Curriculum Vitae of Mosammat Umma Kulsum

Contact details

Senior Scientific Officer Hybrid Rice Division Bangladesh Rice Research Institute Gazipur-1701, Bangladesh	**E-mail**: umkh332china@gmail.com Cell phone: +8801720935933 Telephone: 49272010-38 (Ext. 307) Fax: 880-2-49272000

Personal Profile

- Name : Mosammat Umma Kulsum
- Father's Name : Mohammad Abdur Razzaque Bhuiyan
- Mother's Name : Kohinoor Begum
- Date of Birth : 30.12.1975
- Physique : Hight 5' 00" ; Weight 55 Kg
- Blood Group : B^+ (positive)
- Nationality : Bangladeshi (by birth)
- National ID no. : 19753323007161924
- Permanent Address : Mosammat Umma Kulsum
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Educational Qualifications

Name of the degree	Board/University	Passing year	Division /CGPA
PhD Genetics and Plant Breeding (GPB)	Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh	2019	3.739 (Out of 4)
Master of Science(MS) in Genetics and Plant Breeding (GPB)	Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh	2010	3.51 (Out of 4)
Master of Science(MS) in Agronomy (AGR)	Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh	2003	3.12 (Out of 4)
B.Sc. in Agriculture (Hons.)	Bangladesh Agricultural University, Bangladesh	1996 (held at 2000)	Second Class
Higher Secondary School Certificate (H.S.C)	Dhaka, Bangladesh	1992	First Division

Secondary School Certificate (S.S.C)	Comilla, Bangladesh	1990	First Division

Field of specialization: Hybrid Rice Breeding, Development of hybrid rice variety through conventional method and molecular approach.

Job experience:

Position	Organization	Job responsibility	Duration
Scientific Officer (SO)	Bangladesh Rice Research Institute	Parental line and hybrid rice variety development	23 Feb, 2006 to 16 May, 2018
Senior Scientific Officer (SSO)			17, May 2018 to date

Research achievement

1 Participated in the development of six hybrid rice variety (BRRI hybrid dhan2, BRRI hybrid dhan3, BRRI hybrid dhan4, BRRI hybrid dhan5, BRRI hybrid dhan6, BRRI hybrid dhan7 and BRRI hybrid dhan8)
2. QTL *SUB1* introgression into B and R line of BRRI hybrid dhan4 which were development of a new B and R line.

Professional Training

a) In Country training

Organization	**Year**	**Duration**		**Name of Programme**
		Months/weeks	**Days**	
BRRI, Gazipur	2006	-	05	Hybrid Rice Development and Seed Production
BRRI, Gazipur	2011		2	GSR-Hybrid Rice Seed Production Training Course
BRRI, Gazipur	2011	-	13	Genetic Theory of Hybrid Rice Breeding
BRRI, Gazipur	2011	-	12	Technology of Hybrid Rice Cultivation
BRRI, Gazipur	2011	-	18	Integrated Techniques of Hybrid Rice Seed Production
BRRI, Gazipur	2013	-	5	Integrated Rice Production Training Course
BRRI, Gazipur	2013	-	5	Implication of Molecular Tools in Crop Improvement under StressEnv.
BARD, Comilla	2013-14	4	-	24th foundation Training Course for NARS Scientists
GTI, Mymensing	2014	-	13	Research Methodology
BRRI, Gazipur	2017	-	5	Hybrid Rice Development and Seed Production Training
NATA, Gazipur	2018	-	5	Food Security
BARC, Farmgate	2019		6	Financial and Procurement Management
BRRI, Gazipur	2020		2	Innovation in Public Service
BRRI, Gazipur	2020		5	Scientific Report Writing Training Course
BRRI, Gazipur	2022	2	-	Modern Rice Production Technologies

BRRI, Gazipur	2022	-	5	Industrial Revolution 4.0 in Agriculture

(b) Abroad training

Country	Year	Duration		Name of Programme
		Months/ weeks	Day	
China	2013	4	-	Training Course on Hybrid Rice Technology for Bangladesh
China	2018	2	-	2018 Training Course on Hybrid Rice Comprehensive Technology for Developing Countries

