Curriculum Vitae of

Reza Mohammad Emon

Name	:	Reza Mohammad Emon
Nationality	:	Bangladeshi
Date of Birth	:	01 March 1976
Religion	:	Islam
Marital Status	:	Married
Mailing Address	:	Principal Scientific Officer and Head Biotechnology Division, Bangladesh Institute of Nuclear Agriculture (BINA), BAU campus, Mymensingh-2202, BANGLADESH
Phone	:	+88– 091-67834 (Office)
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Email Address	:	emonbina@yahoo.com

Academic Qualification and Experience:

Name of the Examinations	Board/University	Division/ Class	Year of Degree obtained
S.S.C (Science)	Dhaka Board	First Division	1990
H.S.C (Science)	Dhaka Board	First Division	1992
B.Sc.Ag (Hons)	Bangladesh Agricultural University, Mymensingh	2nd Class	2002
MS in Agronomy	Bangladesh Agricultural University, Mymensingh	2nd Class	2004
Ph.D. in Biotechnology	Bangladesh Agricultural University, Mymensingh	Successful	2012
Post-doctorate	China National Rice Research Institute (CNRRI), China	Successful	2015

Recent Employment Record:

Organization	Year of Service	
Bangladesh Institute of Nuclear Agriculture (BINA)	15 July 2004	To date

Title of MS thesis:

Effects of Fertilizer Management on the performance of four High Yield Potential Rice Varieties.

Title of Ph.D. dissertation:

Molecular Marker based Characterization and Genetic Diversity of Wheat Genotypes in relation to Boron Efficiency.

Title of Postdoctoral dissertation:

Genetic analysis to determine the appearance quality and yield traits in rice.

Publication (46):

(a) Scientific journal (44)

(i) Full paper (42)

Reputed International Journal

Principal author: 9 (Nine)

1. **Reza Mohammad Emon. 2025.** Molecular markers, Marker assisted selection for rice in relation to biotic and abiotic stress. Discover Agriculture. Accepted 13 June 2025. https://doi.org/10.1007/s44279-025-00265-w.

2. **Reza Mohammad Emon** and Mst. Khadija Khatun. **2025**. BINA til5: a high yielding light brown color sesame mutant variety. Discover Plants. 144(2): https://doi.org/10.1007/s44372-025-00223-2.

3. **Reza Mohammad Emon** and Mst. Khadija Khatun. **2025**. Development of Low Erucic Acid Content Rapeseed Mutant Variety BINA Sarisha12. Journal of Advances in Biology & Biotechnology. 28(2): 117-128. DOI: https://doi.org/10.9734/jabb/2025/v28i21974. https://pr.sdiarticle5.com/review-history/130141.

4. **Reza M. Emon**, Md. N. Sakib, Mst. K. Khatun, Md. A. Malek, Md. S. Haque, Md. Amirul Alam. **2023**. Microsatellite marker assisted molecular and morpho-physiological genetic diversity assessment in 38 genotypes of sesame (*Sesamum indicum* L.). Journal of Phytology. 15: 43-51. DOI: 10.25081/jp.2023.v15.7902. https://updatepublishing.com/journal/index.php/jp.

5. **Reza M. Emon**, Mirza M. Islam, Jyotirmoy Halder & Ye-Yang Fan. **2015**. Genetic diversity and association mapping for salinity tolerance in Bangladeshi rice landraces. The Crop Journal. 3(5): 440-444.

6. **Reza M. Emon**, Glenn B. Gregorio, Adedze Y. M. Nevame, Mirza M. Islam, M. R. Islam & Fan Ye-Yang. **2015**. Morpho-Genetic Screening of the Promising Rice Genotypes under Salinity Stress. Journal of Agricultural Science. 7(5): 94-111.

7. **Reza Mohammad Emon**, Adedze Yawo Mawunyo Nevame, Perry J. Gustafson, Md. Shahidul Haque, M. Jahiruddin, Mirza Mofazzal Islam. **2015**. Morpho-genetic study and detection of boron toxicity tolerance of wild wheat genotypes. Journal of Applied Biotechnology. 3(2): 41-60.

