Curriculum Vitae
of
Md. Khairul Quais

Mailing Address

Senior Scientific Officer
Bangladesh Rice Research Institute (BRRI)
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Educational Qualification

Degree/Diploma/ Certificate	Class/Grade/Division	University/Institute/Board	Year
PhD in Entomology	Satisfactory	Zhejiang University, China	2020
MS in Entomology	Grade:"A" (CGPA: 3.836)	BAU, Mymensingh	2007
B.Sc. Ag (Hons)	First Class (7th position)	BAU, Mymensingh	2003

Research Experience

Specialization on Rice based cropping systems in Bangladesh Rice Research Institute

2007-2012 as Scientific Officer (SO)

2012- to date as Senior Scientific Officer (SSO)

List of publication

Journal article

1. **M K Quais**, A Munawar, N A Ansari, W W Zhou and Z R Zhu. 2020. Interactions between brown planthopper (*Nilaparvata lugens*) and salinity stressed rice (*Oryza sativa*) plant are cultivar-specific. *Scientific Reports,* 10: 8051. https://doi.org/10.1038/s41598-020-64925-1
2. **M K Quais**, N A Ansari, G Y Wang, W W Zhou and Z R Zhu. 2019. Host plant salinity stress affects the development and population parameters of *Nilaparvata lugens* (Hemiptera: Delphacidae). *Environmental Entomology*, 48 (5): 1149-1161. https://doi.org/10.1093/ee/nvz084
3. **M K Quais**, M M R Dewan, A Khatun and H Sultana. 2015. Rice yield gap minimization in central Bangladesh: Using and adapting existing technologies. Open Access Library Journal, 2: e1641. http://dx.doi.org/

10.4236/oalib. 11016 41

4. **M K Quais,** M H Rashid, S M Shahidullah and M Nasim. 2017. Crops and Cropping sequences in Chittagong Hill Tracts. *Bangladesh Rice Journal,* 21 (2, Special Issue): 173-184.
5. **M K Quais,** K S Islam, M Jahan, M A Monsur and M Akter. 2010. Evaluation of neem, mahogoni and karanja oils for their residual effect against pulse beetle, Callosobruchus chinensis and seed viability. Bangladesh Journal of Entomology, 20 (2): 99-108.
6. **M K Quais,** A Haque, M A Monsur, M M R Dewan and S Pramanik. 2009. Effect of neem, mahogoni and karanja oils on oviposition, adult emergence and mortality of pulse beetle, Callosobruchus chinensis Linn. International Journal of BioResearch, 6 (2): 7-12.
7. **M K Quais,** K S Islam, M Jahan, M A Monsur and M Akter. 2010. Evaluation of neem, mahogoni and karanja oils for their residual effect against pulse beetle, Callosobruchus chinensis and seed viability. Bangladesh Journal of Entomology, 20 (2): 99-108.
8. **M K Quais,** A Haque, M A Monsur, M M R Dewan and S Pramanik. 2009. Effect of neem, mahogoni and karanja oils on oviposition, adult emergence and mortality of pulse beetle, Callosobruchus chinensis Linn. International Journal of BioResearch, 6 (2): 7-12.
9. M J Zhang, X X Shi, N Wang, C Zhang, C Zhang, **M K Quais**, S A Ali, W W Zhou, C G Mao, Z R Zhu. 2021. Transcriptional changes revealed genes and pathways involved in the deficient testis caused by the inhibition of alkaline ceramidase (Dacer) in *Drosophila melanogaster*. Arch Insect Biochem Physiol, e21765. https://doi.org/10.1002/arch.21765
10. P Qian, Y L Bai, W W Zhou, H Yu, Z J Zhu, G Y Wang, **M K Quais**, F Q Li, Y Chen, Y Tan, X X Shi, X Q Wang, X M Zhong and Z R Zhu. 2021. Diversified bund vegetation coupled with flowering plants enhances predator population and early-season pest control. Environmental Entomology, nvab027, https://doi.org/10.1093/ee/nvab027
11. G Y Wang, J L Zhu, W W Zhou, S Liu, **M K Quais**, N A Ansari and Z R Zhu. 2018. Identification and expression analysis of putative chemoreception genes from Cyrtorhinus lividipennis (Hemiptera: Miridae) antennal transcriptome. Scientific Reports, 8: 12981. https://doi.org/10.1038/s41598-018-31294-9
12. M A B Faruquei, A Saha, M Nasim, A Khatun, M Ibrahim, H A Rashid, M M R Dewan, **M K Quais**, S Mondal, S Pramanik, N Parvin, A B M J Islam, M A U Zaman, B J Shirazy, A B M Mostafizur, L Khatun, M E Uddin, T Chakrobarty and S M Shahidullah. 2020. Performance of exotic date palm (Phoenix dactylifera) genotypes in Bangladesh. International Journal of Agricultural Sciences and Veterinary Medicine, 8 (2): 30-37.