LIST OF ALL PUBLICATIONS (Total 85)

A. Scientific Journal (66)

I) **Full Paper (65)**

(a) Paper Published in Peer Reviewed Reputed International Journals 17 (5 +12)

-As Principal author (5)

1. **M.U. kulsum**, M.A. Baque and M.A. Karim. 2007. Effect of Different Nitrogen levels on the Morphology and yield of Blackgram. J. Agron., 6(1): 125-130.
2. **M.U. kulsum**, M.A. Baque and M.A. Karim. 2007. Effect of Different Nitrogen levels on the Leaf Chlorophyll Content Nutrient Concentration and Nutrient Uptake Pattern of Blackgram. Pak. J. boil. Sci., 10(2); 250-254.
3. **M.U. kulsum**, M.A. Baque, Anowara Akter, M. H. Kabir Shiragi and M.A. Karim. 2007. Effect of Different Nitrogen levels on Dry Matter Production, Canopy Structure and Light Transmission of Blackgram. Asian J. Plant Sci.,6(7): 1044-1050, 2007
4. **M.U. Kulsum**, Umakanta Sarker,M Khaleque Mian and M.Abdul Karim. 2012. Additive Main effects and multiplicative interaction(AMMI) analysis for yield of hybrid rice in Bangladesh. Trop. Agr. Develop. 56(2): 53-61,2012
5. M. Umma Kulsum, **M. Jamil Hasan,** Md. Ismail Hossain and Niaz Md. Farhat Rahman. Stability for BRRI developed promising hybrid rice for yield and it's related traits. *J. Appl. Sci. & Agric.*, 9(1): 56-62, 2014

-As Co-author (12)

1. **M. J. Hasan,** M. U. Kulsum, M. M. Hossain, Z. Akond and M. M. Rahman. Identification of stable and adaptable hybrid rice genotypes. *SAARC J. Agri*., 12(2): 1-15, 2014.
2. **M. J. Hasan,** M. U. Kulsum and M. M. Rahman. Combining ability of different yield related characters in rice. *SAARC J. Agri*., 12(2): 143-153, 2014.
3. **M. J. Hasan,** U. Kulsum, N.E. Elahi, A.K.M. Shamsuddin and M. M. Rahman. Inheritance of fertility restoration involving ID type cytoplasmic male sterility system in rice (*Oryza sativ*a L.) using ten different restorer lines. *SAARC J. Agri*., 13(1): 207-215, 2015.

4. **MJ Hasan,** MU Kulsum, Emran Hossain, M Manzur Hossain, M Mustafizur Rahman and Niaz M Farhat Rahman. Combining ability analysis for identifying elite parents for heterotic rice hybrids. *Academia Journal of Agricultural Research*, 3(5): 070-075, 2015.
5. **Md. Jamil Hasan**, Umma Kulsum, Niaz Md. Farhat Rahman, Tonima Farhat and Md. Abubakar Siddique. Hybrid Rice Parental Lines Development Utilizing Different Rice Germplasms. Advances in Environmental Biology 9 (2): 24-29, January, 2015
6. Anowara Akter, **Jamil Hasan M**, Umma Kulsum M, Islam MR, Kamal Hossain and Mamunur Rahman M. AMMI Biplot Analysis for Stability of Grain Yield in Hybrid Rice (*Oryza sativ*a L.). *Journal of Rice Research*. 2(2):126, 2014
7. M. Amir Hossain, M. A. Khaleque Mian, M. Golam Rasul, **M. Jamil Hasan**, M. Umma Kulsum and M. Abdul Karim. Combining Ability Studies in Rice Hybrids Involving New CMS Lines in Bangladesh. Trop. Agr. Develop. 60 (4): 242-250, 2016.
8. M. Amir Hossain, M. A. Khaleque Mian, M. Golam Rasul, **M. Jamil Hasan**, M. Umma Kulsum and M. Abdul Karim. Genetic Variability in Floral Traits of CMS Lines and Their Relationship with Outcrossing in Rice. Trop. Agr. Develop. 60 (4): 236-241, 2016.
9. Mohammad Amir Hossain, **Md. Jamil Hasan**, Mosammat Umma Kulsum and Md. Mahathir Sarker. Identification of Potential Maintainer and Restorer Lines Using Testcross Hybrids Turkish Journal of Agriculture - Food Science and Technology, 6(8): 953-962, 2018.
10. Anowara Akter, **M Jamil Hasan**, Mosammat Umma Kulsum, Laila Ferdousi Lipi, Hasina Begum, Niaz Md Farhat Rahman, Tonima Farhat, Md Zakaria Ibne Baki. Stability and adaptability of promising hybrid rice genotypes in different locations of Bangladesh. Advances in Plants & Agriculture Research. *Adv Plants Agric Res.* 2019; (1): 35-39.
11. **Jamil M. HASAN**, Umma M. KULSUM, Rani R. MAJUMDER, Umakanta SARKER. Genotypic variability for grain quality attributes in restorer lines of hybrid rice. Genetika, Vol 52, No.3, 973-989, 2020.
12. M Jamil Hasan, **M Umma Kulsum,** Umakanta Sarker, M Quamrul Islam Matin, Nazmul Haque Shahin, M Shahjahan Kabir, Sezai Ercisli and Romina Alina Marc. 2022. Assessment of GGE, AMMI, Regression and Its deviation model to identify stable Rice Hybrids in Bangladesh. Plants 2022, 11, 2336. https:// doi.org/10.3390/ plants11182336.

