Curriculum Vita of Dr. Md. Enamul Hoque

A. Personal Information:

Name in full : Md. Enamul Hoque, Ph.D.

Mailing Address : Principal Scientific Officer, Biotechnology Division, Bangladesh Rice

: Research Institute, Gazipur-1701, Bangladesh.

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Date of Birth : 1st July 1965

Sex and marital status : Male; Married

Nationality : Bangladeshi

B. Education:

Ph.D. (Plant Biotechnology) - 2002, Imperial College London, University of London, UK.

M.Sc.(Agriculture) in Genetics & Plant Breeding - 1990, Bangladesh Agricultural University, Mymensingh, Bangladesh, 1990

B.Sc. Agriculture (Honors), Bangladesh Agricultural University, Mymensingh, Bangladesh, 1987.

Honors and Awards

i) Received a scholarship for higher studies (in UK) leading to Ph.D. in genetic Engineering. Bangladesh Rice Research Institute, Gazipur, Bangladesh, 1998-2001. **ii)** Received IFAR 2007 Professional development award for pyramiding of genes for resistance to bacterial blight and blast in Bangladeshi rice cultivars, using marker-assisted selection. IRRI, Philippines, November/07 to February/06.

C. Research Experience:

Since1994, working as an active member of rice varietal improvement program (biotechnology component) at Bangladesh Rice Research Institute (BRRI), Bangladesh. Several years research experience in rice biotechnology including marker aided selection (MAS), genetic transformation, and rice tissue culture.

***Current research project*:** DNA fingerprinting of local rice germplasm using SSR Marker; gene pyramiding towards developing breeding lines possessing genes for bacterial blight resistance through marker aided selection (MAS) and rice transformation to make tolerance to salinity, Identification of yield enhancing QTLs

D. Professional Background:

Scientific Officer, Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh, 1994-2000. Research works: Rice anther culture, embryo culture, and wide hybridization.

Senior Scientific Officer, Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh, 2000-2007. Research works: Rice anther culture, embryo culture, marker aided selection and genetic transformation.

Principal Scientific Officer, Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh, 2007 - present. Research works: Gene pyramiding, marker aided selection and genetic transformation, QTLs identification.

Visiting Scientist, Department of Molecular Biology and Genetics, College of Agriculture and Life Sciences, Cornell University, New York, USA, May/05 - Octobar/05. Research works: rice transformation to make tolerance to drought and salinity.

Collaborating Scientist, Department of Plant Breeding, Genetics and Biotechnology, International Rice Research Institute (IRRI), Philippines, November/07 to February/06. Research work: pyramiding of genes for resistance to bacterial blight and blast in Bangladeshi rice cultivars, using marker-assisted selection.

F. Selected Publication :

1. Ali, M.S., Rabbi, H.A., Sultana, N., Hossain, H. A., Islam, M. and **Hoque, M. E.** (2012). Genetic diversity of BRRI varieties using microsatellite markers. Bangladesh Rice J. 16: 105-110

2. Islam, M.M., **Hoque, M.E.,** Rabbi, S.M.H.A. and Ali, M.S. (2011). DNA fingerprinting and diversity analysis of BRRI hybrid varieties and their corresponding parents. Plant Tissue Cult. & Biotech. 21:189-198

3. Islam, S.Z., Nasiruddin, K.M., **Hoque, M.E**., Rabbi, S.M.H.A. and Ali, M. S. (2010) Genotyping of some local and exotic wild rice germplams. Bangladesh Rice J. 15: 93-100.

4. Islam M.J., **Hoque, M.E**., Sultana, N., Ahamed, H.U., Rabbi, S.M.H.A. and Ali, M.S. (2009) Effect of NaCl and Na_2SO_4 on germination, callus induction and subsequent plant regeneration in some BRRI developed rice varieties. Bangladesh Rice J. 14 :93-98.

5. **Hoque, M. E**., Ali, M. S. and Karim, N. H. (2007). Embryogenic callus induction and regeneration of elite Bangladeshi Indica rice cultivars. Plant Tissue Culture & Biotechnology. 17:65-70.

6. **Hoque, M. E**. and Mansfield, J.W. (2006). High frequency somatic embryogenic callus induction and plant regeneration from various Indica rice genotypes. Journal of Plant Biotechnology. 33: 257-262.

7. **Hoque, M.E**., Mansfield, J. W. and Bennett, M. H (2005). *Agrobacterium*- mediated transformation of

Indica rice genotypes: an assessment of factors affecting the transformation efficiency. Plant Cell, Tissue and Organ Culture 82:45-55

8. **Hoque, M. E.,** Hossain, M. A., Aditya, T. L., Khalequzzaman, M. and Ali, M. S. (2005). Genotype-environment interaction and stability analysis in anther culture derived rice genotypes. Bangladesh Journal of Plant Breeding and Genetics. 18: 31-34.

9. **Hoque, M. E**. and Mansfield, J.W. (2005).A simple and reliable method for pathogenicity tests of bacterial blight disease of rice. Bangladesh Journal of Botany. 34: 11-16

10. **Hoque, M. E.** and Mansfield, J.W. (2004). Effect of genotype and explant age on callus induction and subsequent plant regeneration from root-derived callus of Indica rice genotypes. Plant Cell, Tissue and Organ Culture. 78: 217-223.

11. **Hoque, M. E.,** Miah, M.A.A. and Islam, M.A. (2004). An identification on the potential explant sources of rice (*Oryza sativa* L.) protoplasts. Thai Journal of Agricultural Sciences 37: 59-65.

12. **Hoque M. E.,** Bashar M. K., Khanam M., Ahmed N. and Rabbi, M. F. (2001) Genotype-environment interaction and stability analysis of some tissue culture derived rice genotypes. Journal of Agricultural Sciences and Technology. 2: 1- 4.

13. Hossain, M. A., Akhter, K.M., Salam, M.A., Khatun, M. and **Hoque, E.H.** (2007).Yield stability of some T. Aus rice genotypes. Bangladesh Journal of Progressive Science and Technology. 5: 173-176.

14. Baksha, R., Ferdous, J., **Hoque M. E**. and Ali, M. S. (2006) *In vitro* plant regeneration from mature embryos-derived calli of cultivated (*Oryza sativa* L.) and wild rice (*O. barthii*). Bangladesh Journal of Plant Breeding and Genetics. 19: 01-06.

15. Khalequzzaman, M., Haq, N., **Hoque, M. E.** and Aditya T. L. (2005) Regeneration efficiency and genotypic effect of 15 indica type Bangladeshi rice (Oryza sativa L.) landraces. PlantTissue Culture 15:33-42.

16. Ali, M. S., **Hoque M. E**., Sultana, S., Islam, S., Kiyosawa, S., Purba, D., Kawase, M. and Okuno, K. (2005). Gene analysis for filed resistance to rice (*Oryza sativa* L.) blast. Bangladesh Journal of Plant Breeding and Genetics. 18: 09-19.

17. Aditya, T. L., **Hoque, M. E**. and Khalequzzaman, M. (2004). Response to High Frequency Callus Induction Ability from Root Regions of Germinated Embryo in Indica Rice. Pakistan Journal of Biological Sciences. 7: 861-864.