13. S M Shahidullah, M Nasim, **M K Quais** and A Saha. 2017. Diversity of cropping systems in Chittagong region. Bangladesh Rice Journal, 21 (2, Special Issue): 109-122.
14. N Parvin, A Khatun, **M K Quais** and M Nasim. 2017. Cropping Pattern, Intensity and Diversity in Dhaka Region. Bangladesh Rice Journal, 21 (2, Special Issue): 123-142.
15. A Khatun, **M K Quais**, A A Begum, M A Saleque and M S U Bhuiya. 2016. Response of medium and long duration Boro rice variety (Oryza sativa L.) to nitrogen fertilizer. The Agriculturists, 14(2): 48-60.
16. A Khatun, **M K Quais**, H Sultana, M K A Bhuiyan and M A Saleque. 2015. Nitrogen fertilizer optimization and its response to the growth and yield of lowland rice. Research on Crop Ecophysiology, 10/2 (1): 1-16.
17. J M Sarker, D C Sarker and **M K Quais**. 2015. Effects of sulpher and zinc on the yield and yield components of two mustard cultivars. Eco-friendly Agricultural Journal, 8(2): 04-07.
18. M M R Dewan, M G Rabbani, U A Naher, S. Pramanik and **M K Quais**. 2013. Genetic diversity of ash gourd (Benincasa hispida) genotypes. Bangladesh Journal of Plant Breeding and Genetics, 26(2): 01-08.
19. M S Zahan, **M K Quais** and M R Khan. 2012. Temporal variation in seed quality of coriander preserved in different seed containers. Eco-friendly Agricultural Journal, 5 (08): 129-134.
20. Rashid M H, **M K Quais**, M A Muttaleb and M H Ali. 2012. Enhancing productivity of flood prone area through adoption of late T. Aman based technology. Bangladesh Agronomy Journal, 15(2): 95-103.
21. A Saha, **M K Quais**, M M R Dewan and M H Ali. 2011. Evaluation of Transplanting and Drum Seeding of Boro Rice under Different Planting Time. International Journal of BioResearch, 11 (5): 28-33.
22. M R Khan, **M K Quais**, M Hanif, M M Hasan and S. Jahan. 2011. Temporal Variation on Seed Quality of Jute (Corchorus capsularis) Stored in Different Containers. International Journal of BioResearch, 11 (1): 41-47.
23. M I U Mollah, M J Islam, M M R Dewan, **M K Quais**, S Mondal and S Pramanik. 2009. Effect of raised bed sowing on growth of direct seeded Aman in Rice-Wheat cropping system. International Journal of BioResearch, 7(4):52-58.
24. M I U Mollah, M J Islam, M M R Dewan, S Mondal, **M K Quais** and S Pramanik. 2009. Effect of raised bed planting on leaf area of direct seeded and transplant Aman Rice and its relationship with grain yield. Eco-friendly Agricultural Journal, 2(10): 851-857.
25. M I U Mollah, A Saha, M M R Dewan, S Pramanik, S Mondal and **M K**

Quais. 2009. Growth of transplanted Aman rice under raised bed planting method in Rice-Wheat cropping system. Eco-friendly Agricultural Journal, 2(8):751-756.