8. **R.M. Emon**, K. Gustafson, P.J. Bebeli, M. Jahiruddin, M. S. Haque, K. Ross and J.P. Gustafson. **2012**. Screening Aegilops-Triticum Species for Boron Tolerance. Afr. J. Agric. Res. 7(12): 1931-1936.

9. **R.M. Emon**, J.P. Gustafson, H. Nguyen, T. Musket, M. Jahiruddin, M.A. Islam, M.S. Haque, M.M. Islam, S.N. Begum and M.M. Hassan. **2010**. Molecular marker based characterization and genetic diversity of wheat genotypes in relation to boron use efficiency. Indian J. Genet., 70(4): 339-348.

Co-author: 16 (Sixteen)

1. Khatun, Mst. Khadija, Md. Abdul Malek, **Reza Mohammad Emon**, Md. Saikat Hossain Bhuiyan, and Shahinur Islam. **2024**. "Mutation Breeding for Genetic Improvement and the Development of High Yielding Mutant Variety of Sesame (Binatil-3)". Journal of Advances in Biology & Biotechnology 27 (12):752-61. https://doi.org/10.9734/jabb/2024/v27i121823.

2. Alam, M.A., Bhuiyan, M.S.H., Malek, M.A., **Emon, R.M.**, Khatun, K. and Kobir, H. **2023**. Qualitative and Quantitative Traits Associate Genetic Variability of Soybean (*Glycine max*) Mutants for Expedited Varietal Improvement Program. Legume Research. doi:10.18805/LRF-735.

3. Mohammad Abdul Awal Khan, Shouwei Zhang, **Reza Mohammad Emon**, Fulu Chen, Wenwen Song, Tingting Wu, Shan Yuan, Cunxiang Wu, Wensheng Hou, Shi Sun, Yong-Fu Fu, Bingjun Jiang, Tianfu Han. **2022.** CONSTANS Polymorphism Modulates Flowering Time and Maturity in Soybean. Front. Plant Sci. 13:817544. doi: 10.3389/fpls.2022.817544.

4. M.A. Malek, **R.M. Emon**, M.K. Khatun, M.S.H. Bhuiyan, Adedze Yawo Mawunyo Nevame, Md. Amirul Alam. **2022**. Binasoybean-6: A High Yielding Mutant Soybean Variety Developed through Sustainable Mutation Breeding. Legume Research. 45 (2): 143-148. DOI:10.18805/LRF-651.

5. M.S.H. Bhuiyan, M.A. Malek, **R.M. Emon**, M.K. Khatun, Mohammad Moneruzzaman Khandaker, Md. Amirul Alam. **2022**. Increased yield performance of mutation induced Soybean genotypes at varied agro-ecological conditions. Brazilian Journal of Biology, 2024, vol. 84, e255235 | https://doi.org/10.1590/1519-6984.255235.

6. Md. Saikat Hossain Bhuiyan, Md. Abdul Malek, **Reza Mohammad Emon**, Mst. Khadija Khatun. **2021**. Yield performance of radiation induced rapeseed mutants at M_8 generation. World Journal of Biology and Biotechnology. 6 (3): 31-36. https://dx.doi.org/10.33865/wjb.006.03.0448.

7. Ahmed, F., Hasna, M.K. and **Emon, R.M. 2021**. Ecofriendly Disease Management of Lentil (*Lens culinaris*) Seedlings. Agricultural Sciences. 12: 1555-1564. https://doi.org/10.4236/as.2021.1212099.

8. Hossain MA, Islam MM, **Emon RM**, Rana MS, Hossain MA, Uddin MI, Malek MA, Khan NA and Nuruzzaman M. **2020**. Microsatellite-Based DNA Fingerprinting and Genetic Analysis of Some Selected Aus Rice (*Oryza sativa* L.) Genotypes. *Ann Agric Crop Sci*. 5(3): 1066.