(b) Other Journals (National/Int'l): 48 (10+38)

-As a Principal author (10)

1. **M.U.Kulsum**, M Hazrat Ali, M.J.Hasan, M.H.Rahman and A.W.Julfiquar. 2009. Performance of some Hybrid Rice in Local Condition of Gazipur. Eco-friendly Agril. J. 2(6): 600-606 June 2009.
2. **M.U.Kulsum**, M.J.Hasan, K.M. Hossain M.H.Rahman and A.Akter. 2010. Floral Characteristics of some CMS Lines and Their Corresponding Maintainer. Eco-friendly Agril. J. 3(3): 145-149. March 2010
3. **M.U.Kulsum**, M.J.Hasan, H. Begum, M.M. Billah and M.H.Rahman. 2011. Genetic Diversity of some Restorer Lines for Hybrid Rice Development. Bangladesh J. Agril. Res. 36(1): 21-28. March 2011
4. **M.U. Kulsum**, M.J. Hasan**,** A. A. Khan, M.Z. Ullah and A.H.M.A. Rahman. Genetic variability and path analysis in exotic hybrid rice genotypes. Ann. Bangladesh Agric. 15(1&2): 67-77, June & December 2011

5. **M.U. Kulsum**, M.J. Hasan**,** Anowara Akter, Hafizar Rahman and Priyalal Biswas. Genotype-environment interaction and stability analysis in hybrid rice: An application of additive main effects and multiplicative interaction. Bangladesh J. Bot. 42(1): 73-81, June 2013
6. **M.U. Kulsum**, M.J. Hasan, M.A. Siddique, F. Begum and Z. Akond. 2013-2015. Genetic diversity in selected rice genotypes (*Oryza sativa* L.). Bangladesh J. Agri., 38-40: 63-72.
7. **MU Kulsum,** MJ Hasan, MN Haque, M Shalim Uddin and KM Iftekharuddaula. 2015. Effect of genotype-environment interaction on grain yield of exotic rice (*Oryza sativa* L.) hybrids. Bangladesh J. Bot. 44(4): 507-514.
8. **MU Kulsum,** KMIftekharuddaula, MMH Saikat, MA Karim, MAK Mian and MG Rasul. 2017. Combining ability for yield and yield associated traits in rice. Ann. Bangladesh Agric. 21(1&2):21-31.
9. **MU Kulsum,** KM Iftekharuddaula, M Hasan,MJ Hasan, A Amin, MG Rasul, MM Islam and MA Karim. 2019. Evaluation of submergence tolerant rice genotypes through agronomic traits. Bangladesh J. Ecol. 1(1): 17-22, June 2019.
10. **MU Kulsum**, KM Iftekharuddaula, M Hasan,MJ Hasan, A Amin, MG Rasul, MM Islam and MA Karim. 2019. Estimation of genetic variability, correlation and path coefficient analysis for evaluation of submergence tolerant rice genotypes. Bangladesh J. Ecol. 1(1): 35-41, June 2019.

