Dr. Waqar Ali

List of Publications

1. Ahman S, **Ali W**, Khan S, ul Arifeen MZ, Aziz T, Alwaili MA, et al. Heavy Metal Contamination and Health Risks Assessment in Soil-Rice System Irrigated with Wastewater. BioResources. 2026;21(2):4643-65.

2. Ali A, Ali B, Hussain Z, Zia MA, **Ali W**, Rahman Z, et al. Effect of drought and salinity stress on the expression level of Cry1Ac endotoxins in transgenic Bt cotton. BioResources. 2026;21(2):473.

3. Khan A, Ali Q, Ali A, Han M, Khan NZ, **Ali W**, et al. Cadmium absorption and dehydrin gene expression revealed tolerance to cadmium stress in the rice genotypes. Cereal Research Communications. 2026;54(1):193-207.

4. Ali A, Usman M, Ali W, Khan NZ, Aasim M, Staykov N, Ali A, Munir I, Gechev T. Heterologous Expression of Bacterial Dehydrin Promotes Arabidopsis Tolerance to Cadmium and Arsenic Stress. Genes. 2025;16(12):1413.

5. Khan A, Aasim M, Bibi NS, Saddique H, Ullah H, Khan Z, et al. Utilization of physicochemical approach to propose a strategy for biofilm inhibition. Biofouling. 2025:1-12.

6. Khan NZ, Ali A, **Ali W,** Aasim M, Khan T, Khan Z, et al. Heterologous expression of bacterial dehydrin gene in Arabidopsis thaliana promotes abiotic stress tolerance. Physiology and Molecular Biology of Plants. 2023;29(9):1239-46.

7. Rehman H, **Ali W,** Javed R, Khan NZ, Aasim M, Khan T, et al. In Vitro Evaluation of Antioxidant, Antimicrobial, Cytotoxic, Anti-Inflammatory, Anti-Aging, Enzyme Inhibition Potential, and HPLC Analysis of Traditionally Used Plant Delphinium Uncinatum Wall. Pharmaceutical Chemistry Journal. 2023;57(7):1056-69.

8. Rehman H, **Ali W**, Khan NZ, Aasim M, Khan T, Khan AA. Delphinium uncinatum mediated biosynthesis of zinc oxide nanoparticles and in-vitro evaluation of their antioxidant, cytotoxic, antimicrobial, anti-diabetic, anti-inflammatory, and anti-aging activities. Saudi Journal of Biological Sciences. 2023;30(1):103485.

9. Rehman H, **Ali W**, Ali M, Khan NZ, Aasim M, Khan AA, et al. Delpinium uncinatum mediated green synthesis of AgNPs and its antioxidant, enzyme inhibitory, cytotoxic and antimicrobial potentials. Plos one. 2023;18(4):e0280553.

10. Begum S, Khan T, Khan MA, Zahoor M, Zaman N, **Ali W**. Carbon nanotubes-mediated production of biomass and phenolic compounds in callus cultures of Fagonia indica. Industrial Crops and Products. 2023;195:116408.

11. REHMAN H, Shah M, Shinwari ZK, **Ali W,** ZAMAN N, KHAN MA, et al. Total Phenolic-Flavonoid Contents, Anti-Leishmanial, Antimicrobial And Antioxidant Potentials Of Pakistani Tea Brands And Tea Plant Camellia Sinensis. Pak J Bot. 2022;54(2):667-73.

12. Rahman WU, Hashmi MS, Durrani Y, Shah S, Ahmad A, Alam S, et al. Hypobaric

treatment augments the efficacy of 1-MCP in apple fruit. Journal of Food Science and Technology. 2022:1-9.

13. Iqbal J, Khan AA, Aziz T, Ali W, Ahmad S, Rahman SU, et al. Phytochemical Investigation, Antioxidant Properties and In Vivo Evaluation of the Toxic Effects of Parthenium hysterophorus. Molecules. 2022;27(13):4189.