26. M Akter, M A Haque, M A Monsur, **M K Quais** and H Begum. 2009. Biological activity of celaflor against pulse beetle, Callosobruchus maculatus (Fab.). Bangladesh Journal of Entomology, 19(1): 79-89.
27. M N Uddin, S M H A Rabbi, M A Monsur, M R Hasan and **M K Quais**. 2009. Effect of organic and inorganic fertilizers on the vegetative growth of lemon. International Journal of BioResearch, 7(1):56-63.
28. S Pramanik, M H Akand, A K M M Uddin, M S A Talukder, **M K Quais** and M A Monsur. 2009. Effect of nitrogen and phosphorus on the yield of cabbage (Brassica oleraceae var capitata L.) International Journal of BioResearch, 6 (2): 46-50.
29. M N Uddin, M A Monsur, **M K Quais**, A Haque, S M H A Rabbi and M R Hasan. 2009. Effect of organic and inorganic fertilizers on the yield and yield contributing characters of two lemon varieties. Eco-friendly Agricultural Journal, 2 (2): 414-419.
30. M S Hossain, M A Z Al-Munsur, E H Chowdhury, K M Nasiruddin and **M K Quais**. 2009. Genetic diversity of chilli genotypes using RAPD markers. International Journal of BioResearch, 6 (5): 51-57.
31. Saha A K, I Hossain, M A Monsur, **M K Quais** and M Akter. 2009. Effect of amister and garlic extract in controlling purple blotch and storage disease of onion. Bangladesh Journal of Plant Pathology, 25 (1& 2): 67-70.
32. Monsur M A, M S Hossain, J A Mahmud, **M K Quais**, A Haque and K Nahar. 2009. Effect of spacing, Dithane M-45 and BAU-biofungicide (Trichodarma harzianum) on anthracnose of soybean. Eco-friendly Agricultural Journal, 2 (1): 355-358.

Short Communication

1. **M K Quais**, S Jahan, M M Haque and M R Khan. 2013. Variation in seed quality of radish preserved in different storage containers. Bangladesh Journal of Agricultural Research, 38(3): 545-552.
2. **M K Quais**, A B M J Islam and M H Ali. 2012. Profitability of Sugarcane Based Intercropping Systems in FSRD Site of BRRI. Eco-friendly Agricultural Journal, 5 (07): 86-87.

Leaflet

1. Rashid M H, M A H Khan, M Ibrahim and **M K Quais.** রোপা আমন ভিত্তিক শস্য বিন্যাসে আধুনিক নাবী রোপা আমন জাতের চাষাবাদ। Rice Farming Systems Division, BRRI, Gazipur. Published in March 2009.

Seminar

1. Ibrahim M, S A Talukder, **M K Quais**, M H Rashid, A H Khan and M A Quddus. Double Transplanting of Boro Rice: A Unique Option for Optimizing Boro Production in T. Aman-Potato-Boro Cropping System. Paper presented in Thursday seminar at BRRI, Gazipur on 07-08-2008.

Abstract

1. **M K Quais**. 2015. Evaluation of short duration mustard and double transplanting technologies in single and double rice ecosystems. In: M A Saleque, M A Kashem, M A Ali and M S Kabir. 2015. Bangladesh rice research abstract 2014. Bangladesh Rice Research Institute, Gazipur 1701, Bangladesh
2. A B M J Islam and **M K Quais**. 2015. Evaluation of sesbania application and weed management practices in transplanted Aman under Boro-Fallow Transplanted Aman cropping pattern. In: M A Saleque, M A Kashem, M A Ali and M S Kabir. 2015. Bangladesh rice research abstract 2014. Bangladesh Rice Research Institute, Gazipur 1701, Bangladesh
3. S Pramanik, **M K Quais** and H Sultana. 2015. Crop residue management under permanent raised beds in Rice-Wheat Systems. In: M A Saleque, M A Kashem, M A Ali and M S Kabir. 2015. Bangladesh rice research abstract 2014. Bangladesh Rice Research Institute, Gazipur 1701, Bangladesh

Conference paper

1. Rashid M H, **M K Quais**, M A Muttaleb and M H Ali. 2011. Enhancing the Productivity of Flood Prone Area Through Adoption of Late T. Aman Based Technology Adoption. Abstract presented in the 10th Conference of Bangladesh Society of Agronomy on "Crop Production under Unfavorable Ecosystems in Bangladesh" held in BARI, Gazipur at 08 October 2011.
2. Rashid M H, **M K Quais**, A Saha and A H Khan. Double Transplanting in Boro for Enhancing System Productivity of T. Aman -Potato- Boro Cropping Sequence. Abstract presented in the 9th Biennial Conference of Bangladesh Society of Agronomy on "Crop Production under Changing Climate in Bangladesh: Agronomic Options" held in BARC, Farmgate, Dhaka during 06-07 October 2010.