-As co-author (38)

1. M.A. Aziz, M. H. Kabir, M. R. Islam, **M.U. Kulsum** and M. Shaheenuzzamn. 2006. The Socio-economic Characters and Problems faced by the Rural Women in Goat Rearing. Int. J. Sustain. Agril. Tech. 2(8): 21-27.
2. M.J. Hasan, AZMKA Chowdhury, **M.U. Kulsum**, M M H Chowdhury and A Bhattacharjee. 2007. Yield Performance and Adaptability of some Sweet Pepper(*Capsicum annum* L.) Genotypes at Gazipur, Bangladesh. Intl. J. BioRes. 2(1); 30-35. January 2007
3. A.Akter, M.R. Karim, **M. U. Kulsum**, M.Z. Islam and H.M. Razzaque. 2007. Effect of GA3 and Different Harvesting Date on Siliqua Shattering of Mustard Variety BINA Sarisha-3. Int. J. Sustain. Agril. Tech. 3(2): 19-23.
4. S.S. Islam, M. H. Rahman, **M.U. Kulsum**, M.M. Khatun and M.A.A.khan. 2007. Efficacy of some Fungicides in Controling *Alternaria* Blight of Radish Seed Crop. Intl. J. BioRes. 3(4); 20-26.
5. M.H.Rahman, M.M. Khatun, **M.U. Kulsum** and M.J.Hasan. 2008. Influence of Transplanting time of Cytoplasmic Male Sterile (CMS) Line with Respect to Restorer Line on Hybrid Rice Seed Production. Intl. J. BioRes. 4(5); 20-23.
6. M.J.Hasan, **Umma Kulsum,** M.H.Rahman, A.Akter and S.H. Bulbul. 2010. Diversity Studies of 32 Maintainer Lines of Hybrid Rice (*Oryza sativa* L). Eco-friendly Agril. J. 3(3): 150-153.
7. M.J.Hasan, **Umma Kulsum,** M.H.Rahman, A.Akter and M.K.Hossain. 2009. Characterization of Floral Traits of BRRI Developed Component Lines of Hybrid Rice. Bangladesh J. Pl. Breed. Genet. 22(2): 47-50.
8. M.J.Hasan, **Umma Kulsum,** M.H.Rahman, A.Akter and A.K.M.Shamsuddin. 2009. Multivariate Analysis in Pollen Parent (restorer line) of Hybrid Rice(*Oryza sativa* L). Bangladesh J. Pl. Breed. Genet. 22(2): 63-66.