9. Farid Ahmed, Md. Golam Rabbani, Md. Rafiqul Islam, Mostafezur Rahman, Md. Abdul Malek, Mirza Mofazzal Islam and **Reza Mohammad Emon**. **2019**. Molecular characterization of some brinjal genotypes (*Solanum melongena* L) using simple sequence repeat (SSR) markers. *African Journal of Agricultural Research*. Vol. 14(35), pp. 1980-1989. DOI: 10.5897/AJAR2019.14449.

10. Md Razu Ahmed, Md Monirul Islam, **Reza Mohammad Emon**, Md Shohel Rana, Mohammad Shaidul Haque, Md Nuruzzaman. **2019**. DNA Fingerprinting and Diversity Analysis of Some Aus Rice Landraces. *Indian Journal of Science and Technology*. Vol 12(28), DOI: 10.17485/ijst/2019/v12i28/142397.

11. Adedze Yawo Mawunyo Nevame, Lu Xia, Chofong Gilbert Nchongboh, Muhammad Mahmudul Hasan, Md. Amirul Alam, Li Yongbo, Zhang Wenting, He Yafei, **Reza Mohammad Emon**, Mohd Razi Ismail, Andrew Efisue, Sun Gang, Li Wenhu, and Si Longting. **2018**. Development of a New Molecular Marker for the Resistance to Tomato Yellow Leaf Curl Virus. *BioMed Research International*. Article ID 8120281, 10 pages. https://doi.org/10.1155/2018/8120281.

12. A. Y. M. Nevame, **R. M. Emon**, M. A. Malek, M. M. Hasan, Md. Amirul Alam, Farrah Melissa Muharam, Farzad Aslani, M. Y. Rafii, M. R. Ismail. **2018**. Relationship between High Temperature and Formation of Chalkiness and Their Effects on Quality of Rice. *BioMed Research International*. Article ID 1653721, 18 pages. https://doi.org/10.1155/2018/1653721.

13. Hongchang Jia*, Yong Zhang*, Shiyan Tian*, **Reza Mohammad Emon***, Xingyong Yang, Hongrui Yan, Tingting Wu, Wencheng Lu, Kadambot H.M. Siddique, Tianfu Han. **2017**. Reserving winter snow for the relief of spring drought by film mulching in northeast China. *Field Crops Research* 209: 58–64. https://doi.org/10.1016/j.fcr.2017.04.011.

14. Adedze Yawo Mawunyo Nevame, **Reza Mohammad Emon**, Tondi Yacouba Nassirou, Gandeka Mamadou, Aboubakar Demba Samoura. **2014**. The more knowledge about heterotic loci is a pre-requisite for enhancing grain yield potential in distant crosses. *IJAAR*. 5(5): 200-215.

15. M.M. Islam, S.N. Begum, **R.M. Emon**, J. Halder and A.C. Manidas. **2012**. Carbon isotope discrimination in rice under salt affected conditions in Bangladesh. *IAEA-TECDOC-1617*: 7-23.

16. S.K. Bhowmik, M.M. Islam, **R.M. Emon**, S.N. Begum, A. Siddika and S. Sultana. **2007**. Identification of Salt Tolerant Rice Cultivars Via Phenotypic and Marker-Assisted Procedures. *Pak. J. Biol. Sci.*, 10(24): 4449–4454.

Other International & National Journal

Principal author: 1 (One)

1. **R.M. Emon**, G.M. Ahmed, A.K. Hasan and N. Islam. **2004**. Effect of Fertilizer Management on the Performance of Transplant aman Rice Varieties. Bangladesh J. Prog. Sci. & Tech. 2(2):201–204.

Co-author: 16 (Sixteen)

1. Rahman, M., Malek, M., **Emon, R**., Hannan, A., & Sagor, G. **2021**. Morphological and Molecular Characterization of Soybean (*Glycine max* L.) Genotypes under Salt

Stress. Annals of Bangladesh Agriculture, 24(2), 33–46. https://doi.org/10.3329/aba.v24i2.55782.

