Curriculum Vitae

1. Name: DR. HOMAYRA HUQ

2. Date of birth: January 01, 1978

3. Nationality: Bangladeshi

4. Sex: Female

5. Marital Status: Married

6. Religion: Islam

7. Present Address: Professor and Chairman

Department of Biotechnology
Sher-e-Bangla Agricultural University
Sher-e-Bangla Nagar, Dhaka-1207
Bangladesh
Mobile: 01911305025
Email: muna_sau@yahoo.com

8. Area of Specialization: Plant Tissue Culture, DNA fingerprinting and Plant breeding

9. Academic Carrier

Name of institution	Name of Exams	Year of obtaining Certificate
Krishi Biswabidwalaya High School, Mymensingh	SSC	1992
K.B. Intermediate College, Mymensingh	HSC	1994
Bangladesh Agricultural University, Mymensingh	B. Sc. Ag. (Hons.)	1998 (Exam. held in 2001)
Bangladesh Agricultural University, Mymensingh	MS in Genetics and Plant Breeding	2003
Bangladesh Agricultural University, Mymensingh	PhD	2022

10. Occupation:

Organization	**Duration**	**Position**
Department of Biotechnology, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	From: February 25, 2005 To: February 24, 2007	Lecturer
	From: February 25, 2007 To: February 24, 2014	Assistant Professor
	From: February 25, 2014 To: February 24, 2019	Associate Professor
	From: February 25, 2019 To: Till date	Professor

11. Project conducted:

i) Worked as the Principal investigator of a project entitled **"**Morphological evaluation of newly developed hybrids of ridge gourd (*Luffa acutangula*)" funded by Sher-e-Bangla Agricultural University Research System, in the financial year 2020-21.

ii) Worked as Associate investigator of a project entitled "Survey on Tissue Culture Laboratory, In Vitro Plantlet Production and Farmer's Involvement on Plantlet Cultivation in Bangladesh" funded by Department of Agriculture Extension, Ministry of Agriculture, in the financial year 2024-25.

iii) Worked as Associate investigator of a project entitled "In vitro propagation of gerbera (*Gerbera jamesonii* L.) in a modified new plant tissue culture medium" funded by Department of Agriculture Extension, Ministry of Agriculture, in the financial year 2024-25.

12. List of publications: (Total 26)

1) **Huq, H.**, M.S. Alam and Q.N. Ahmed (2005). Heritability, genetic advance and path analysis for yield and yield related traits in groundnut (*Arachis hypogaea*). *Bangladesh Journal of Plant Breeding and Genetics*. **18(1):** 39-45.

2) Porag, S. A., **H. Huq** and M. Shafiuzzaman (2005). Effects of media on anther culture of wheat. *Molecular Biology and Biotechnology Journal*. **3(1-2):** 39-45.

3) **Huq, H.** and M.S. Alam (2006). Genetic diversity in yield parameters of groundnut. *Progressive Agriculture*. **17(1):** 49-54.

4) Aktar, S., K. M. Nasiruddin and **H. Huq** (2007). *In Vitro* root formation in *Dendrobium* orchid plantlets with IBA. *Journal of Agriculture and Rural Development*. **5(1-2):** 48-51.

5) Hoque, M.E. and **H. Huq** (2010). Effect of GA3 on off-season sprouting and *in vitro* regeneration in three potato varieties. *Journal of Sher-e-Bangla Agricultural University*. 4(2): 9-16.

6) Husna, A, **Huq, H**., Kabir, M. S., Islam, M. O. and Prodhan, A.K.M.A. (2010). Effect of growth regulator (GABA) on the improvement of growth and yield of sesame. *Journal of Bangladesh Biosciences Associates*. **3:** 20-23.

7) **Huq, H.,** S. A. Porag and M. Shafiuzzaman (2010). Effect of genotype and genotype × media on anther culture of wheat (*Triticum aestivum*). *Journal of Sher-e-Bangla Agricultural University*. **4(2):** 53-60.

8) Chakma, S. P., **H., Huq,** F. Mahmud and A. Husna. 2012. Genetic diversity analysis in

rice (*Oryza sativa*). *Bangladesh Journal of Plant Breeding and Genetics*. 25(1): 31-39.