9. M.J.Hasan, **Umma Kulsum,** M.A.Miah, N.Haque and F.A.M.S. Azam. 2010. Genetic Variability, Correlation and Path Coefficient Analysis in Some Restorer Lines of Hybrid Rice (*Oryza sativa* L). Eco-friendly Agril. J. 3(5): 222-226.
10. M.H.Rahman, M Hazrat Ali, M.J.Hasan, **M.U. Kulsum** and M.M. Khatun.2010. Out Crossing Rate in Row Ratio of Restorer and CMS Lines for Hybrid Rice Seed Production. Eco-friendly Agril. J. 3(5):233-236. May 2010
11. A.Akter, M.J.Hasan, H. Begum, **M.U.Kulsum** and M.K. Hossain. 2010. Combining Ability Analysis in Rice (*Oryza Sativa* L.). Bangladesh J. Pl. Breed. Genet. 23(2): 07-13.
12. M.J.Hasan, **Umma Kulsum,** M.H.Rahman, M Hazrat Ali and A.W.Julfiquar. 2011. Genetic Variability of some Cytoplasmic male sterile Lines (CMS) of Rice (*Oryza Sativa* L.) Genotypes. Bangladesh J. Agril. Res. 36(2): 263-270. June
13. M.J. Hasan, **M.U. Kulsum**, A. Ansari, A.K. Paul and P.L. Biswas. Inheritance of fertility restoration involving wild abortive cytoplasmic male sterility system in rice (*Oryza sativa* L.) Bangladesh J.Pl. Breed.,Genet, 24 (1): 33-40, 2011.
14. M.J. Hasan, **M.U. Kulsum**, A. Akter, A.S.M. Masuduzzaman and M.S.Ramesha. Genetic variability and character association for agronomic traits in hybrid rice (*Oryza sativa* L.). Bangladesh J.Pl. Breed.,Genet, 24 (1): 45-51, 2011.
15. M. J. Hasan, **M. U. Kulsum**, M. S. Hossain, M. M. Billah and A. Ansari. Genotype-location interaction of indica rice using AMMI Model. Bangladesh J. Pl. Breed. Genet., 24(2): 09-18, 2011
16. M. J. Hasan, **Umma Kulsum**, M.H. Rahman, M. M.H. Chowdhury and A.Z.M.K.A Chowdhury. Genetic diversity analysis of parental lines for hybrid rice development in rice (*Oryza sativa* L.). Bangladesh J. Agril. Res. 37(4): 617-624, December 2012.
17. AZMKA Chowdhury, Luffur Rahman, MMH Chowdhury, **U Kulsum** and MJ Hasan. 2012. Performance and genetic variability studies of 14 *Brassica napus* cultivars. Eco-frienddly Agril. J. 5(10):202-207, October 2012
18. M. J. Hasan, **Umma Kulsum**, L F Lipi, A. Akter and M. R. Islam. Genetic variability in parental lines of exotic rice hybrids. Bangladesh J. Agri. 37(2): 109-116, 2012.
19. M. J. Hasan, **M. U. Kulsum**, M.H. Rahman, M. Nur-E-Elahi and A. K. M. Shamsuddin. Genetic diversity among restorer lines of hybrid rice (*Oryza sativa* L.). Bangladesh J. Pl. Breed. Genet., 25(2): 09-14, 2012
20. M. J. Hasan, **U Kulsum**, L F Lipi and AKM Shamsuddin. Combining ability studies for developing new rice hybrids in Bangladesh. Bangladesh J. Bot. 42(2): 215-222, December 2013
21. M. J. Hasan, **Umma Kulsum**, L F Lipi, A. Akter and AKM Shamsuddin. Evaluation of maintainer and restorer lines for yield and yield contributing traits of rice (*Oryza sativa* L.). Bangladesh J. Agril. Res. 38(4): 553-562, December 2013.
22. H. Begum, M.A.Motalib, A Akter, **M U Kulsum** and R K Roy. 2013. Wild species identification using morphological markers. Eco-friendly Agril. J. 6(01): 13-16, January 2013
23. M. Ali, M. A. Hossain, **M.U.Kulsum**, N. Sharma and M. A. K.Mian. Variability in quasi CMS lines of aromatic rice (Oryza sativa L.) in BC_3 generation and their phenotypic acceptability. Eco-friendly Agril. J. 6(05): 78-82, May 2013
24. M. J. Hasan, **Umma Kulsum**, MH Rahman, A. Akter and AKM Shamsuddin.2014. Comparative study of floral characteristics in the component lines of hybrid rice (*Oryza sativa* L.). Bangladesh J. Bot. 43(1): 1-8, June 2014

