***Dr. Farhan Ali (PhD)***

1. Cereal Crops Research Institute Pirsabak Nowshera Khyber Pakhtunkhwa, Pakistan.
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***CURRICULUM VITEA***

**EDUCATION**

* ***Huazhong Agricultural University Wuhan, China***

Ph.D in Genetics, Supervise by Prof. Jianbing Yan

* ***The University of Agriculture, Peshawar Pakistan***

M.Sc. (*Hons*) and B.Sc. (*Hons*) in Plant Breeding and Genetics, Supervised by Prof. Hidayat Ur Rahman

**AWARDS AND HONORS**

* Awarded with **“President of Pakistan Award”** on outstanding performance during undergraduate study
* **Secured 1st position** in B.Sc (Hons)
* Awarded with **Merit Scholarship** during undergraduate
* **Employed by the university of Agriculture** during M.Sc. (Hons)
* Accolade with **Merit scholarship** for PhD by CSC
* **Got Second Award** in the International Conference of “Plant Genomics in China”
* **Got Second Prize** in National Key Lab. inter competition among PhD students
* **First Prize** in China National PhD Forum
* **Honored** with science and technology allowance
* **Published 28** Scientific research articles with almost high impact factor
* **About 284** google scholar citation since 2010
* **First Prize** in Huazhong Agricultural University Badminton Tournament
* **Second Prize** in Huazhong Agricultural University Table Tennis Tournament.

**ACADEMIC WORK EXPERIENCE**

* 16th September, 2009 till date, Research Officer (BPS-17). NWFP Agricultural Research System (CCRI, Pirsabak) Nowshera, Pakistan
* 2006-2009, Research Associate (BPS-17), The University of Agriculture Peshawar, Pakistan.
* 2 Years Experience as a Research Associate in the project sponsored by Higher Education Commission (HEC) “Modified Double Cross Hybrid as a Source of Low Cost Seed in Maize”

**CONFERENCES AND TRAINING**

* Haplotype-based genome-wide association study of resistance loci to Northern Leaf Blight in maize. Junqiang Ding, Farhan Ali, George Mahuku, Hui Li, Jianbing Yan. 2011. <http://www.plantgenomics.cn/?q=gcgi_abs/show_abs/457>
* The Second International Symposium on Genomics and Crop Genetic Improvement 2011, China.
* The First Workshop of Plant Association Study 2011, China.
* Integrated Crop Management Programme (ICM) Pak/Swiss Project for Horticultural promotion (PHP) in NWFP in collaboration with CBA International Regional Bioscience Centre.
* Development of Disease Resistance and High Yielding Varieties for NWFP, Pakistan.
* Modified double cross hybrid as a source of low cost seed in maize and public private partnership for maize yield improvement.

**CURRENT RESEARCH INTERESTS**

* Enhancement of disease resistance in global maize germplasm via genome wide association studies
* Multiple disease resistance and fine mapping of disease resistance QTLs
* Explore complex quantitative traits with joint linkage-association methods in maize
* Estimation of combining ability and characterization of maize for the production of high yielding disease resistant hybrids
* Development of maize germplasm with high level of desirable attributes for commercial breeding
* Working in collaboration with CIMMYT for enhancing maize yield via hybridization and other plant breeding approaches for Pakistan.

**PROFESSIONAL SKILLS**

* Fluent in English and excellent verbal/written communication skills.
* Familiar with computer software to perform different types of phenotypic and genetic analyses.
* Strong background in Genetics, Molecular Breeding, precision Phenotyping and Selection.
* About 10 years field management experiences, adapting in high strengthen outdoor work
* Experience in trait phenotyping and data interpretation
* Team worker and experienced trainer
* Competent player of Cricket, Badminton and Table Tennis