2. M.S.H. Bhuiyan, **R.M. Emon**, M.K. Khatun, M.A. Malek and N.A. Khan. **2021**. Evaluation of induced genetic variability in gamma ray irradiated rapeseeds mutants. Bangladesh J. Nuclear Agric. 35: 1-8.

3. Md. Abdul Malek, **Reza Mohd. Emon**, Khadija Khatun and Md. Soikot Hossain Bhuiyan. **2020**. Yield Performance of Rapeseed Mutants at M8 generation. Bangladesh J. of Nuclear Agric. 33 & 34: 73-82.

4. M. S. Rahman, M. A. Malek, **R. M. Emon,** A. Hannan and G. H. M. Sagor. **2020.** Morphological and molecular characterization of soybean (*Glycine max* L.) genotypes under salt stress. Ann. Bangladesh Agric. 24 (2): 33-46. www.doi.org/10.3329/aba.v24i2.55782.

5. M Moniruzzaman, RM Saiem, **RM Emon**, MS Haque, NR Saha, MA Malek, K Khatun. **2019**. Genetic diversity analysis of soybean genotypes using SSR markers for salinity tolerance. Progressive Agriculture 30 (1): 1-9.

6. M.A. Malek, M.K. Khatun, M.I. Uddin and **R.M. Emon**. **2014**. Promising soybean lines: Evaluation and selection through multi location yield trial. Bangladesh J. Nuclear Agric. 30: 21-28.

7. S. Islam, M.S. Haque, **R.M. Emon**, M.M. Islam and S.N. Begum. **2012**. Molecular characterization of wheat (*Triticum aestivum* L.) genotypes through SSR markers. Bangladesh J. Agril. Res. 37(3): 389-398.

8. M.M. Islam, G.B. Gregorio, S.N. Begum, **R.M. Emon**, A.C. Manidas and J. Halder. **2009**. QTL Mapping and Development of Salt Tolerant Rice Variety through Marker-Assisted Selection. Proceedings of the International Conference on Plant Breeding and Seed for Food Security. Dhaka. P. 109-120.

9. S.N. Begum, M.M.R. Arif, M.M. Islam, J. Halder, A.C. Manidas and **R.M. Emon**. **2009**. Molecular Characterization and genetic relationship among chickpea genotypes using RAPD markers. Proceedings of the International Conference on Plant Breeding and Seed for Food Security. Dhaka. P. 129-136.

10. M.M. Islam, M.N.H. Mondol, **R.M. Emon**, S.N. Begum, S.K. Bhowmik, and A.K. Hasan, **2007**. Screening of Salt tolerant Rice Genotypes using SSR Markers at Seedling Stage. Bangladesh J. Prog. Sci. & Tech. 5(1):45–48.

11. S. Sultana, S.N. Begum, M.M. Islam, A. Siddika, S.K. Bhowmik and **R.M. Emon**. **2007**. Identification of Salt tolerant Rice Genotypes via Microsatellite Markers at the Seedling Stage. Bangladesh J. Seed Sci. & Tech. 11(1&2):41–47.

12. M.L. Hossain, M.M. Islam, **R.M. Emon**, S.N. Begum, A.Q. Khan and S.K. Bhowmik. **2007**. DNA Fingerprinting and Genetic Diversity of Rice Germplasm via Microsatellite Markers. Bangladesh J. Prog. Sci. & Tech. 5(1):49–52.

13. M.M. Islam, S.N. Begum, **R.M. Emon**, S.K. Bhowmik and M.S. Ali. **2007**. Efficiency of Microsatellite Markers for Evaluation of Salt Tolerance in Rice Germplasm. Bangladesh J. Crop. Sci. 18(1):73–79.

14. S.M.H.A. Rabbi, S.N. Begum, M.S. Haque, M.M. Islam and **R.M. Emon**. **2007**. Identification of Grain Quality of Rice using Phenotypic Characters and Microsatellite Markers. Bangladesh J. Crop. Sci. 18(1):81–88.

