

# Zulfiqar Ali, PhD

## Contact Details

Designation Professor/Director  
Address Office of Research Innovation and Commercialization, The MNS University of Agriculture, Multan Pakistan  
p:+92 61 9201684 c: +92 300 684220  
CNIC [zulfiqarpbg@hotmail.com](mailto:zulfiqarpbg@hotmail.com)  
Highest Qualification PhD, Postdocs  
**Impact Factor 141.022**



## Curriculum Vitae

BSc(Hons)Agri: in Plant Breeding and Genetics, Univ. Agri. Faisalabad, Pakistan. 1991-96. CGPA (3.80/4.00 – 79%).  
MSc(Hons)Agri: in Plant Breeding and Genetics, Univ. Agri. Faisalabad, Pakistan. 1996-98. CGPA (3.98/4.00 – 85%).  
PhD: in Plant Breeding and Genetics, Univ. Agri. Faisalabad, Pakistan. 1998-2004 (81%).  
Post-doc: PBI, The University of Sydney, Australia. 2007-08.  
Post-doc: Jiangsu Academy of Agricultural Sciences, Nanjing, China. 2009-2011.

**Awards** 05 awards including **PAS Gold Medal** 2017 in Biotechnology.

**Other Distinctions** 10 scholarship/fellowships including merit scholarship holder throughout academic career.

**Professional Trainings** 25 teaching, research, IT and defence trainings.

**Teaching and research Experience** 21 years in local/foreign Universities including 5<sup>th</sup> year as **Professor**

**Administrative Experience** 12 years including 5<sup>th</sup> year as **Director ORIC**

**Research Interests** Resource conservation molecular breeding. **Lead** cereal and fibre research group.

**Supervision of Theses** **Supervisor:** 08 PhD 52 MSc(Hons) **Member:** 09 PhD 49 MSc(Hons)

**Development projects** 03 projects **Worth:** PKR 195.000 million

## On-going Research Projects

- Working as PI for **HEC funded TDF** project “Exploiting Sugarcane Tissue Culture Technology To Support Famers And Sugar Industry By Provision Of Disease Free Sugarcane Seedling”. Duration: 2019-21 (2 years) Amount: **PKR 6.731 million**.
- Project Manager for **PARB funded** project “Improving yield, drought and salinity tolerance in wheat through GA-sensitive dwarfing gene system”. Duration: 2017-2022 (5 years). Amount: **PKR 47.189 million**.
- Working as PI for **USAID/PARB funded** project “Development of drought and heat tolerant wheat germplasm by dynamic assembly of leaf surface structural traits to self-irrigate with fog water”. Duration: 2017-2019 (2 years) Amount: **\$98,673**
- Working as Team Leader – Breeding of **DFID funded** International project “Hybrid wheat for Food Security”. Duration: 2016-2020 (5 years). Amount: **£86,300**
- Working as component PM for **ACIAR funded** project “Increasing productivity and profitability of pulse production in cereal based cropping systems in Pakistan”. Duration 2016-2020 (5 years). Amount: **AUD 2.313 million**.
- Working as PI for **HEC funded NRPU** project “Determination of Association of Expression Level and Haplotypes of Oryza sativa L. Phosphorus Transcription Factor 1 (OsPTF1) with Phosphorus Use Efficiency in Rice”. Duration: 2015-2018 (3years) Amount: **PKR 3.979 million**.
- Working as PI for **HEC funded NRPU** project “Expression analysis and haplotypes of TaWRKY transcription factors and salt responsive genes to enhance salinity tolerance in wheat germplasm”. Duration: 2016-2019 (3 years) Amount: **PKR 10.868 million**
- Working as component Project Director for **Punjab Government funded** commissioned project “Commissioned Research for Development of Cotton Seed”. Duration: 2016-2021 (5 years). Amount: **PKR 92.185 million**.