**PUBLICATIONS**

**Published Peer Review Articles**

1. Kashif Z. Rafiq, **Farhan Ali\***et al., (2016). Response and tolerance mechanism of cotton *Gossypium Hirsutum* L. to elevated temperature stress; A review. Frontier of Plant Science. doi: 10.3389/fpls.2016.00937
2. Ewas M, Gao Y, Liu X, Zhang H, Nishawy E, **Farhan Ali**, Shahzad R, Ziaf K, Subthain H, Martin C, Luo J (2016). Manipulation of SlMXl for enhanced carotenoids accumulation and drought resistance in tomato. Science Bulliten. 61: 1413-1418. DOI:[10.​1007/​s11434-016-1108-9](http://dx.doi.org/10.1007/s11434-016-1108-9)
3. Waseem Hassan, Safdar Bashir, **Farhan Ali**, Mubshar Hussain, Muhammad Ijaz (2016). Cadmium pollution and comparative effectiveness of ACC-deaminase and/or nitrogen fixing rhizobacteria in growth promotion of wheat (*Triticum aestivum* L.). Environmental Earth Science. DOI 10.1007/s12665-015-4902-9
4. **Farhan Ali\***, Junqiang Ding\*, George Mahuku, Ning Yang, Luis Narro, Cosmos Magorokosho, Dan Makumbi, Jianbing Yan. (2015) Revealing the genetic architecture of global maize collection for northern leaf blight. BMC Plant Biolog. 15:206. DOI 10.1186/s12870-015-0589-z
5. Ning Yang, Yanli Lu, Xiaohong Yang, Juan Huang, Yang Zhou, **Farhan Ali**, Weiwei Wen, Jie Liu, Jiansheng Li, and Jianbing Yan (2014). Genome wide association studies using a new nonparametric model revealing the genetic architecture of 17 agronomic traits in an enlarged maize association panel. PLoS Genet 10(9): e1004573. doi:10.1371/journal.pgen.1004573
6. Farooq Shah, Lixiao Niea, Kehui Cui, Tariq Shah, Wei Wu, Chang Chen, Liyang Zhu, **Farhan Ali**, Shah Fahad, Jianliang Huang (2014). Rice grain yield and component responses to near 2◦C of warming. Field Crop Res 157: 98–110.
7. **Farhan Ali,** QingChun Pan, Genshen Chen, Jianbing Yan (2013). Evidence of multiple disease resistance (MDR) and implication of meta-analysis in marker assisted selection. PLOS ONE 8 (7), e68150.
8. JieXu, Ling Liu, YunbiXu, Churun Chen, **Farhan Ali**, Shufeng Zhou, Fengkai Wu, Yaxi Liu, Jing Wang, Moju Cao, Yanli Lu (2013). Development and Characterization of SSR Markers Providing Genome-wide Coverage and High Resolution in Maize. DNA Research June 26, 2013 doi: 10.1093/dnares/dst026.
9. Sabra Begum, Muhammad Noor, HidayaturRahman, Ghulam Hassan, Durrishahwar, HidayatUllah, Alia and **Farhan Ali\***. (2013). Heritability Estimates and Correlations among Flowering and Yield Related Traits in Mung bean Genotypes. Genet Mol Res. 3 (3):472-481.
10. **Farhan Ali,** Kashif Rafiq Zahid, Farooq Shah, Rozina Gul, Qingchun Pan, Hira, Gulam Mustafa, Yousaf Jamal, Hamayoon Khan, Hidayat Ullah (2013). Heterosis and early generation testing is a pivotal method for production of hybrid. Aus. J Crop Sci. 7(11):1728-1736.
11. Muhammad Noor, Durrishahwar, Hidayat ur Rahman, **Farhan Ali\*,** Muhammad Iqbal, Irfan Ahmad Shah and Ihteramullah. (2013). Change in heritability estimates due to half-sib family selection in the maize variety Pahari. Genet Mol Res. 12(2):1872-81.
12. **Farhan Ali** and Jianbing Yan (2012). Phenomenon of disease resistance in maize and the role of molecular breeding in defending the global threat. Journal of Integrative Plant Biology 54: 134–151.
13. Qingchun Pan, **Farhan Ali**, Xiaohong Yang, Jiansheng Li, Jianbing Yan\* (2012). Exploring the genomic characteristics of two RIL populations via high density SNP markers in maize PLoS ONE 7(12): e52777**.**