14. Billah SA, Khan NZ, Ali W, Aasim M, Usman M, Alezzawi MA, et al. Genome-wide in silico identification and characterization of the stress associated protein (SAP) gene family encoding A20/AN1 zinc-finger proteins in potato (Solanum tuberosum L.). Plos one. 2022;17(8):e0273416.

15. Ahmad D, Zehra A, Jalal A, Ali W, Khan MS. Determination of the genetic diversity in populations of halophytic grass S. ioclados using PBA markers. Kuwait Journal of Science. 2022;49(2).

16. Khan AU, Khan T, Khan MA, Nadhman A, Aasim M, Khan NZ, et al. Iron-doped zinc oxide nanoparticles-triggered elicitation of important phenolic compounds in cell cultures of Fagonia indica. Plant Cell, Tissue and Organ Culture (PCTOC). 2021;147(2):287-96.

17. Ahmad S, Khan S, Zeb A, Shah SWA, Ahmad B, Khan AA, et al. Evaluation of analgesic, antiamnesic and antidiarrheal potentials of Medicago denticulata extract using animal model. Saudi Journal of Biological Sciences. 2021;28(11):6352-8.

18. Ahmad B, Yousafzai AM, Zeb A, Ali W, Khan NZ, Aasim M, et al. Therapeutic role of Typha elephantina leaves aqueous extract in paracetamol intoxicated rabbits. Pakistan Journal of Pharmaceutical Sciences. 2021;34.

19. Ahmad B, Yousafzai AM, Khan AA, Attaullah M, Ali W, Ahmad S, et al. Therapeutic effects of Typha elephantina leave's extract against paracetamol induced renal injury in rabbits. Saudi Journal of Biological Sciences. 2021;28(8):4324-8.

20. Ullah I, Khalil AT, Ali M, Iqbal J, Ali W, Alarifi S, et al. Green-synthesized silver nanoparticles induced apoptotic cell death in MCF-7 breast cancer cells by generating reactive oxygen species and activating caspase 3 and 9 enzyme activities. Oxidative medicine and cellular longevity. 2020;2020.

21. Ullah A, Ul Qamar MT, Nisar M, Hazrat A, Rahim G, Khan AH, et al. Characterization of a novel cotton MYB gene, GhMYB108-like responsive to abiotic stresses. Molecular biology reports. 2020;47(3):1573-81.

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Journal of Animal and Plant Sciences. 2020;30(1):192-204.

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25. Rahman S, Ahmad K, Ali N, Idrees M, Ali W. Isolation and characterization of agrobacterium tumefaciens strains from malakander farm, University of Agriculture, Peshawar. Pakistan Journal of Zoology[online]. 2020;52:2019-21.

26. Khan NZ, Lal S, Ali W, Aasim M, Mumtaz S, Kamil A, et al. Distribution and classification of dehydrins in selected plant species using bioinformatics approach. Iranian Journal of Biotechnology. 2020;18(4):e2680.

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28. Ghaffar S, Khan I, Ahmad MA, Umar T, Munir I, Ahmad MN, et al. Effect of fluoride on the physiology and growth indicators of maize (Zea mays L.). Fluoride. 2020;53(3):491-8.

29. Begum S, Zahid A, Khan T, Khan NZ, Ali W. Comparative analysis of the effects of chemically and biologically synthesized silver nanoparticles on biomass accumulation and secondary metabolism in callus cultures of Fagonia indica. Physiology and Molecular Biology of Plants. 2020;26(8):1739-50.

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arsenic stress. New Phytologist. 2012;194(3):716-23.

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38. Ali W, Munir I, Ahmad MA, Muhammad W, Ahmed N, Durrishahwar N, et al. Molecular characterization of some local and exotic Brassica juncea germplasm. African Journal of Biotechnology. 2007;6(14).

39. Ali H, Ali Z, Ali H, Mehmood S, Ali W. In vitro regeneration of Brassica napus L., cultivars (Star, Cyclone and Westar) from hypocotyls and cotyledonary leaves. Pakistan Journal of Botany. 2007;39(4):1251.