

# Curriculum Vitae of Dr. M. E. Hoque



## Personal Information

Name : **DR. MD. EKRAMUL HOQUE**  
Father's name : Md. Sapor Uddin  
Mother's name : Mst. Delezon Nesa  
Date of birth : 01 September, 1967  
Present Address : Professor  
Dept. of Biotechnology, Faculty of Agriculture  
Sher-e-Bangla Agricultural University  
Dhaka-1207, Bangladesh  
E-mail: ekramul.sau@gmail.com  
Mobile. 0088- 01712836595

Permanent address : Vill. : Arage Deodoba, P.O. Aditmari, Post Code: 5510.  
Thana : Aditmari, Dist.: Lalmonirhat, Bangladesh.

Nationality : Bangladeshi  
URL : <https://www.sau.edu.bd/teacher/118>  
Researchgate : [https://myaccount.google.com/u/0/?utm\\_source=chrome-profile-chooser](https://myaccount.google.com/u/0/?utm_source=chrome-profile-chooser)  
Google Scholar : <https://scholar.google.com/citations?user=ojBYBwkAAAAJ&hl=en>  
ORCID iD : **0000-0001-8095-3810**

## Educational background

|       | Educational level/Univ.                                | Year of passing | Division/ Grade | Marks Obtained | Board/ University.   |
|-------|--|-----------------|-----------------|----------------|--|
| (i)   | S.S.C. (Science Group)<br>Secondary School Certificate | 1982            | Ist             | 66.1%          | Rajshahi   |
| (ii)  | H.S.C. (Science Group)<br>Higher Secondary Certificate | 1984            | Ist             | 71.3%          | Rajshahi   |
| (iii) | B. Sc. Ag. (Hons)                                      | 1988            | Ist             | 61.62%         | Bangladesh Agricultural University (BAU)                           |
| (iv)  | M.S. in Genetics & Plant Breeding                      | 1996            | A               | GPA=3.70       | Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU) |

**Doctoral Degree** : Ph .D in Plant Genetics

Institution : Indian Agricultural Research Institute, (IARI), New Delhi-12, India.

**Thesis title** : **Inheritance and gene mapping based on morphological and molecular markers in lentil (*Lens culinaris* Medik.)**

Duration : From January 1999 to January 2002

**Post-Doctoral Degree:** Post-Doc in Genetic Engineering

Institution : International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India

**Area of research : Gene cloning, sequencing, expression, protein purification and Characterization.**

Duration : From February, 2003 to July, 2005.

**(1). Gold Medal Award (2008)**

I received “**Bangladesh Academy of Sciences (BAS) Young Scientist Gold Medal Award**” in the year 2008 for outstanding contribution in the field of Biological Sciences. Bangladesh Academy of Sciences (BAS) is the highest provisional body of scientist communities in Bangladesh.

**(2). Innovation of a new Plant Tissue Culture Medium (2023)**

The growth and development of explants is governed by the composition of culture medium. Ammonium nitrate ( $\text{NH}_4\text{NO}_3$ ) is a major salt of stock solution-1 for the preparation of Murashige and Skoog (1962) medium. But, it has several demerits on human civilization. It is use for the preparation of bomb and other destructive activities. I have identified a new chemical as a substitute of ammonium nitrate. The concentrations of the other ingredients of major and minor salt were also modified from the MS medium (1962). The formulation of new medium is totally different from the MS (1962) nutrient composition. The regeneration potentiality of new medium in potato plantlet regeneration was best as compare with the check treatments (MS medium). All the phenotypic parameter like-days to regeneration, percent of regeneration, shoot length, node number, leaf number, , root lengths were highest in new medium. The plantlets were healthy, robust and strong than the plantlets regenerated from check medium. The regeneration and plantlet production potentiality of the new medium was validated with two other crops *viz.* Sweet potato and *Aloe vera*. The new medium showed excellent performance in respect of all trails under studied. Hence, the innovation of the new medium can be utilized for regeneration and large scale plantlet production of any other crops.

**(3). Copyright of new innovation (2023)**

The newly innovated Plant Tissue Culture medium is protected by copyright law of Bangladesh in the area of creative work.

**(4). Patent of new Tissue Culture Medium (2023)**

An application was submitted to the Director General, Department of Patents, Designs and Trademarks, Ministry of Industries, The People Republic of Bangladesh on 25-07-2023 for getting the Intellectual Property Right of the newly innovated medium.

**(5). Notable contribution in the field of Genetics Engineering**

I have cloned, sequenced, expressed and characterized two genes from *Spodoptera litura*.

