Fahima Khatun
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Profile

Education and Qualifications

Name of degree	Major	Name of Institute	Year of obtaining degree	CGPA	Courses studied
M.S.	Biotechnology	Sher-e-Bangla Agricultural University	2013	**3.95 (Out of 4.00) with 3rd position**	Nucleic Acids and Protein Biosynthesis, Recombinant DNA Technology: Principle and Methods, Regulation of Gene Expression, Design of Experiment and Data Analysis, Environmental Biotechnology and Biosafety, Cellular and Molecular Biology, Techniques in Biotechnology, Molecular Markers and Molecular Breeding, Plant Regeneration and Tissue Culture, Genetic Engineering and Transgenics
B.Sc.Ag. (Hons)	Agriculture	Sher-e-Bangla Agricultural University	2011	**3.96 (Out of 4.00) with 2nd position**	Agronomy, Agricultural Chemistry, Agricultural Extension, Agricultural economics, Agricultural Statistics Animal Husbandry, Biochemistry, Agricultural Botany, Biotechnology, Entomology, Farm Mechanics, Genetics and Plant Breeding, Horticulture, Plant Pathology, Rural Sociology, Soil Science
H.S.C.	Science	Bhola Govt. College	2007	**4.90** (Out of 5.00)	Bengali, English, Mathematics, Physics, Chemistry and Biology
S.S.C.	Science	Bhola Govt. Girls' High School	2005	**5.00** (Out of 5.00)	Bengali, English, Mathematics, Religion (Islam), Social Science, Physics, Chemistry, Biology and Higher Mathematics

Working Experience

Organization	Duration	Position	Nature of work
Department of Biotechnology, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	From: May 26, 2013 To: May 25, 2015	Lecturer	Teaching and Research
Department of Biotechnology, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	From: May 26, 2015 To: May 26, 2022	Assistant professor	Teaching, Supervision and Research
Department of Biotechnology, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	From: May 26, 2022 To: To the date	**A**ssociate professor	Teaching, Supervision and Research

Research Work

- *In vitro* Propagation of Banana (*Musa* spp.) (MS research work)
- *In vitro* Regeneration of Orchid (*Dendrobium* sp) (Project)

Supervision

- *In vitro* regeneration of Orchid (*Dendrobium* sp.) (Supervisor)
- *In vitro* regeneration of Gladiolus (*Gladiolus* sp.) (Supervisor)
- *In vitro* regeneration of Cactus (*Opuntia monacantha* L.) (Supervisor)
- *In vitro* regeneration of Dragon fruit (*Hylocereus undatus*) (Supervisor)
- Micropropagation of Strawberry. (Supervisor)
- Micropropagation of *Capsicum annum*.(Supervisor)
- Micropropagation of *Mentha piperita* L. (Supervisor)
- *In vitro* regeneration of Papaya (*Carica papaya*).(Co-supervisor)
- Micropropagation of *Nicotiana tabacum.*
- *In vitro* plantlet regeneration of turmeric. (Co-supervisor)
- *In vitro* screening of different genotypes of onion (*Allium cepa* L.) under different level of salinity in Bangladesh. (Co-supervisor)
- *In vitro* plantlet regeneration of Chrysanthemum (*Chrysanthemum morifolium*). (Co-supervisor)
- *In vitro* plantlet regeneration of rucola (*Eruca sativa*). (Co-supervisor)

Workshop

- Bioinformatics for Sustainable Development in Agriculture, Health and Environment.
- Assessment of Teaching and Learning Strategy.

Publications

1. Islam, M.M., **Khatun, F.**, Huq, H. and Mona, R.T. (2024). In Vitro Regeneration of Strawberry (Fragaria × ananassa Duch.). Int. J. Ag. Env. Biotech., 17(03): 595-600. DOI: 10.30954/0974-1712.03.2024.3

2. Sayed Shaqur Ahmed, Homayra Huq, Farhana Afrin Vabna, **Fahima Khatun**. (2024). Micropropagation of mint (Mentha spicata); *Int. J. Biosci.* 25(2), 97-102. DOI: http://dx.doi.org/10.12692/ijb/25.2.97-102
3. M. Hossain, **F. Khatun** and H. Huq. (2024). *In Vitro* Regeneration of Pepper (*Capsicum annuum* L.). *J. Expt. Biosci.* 15(1): 67-74.