25. M.J. Hasan, **M.U. Kulsum**, M.Z. Ullah , M. Manzur Hossain and M. Eleyash Mahmud. Genetic diversity of some chili (Capsicum annuum L.) genotypes. Int. J. Agril. Res. Innov. & Tech. 4 (1): 32-35, June, 2014
26. M.J. Hasan, **M.U. Kulsum**, M.Z. Ullah , A.H.M.A. Rahman and M. Eleyash Mahmud. Combining ability analysis for yield and yield contributing traits in Tomato (*Solanum lycopersicum* L.) *Ann. Bangladesh Agric.* 18 (1): 27-36, 2014
27. Anowara Akter, M Jamil Hasan, **Umma Kulsum**, M H Rahman, M Khatun and M R Islam. 2015. GGE biplot analysis for yield stability in Multi-environment trials of promising hybrid rice (*Oryza sativa* L.). Bangladesh Rice J. 19(1): 1-8.
28. M J Hasan, M H Rahman, A Akter, **M U Kulsum** and A Islam. 2015. Assessment of appropriate GA_3 rate and row ratio for better seed yield of a promising hybrid rice variety. Bangladesh Rice J. 19(1): 57-61. June 2015
29. Anowara Akter, M Jamil Hasan, **M U Kulsum**, M H Rahman, A K Paul, L F Lipi and Salma Akter. 2015. Genotype × Environment Interaction and Yield stability analysis in hybrid rice (*Oryza sativa* L.) By AMMI biplot. Bangladesh Rice J. 19(2): 83-90.
30. M J Hasan, Umma Kulsum, AKM Shamsuddin and MS Islam. 2015. Genetic diversity among maintainer lines of rice (Oryza sativa L.) based on cluster analysis. Bangladesh J. Pl.Breed. Genet., 28(1): 01-07, 2015
31. M Rafiqul Islam, M A Khaleque Mian, M Shamsher Ali, M J Hasan and **M U Kulsum**. 2016. Analysis of genetic purity of rice hybrids and their parental lines using microsatellite markers. Bangladesh J. Bot. 45 (2): 397-404.
32. M. J. Hasan, M. U. Kulsum, M. H. Rahman, M. H. Ali and M. E. Mahmud. 2013-2015. Genetic variability, Correlation and path analysis for yield related traits in hybrid rice. Bangladesh J.Agri. 38-40: 91-96.
33. LF Lipi, MJ Hasan, A Akter, PL Biswas, MU Kulsum, A Ansari and MZ Islam.2018. Variability assessment of different maintainer lines for hybrid rice development based on qualitative traits. Bangladesh Rice J. 22(2): 79-86, 2018
34. LF Lipi, MJ Hasan, MU Kulsum, A Akter, H Rahman and S Akter. 2018. Test hybrids (*Oryza sativa* L.) evaluation for yield and yield associated traits using augmented design. Bangladesh J. Agri. 2016-2018, 41-43: 41-48.
35. M. J. Hasan, M.U. Kulsum, E. Hossain and N.M.F. Rahman. 2018. Stability of hybrid rice genotypes for grain and maturity. Bangladesh J. Agril. Res. 43(1): 99-108. March 2018.
36. M J Hasan, M U Kulsum AK Paul, PL Biswas, MH Rahman, A Ansari, A Akter, LF Lipi, SJ Mohiuddin and M Zahid-Al-Rafiq. 2018. Assessment of variability for floral characteristics and out-crossing rate in CMS lines of hybrid rice. Bangladesh Rice J. 22(2): 31-39, 2018.
37. Anowara Akter, MJ Hasan,MA Latif, MU Kulsum, LP Biswas, MH Rahman, RR majumder, LF Lipi, MR Quddus, F Akter and A Ara. 2019. Genetic variability, heritability, correlation and path coefficient studies for yield and yield components of some promising hybrids. Bangladesh Rice J. 23(2): 27-34, 2019
38. Md JAMIL HASAN, M UMMA KULSUM, SHAIKH JAFAR MOHOUDDIN AND MD ZAHID AL-RAFIQ. 2019. Genetic interrelationship among yield and its components in rice hybrids. Bangladesh J. Bot. 48(4): 1207-1213, December 2019.

II) **Short Communication (1)**

- As co-author (1)

1. M J Hasan, M H Rahman, A Akter and **M U Kulsum**.2015. Optimization of GA3 and row

ratio for seed yield of a promising hybrid rice varity. Bangladesh J. Bot. 44(4): 671-674.

