Agriculture**, International Rice Research Institute (IRRI), Philippines, 2 weeks

#### **Membership of Professional Institutions:**

- **Member**- Agriculturist Institution, Dhaka, Bangladesh
- **Life member**- Bangladesh Phytopathological Society, Gazipur, Bangladesh
- **Member**- Bangladesh Rice Research Institute Scientists Association, Gazipur, Bangladesh
- **Member**- Professional Organization of Women in Extension and Research, Dhaka, Bangladesh
- **Member**- Bangladesh Association of Scientists and Scientific Professions, Dhaka, Bangladesh
- **Member**- Bangladesh Entomology Society, Gazipur, Bangladesh
- **Member**- Bangladesh Botanical Society, Dhaka, Bangladesh

#### **Referees:**

(i) Dr. M. Taher Mia, Chief Plant Pathologist and Head, Plant Pathology Division, Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh, Phone: 880 2 9257506, Fax: +880-2-9261110, Email: mia.taher@ yahoo.com

(iii) Dr. M. Bahadur Meah, Professor, Plant Pathology Department, Bangladesh Agricultural University, Mymensingh –2200, Bangladesh, Phone: 880 91 55695-7 (Ext.-2142), Fax: + 880 91 55810, Email: [bmeah@yahoo.com](mailto:bmeah@yahoo.com)

(iv) Dr. Jugah Kadir, Associate Professor, Department of plant Protection, Faculty of Agriculture, University Putra Malaysia, Malaysia, Phone : +601 26247649, Fax : +603 89474917, email: kaju@upm.edu.my.