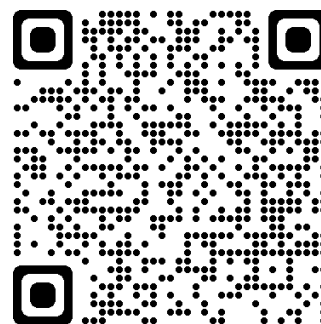


Curriculum Vitae



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Education Background:

2018-2021

Ph.D. in Cotton Germplasm Resources

Institute of Cotton Research, Anyang/Graduate School of Chinese Academy of Agricultural Sciences, Beijing, China.

Thesis title: Identification and validation of effector genes for drought tolerance in cotton through genome wide association Study (GWAS)

2015-2017

Master of Sciences (Hons.) Plant Breeding and Genetics

PMAS, Arid agriculture university, Rawalpindi, Pakistan.

Thesis title: Genetic Analysis for Drought Tolerance in Cotton (Genetic components and Line x Tester analysis for physiological trait of cotton)

2011-2015

Bachelor of Sciences (Hons.) Agriculture

PMAS, Arid agriculture university, Rawalpindi, Pakistan.

Project title: Characterization of High Yielding and Drought Tolerant Cotton Genotypes Under Rainfed Conditions

Research Interests/Skills:

Molecular plant breeding, stress plant physiology, genome-wide association studies, cotton stress biology, marker assisted selection / molecular marker development, statistical analysis, experimental design, post-GWAS analysis, transcriptomics, metabolomics, VIGS analysis,

Publication:

- **Mahmood, T.**, Khalid, S., Abdullah, M., Ahmed, Z., Shah, M.K.N., Ghafoor, A., and Du, X. Insights into Drought Stress Signaling in Plants and the Molecular Genetic Basis of Cotton Drought Tolerance. *Cells* **2020**, 9, 105. [DOI: 10.3390/cells9010105](https://doi.org/10.3390/cells9010105) (IF: 6.6)
- **Mahmood, T.**, Abdullah, M., Ahmar, S., Yasir, M., Iqbal, M.S.; Yasir, M., Rehman, S.U.; Ahmed, S., Rana, R.M., Mora-Poblete F., Ghafoor, A., Sha M. k. N., and Du, X.. Incredible role of osmotic adjustment in grain yield sustainability under water scarcity conditions in wheat (*Triticum aestivum* L.). *Plants* **2020**, 9(9), 1208. [DOI: 10.3390/plants9091208](https://doi.org/10.3390/plants9091208) (IF: 3.9)

- Zhao, Z., Hu, D., Azhar, M.T., Li, H., Ma, C., He, S., Wang, X., Sun, G., **Mahmood, T.**, Dev, W., et al. Genome-wide association and transcriptome analysis of root color-related genes in *Gossypium arboreum* L. *Planta* **2021**, 253, 1–11. DOI: [10.1007/s00425-021-03622-3](https://doi.org/10.1007/s00425-021-03622-3) (IF: 3.39)
- Ahmar S, **Mahmood T.**, Mora-Poblete F., Ballesta P., Shafiq S, Chatta M. S., Advantage of nanotechnology-based genome editing system and its application in crop improvement. *Frontier in plant sciences*. 2021. (IF: 5.4)
- **Mahmood T.**, Abdullah M., Ahmar S., Kamran M., Iqbal M. S., Yasir M., Khalid S, Mora-Poblete F., Ghafoor A., Shah M. K. N, and Du X. 2021. Genetic potential and inheritance pattern of phenological, physiological and yield traits in cotton under semi-arid conditions. *Frontier in plant sciences* 2021. (IF: 4.4)
- **Mahmood, T.**, Rana, R.M., Ahmar, S., Saeed, S., Gulzar, A., Khan, M.A., Wattoo, F.M., Mora-Poblete, F., Gabrielle Sousa Mafra, X. Du. Effect of drought stress on capsaicin and antioxidant contents in pepper genotypes at reproductive stage. *Plants* (IF: 3.9)

Under Consideration from Ph.D. work

- **Mahmood T**, Iqbal M S, Hu D, Nazir M F, Khalid S, Li H, Sarfraz Z, Geng X, Iqbal Z, Dev W, Tajo S M, Zhaoe P, & Du X, 2021. Role of roots in drought induced differential seedling growth rate in cotton. *Plant Plant interactions*, (IF: 2.9) (under review).
- **Mahmood T**, Iqbal M S, Nazir M F, Khalid S, Sarfraz Z, Zhaoe P, & Du X. A dedicated region and Intensive haplotypes associated with plant height on chromosome A05 and D05 in *Gossypium barbadense* L. (Expected IF: 7-8)
- **Mahmood T**, Iqbal M S, Nazir M F, Khalid S, Sarfraz Z, Zhaoe P, & Du X. GWAS signals and genetic basis associated with drought tolerance in *Gossypium barbadense* L. (Expected IF: 7-8)