4. Plabon, A. R., Hoque, M. E., Vabna, F. A., & **Khatun, F.** (2021). *In Vitro* Regeneration of Onion (*Allium cepa* L.) Genotypes under Salt Stress Condition. *Asian Research Journal of Agriculture*, *14*(1), 34-43. https://doi.org/10.9734/arja/2021/v14i130116

5. Md. Shahidul Islam Khan, **Fahima Khatun**, Sadia Afrin and M. E. Hoque (2020). Callus Induction and Plantlet Regeneration in Chrysanthemum. *Int. J. Bus. Soc. Sci. Res.* 8(1): 06–10. Retrieve from http://www.ijbssr.com/currentissueview/14013344]

6. Afrin, S., Munsur, M. A. Z. A., Khan, M. S. I., **Khatun, F.** and Hoque, M. E. (2020). Effect of phytohormone on shoot generation potentiality in rucola. Journal of Bioscience and Agriculture Research. 24(01): 1990-1998.

7. Khan, M. S. I., **Khatun, F.,** Afrin, S., Munsur, M. A. Z. A. and Hoque, M. E. (2020). Combine effect of BA and IAA on shoot and root induction potentiality in chrysanthemum (*Chrysanthemum morifolium*). Journal of Bioscience and Agriculture Research. 24(01): 2006-2011.

8. Hasan, N., Huq, H., **Khatun, F**. & Sumi, S. A. (2020). Effect of Plant Growth Regulators (BA, KIN and NAA) on In vitro Propagation of Papaya (*Carica papaya*). *International Journal of Plant & Soil Science*. *32*(5): 15-23. https://doi.org/10.9734/ijpss/2020/v32i530278

9. Plabon, A. R., Hoque, M. E., Vabna, F. A., & **Khatun, F.** (2021). In Vitro Regeneration of Onion (*Allium cepa* L.) Genotypes under Salt Stress Condition. *Asian Research Journal of Agriculture*, *14*(1), 34-43. https://doi.org/10.9734/arja/2021/v14i130116

10. Anik, S. H., Ahmed, M. S., **Khatun, F.,** Tariq Hossain* H. M. M. and Hoque, M. E. 2019. *In vitro* regeneration of turmeric (*Curcuma Longa* L.) *J. Expt. Biosci.* 10(2):51-58.

11. Sharmin, A., Hoque, M.E., Hoque, M. M. and **Khatun, F.** 2018. Molecular Diversity Analysis of Some Chilli (*Capsicum* sp.) Genotypes Using SSR Markers. *American Journal of Plant Sciences*. 9: 368-379.

12. Fabeeha Mubarrat, Homayra Huq, M. E. Hoque and **Fahima Khatun.** 2018. The Effect of KIN and 2,4-D on *In vitro* Propagation of Garlic (*Allium sativum* L.*)*. *Asian Research Journal of Agriculture.* 8(1): 1-10.

13. Md. Mahabub Elahi, Homayra Huq, M. E. Hoque and **Fahima Khatun.** 2017. *In vitro* Rapid Regeneration of Betel Vine (*Piper betle* L.). *Journal of Advances in Biology & Biotechnology.* 16(3): 1-11.

14. **Fahima Khatun,** M. E. Hoque, Homayra Huq, Md. Adil, Kh. Ashraf-Uz-Zaman and Mominul Haque Rabin. 2017. Effect of BAP and IBA on *in vitro* Regeneration of Local Banana Variety of Sabri. *Biotechnology Journal International.* 18(1): 1-10.

15. **Fahima Khatun**, Homayra Huq, Md. Ekramul Hoque, Md. Razzab Ali, Md. Adil and Kh. Ashraf-Uz-Zaman. 2016. *In vitro* rapid regeneration of Sagar variety of Banana. Int. *J. Bus. Soc.Sci. Res*. 4(2): 132-139.

16. Chakma, S. P., Huq, H., Mahmud, F. and **Fahima Khatun**. 2014. Genetic variability correlation and path analysis in rice (*Oryza sativa* L.). *J. Expt. Biosci*. 5(2): 101-104.

Achievements

- Securing 1st class second in B. Sc. Ag. (Hons) and 1st class third in M.S. (Biotechnology).

- **Dean's Award** for outstanding academic achievement during the level 1, 2, 3 and 4 in the persuasion of B. Sc. Ag. (Hons.) degree programme under Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka-1207.

Referees

1. Prof. Dr. Md. Asaduzzaman Khan
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2. Prof. Dr. Homayra Huq
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