

ISRAR UD DIN

PUBLICATIONS

1. Ahmad, A., Ibrahim, M., Yaqoob, M., Fahim, M., Khan, SH., **Ud Din, I.**, Khan M, Ahmad, S. (2026). Genome sequencing reveals genes under selection for olfactory transduction in highland sheep. *Mol Genet Genomics* **301**, 155. <https://doi.org/10.1007/s00438-026-02477-1>
2. Shakeel, Z., Khan, M., **Ud Din, I.** et al. (2026). *Characterization of drought tolerance traits in Ahl15gr inducible transgenic Nicotiana tabacum L. (Solanaceae)*. 3 Biotech. <https://doi.org/10.1007/s13205-026-04985-8>
3. Khan, F., Khan, M., **Ud Din, I.** et al. (2026). Influence of Bacillus subtilis Bioinoculant Application Methods on Growth, Yield Traits, and Biochemical Contents of Wheat (Triticum aestivum L.) Cultivars. Romanian Agricultural Research (Accepted).
4. Shahzad, Z., Ullah, I., Khan, F.U., **Ud Din, I.** (2025). Evaluation of advanced bread wheat lines for yield performance and resistance to stripe rust. *Plant Protection*. <https://doi.org/10.33804/pp.009.02.5590>
5. Mujtaba, H., Khan, F.U., Sufyan, M., **Ud Din, I.** et al. (2025). Utilizing genetic resources to develop yellow rust-resistant and high-yielding wheat genotypes across diverse environments. *Genetic Resources & Crop Evolution*. <https://doi.org/10.1007/s10722-025-02374-3>
6. Khan, S., Ali, N., Khan, F.U., **Ud Din, I.**, Amjad, M., & Ahmad, I. (2025). Genetic diversity in wheat landraces for agronomic traits and yellow rust resistance. *Genetic Resources & Crop Evolution*. <https://doi.org/10.1007/s10722-024-02308-5>
7. Arafat, Y., Shah, A., **Ud Din, I.** et al. (2024). Root interactions in wheat/fababean intercropping system enhanced growth performance and yield. *Rhizosphere*. <https://doi.org/10.1016/j.rhisph.2024.101007>
8. Shah SN, Ercisli S, Zaman A, **Ud Din I**, Khan FU et al. (2024). SEM and LM insights: Spore morphology and its taxonomic significance in Sino Himalayan, Malesian, and European elements of Pteridaceae. *Microscopy Research & Techniques* (IF: 2.5). <https://doi.org/10.1002/jemt.24583>
9. Beretta VM, Franchini E, **Ud Din I** et al. (2023). The ALOG family members OsG1L1 and OsG1L2 regulate inflorescence branching in rice. *The Plant Journal* (IF: 7.091). <https://doi.org/10.1111/tpj.16229>
10. **Ud Din I**, Khan S, Khan FU, Khan M, Khan MN et al. (2023). Genetic Characterization of Advance Bread Wheat Lines for Yield and Stripe Rust Resistance. *ACS Omega* (IF: 3.7). <https://doi.org/10.1021/acsomega.3c01981>
11. Tahir, O.; Bangash, S.A.K.; Ibrahim, M.; Shahab, S.; Khattak, S.H.; **Ud Din, I.**; Khan, M.N. et al. (2023). Evaluation of Agronomic Performance and Genetic Diversity Analysis Using Simple Sequence Repeats Markers in Selected Wheat Lines. *Sustainability*, 15, 293 (IF: 3.25). <https://doi.org/10.3390/su15010293>
12. Fazal, U., **Ud Din, I.**, Khan, AM., et al. (2022). Evaluation of agro-morphological traits, seed characterization and genetic diversity of local rice (*Oryza sativa* L.) varieties of Pakistan. *Genetic Resources and Crop Evolution* (IF: 1.52). <https://doi.org/10.1007/s10722-022-01478-4>

