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Research Publications:

2024

1. Ali, M., Shafiq, M., Haider, M. Z., Sami, A., Alam, P., Albalawi, T., . . . Shahid, M. A. (2024). Genome-wide analysis of NPR1-like genes in citrus species and expression analysis in response to citrus canker (*Xanthomonas axonopodis* pv. *citri*). *Frontiers in Plant Science*, 15, 1333286.
2. Ali, N., Abbas, S. A. A. A., Sharif, L., Shafiq, M., Kamran, Z., Haseeb, M., & Shahid, M. A. (2024). Microbial extracellular polymeric substance and impacts on soil aggregation *Bacterial Secondary Metabolites* (pp. 221-237): Elsevier.
3. Bhatti, M. H. T., Sami, A., Haider, M. Z., Shafiq, M., Naeem, S., Tariq, M. R., . . . Irfan, U. (2024). Genetic Diversity of Vegetable Crops and Utilization in Food and Nutritional Security *Sustainable Utilization and Conservation of Plant Genetic Diversity* (pp. 171-197): Springer.
4. Haseeb, M., Shafiq, M., Noman, F., Abbas, S. A. A. A., & Ali, N. (2024). Structure and potential applications of bacterial siderophores *Bacterial Secondary Metabolites* (pp. 159-175): Elsevier.
5. Hussain, M., Javed, M. M., Sami, A., Shafiq, M., Ali, Q., Mazhar, H. S.-U.-D., . . . Hussain, M. (2024). Genome-wide analysis of plant specific YABBY transcription factor gene family in carrot (*Ducus carota*) and its comparison with *Arabidopsis*. *BMC Genomic Data*, 25(1), 26.
6. Sami, A., Haider, M. Z., & Shafiq, M. (2024). Microbial nanoenzymes: Features and applications *Fungal Secondary Metabolites* (pp. 353-367): Elsevier.
7. Sami, A., Haider, M. Z., Shafiq, M., Sadiq, S., & Ahmad, F. (2024). Genome-wide identification and in-silico expression analysis of CCO gene family in sunflower (*Helianthus annnus*) against abiotic stress. *Plant Molecular Biology*, 114(2), 1-19.
8. Sami, A., Han, S., Haider, M. Z., Khizar, R., Ali, Q., Shafiq, M., . . . Sajid, M. (2024). Genetics aspect of vitamin C (Ascorbic Acid) biosynthesis and signaling pathways in fruits and vegetables crops. *Functional & Integrative Genomics*, 24(2), 1-15.
9. Shafiq, M., Abbas, M. T., Mushtaq, S., Khaliq, R., Arshad, H., Haroon, R., . . . Haider, M. S. (2024). Viral diseases of ornamental plants-I *Viral Diseases of Field and Horticultural Crops* (pp. 777-787): Elsevier.

10. Shafiq, M., Ahmad, S., Abbas, M. T., Ahsan, A., Asif, M., & Haider, M. S. (2024). Potato *Viral Diseases of Field and Horticultural Crops* (pp. 353-359): Elsevier.
11. Shafiq, M., Maheen, N., Sadiq, S., Rizvi, S. S. B., & Abbas, M. T. (2024). Tea *Viral Diseases of Field and Horticultural Crops* (pp. 279-283): Elsevier.
12. Shafiq, M., Manzoor, M., Bilal, M., Manzoor, T., Anees, M. M., Rizwan, M., . . . Haider, M. S. (2024). Genome-wide Analysis of Plant Specific YABBY Transcription Factor Gene Family in Watermelon (*Citrullus lanatus*) and Arabidopsis. *Journal of Applied Research in Plant Sciences*, 5(01), 63-78.
13. Shafiq, M., Riaz, H., & Haider, M. S. (2024). Tuber crops: Sweet potatoes *Viral Diseases of Field and Horticultural Crops* (pp. 537-543): Elsevier.