The Gene Bank Registration number and other details are given below-

- (i) Cloning and sequencing of prophenol oxidase activating enzyme 1 (PPAE 1) in *Spodoptera litura* → AY677081 (Available from 1<sup>st</sup> August, 2005)**
- (ii) Cloning and sequencing of prophenol oxidase activating enzyme 3 (PPAE 3)**

in *Spodoptera litura* → AY677082 (Available from 1<sup>st</sup> August, 2005)

#### **(6). Co- Author of Book**

I am Co-author of the Book: **An Introduction to Plant Tissue Culture**. The content of the book is designed for undergraduate and postgraduate student in the field of Agriculture and Biotechnology. It is one of the popular books for agricultural scientists, student and teachers of Bangladesh.

#### **(7). Working Experiences**

I have 32 years of research and teaching experience in the field of Agriculture.

##### **(i). As an Agricultural Scientist**

I have 14 years of research experiences on Genetics, Plant Breeding, Plant Tissue Culture, Genetic engineering and Biotechnology. I worked as **Scientific Officer (SO) and Senior Scientific Officer (SSO) in** the Department of Plant Breeding and Biotechnology at Bangladesh Agricultural Research Institute (BARI), Gazipur, Bangladesh from 1<sup>st</sup> September, 1992 to 31 July, 2006.

##### **(ii). As a University Teacher**

I joined in the Department of Biotechnology, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh as a Assistant Professor on 1<sup>st</sup> August, 2006. I got promotion as a Associate Professor on 1<sup>st</sup> August, 2010 and as a Professor on 1<sup>st</sup> August, 2014. Till now, I am working as a professor in the same Department.

#### **(8). Skill and expertise regarding Agricultural Research**

- (i). Varietal development of different cereal crops.
- (ii). Inbred line production and hybrid development of different vegetable and cereal crops like Maize.
- (iii). Plant Tissue Culture for micropropagation, virus free plantlet production and anther culture for Double Haploid (DH) production.
- (iv). DNA fingerprinting and molecular diversity study of different crops.
- (v). Marker Assisted Selection (MAS) by using SSR, SNP or any other oligo-mers.
- (vi). cDNA synthesis, cloning and sequencing of gene of interest for basic and applied research.
- (vii). Expression, purification and characterization of target protein on *E coli* and cell line method (Baculo virus system)

#### **(9). Proficiency and ability on teaching experience**

I offered different courses at undergraduate and post graduate level. Some of the important courses are -

- i. Gene expression and regulation
- ii. Genetic Engineering and transgenic
- iii. Molecular markers and Molecular Breeding

- iv. Technique in Biotechnology
- v. Cellular and molecular Biology
- vi. Plant Tissue Culture

#### (10). Chairmanship

I have 10 years of experience as a Chairman of the Department of Biotechnology, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh. I have expertise on planning, monitoring, evaluation of courses at undergraduate and postgraduate level for the faculty of Agriculture. I am confident enough about office management and administrative activities of the University for Smooth running of academic program.

#### (11). Scientific publications

1. Mokaram Hanifa Koly, **Md. Ekramul Hoque**, Khadiza Khatun , Kazi Meftahul Jannat and Md Rafiqul Islam. Role of phytohormone on *in vitro* regeneration of tea [*Camellia sinensis* (L.) O. Kuntze] Journal of Bioscience and Biotechnology Discovery , Volume 8(4), Pages 92-99, August 2023, Article Number: 4C51E6841 ISSN: 2536-7064 <https://doi.org/10.31248/JBBD2023.186> <https://integrityresjournals.org/journal/JBBD>
2. KS. Ahmed, **ME. Hoque**, M. Shamsuzzaman, S. Sultana and MS. Islam. *In vitro* regeneration of *Caladium bicolor*. International Journal of Biosciences | IJB | ISSN: 2220-6655 (Print) 2222-5234 (Online), <http://www.innspub.net> Vol. 22, No. 4 p.132-139, 2023.
3. **Md. Ekramul Hoque**, Hasna Hena and Md. Ershad Ali. Potato Plantlet regeneration in ammonium nitrate free stock solution-01 of MS (1962) plant tissue culture medium. European Journal of Biology and Biotechnology. ISSN: 2684-5199, October, 2022. DOI: 10.24018/ejbio.2022.3.5.413
4. M. A. Bashar, **M. E. Hoque**, A. B. Siddque, K. Syfullah, K. N. Sheuly, M. H. Rahman, K. Fatima, H. Huq and M. Zonayet. 2021. Potentiality of urea as a substitute for ammonium nitrate in tissue culture media for potato plantlet regeneration. Plant Cell Biotechnology and Molecular Biology 22(21&22)118-126.
5. Plabon, A. R., **Hoque, M. E.**, Vabna, F. A. and Khatun, F. (2021). *In vitro* Regeneration of Onion (*Allium cepa* L.) Genotypes under Salt Stress Condition. Asian Res. J. Agric. 14(1): 34-43.
6. M. Shamsuzzaman, D. K. Bhattacharjya, M.S. Islam and **M.E. Hoque**. 2021. Molecular diversity analysis of somaclonal variants of potato (*Solanum tuberosum* L.) by Randomly amplified polymorphic DNA markers. Annual Research and Review in Biology 36(3):63-76. Article no. ARRB.66710.