13. Ibrahim M, Ahmad S, **Ud Din I**, Ahmad W, et al. (2022). Microsatellite analysis revealed potential DNA markers for gestation length in Kari sheep. *Animals* 12(23), 3292 (IF: 3.23). <https://doi.org/10.3390/ani12233292>
14. Ullah S, Khan MN, Lodhi SS, Ahmed I, Tayyab M, Mehmood T, **Ud Din I**, Khan M, Sohail Q and Akram M (2022). Targeted metabolomics reveals fatty acid abundance adjustments as playing a crucial role in drought-stress response and post-drought recovery in wheat. *Frontiers in Genetics* 13:972696 (IF: 4.77). <https://doi.org/10.3389/fgene.2022.972696>
15. S. Bibi, S. Ullah, A. Hafeez, M.N. Khan, M.A. Javed, B. Ali, **Ud Din I**, S.A.K. Bangash et al. (2022). Exogenous Ca/Mg quotient reduces the inhibitory effects of PEG induced osmotic stress on *Avena sativa* L. *Brazilian Journal of Biology* 84-2024 (IF: 1.65). <https://doi.org/10.1590/1519-6984.264642>
16. Khan MN, Ahmad I, **Ud Din I** et al. (2022). Proteomic insight into soybean response to flooding stress reveals changes in basic energy metabolism and cell wall modifications. *PLOS ONE* 17(5): e0264453 (IF: 3.75). <https://doi.org/10.1371/journal.pone.0264453>
17. Mehmood, S., **Ud Din, I.**, Ullah, I. et al. (2021). Agro-morphological and genetic diversity studies in Rice (*Oryza sativa* L.) germplasm using microsatellite markers. *Molecular Biology Reports* (IF: 2.3). <https://doi.org/10.1007/s11033-021-06710-5>
18. Amjad SF, Mansoor N, **Ud Din I**, Khalid Iqbal R et al. (2021). Application of Zinc Fertilizer and Mycorrhizal Inoculation on Physio-Biochemical Parameters of Wheat under Water-Stressed Environment. *Sustainability* 13(19):11007 (IF: 3.25). <https://doi.org/10.3390/su131911007>
19. Jun Chen, Zhou L, **Ud Din I**, Arafat Y et al. (2021). Antagonistic Activity of *Trichoderma* spp. Against *Fusarium oxysporum* in Rhizosphere of *Radix pseudostellariae* Triggers Host Defense Genes and Improves Growth Under Long-Term Monoculture. *Frontiers in Microbiology* (IF: 4.07). DOI:10.3389/fmicb.2021.579920
20. Arafat Y, **Ud Din I**, Tayyab M, Hang JU, Chen T et al. (2020). Soil-sickness in aged tea plantation is associated with a shift in microbial communities as a result of plant polyphenol accumulation. *Frontiers in Plant Science*, 11: 601 (IF: 5.7). <https://doi.org/10.3389/fpls.2020.00601>
21. Jun Chen J., Arafat Y, **Ud Din I**, Yang B, Zhou L et al. (2019). Nitrogen Fertilizer Amendment Alter the Bacterial Community Structure in the Rhizosphere of Rice (*Oryza sativa* L.) and Improve Crop Yield. *Frontiers in Microbiology* 10:2623 (IF: 4.07). doi:10.3389/fmicb.2019.02623
22. Khan AM, Uddin R, Rehman ZU, **Ud Din I**, Muhammad A, Ali Q et al. (2019). Genetic variability and heritability for yield and yield associated traits among *Brassica napus* genotypes. *Int. J. Biosciences* 14(4), 369–377.
23. Harrop TW, **Ud Din I**, Gregis V, Osnato M, Jouannic S, Adam H, Kater MM. (2016). Gene expression profiling of reproductive meristem types in early rice inflorescences by laser microdissection. *The Plant Journal* 86(1):75–88 (IF: 6.17). doi:10.1111/tpj.13147
24. Shah AH, Shah SH, Ahmad H, Baig A, Swati ZA, Aiman U, **Ud Din I**, Khalid Q, and Shah AH. (2011). Co adaptation of LiCl tolerant *Solanum tuberosum* L. callus cultures to NaCl stress. *African Journal of Biotechnology* 10(62):13444–52.

Book Chapters

Khan, F.U., Abbas, F., Ali, H., **Ud Din I.**, Rehman, A.U., & Phillips, M. (2025). Biotechnology and Genomics for Developing Climate-Resilient Crops in the Gulf Region. In *World Sustainability Series* (pp. 577–589). Springer Science and Business Media Deutschland GmbH. https://doi.org/10.1007/978-3-032-00098-9_46