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14. Akram, J., Siddique, R., **Shafiq, M.**, Tabassum, B., Manzoor, M. T., Javed, M. A., . . . Javed, B. (2023). Genome-wide identification of CCO gene family in cucumber (*Cucumis sativus*) and its comparative analysis with *A. thaliana*. *BMC Plant Biology*, 23(1), 640.
15. ALMAS, M., Sami, A., **Shafiq, M.**, BHATTI, M., HAIDER, M., Hashmi, M., & KHALID, M. (2023). Sale price comparison of saggian flower market: a case study. *Bulletin of Biological and Allied Sciences Research*, 2023(1), 39-39.
16. Almas, M. H., Shah, R. A., Tahir, S. M. H., Manzoor, M., **Shafiq, M.**, Shah, M. H., . . . Sami, A. (2023). The Effect of Substrate, Growth Condition and Nutrient Application Methods in Morphological and Commercial Attributes of Hybrid Rose (*Rosa indica* L.) Cv. Kardinal. *Journal of Applied Research in Plant Sciences*, 4(01), 356-362.
17. Haider, M. Z., Sami, A., **Shafiq, M.**, Anwar, W., Ali, S., Ali, Q., . . . Ali, D. (2023). Genome-wide identification and in-silico expression analysis of carotenoid cleavage oxygenases gene family in *Oryza sativa* (rice) in response to abiotic stress. *Frontiers in plant science*, 14.
18. Amna Hameed, Naeem Fatima, Hassan Iftikhar, Asim Mehmood, Muhammad Rizwan Tariq, Shinawar Waseem Ali, Sajid Ali, **Muhammad Shafiq**, Zulfiqar Ahmad, Umair Ali, Madiha Ghazanfar, Madiha Iftikhar, Waseem Safdar, Asif Ahmad, Zunaira Basharat, Zujaja Umer, Maham Khalid (2023). Effect of different drying and cooking treatments on phytochemicals and antioxidant activity in broccoli: an experimental in vitro study. *Food Science and Technology*, 43, e101622.
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20. IFTIKHAR, M., MUNIR, M., TARIQ, M. R., ALI, S. W., **SHAFIQ, M.**, ALI, S., . . . AHMAD, A. (2023). Development of cottonseed-based emulsions for encapsulation of vitamin A. *Food Science and Technology*, 43.
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22. Ishfaqe, Q., **Shafiq, M.**, Ali, M. R., & Haider, M. S. (2023). Is the best resistance strategy against begomoviruses yet to come? A Comprehensive Review. *Summa Phytopathologica*, 48, 151-157.

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24. Khan, F., **Shafiq, M.**, Haider, M., Sami, A., Arshad, A., & Anees, M. (2023). IMPACT OF VARIOUS CONCENTRATIONS OF NACL ON MORPHOLOGICAL ATTRIBUTES OF DIFFERENT CITRUS ROOTSTOCKS UNDER FIELD CONDITIONS. *Bulletin of Biological and Allied Sciences Research*, 2023(1), 50-50.
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26. Maheen, N., **Shafiq, M.**, Sadiq, S., Farooq, M., Ali, Q., Habib, U., . . . Ali, F. (2023). Genome Identification and Characterization of WRKY Transcription Factor Gene Family in Mandarin (*Citrus reticulata*). *Agriculture*, 13(6), 1182.
27. Mariyam, **Shafiq, M.**, Sadiq, S., Ali, Q., Haider, M. S., Habib, U., . . . Shahid, M. A. (2023). Identification and characterization of Glycolate oxidase gene family in garden lettuce (*Lactuca sativa* cv.'Salinas') and its response under various biotic, abiotic, and developmental stresses. *Scientific Reports*, 13(1), 19686.
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29. Mushtaq, S., **Shafiq, M.**, Tariq, M. R., Sami, A., Nawaz-ul-Rehman, M. S., Bhatti, M. H. T., . . . Hussain, M. (2023). Interaction between bacterial endophytes and host plants. *Frontiers in plant science*, 13, 1092105.
30. Sadiq, S., Hussain, M., Iqbal, S., **Shafiq, M.**, Balal, R. M., Seleiman, M. F., . . . Shahid, M. A. (2023). Genome-Wide Identification and Characterization of the Biosynthesis of the Polyamine Gene Family in Citrus unshiu. *Genes*, 14(8), 1527.
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33. Shakeel, M., **Shafiq, M.**, Abbas, S. A. A. A., Haseeb, M., Ali, N., Batool, A., . . . Haider, M. S. (2023). GENOME-WIDE IDENTIFICATION AND CHARACTERIZATION OF PLANT-SPECIFIC DOF TRANSCRIPTION FACTOR GENE FAMILY IN CASHEW (*ANACARDIUM OCCIDENTALE*). *Agricultural Sciences Journal*, 5(1), 83-107.