Outstanding achievement and relevant activities

a) Participation in technology transfer systems

1. Block demonstration of minimizing yield gap through BRRI recommended management in Boro and T. Aman rice
2. Intervention of transferable Farming Systems technologies for improving the livelihoods of the resource poor farm households
3. Promotion of improved cropping patterns in BRRI technology site, Kapasia
4. Multilocation testing of improved cropping pattern BRRI dhan29-Fallow-BRRI dhan46 (Medium High Land-2) in Trisal, Mymensingh

5. Maximizing the productivity of Boro-Fallow-Fallow, Boro-Fallow-T. Aman and Boro-T. Aus-T. Aman cropping patterns through adoption of newly released BRRI dhan46 in Kapasia, Mymensingh Sadar and Gafargaon
6. Intensification of single and double rice cropping patterns of Mymensingh region through inclusion of mustard

b) Resource person in training programme

1. SAAO training on "Rice Faming Systems" from 14-17 June 2012 at Barisal, Patuakhali, Barguna and Jhalokhati.
2. SAAO training on "Rice Faming Systems" from 27-30 June 2012 at Rangpur, Nilphamari, Lalmonirhat and Kurigram.

c) Others

1. Actively participate in the preparation of completion report of "Maximizing the productivity of late T. Aman based cropping patterns through adoption of newly released BRRI dhan46" programme under Research grant of BARC
2. Actively participate in the preparation of research proposal of "Coordinated sub-project on farming systems research and development for farmers' livelihoods improvement: BRRI component" for SPGR PIU-BARC, NATP: Phase-1
3. Actively participate in the preparation of Farmers Group Discussion (FGD) report in Faridpur and Gopalgonj under CSISA-BRRI project
4. Partcipate in the program planning workshop of Integrated Agricultural Productivity Project (IAPP) at BRRI
5. Act as training co-ordinator on farmers training on Boro rice production and management at Kapasia, Gazipur.
6. Worked as Co-Investigator of "CSISA Expansion Project"
7. Served as Working Scientist of "Integrated Agricultural Productivity Project"
8. Served as Working Scientist of "Mujibnagar Integrated Agricultural Development Project"
9. Worked as Co-Investigator of "Coordinated sub-project on farming System Research and Development for farmers' Livelihoods Improvement: BRRI Component"

Professional training

In Country:

Organization	Year	Duration		Name of Programme
		Months/ weeks	Days	
BRRI,Gazipur	2012	-	05	Capacity Development for Farm Management Strategies to Improve Crop-Water Productivity using AquaCrop Model
BARC, Dhaka	2012	-	03	Financial Management and Procurement of SPGR Sub-projects
IRRI, Bangladesh	2012	-	05	Data Management and Report Writing
BRRI,Gazipur	2011	-	05	Application of ICT in Agriculture using ArcView & ArcGIS Technology
BARC, Dhaka	2011	-	02	Rice and Wheat Cultivation for Unfavorable Ecosystem
BSMRAU, Gazipur	2011	12 weeks	-	Post Graduate Certificates course on Seed Technology
BRRI, Gazipur	2010	01 month	-	1-Month Rice Production Training Course
BARD, Comilla	2009-10	04 Months	-	Foundation Training Course for NARS Scientists
BRRI, Gazipur	2009	-	05	Breeder Seed Production and Preservation of Rice
GTI, Mymensingh	2009	-	15	Research Methodology
BARC, Dhaka	2009	-	03	Use of Fertilizer Recommendation Guide-2005
BRRI, Gazipur	2008	-	05	Hybrid Rice Development and Seed Production

Abroad:

Country	Year	Duration		Name of Programme
		Months/ weeks	Day	
Philippines (IRRI)	2012	-	19	Rice: research to production

Academic Awards and Fellowship

Awarded “Chinese Government Scholarship” in 2016 to pursue my PhD at Zhejiang University, China.

Personal details

Father's name	:	Md. Abul Kashem
Mother's name	:	Khaleda Khatun
Gender	:	Male
Permanent address	:	Village: Kushmile (Paner Vita), P.O.: Kushmile, Upazila: Fulbaria, Dist: Mymensingh, Bangladesh
Date of birth	:	16 October 1982
Marital Status	:	Married
Religion	:	Islam
Nationality	:	Bangladeshi (by birth)

Referees

Prof. Zeng-Rong Zhu, Ph. D.
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