B. Books/Monograph/Bulletins

(a) **Books (Professional)**

-As Co-author (1)

1. Masuduzzaman, A. S. M., A. Akter, M. K. Hossain, P. L. Biswash, M. J. Hasan, A.Ansari, **M.U. Kulsum**, M. H. Rahman and A. K. Paul. 2010. Hybrid rice cultivation and seed production mechanism. Bangladesh Rice Research Institute. Mita printing, Baddha, Dhaka-1212.

c) **Bulletins**

-As Co-author (12)

1. A.W.Julfiquar, M Hazrat Ali, M.J.Hasan and **M.U.Kulsum**, 2009. Cultivation Practice of BRRI Hybrid dhan 2. Bangladesh Rice Research Institute, Dynamic printers, 53/1, Arambag, Dhaka.
2. M. J. Hasan, A. K. Paul, P. L. Biswash, M. K. Hossain, **M.U. Kulsum,** A. Ansari, A. Akter and M. H. Rahman. 2017. Cultivation practice in BRRI hybrid dhan4. BRRI.
3. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুমলছু,** ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান২-এর চাষাবাদ পদ্ধতি।
4. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৩-এর চাষাবাদ পদ্ধতি।
5. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৪-এর চাষাবাদ পদ্ধতি।
6. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৫-এর চাষাবাদ পদ্ধতি।
7. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৬-এর চাষাবাদ পদ্ধতি।
8. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান২-এর বীজ উৎপাদন প্রযুক্তি/ কলাকৌশল।
9. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৩-এর বীজ উৎপাদন প্রযুক্তি/ কলাকৌশল।
10. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৪-এর বীজ উৎপাদন প্রযুক্তি/ কলাকৌশল।
11. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৫-এর বীজ উৎপাদন প্রযুক্তি/ কলাকৌশল।
12. ড. মো: জামিল হাসান, আশীষ কুমার পাল, ড. প্রিয় লাল বিশ্বাস, **মোসা: উম্মে কুলছুম**, ড. আফছানা আনছারী, আনোয়ারা আক্তার, মো: হাফিজার রহমান, লায়লা ফেরদৌসী লিপি। ২০১৮, ব্রি হাইব্রিড ধান৬-এর বীজ উৎপাদন প্রযুক্তি/ কলাকৌশল।

C. Seminar/Workshop /Symposium/Proceedings - International

(a) Seminar *(1)*

1. A Seminar on "Exploitation and Introgression of Submergence Tolerance in Component Lines of Hybrid Rice". 05 September, 2019 at BRRI auditorium, Gazipur

(b) Proceedings

-As Co-author (National) (3)

1. A.W. Julfiquar**,** M.J. Hasan, **U.Kulsum**, M.H. Rahman and M.H. Ali. Development of hybrids of rice in public sector research. Souvenir Bangladesh Seed Conference and Fair. 28-30 April, 2009. Bangladesh-China Friendship Conference Centre, Dhaka.
2. A.W. Julfiquar, M.J. Hasan, **U.Kulsum**, M.H. Rahman, and M.H. Ali. Progress of hybrid rice research and development in Bangladesh. Proceeding of the International Conference on Plant Breeding and Seed for food security. Pp 38-48. 10-12 March, 2009, BARC, Dhaka, Bangladesh
3. M.J. Hasan, **U.Kulsum**, M.H. Rahman, M.H. Ali and and A.W. Julfiquar. Genetic variability in some cytoplasmic male sterile lines (CMS) of hybrid rice. Proceeding of the International Conference on Plant Breeding and Seed for food security. Pp 169-173. 10-12 March, 2009, BARC, Dhaka, Bangladesh, 34.

-As Co-author (International) (2)

1. A.W. Julfiquar**,** M.J. Hasan**, Umma Kulsum** and M.H. Ali. Hybrid rice in Bangladesh. Accelerating hybrid rice development. IRRI 2010, pp. 551-567.
2. Helal Uddin Ahmed, Md. Jamil Hasan, Ashish Kumar Paul, Priya Lal Biswas, **Umma Kulsum**, Afsana Ansari, Anwara Akter, and Hafizar Rahman. Country report: hybrid rice in Bangladesh. Proceeding of the 6th International Hybrid Rice Symposium held at Hyderabad, India on 10-12 September, 2012.

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c) Member, Bangladesh Association of Advanced Science (BAAS)
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f) Life member, Bangladesh Society for Bioinformatics
g) Member, Agronomy Society
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Referees

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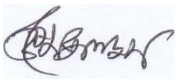
I do hereby declare that the above statements are correct and complete to the best of my knowledge.



Mosammat Umma Kulsum Date: 13.06.2023