15. M.M. Islam, A.K. Hasan, **R.M. Emon**, M.A. Islam and A.K.M.R. Islam. **2006**. Yield Performance of Transplant Aman Rice (cv. BRRI dhan32) as Affected by Planting Method and Nitrogen Level. J. Bangladesh Agric. Sci. Technol., 3(1 & 2):105–108.

16. S.R. Mozumder, M.M., Islam, **R.M. Emon** and S.S. Roy. **2005**. Effect of Seedling Raising Techniques, Seedling Age and Time of Nitrogen Application in Rice Cultivation. Bangladesh J. Environ. Sci. 11(1):86–89.

(ii) Short Communication (2)

Principal author: 01 (One)

1. **R.M. Emon,** M.K. Khatun, M.A. Malek and S.H. Bhuiyan. 2023. Promising Salt Tolerant Soybean Mutants Developed Through Gamma Ray Irradiation. Bangladesh J. Nuclear Agric, 37(1): 101-109. DOI: https://doi.org/10.3329/bjnag. v37i1.69933.

Co-author: 01 (One)

1. M.K. Khatun, **R.M. Emon,** M.A. Malek, S.H. Bhuiyan and S.A. Mahmud. 2023. Selection of Sesame Mutants for Higher Yield and Yield Contributing Traits Through Gamma Ray Irradiation. Bangladesh J. Nuclear Agric, 37(1): 91-100. DOI: https:// doi.org/10.3329/bjnag. v37i1.69932.

(b) Book Chapter (2)

1. **Reza Mohammad Emon** and Golam Jalal Ahammed. **2020**. Germplasm and Genetic Diversity Studies in Rice for Stress Response and Quality Traits. A book chapter in a Springer Book: 'Rice Research for Quality Improvement: Genomics and Genetic Engineering'. Volume1: Breeding Techniques and Abiotic Stress Tolerance. Published by **Springer Nature** Singapore Pte Ltd. pp 47-60. ISBN 978-981-15-4119-3 ISBN 978-981-15-4120-9 (eBook). https://doi.org/10.1007/978-981-15-4120-9.

2. Akbar Hossain, Sagar Maitra, Sukamal Sarker, Abdullah Al Mahmud, Zahoor Ahmad, **Reza Mohammad Emon**, Hindu Vemuri, Md Abdul Malek, M. Ashraful Alam, Md Atikur Rahman, Md Jahangir Alam, Nasrin Jahan, Preetha Bhadra, Debojyoti Moulick, Saikat Saha, Milan Skalicky, and Marian Brestic. **2023**. Aluminium Stress in Plants: Consequences and Mitigation Mechanisms. © 2023 **John Wiley & Sons** Ltd. Published 2023 by John Wiley & Sons Ltd. Pp 1-46.

Technology developed: 12 (twelve) crop varieties

As an Associate Investigator, I released **9 (nine) varieties** named Binadhan-8, Binadhan-10, Binadhan-11, Binadhan-12, Binatil-4, Binasoybean-5, Binasoybean-6, Binasoybean-7, Binasharisha-11 and as a Principal Investigator, I released **3 (three)** varieties named as BINA til5, BINA til6 and BINA sarisha12 using nuclear and other advanced breeding techniques.

(C) <u>Books/Monographs/Bulletins</u>

Principal author: 03 (Three)

1. **R. M. Emon**. 2015. Genetic analysis to determine the appearance quality and yield traits in rice. Postdoctoral Thesis. China National Rice Research Institute (CNRRI), Hangzhou, China.

2. **R. M. Emon**. 2012. Molecular Marker based Characterization and Genetic Diversity of Wheat Genotypes in relation to Boron Efficiency. Ph.D. Thesis. Bangladesh Agricultural University, Mymensingh.

3. **R. M. Emon**. 2004. Effects of Fertilizer Management on the performance of four High Yield Potential Rice Varieties. M.S. Thesis. Bangladesh Agricultural University, Mymensingh.