**Completed Projects** 04 projects **Worth:** PKR 18.000 million

**Refereed Publications** 65 Foreign (30 – IF28), National (35 – IF12) **Books/Manual/Monograph** 04

**Book Chapters** 05 **Conference Publications/Abstracts** 32 **Newspaper articles** 02

**Patents** 04 **Technologies** 05 **Oral presentations** 25

## Selected publications

1. Ali, Z., Q. Raza, R.M. Atif, U. Aslam, M. Ajmal, and G. Chung. 2019. Genetic and Molecular Control of Floral Organs Identity in Cereals. *Int. J. Mol. Sci.* 20: 2743. [IF=4.183].
2. Shakir S., M.S. Nawaz-Ul-Rehman, M. Mubin and Z. Ali. 2018. Characterization, phylogeny and recombination analysis of Pedilanthus leaf curl virus-Petunia isolate and its associated betasatellite. *Viro. J.* 15(1):134. doi: 10.1186/s12985-018-1047-y. [IF=2.468].
3. Xu, Z., Q. Raza, L. Xu, X. He, Y. Huang, J. Yi, D. Zhang, H. Shao, H. Ma and Z. Ali. 2018. GmWRKY49, a salt responsive nuclear protein, improved root length and govern better salinity tolerance in transgenic Arabidopsis. *Front. Plant Sci.* [IF=4.106].
4. Saddique, M.A.B., Z. Ali, A.S. Khan, I.A. Rana and I.H. Shamsi. 2018. Inoculation with the endophyte *Piriformospora indica* significantly affects mechanisms involved in osmotic stress in rice. *Rice* 11:34. [IF=3.513].
5. Rahman, M.H., A. Ahmad, X. Wang, A. Wajid, W. Nasim, M. Hussain, B. Ahmad, I. Ahmad, Z. Ali, W. Ishaque, M. Awais, V. Shelia, S. Ahmad, S. Fahd, M. Alam, H. Ullah, G. Hoogenboom. 2018. Multi-model projections of future climate and climate change impacts uncertainty assessment for cotton production in Pakistan. *Agric. Forest Meteor.* 253–254:94–113. [IF=5.317].
6. Saddiq, M.S., I. Afzal, S.M.A. Basra, Z. Ali and A.M.H. Ibrahim. 2017. Sodium exclusion is a reliable trait for the improvement of salinity tolerance in bread wheat. *Arch. Agron. Soil Sci.* DOI:10.1080/03650340.2017.1346373 [IF=1.681]
7. Xu, Z\*, Z. Ali\*, (\* equal contribution) L. Xu, X. He, Y. Huang, J. Yi, D. Zhang and H. Ma. 2016. The nuclear protein GmbZIP110 has transcription activation activity plays important roles in the response to salinity stress in soybean. *Sci. Rep.* 6, 20366; doi: 10.1038/srep20366. Babar Hussain\*, Abdus Salam Khan and Zulfiqar Ali. 2015. Genetic variation in wheat germplasm for salinity tolerance at seedling stage: Improved statistical inference. *Turk J Agric For.* 39: 182-192. [IF=1.434].
8. Zhang D\*, Z. Ali\*, (\* equal contribution) C. Wang, L. Xu, J. Yi, Z. Xu, X. Liu, X. He, Y. Huang, I.A. Khan, R.M. Trethowan and H. Ma. 2013 Genome-wide sequence characterization and expression analysis of major intrinsic proteins in soybean (*Glycine max* L.). *PLoS One* 8(2): e56312.. [IF=4.092].
9. Ali Z\*, D. Zhang\*, (\* equal contribution) Z. Xu, L. Xu, J. Yi, X. He, Y. Huang, X. Liu, A.A. Khan, R.M. Trethowan and H. Ma. 2012. Uncovering the Salt Response of Soybean by Unraveling its Wild and Cultivated Functional Genomes Using Tag Sequencing. *PLoS One* 7(11): e48819. doi:10.1371/journal.pone.0048819. [IF=4.092].
10. Ali Z., A. Salam, F.M. Azhar, I.A. Khan, A.A. Khan, S. Bahadur, T. Mahmood, A. Ahmad and R. Trethowan. 2012. The response of genetically distinct bread wheat genotypes to salinity stress. *Plant Breed* 131: 707-715. doi:10.1111/j.1439-0523.2012.02002.x. [IF=1.596]
11. Trethowan, R.M., T. Mahmood, Z. Ali, K. Oldach and A.G. Garcia. 2012. Breeding wheat cultivars better adapted to conservation agriculture. *Field Crops Res.* 132:76-83. doi:10.1016/j.fcr.2011.10.015. [IF=4.683]
12. Azhar, F.M., Z. Ali, M.M. Akhtar, A.A. Khan and R. Trethowan. 2009. Genetic variability of heat tolerance, and its effect on yield and fiber quality traits in upland cotton (*Gossypium hirsutum* L.). *Plant Breed.* 128, 356-362. doi:10.1111/j.1439-0523.2008.01574.x. [IF=1.596]
13. Ali, Z., A. Salam, F.M. Azhar and I.A. Khan. 2007. Genotypic variation in salinity tolerance among spring and winter wheat (*Triticum aestivum* L.) accessions. *S. Afr. J. Bot.* 73:70-75. [IF=1.591]

## Co-curricular Interests

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1. Subject Editor, Pakistan Journal of Agricultural Sciences.
2. Subject Editor, Agricultural Sciences Journal
3. Member Executive Committee Punjab Agriculture Research Board
4. Member National Curriculum Revision Committee (NCRC), HEC, Islamabad.
5. Program Evaluator, National Agricultural Education Accreditation Council, HEC Islamabad.
6. Secretary Institutional Biosafety Committee
7. Member Faculty Board, Faculty of Agricultural and Environmental Sciences, UAM.
8. Member Academic Council, UAM.
9. Member Executive Committee, UAM
10. Member Advanced Studies and Research Board, UAM
11. Member Advanced Studies and Research Board, PMAS-UAA Rawalpindi
12. Team Leader of Institutional Self-Assessment Team.
13. Organizer and member of several International/national conferences/Seminars, Outreach activities etc