7. Vabna, F. A., Islam, M. Z., Prince, M. F. R. K. and **Hoque, M. E.** (2021). Molecular Diversity Analysis in Boro Rice (*Oryza sativa* L.) Landraces using SSR Markers. Asian J. Biol. 12(1): 36-48.
8. Md. Abdul Wahab, Shamim Ara Sumi, Absana Islam and **M. E. Hoque.** Molecular Diversity Analysis in Cotton (*Gossypium hirsutum* L.) Using RAPD Markers. Journal of Advances in Biology & Biotechnology 23(10): 33-44, 2020; Article no.JABB.63513, ISSN: 2394-1081.
9. Md. Shahidul Islam Khan, Fahima Khatun, Sadia Afrin, Md. Abu Zafur Al Munsur and **M. E. Hoque.** 2020. Combine effect of BA and IAA on shoot and root induction potentiality in chrysanthemum (*Chrysanthemum morifolium*). Journal of Bioscience and Agriculture Research. Vol 24(1): PP2006-2011. DOI: <https://doi.org/10.18801/jbar.240120.245>
10. Md. Shahidul Islam Khan, Fahima Khatun, Sadia Afrin and **M. E. Hoque.** Callus induction and plantlet regeneration in Chrysanthemum. International Journal of Business, Social and Scientific research. ISSN: 2309-7892 (Online), 2519-5530 (Print), Volume: 8, Issue: 1, Page: 06–10, January-June 2020.
11. Sadia Afrin, Md. Abu Zafur Al Munsur, Md. Shahidul Islam Khan, Fahima Khatun and **M. E. Hoque.** 2020. Effect of phytohormone on shoot generation potentiality in rucola. Journal of Bioscience and Agriculture Research. Vol. 24, Issue 01: 1990-1998. DOI: <https://doi.org/10.18801/jbar.240120.243>
12. Shamim Ara Sumi, Md. Abdul Wahab, Absana Islam and **Md. Ekramul Hoque.**2020. Molecular diversity analysis of different turmeric genotypes using RAPD markers. Journal of Global Bioscience. Vol.9 Number 9.pp 7897-7911. URL: [www.mutagens.co.in/jgb/vol.09/09/090902.pdf](http://www.mutagens.co.in/jgb/vol.09/09/090902.pdf)
13. Absana Islam, Shamim Are Sumi, Abdul Wahab and **M.E.Hoque.** 2020. Molecular diversity analysis of different hybrid rice varieties through RAPD and SSR Markers. International Journal of Biotech Trends and Technology (IJBT). Vol.10 Issue 3. pp 6-13. <http://www.ijbtjournal.org>.
14. S. H. Anik, M. S. Ahmed, F. Khatun, H. M. M. Tariq Hossain and **M. E. Hoque,** 2019. *In vitro* regeneration of Turmeric ( *Curcuma longa* L.), J. Expt. Biosci 10(2): 51-58, July 2019. ISSN 223-9626 (Online), ISSN 2070-3358 (Print), [www.biscience-associates.com](http://www.biscience-associates.com)
15. **M.E. Hoque** and F.T. Zohura, 2019. Bacterial wilt resistant gene searching in Eggplant ( *Solanum melongena* ) and its two wild relatives. International journal of Environment, Agriculture and Biotechnology ( IJEAB). Vol: 4 Issue – 5 :ISSN : 2456- 1878: <https://dx.doi.org/10.22161/ijeab.45.53>
16. **M.E. Hoque** and F.T. Zohura, 2019. Molecular diversity analysis of some local Ginger ( *Zingiber officinale*) genotypes using RAPD markers. International Journal Horticulture, Agriculture and Food Science (IJHAF). Vol: 3 Issue-1: ISSN:2456-8635: <https://dx.doi.org/10.22161/ijhaf.3.1.3>
17. M.H. Rahman, M.M.H. Molla, M.A. Basher and **M.E. Hoque.** 2018. *In vitro* root bioassay of different exotic (CIP) potato germplasm for salinity tolerance. Journal of Science and Technology. Vol.16.29-36.