9) Moon, N.J., M.E. Hoque, N. Zeba and **H. Huq.** 2012. Varietal effect on *in vitro* callus induction in potato (*Solanum tuberosum*. L.). *Journal of Subtropical Agricultural Research and Development*. **10(3):** 999-1003.

10) Ahmed, S., **H. Huq**, N. Zeba, M.E. Hoque and N.J. Moon. 2012. Callus induction and plant regeneration of potato genotypes from meristem following hormonal treatments. *Journal of Experimental Biosciences*. **3(2):** 67-74.

11) Poly, T.A. and **H. Huq,** M.E. Hoque and M.S. Alam. 2012. *In vitro* plant regeneration in garlic (*Allium sativum*). *Journal of Experimental Biosciences*. **3(2):**33-44.

12) Hoque, M.E., **H. Huq** and N.J. Moon. 2013. Molecular diversity analysis in potato (*Solanum tuberosum* L.) through RAPD markers. *SAARC Journal of Agriculture*. **11(2):** 95-102.

13) Chakma, S.P., **H. Huq,** F. Mahmud and F. Khatun. 2014. Genetic variability, correlation and path analysis in rice (*Oryza sativa*). *Journal of Experimental Biosciences*. **5(2):** 101-104.

14) Khan, A.Q., **H. Huq** and M.S.A. Sarker. 2015. Molecular marker based characterization and genetic diversity analysis of rice using SSR and RAPD. *International Journal of Bioresource and Stress Management*. **6(3):** 309-315.

15) Ali, M.R., M.H. Akand, M.E. Hoque**, H. Huq**, H. Mehrj and A.F.M. Jamal Uddin. 2015. *In vitro* regeneration and rapid multiplication of Tuberose. *International Journal of Business, Social and Scientific Research*. **3(1):** 35-38.

16) Fahima, K., **H Huq**, M.E. Hoque, M.R. Ali, Adil, M., Ashraf-Uz- Zaman, K. 2016. *In vitro* rapid regeneration of Sagar variety of banana. *International Journal of\ Business, Social and Scientific Research*. **4(2):** 132-149.

17) F. Khatun, M.E. Hoque, **H. Huq**, M. Adil, Ashraf-Uz-Zaman, K. and M.H. Rabin. 2016. Effect of BAP and IBA on *in vitro* regeneration of local banana variety of Sabri. *Biotechnology Journal International*. **18(1):** 1-10.

18) M. S. Hossain, M. Hasanuzzam, M. E. Hoque, **H. Huq** and M. M. Rohman. 2016. Salinity and drought -induced methylglyoxal detoxification in *Brassica* spp. and purification of a high active glyoxalase I from tolerant genotype. *Plant Omics Journal*. **9(5):** 352-359.

19) M. M. Elahi, **H. Huq,** M.E. Hoque and Fahima Khatun. 2017. *In vitro* rapid regeneration of Betel Vine (*Piper betle* L.). *Journal of Advances in Biology and Biotechnology*. **16(3):** 1-11.

20) F. Mubarrat, **H. Huq**, M.E. Hoque and F. Khatun. 2018. Effect of KIN and 2,4-D on *in vitro* propagation of garlic (*Allium sativum* L.). *Asian Research Journal of Agricultur*e. **8(1):** 1-10.

21) Bashar, M.A. M.E. Hoque, A.B. Siddique, k. Syfullah, K.N. Sheuly, M.H. Rahman, K. Fatema, **H. Huq** and M. Zonayet. 2021. Potentiality of urea as a substitute or ammonium nitrate in tissue culture media for potato plantlet regeneration. *Plant Cell Biotechnology and Molecular Biology*. **22(1&2):**118-126; 2021.

22) **H. Huq**, M.S. Haque, M.E. Hoque, M.S. Ahmed, M.S.A. Sarker, M.H. Sazid. 2023. Correlation and path analysis to ascertain interrelationships among yield and yield contributing traits in ridge gourd (*Luffa acutangula* L). *Journal of Agriculture and Rural Development*. 15 (1&2): 29-34.

23) Hossain1 M., F. Khatun and **H. Huq**. 2024. *In vitro* regeneration of pepper (*Capsicum annuum* L.). *J. Expt. Biosci.* 15(1): 67-74, Jan-June, ISSN 2223-9626 (Online) ISSN 2070-3358 (Print) www.bioscience-associates.com.