(d) <u>Seminar/Workshop/Symposium Proceedings</u>

Principal author: 03 (Three)

1. **Reza M. Emon**, Glenn B. Gregorio, Adedze Y. M. Nevame, Mirza M. Islam, M. R. Islam & Fan Ye-Yang. 2018. Morpho-Genetic Screening of the Promising Rice Genotypes under Salinity Stress. Poster presented at the FAO/IAEA International Symposium on Plant Mutation Breeding and Biotechnology. 27-31 August 2018, Vienna, Austria.

2. **R. M. Emon** and M. A. Malek. 2018. Selection of promising soybean mutants through multi-location trials. Poster presented at the FAO/IAEA International Symposium on Plant Mutation Breeding and Biotechnology. 27-31 August 2018, Vienna, Austria.

3. **Reza M. Emon**, Mirza M. Islam, Jyotirmoy Halder & Yeyang Fan. 2016. Genetic diversity and association mapping for salinity tolerance in Bangladeshi rice landraces. Poster presented at the 7th International Crop Science Congress. 14-19 August 2016, Beijing, China.

Co-author: 16 (Sixteen)

1. M. M. Islam, A. M. Ismail, S. N. Begum, **R. M. Emon**, J. Halder and A. C. Manidas. 2009. Screening of salt tolerant rice lines using carbon isotope discrimination

technique. Poster presentation in 6th International Rice Genetic Symposium. 16-19 November 2009, Manila Hotel, Manila, Philippines.

2. M. M. Islam, S. N. Begum and **R. M. Emon**. 2005. Selection for greater agronomic water use efficiency in rice under salt affected conditions. In: Selection for greater agronomic water use efficiency in Wheat and Rice using Carbon Isotope Discrimination (CRP D1.20.08). Report of 2nd FAO/IAEA Research Coordination Meeting. 21-25 November, 2005, Mekness, Morocco. IAEA-311-D1-RC-943.2. Working Material Produced by the IAEA, Vienna, Austria. 25 p.

3. M. M. Islam, A. M. Ismail, S. N. Begum and **R. M. Emon**. 2007. Selection for greater agronomic water use efficiency in rice under salt affected conditions. In: Selection for greater agronomic water use efficiency in Wheat and Rice using Carbon Isotope Discrimination (CRP D1.20.08). Report of 3rd FAO/IAEA Research Coordination Meeting. 4-8 June 2007, Yinchuan, Ninxia, China.

4. S. K. Bhowmic, M. M. Islam, **R. M. Emon**, S. N. Begum, A. Siddika and S. Sultana. 2007. Evaluation of salt tolerance in rice using phenotypic and marker assisted selection. Conference on promotion of Biotechnology in Bangladesh: National and International perspectives, 6-8 April, 2007. Dhaka.

5. M. M. Islam, S. N. Begum, **R. M. Emon**, A. C. Manidas and J. Halder. 2009. Report on speeding the development of salt tolerant rice varieties through marker assisted selection and their dissemination in salt affected areas of Bangladesh (GCP funded project).

6. M. M. Islam, S. N. Begum, **R. M. Emon**, A. C. Manidas and J. Halder. 2009. Report on stress tolerant rice for poor farmers in Africa and South Asia (BMGF funded project).

7. M. M. Islam, A. M. Ismail, S. N. Begum and **R. M. Emon**. 2008. Selection for greater agronomic water use efficiency in wheat and rice using Carbon Isotope Discrimination (CRP D1.20.08). Report of 4rd and final Research Coordination Meeting. 3-7 November 2008, Vienna International Center, Vienna, Austria.

8. S. K. Paul, M. M. Islam, S. N. Begum, K. S. Rahman and **R. M. Emon**. 2007. Evaluation of salt tolerance in F_2 rice population of Binadhan-5 x Bawoijhak via microsattelite markers. 7th Biennial Conference on Plant Breeding and Genetics society of Bangladesh, 26 May 2007. Gazipur.

9. S. K. Bhowmik, M. M. Islam, S. N. Begum, M. S. Haque, **R. M. Emon** and M. A. Azam. 2007. Salinity screening of rice genotypes at the seedling stage using phenotypic and marker assisted selection. 7th Annual Conference on Plant Breeding and Genetics society of Bangladesh, 26 May 2007. Gazipur.