18. Fabeeha Mubarrat, Homayra Huq, **M. E. Hoque** and Fahima Khatun, 2018. The effect of KIN and 24-D on *In vitro* propagation of Garlic (*Allium sativum* L.) Asian Research Journal of Agriculture. 8(1): 1-10. ISS: 2456-561X
19. **M.E. Hoque** and Kaspia Tasrin, 2018. Molecular characterization and DNA fingerprinting of some local eggplant genotypes and its wild relatives. International Journal for Environment, Agriculture, and Biotechnology. Vol: 3 Issue-1: ISSN:2456-1878: DOI: [10.22161/ijeab/3.5.1](https://doi.org/10.22161/ijeab/3.5.1)
20. Rona Mahmud, Muhammad Rezwan Kabir, **Md. Ekramul Hoque** and Md. Abdullah Yousuf Akhond 2018. Assessment of some genetic attributes in wheat ( *Triticum estivum* L.) using gene-specific molecular markers. Agriculture and natural Resources. Voi. 52: 39-44.
21. Sharmin Sultana, Mohammad Nazrul Islam and **M. E. Hoque** 2018. DNA fingerprinting and molecular diversity analysis for improvement of brinjal (*Solanum melongena* L.) cultivars. 2018. Journal of Advanced Biotechnology and Experimental Therapeutics, 1(1): 01-06. eISSN: 2616-4760. DOL: 10.5466/jabet.dl
22. Afsana Sharmin, **M. E. Hoque**, Md. Masudul Hoque and Fahima Khatun, 2018. Molecular diversity analysis of some chilli: (*Capsicum* spp.) genotypes using SSR markers. American Journal of plant sciences. 9:368-379. ISSN online: 2158-2750. ISSN print: 2158-2742.
23. S. S. Riva, A. Islam and **M.E. Hoque**. 2016. *In vitro* regeneration and rapid multiplication of *Dendrobium bensonial*, an indigenous ornamental orchid 2016. The Agriculturist. 14(2): 24-31, DOI: <http://dx.doi.org/10.3329/agric.v.14i2.31341>.
24. Md. Shahadat Hossain, Mirza Hasanuzzaman, **Md. Ekramul Hoque**, Homayra Huq and Md. Motiar Rohman. 2016. Salinity and drought-induced methylglyoxal detoxification in *Brassica* spp. and purification of a high active glyoxalase I from tolerant genotype. Omics Journal. POJ: 352-359.
25. M.R. Ali, M. H. Akand, **M. E. Hoque**, Homayra Huq, H. Mehraj and AFM Jamal Uddin (2015). *In vitro* Regeneration and Rapid Multiplication of Tuberose. International Journal of Business, Social and Scientific Research. 3(I): 35-38.
26. **Hoque, M.E** and Morshad, M.N. 2014. Somaclonal variation in Potato (*Solanum tuberosum* L.) using chemical mutagens. *The Agriculturists*. 12(1): 15-25.
27. Hossain, M.S. Rahman, F, Ahamed, A.K. Datta and **M.E. Hoque**. 2014. *In vitro* organogenesis and plant regeneration in *Brassica* species. J. Sher-e-Bangla Agric. Univ. 8(1):1-6.
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29. Halim, M.A., Bhuiyan, M.S.R, Mahmud, F., **Hoque, M.E.**, and Islam, M.S. 2013. Effect of different genotypes and hormonal combination on *in vitro* shoot regeneration of hybrid mustard (*Brassica rapa* L.). *Bangladesh Res. Pub. J*. Vol. 8(2):159-165.
30. **Hoque, M.E.**, Huq H. and Moon, N.J. 2013. Molecular diversity analysis in potato (*Solanum tuberosum* L.) SAARC. *J. Agric.* Vol. 11 (2): 95-102.