24) Ahmed, S.S., **H. Huq**, F.A. Vabna, F. Khatun. 2024. Micropropagation of mint (*Mentha spicata*). *International Journal of Biosciences*. 25(2), 97-102.

25) **Huq, H**., M.S. Haque, M.E. Hoque, M.S. Ahmed, M.S.A. Sarker, M.H. Sazid. 2022. Correlation and path analysis to ascertain interrelationships among yield and yield contributing traits in ridge gourd (*Luffa acutangula* L). *Journal of Agriculture and Rural Development*, 15(1&2):29-34.

26. M. S. Ahmed, M. Sohel, S. H. Anik, **H. Huq** and M. E. Hoque. 2024. Molecular assessment of hybridity in F1 (*Luffa acutangula* × *Luffa cylindrica*) through SSR marker. *International Journal of Biosciences*. 25(3): 48-157.

13. List of MS thesis supervised and co-supervised

As Supervisor

Sl. No.	Year	Title of thesis
1	2010	Genetic diversity, correlation and path analysis in rice (*Oryza sativa* L.)
2	2013	*In vitro* micopropagation of gerbera.
3	2013	*In vitro* micropropagation of banana (*Musa* sp.)

4	2014	Molecular diversity analysis of somaclonal variants in potato (*Solanum tuberosum* L.)
5	2016	Identification of a new chemical as a substitute of ammonium nitrate (NH_4NO_3) in MS media preparation for *in vitro* regeneration of potato (*Solanum tuberosum* L.).
6	2016	*In vitro* propagation of garlic (*Alium sativum* L.)
7	2016	*In vitro* rapid regeneration of *Piper betle* L.
8	2018	Interspecific cross compatibility study between *Luffa acutangula* and *Luffa cylindrical* and molecular assessment of hybridity in F1 generation.
9	2018	*In vitro* micropropagation of papaya.

As Co-supervisor

1	2014	Molecular characterization and diversity analysis of some local potato (*Solanum tuberosum*) genotypes of Bangladesh using RAPD markers.
2	2014	*In vitro* propagation of ginger (*Zingibar officinale*).
3	2015	Morphological characterization of potato varieties under *in vitro* and *in vivo* condition.
4	2017	DNA fingerprinting and molecular diversity analysis of ginger (*Zingibar officinale*) genotypes using RAPD markers.
5	2017	Study on potato (*Solanum tuberosum*) regeneration capability in ammonium nitrate free medium composition.
6	2018	Rapid genomic DNA extraction in bulb crops and estimation of genetic diversity in garlic (*Allium sativum* L.) using RAPD marker.
7	2018	DNA marker based hybridity test of different eggplant (*Solanum melongena* L.) hybrids
8	2018	*In vitro* plantlet regeneration of mint (*Mentha piperita*)
9	2018	*In vitro* rapid regeneration of pepper (*Capsicum annum*)
10	2018	Molecular diversity analysis and DNA fingerprinting of different turmeric genotypes using RAPD markers.
11	2018	Polymorphism study and morpho-molecular diversity analysis of different hybrid varieties of rice
12	2018	Molecular diversity analysis and polymorphism studies on different cotton genotypes through RAPD markers.
13	2020	Comparative performance of ammonium nitrate (NH_4NO_3) and other nitrogenous salts for *in vitro* regeneration of potato (*Solanum tuberosum* L.)
14	2020	Micropropagation of black pepper (*Piper nigrum* L)
15	2021	Regeneration of potato (*Solanum tuberosum* L.) by utilizing a new composition of stock solution-1 for plant tissue culture medium

16 2022 Micropropagation of sweet potato (*Ipomoea batatas* L.) in a new plant tissue culture medium

14. Involvement in the Professional Societies:

i) Life member, Bangladesh Association for Biotechnology (BABT), Bangladesh

ii). Life member, Bangladesh Association for Plant Tissue Culture and Biotechnology, Bangladesh

iii). Life member, Bangladesh Krishibid (Agriculturists) Institution, Bangladesh

15. Professional experience

1. Chairman, Dept. of Biotechnology, From
2. Chairman, Department of Biotechnology, from
3. Assistant hall provost, Krishok Rotno Sheikh Hasina Hall, from