

Dr. Asia Khatoon

Publications:

1. **Khatoon A.**, Hussain, M. K. and Sadiq, M. (2000). Effect of salinity on some growth parameters of cultivated sunflower under saline conditions. *International Journal of Agriculture and Biology*. 2(3):210-213.
2. **Khatoon A.**, Qureshi, M. S. and Hussain, M. K. (2000). Effect of salinity on some yield parameters of sunflower (*Helianthus annuus* L.). *International Journal of Agriculture and Biology*. 2(4):382-384.
3. Anjum, Z. I. and **Khatoon, A.** (2003). Chilling effect of germination and seedling vigor of some cultivated species of *Gossypium*. *Asian Journal of Plant Sciences*. 2(3):297-299.
4. Naseer, H.M., Iqbal, N., **Khatoon A.**, Bashir A., Zafar, Y. and Malik, K. A. (2010). Molecular characterization and transcriptome profiling of EXPANSIN genes isolated from *Calotropis procera* fibers. *Electronic Journal of Biotechnology* [online]. Vol.13 No. 5, September 15, 2010, <http://www.ejbiotechnology.cl/content/vol13/issue6/full/7/7.pdf>
5. Naseer, H. M., **Khatoon A.**, Bashir A. and Malik, K. A. (2010). Effect of different antimicrobial agents on the fiber development of *in vitro* cultured cotton ovules. *Pak. J. Bot.*, 42(2): 4235-4242.
6. Bajwa, K.S., Shahid, A.A., Rao, A.Q., Kiani, M.S., Ashraf, M.A., Dahab, A. A., Bakhsh, A., Latif, A., A., Azmat, M., Khan, U., Puspito, A.N., **Aftab A.**, Bashir, A. and Hussain, T. (2013). Expression of *Calotropis procera* expansin gene CpEXPA3 enhances cotton fiber strength. *Australian Journal of Crop Science*. 7(2):206-212.
7. Aslam, U., **Khatoon, A.**, Cheema, H.M.N. and Bashir, A. (2013). Identification and characterization of plasma membrane aquaporins isolated from fiber cells of *Calotropis procera*. *Journal of Zhejiang University SCIENCE-B*. 14(7):586-595.
8. Bajwa, K.S., Shahid, A.A., Rao, A. Q., Bashir, A., **Aftab, A.** and Husnain, T. (2015). Stable transformation and expression of *GhEXPA8* fiber expansin gene to improve fiber length and micronaire value in cotton. *Frontiers in Plant Science* 6(838):1-13 www.frontiersin.org/Journal/Abstract.aspx?s=1277&name=plant_biotechnology&ART_Doi=10.3389/fpls.2015.00838.
6. Bacha, S., **Khatoon, A.**, Asif, M., Yuan, J. and Bashir, A. (2015). Identification and analysis of an efficient dicot constitutive promoter from tomato. *Pak. J. Bot.*, 47(3): 1115-1120.

7. Bacha, S., Khatoon, **A.**, Asif, M., Yuan, J. and Bashir, A. (2015). Deletion analysis of Susy-SI promoter for the identification of optimal promoter sequence. *Pak. J. Bot.*, 47(4): 1287-1292.

11. Iqbal, N., Khatoon, **A.**, Asif, M. and Bashir, A. (2016). Expression analysis of fiber related genes in cotton (*Gossypium hirsutum* L.) through Real Time PCR. *Pak. J. Bot.*, 48(3): 1099-1106.

12. Masood, A., Iqbal, N., Mubeen, H., Naqvi, R.Z., **Khatoon, A.** and Bashir, A. (2016). Cloning and expression analysis of alcohol dehydrogenase (*Adh*) hybrid promoter isolated from *Zea mays*. *African J. Biotechnology*, 15(42):2384-2393.

13. Abid, N., **Khatoon, A.**, Maqbool, A., Irfan, M., Bashir, A., Asif, I., Shahid, M., Saeed, A., Brinch-Pedersen H. and Malik K.A. (2017). Transgenic expression of phytase in wheat endosperm increases bioavailability of iron and zinc in grains. *Transgenic Res.* 26:109–122.

14. Naqvi, R.Z., Asif, M., Saeed, M., Asad, S., **Khatoon, A.**, Amin, I., Mukhtar, Z., Bashir, A., and Mansoor, S. (2017). Development of a Triple Gene *Cry1Ac-Cry2Ab-EPSPS* Construct and Its Expression in *Nicotiana benthamiana* for Insect Resistance and Herbicide Tolerance in Plants. *Frontiers in Plant Sciences*, 8:1-9.

15. **Khatoon, A.**, Iqbal, N., Asif, M., Cheema M. N., Saeed, S. and Bashir, A. (2018). Comparative analysis of fiber morphogenesis genes of *Calotropis procera* and *Gossypium hirsutum*. *Int. J. Agri. Biol.* 20(2): 288-296.

16. Nisar,H., Wajid,B., Shahid, S., Faria Anwar F., Wajid I., **Khatoon A.**, Mian Usman Sattar M. U., andSaima Sadaf S. (2021). Whole-genome sequencing as a first-tier diagnostic framework for rare genetic diseases. *Experimental Biology and Medicine*, 246: 2610–2617

- 17.Wajid, B., Anwar F., Wajid I., Nisar H., Meraj S., Zafar A., Aishawaqfeh K. M., Ekti A. R., **Khatoon A.**, Suchodolski Jan S., (2022). Music of metagenomics-a review of its applications, analysis pipeline, and associated tools. *Functional and integrative Genomics*, 22(1): 3–26

18. Muccee, F., Razzaq, F., **Khatoon, A.**, Haider, K., Khan, A.A. (2023). In-silico characterization of human HER2 gene to predict the breast cancer associated biomarkers. *Biol. Clin. Sci. Res. J.*, 4(1), pp:1-6

19. Aqsa Abbasi, A., Azhar, A., Ijaz, S., Asif, Z., **Khatoon, A.**, Bashir A. and Malik, K.A. (2024). Evaluation of Stress Inducible Monocot Promoters Controlling *HvDehydrin*, *OsHSP101* and *ZmPIS* Genes. Pak. J. Agri. Sci., 61(3): 854-863.
20. Asif, Z., Jabeen, A., Irfan, M., **Khatoon, A.**, Bashir, A. and Malik, K.A. (2025). Stress-Inducible IPT Gene Expression Boosts Antioxidant Defense and Grain Production in Heat-Stressed Maize. Pak. J. Agri. Sci., 62(2). DOI:10.21162/PAKJAS/25.192.