10. M. M. Islam, A. M. Ismail, S. N. Begum and **R. M. Emon**. 2008. Carbon isotope discrimination and marker-assisted selection as tool to improve salinity tolerance in rice. International Biotechnology conference: Biotechnology for food security, renewable energy and poverty alleviation. 7-8 June 2008, BARC, Dhaka.

11. M. M. Islam, G.B. Gregorio, S. N. Begum, **R. M. Emon**, A. C. Manidas and J. Halder. 2009. QTL mapping and development of salt tolerant rice vaiety through marker-

assisted selection. International Conference on Plant Breeding and Seed for Food Security. 10-12 March 2009, BARC, Dhaka.

12. S. N. Begum, M. M. R. Arif, M. M. Islam, J. Halder, A. C. Manidas and **R. M. Emon**. 2009. Molecular Characterization and Genetic Relationship among Chickpea Genotypes using RAPD Markers. International Conference on Plant Breeding and Seed for Food Security. 10-12 March 2009, BARC, Dhaka.

13. M.L. Hossain, M.M. Islam, S.N. Begum, **R.M. Emon**, S.K. Bhowmik and Lutful Hassan. 2007. DNA fingerprinting and genetic diversity of rice germplasm via microsatellite markers. Plant tissue culture and biotechnology Conference. 9-10 March, 2007, Dhaka.

14. M.N.H. Mondol, S.N. Begum, M.M. Islam, **R.M. Emon**, S.K. Bhowmik and M.S. Haque. 2007. Screening of salt tolerant rice mutants/varieties using SSR markers at seedling stage. Plant tissue culture and biotechnology Conference. 9-10 March, 2007, Dhaka.

15. A.Q. Khan, M.M. Islam, M.S. Haque, S.N. Begum and **R.M. Emon**. 2007. Molecular marker based characterization and genetic diversity of rice using SSR and RAPD. Plant tissue culture and biotechnology Conference. 9-10 March, 2007, Dhaka.

16. M.M. Islam, M.S. Ali, S.N. Begum, **R.M. Emon**, S.K. Bhowmik and M.A. Azam. 2007. Identification of microsatellite markers for salt tolerance in rice. Plant tissue culture and biotechnology Conference. 9-10 March, 2007, Dhaka.

Report:

1. M.M. Islam, S.N. Begum and **R.M. Emon.** 2005. Selection for greater agronomic water use efficiency in rice under salt affected conditions. In: Selection for Greater Agronomic Water Use Efficiency in Wheat and Rice Using Carbon Isotope Discrimination (CRP D1.20.08). Report of 2nd FAO/IAEA Research Coordination Meeting, 21-25 November, 2005, Meknes, Morocco. IAEA-311-D1-RC-943.2. Working Material Produced by the IAEA, Vienna, Austria. 25 p.
2. M.M. Islam, S.N. Begum and **R.M. Emon**. 2007. Selection for greater agronomic water use efficiency in rice under salt affected conditions. In: Selection for Greater Agronomic Water Use Efficiency in Wheat and Rice Using Carbon Isotope Discrimination (CRP D1.20.08). Report of 3rd FAO/IAEA Research Coordination Meeting, 4-8 June, 2007, Yinchuan, Ninxia, China.
3. M.M. Islam, S.N. Begum and **R.M. Emon**. 2008. Selection for greater agronomic water use efficiency in rice under salt affected conditions. In: Selection for Greater Agronomic Water Use Efficiency in Wheat and Rice Using Carbon Isotope Discrimination (CRP D1.20.08). Report of Final FAO/IAEA Research Coordination Meeting, 3-7 November, 2008, Vienna, Austria.

Fellowship:

1. Attended "**Mutation breeding in oil crops",** held at Chinese Academy of Agricultural Sciences (CAAS), China during June 20, 2016 to December 15, 2016. Sponsored by Bangladesh Institute of Nuclear Agriculture (BINA), Bangladeah and Chinese Academy of Agricultural Sciences (CAAS), China.