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32. S. Ahmed, 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. *J. Expt. Biosci* 3(2): 67-74.
33. N. J. Moon, **M. E. Hoque**, N. Zeba and H. Huq. 2012. Varietal effect on *in vitro* callus induction in potato (*Solanum tuberosum* L.). *J. Subtrop. Agric. Res. Dev.* 10 (3):999-1003.
34. **Hoque M.E** and M.M. Hasan. 2012. Molecular diversity analysis of lentil (*Lens culinaris* L.) through RAPD markers. *Plant Tissue Cult. & Biotech.* 22(1): 51-58.
35. H. Huq, **Hoque M.E**, S.A. Porag and M. Shafiuzzaman. 2010. Effect of genotype and genotype x media on anther culture of wheat ( *Triticum estivum* L.). *J. Sher-E- Bangla Agric.Univ.* 4(2): 53-60, July,2010.
36. **M.E. Hoque**. 2010. *In vitro* tuberization in potato (*Solanum tuberosum* L.). *Plant Omics Journal.*3(1): 7-11. An online International Journal Published from Australia.
37. **M.E. Hoque** and H. Huq 2010. Effect of GA3 on off-season sprouting and *in vitro* regeneration in three potato varieties. *J. Sher-e-Bangla Agric. Univ.*, 4(2): 9-16. Dhaka, Bangladesh.
38. Naresh Arora, **M. E. Hoque**, R. Rajagopal, Bindiya Sachdev and Raj K. Bhatnagar. 2009. Expression, purification and characterization of prophenoloxidase activating serine protease from *Spodopetra litura*. *Archives of Insect Bioche. and Physio.* Vol. 72, No. 2, 61-73.
39. **Hoque M.E**. 2009. *In vitro* Regeneration Potentiality of Potato under Different Hormonal Combination. *Int. J. Sustain. Agril. Tech.* 5(9): 46-50, December, 2009.
40. M.A. Rahman, M.A. Amin, **M.E. Hoque**, S.A.S. Zulquarnine and M. Shahinozzaman. 2009. *In vitro* regeneration of *Stevia rebaudiana* BERT. *Int. J. Sustain. Agril. Tech.* 5(6): 17-22. (Anonline Journal of "G-Science Implementation and Publication" website: [www.gscience.net](http://www.gscience.net).)
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43. **Hoque, M.E.**, Rajagopal Raman, Bindiya Sachdev and R. K. Bhatnagar. 2006. Cloning, sequencing and expression of *ppae3* gene. *Mol. Biol. Biotechnol. J. (MBBJ)*, Vol. 4 (1 & 2) 01 - 06.
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49. Hossain, M.S., **M.E. Hoque.**, A.K. Singh and F.U. Zaman. 2004. Genetics of endosperm, amylose content and alkali score in inter sub-specific (*indica/japonica*) hybrid of rice. *J. Agric. Sci. Technol.* 5(1&2): 13-17.
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51. **Hoque M.E.**, S.K. Mishra., Y.Kumar, R.Kumar and S.M.S. Tomar. 2002. Inheritance and linkage of flower colour, testa pattern and testa colour in lentil (*Lens culinaris*. Medik.). *Bangladesh J. Pt Breed.*, **15**(2):01-08.
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55. Islam M.T., M.M. Hoque, M.O. Islam, M.A. Malek and **M.E. Hoque**, 1999. Genetic variability, correlation and path Analysis in mungbean (*Vigna radiata* L. Wilczek). *Bangladesh J. Sci. Ind. Res.* **31**(1): 103-107.
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## 11. Member of Professional Organization

### Life member

- (i). Bangladesh Association for Plant Tissue Culture & Biotechnology
- (ii). Plant Breeding and Genetic Society of Bangladesh
- (iii). Krishibid Association of Bangladesh
- (iv). Association of Applied Plant Tissue Culture in Bangladesh

### General Member

- (i). Bangladesh Society of Agronomy
- (ii). Bangladesh Entomological Society
- (iii). Bangladesh Phytopathological Society

### Member of Editorial Board

Journal of Plant Tissue Culture and Biotechnology

## 12. Referees name

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|--|--|
| <b>1. A.T.M. Shamsuddoha</b><br>Professor<br>Department of Soil Science<br>Faculty of Agriculture<br>Sher-e- Bangla Agricultural University (SAU),<br>Dhaka, Bangladesh<br>Mobile: + 01552-323145<br>Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh<br>E-mail: atmshamsuddoha@yahoo.com | <b>2. Dr. Hodayra Huq</b><br>Professor, Department of Biotechnology<br>Sher-e- Bangla Agricultural University, Dhaka,<br>Bangladesh<br>Cell: 01911305025<br>E-mail: muna_sau@yahoo.com |
|--|--|



### (Dr. Md. Ekramul Hoque)

Professor  
Dept. of Biotechnology  
Sher-e-Bangla Agricultural University (SAU), Dhaka,  
Dhaka-1207, Mobile: 0088- 01712-836595