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the main causal pathogen responsible for rice grain discoloration in Pakistan *Pak. J. Agri. Sci.*, Vol. 59(2), 223-230; 2022 [IF: 0.85]

35. Naila Farooq, Laraib Ather, **Muhammad Shafiq**, Tehmina Anjum³, Mujahid Hussain, Muhammad Haseeb, Numan Ali, Sehrish Mushtaq, Muhammad Saleem Haider Muhammad Adnan Shahid, (2022) *Magnetofection approach for the transformation of okra using green iron nanoparticles* Scientific Reports. DOI : 10.1038/s41598-022-20569-x
36. Tariq, Muhammad Rizwan, Fouzia Shaheen, Sharmeen Mustafa, A. L. I. Sajid, Ammara Fatima, **Muhammad Shafiq**, Waseem Safdar, Muhammad Naveed Sheas, Amna Hameed, and Muhammad Adnan Nasir. "Phosphate solubilizing microorganisms isolated from medicinal plants improve growth of mint." *PeerJ* 10 (2022): e13782.
37. Ijaz, M., Arshad, A., Awan, M. A., Tariq, M. R., Ali, S. W., Ali, S., **Shafiq, M.**, Ahmed, S., Sheas, M. N., Iftikhar, M., Nasir, M. A., Kausar, G., Javed, A. U. I., and Safdar, W. (2022). Exploring the potential of curry leaves on mercury-induced hepatorenal toxicity in an animal model. *Food Sci Nutr* 10, 499-506 [IF: 2.863]
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39. Mobeen Ali, Syeda Shehar Bano Rizvi, **Muhammad Shafiq**, Muhammad Arshad Javed, Ahmad Ali Shahid, Numan Ali1, Muhammad Haseeb, Nosheen. Tabassum, Shumaila Dastgir and Muhammad Saleem Haider (2021) Genome wide in-silico analysis of NPR1 gene family in *Citrus reticulata* and its comparison with *Arabidopsis* *Journal of Applied Horticulture*, 23(3): , 2022 [IF: 0.16] (Publication of PhD Student)
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41. Mushtaq S, Shafiq M, Ashraf T, Haider MS, Atta S, Almaary KS, et al. (2022) Enumeration of citrus endophytic bacterial communities based on illumine metagenomics technique. *PLoS ONE* 17(4): e0263144. <https://doi.org/10.1371/journal.pone.0263144> [IF: 3.24] (Publication of PhD Student)

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45. Mubarak Ali Anjum, Muhammad Ashfaq, Muhammad Saleem Haider, Muhammad Arshad Javed, Muhammad Ali, Bilal Rasool3, **Muhammad Shafiq** and Urooj Mubashar (2021) Barley Chitinase Gene Confers Resistance against *Fusarium oxysporum* and *Alternaria solani* in transgenic Potato AK-22 *INT. J. BIOL. BIOTECH.*, 18 (4): 657-663, 2021.

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62. Sehrish Mushtaq, Muhammad Shafiq, Sohaib Afzaal, Tehseen Ashraf and Muhammad S. Haider (2018) An uncultured bacterium associated with infection in mandarin (*citrus reticulata*) in Pakistan, **World journal of biology and biotechnology** 3(1)179-181

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