2. Attended "**Screening at different growth stages of tolerant, medium tolerant and sensitive rice varieties against salinity",** held at International Rice Research Institute (IRRI), Philippines during September 01, 2012 to February 21, 2013. Sponsored by International Atomic Energy Agency (IAEA), Vienna, Austria.

3. Attended "**Research for Genotype Screening using Molecular Markers**", held at China National Rice Research Institute (CNRRI), Hangzhou, **China** during March 6 to April 30, 2012. Sponsored by the science and technology project of Zhejiang province, China.

4. Attended "**Research for Molecular Marker-Assisted Techniques**", held at National Center for Soybean Biotechnology & Division of Plant Sciences. University of Missouri, **USA** during 15 May to 14 August, 2009. Sponsored by USDA project, Bangladesh Agricultural University, Mymensingh, Bangladesh.

Experience gathered:

1. Working as Principal Scientific Officer and divisional head in Biotechnology Division of Bangladesh Institute of Nuclear agriculture, BAU Campus, Mymensingh-2202.

2. Worked on biotechnology research and learned techniques on marker assisted selection (MAS).

3. Principal Investigator: Varietal improvement of rice, rapeseed-mustard, sesame, soybean and sunflower using mutation breeding and biotechnological approach for developing salinity, drought, submergence tolerant variety; disease/insect resistant; and fine grain quality with aroma with acceptable yield, BINA, Mymensingh, Bangladesh.

Name of Courses taken with Ph.D. research:

Molecular Genetics; Gene Expression & Regulation; Molecular Markers and Diagnostics and Molecular Techniques

Seminar given (Abroad):

University of Missouri, Columbia, USA on August 6, 2009 (Research Program areas at BINA and QTL Mapping of Boron Efficiency in Wheat).

China National Research Institute (CNRRI), China on March 8, 2012 (Rice Development in Bangladesh)

International Rice Research Institute (IRRI), Philippines on February 18, 2013 (Morpho-Physio-Molecular characterization of salinity tolerant, medium tolerant and sensitive rice genotypes)

Participation in national and International various seminars, symposia, workshops and meetings.

Poster presentation (Abroad):

1. **R. M. Emon** and M. A. Malek. 2018**.** Selection of Promising Soybean Mutants Through Multi-Location Trials. Poster presented at the FAO/IAEA Symposium on Plant Mutation Breeding and Biotechnology on 27-31 August, 2018. Vienna, Austria.

2. **Reza M. Emon**, Glenn B. Gregorio, Adedze Y. M. Nevame, Mirza M. Islam, M. R. Islam & Fan Ye-Yang. 2018. Morpho-Genetic Screening of the Promising Rice Genotypes under Salinity Stress. Poster presented at the FAO/IAEA Symposium on Plant Mutation Breeding and Biotechnology on 27-31 August, 2018. Vienna, Austria.

3. **Reza M. Emon**, Mirza M. Islam, Jyotirmoy Halder & Ye-Yang Fan. 2015. Genetic diversity and association mapping for salinity tolerance in Bangladeshi rice landraces. Poster presented at the 7th International Crop Science Congress held on August 14th – August 19th, 2016, Beijing, China.

Member of the Professional Societies:

1. Member, Indian Society of Genetics and Plant Breeding (ISGPB).
2. Life Member, Plant Breeding and Genetics Society of Bangladesh (PBGSB).
3. Life Member, Bangladesh Association for Biotechnology and Genetic Engineering (BABGE)
4. Member, Ph.D. Students Association of BAU.
5. Member, Bangladesh Institute of Nuclear Agriculture Scientist' Association (BINASA).
6. Member, Bangladesh Association for Plant Tissue Culture and Biotechnology.
7. Member, Bangladesh Association for the Advancement of Science (BAAS).
8. Member, Weed Science Society of Bangladesh.

Future research interest: Plant biotechnology and Stress Physiology

Skills : Excellent interpersonal skills and Capable of work under any kind of stress.

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