14. **Farhan Ali\***, Irfan Ahmed Shah, Hidayat Ur Rahman, Mohammad Noor, Muhammad Yasir Khan, Ihteram Ullah, Durrishahwar and Jianbing Yan (2012). Heterosis for yield and agronomic attributes in diverse maize germplasm. Aus. J Crop Sci. 6(3): 455-462.
15. **Farhan Ali\***, Mareeya Muneer, JieXu, Durrishahwar, Hidayat ur Rahman, Yanli Lu, Waseem Hassan, HidayatUllah, Muhammad Noor, Iltaf Ullah, Jianbing Yan (2012). Accumulation of desirable alleles for southern leaf blight (SLB) in maize (*Zea mays* L.) under the epiphytotic of *Helminthosporiummaydis*. Aus. J Crop Sci. 6(8):1283-1289**.**
16. XuShutu, Zhang Dalong, Cai Ye, Zhou Yi, Shah Trushar, **Farhan Ali**, Li Qing, Li Zhigang, Wang Weidong, Li Jiansheng, Yang Xiaohong, Yan Jianbing (2012). Dissecting tocopherols content in maize (*Zea mays* L.), Using two segregating populations and high density SNP markers (2012). BMC Plant Biology 2012, 12:201.
17. Waseem Hassan, Muhammad Akmal, Muhammad Younas, Ibrahim Muhammad, Kashif Rafiq Zahaid, **Farhan Ali\*** (2012). Response of soil microbial biomass and enzymes activity to cadmium toxicity under different soil textures and incubation times. Aus. J Crop Sci. 7 (5): 674-680.
18. Hidayat Ullah, Iftikhar Hussain Khalil, Durrishahwar, Iltafullah, Ibni Amin Khalil, Muhammad Qasim, Shah Masaud Khan, Jianbing Yan and **Farhan Ali\*** (2012). Selecting high yielding and stable mungbean (*Vigna radiata* (L.) Wilczek) genotypes using GGE Biplot Technique. Canadian journal of Plant Science.92(5): 951-960.
19. Durrishahwar, Hidayat Ur Rahman, Muhammad Noor, Ihteramullah, **Farhan Ali\***, Irfan Ahmed Shah, Syed Mehar Ali Shah, Hidayat Ullah and Nasir Mehmood (2012) Characterization of sorghum germplasm for various morphological and fodder yield parameters. African Journal of Biotechnology. 11(56): 11952-11959.
20. Khalid A. Osman, Ahmed M. Mustafa, **Farhan Ali**, Zheng Yonglian and QiuFazhan (2012). Genetic variability for yield and related attributes of upland rice genotypes in semiarid zone (Sudan). African Journal of Agricultural Research. 7(33): 4613-4619.
21. Salman Ahmad, Muhammad Noor, **Farhan Ali**, Hidayat ur Rahman, Durrishahwar, Khilwat Afridi, Ihteramullah and Ikramullah (2012). Potential of Sunflower (*Helianthus annus* L.) Double Cross Hybrid as a commercial production-grain cultivar. International Research Journal of Agricultural Science and Soil Science. 2(3): 094-097.
22. **Farhan Ali\***, Durrishahwar, Mareeya Muneer, Waseem Hassan, Hidayat ur Rahman, Muhammad Noor, Tariq Shah, Iltaf Ullah, Muhammad Iqbal, KhilwatAfridi and HidayatUllah (2012). Heritability estimates for maturity and morphological traits based on testcross progeny performance of maize. Journal of Agricultural and Biological Science.7 (5): 317-324.
23. **Farhan Ali\***, Mareeya Muneer, Hidayat ur Rahman, Muhammad Noor, Durrishahwar, Sabina Shaukat, Jianbing Yan, (2011). Heritability estimates for yield and related traits based on testcross progeny performance of resistance maize inbred lines. Journal of Food Agriculture and Environment. 9: 438-443.
24. **Farhan Ali\***, Hidayat ur Rahman, Durrishahwar, Iffat Nawaz, Mareeya Muneer and Hidayat Ullah (2011). Genetic analysis for maturity and morphological traits under maydis leaf blight (MLB) epiphytotic in maize (*Zea mays* L.) ARPN Journal of Agricultural and Biological Science.6:13-19.
25. Ibni Amin Khalil, H. Rahman, Nasir Saeed, Naqibullah khan, Durrishawar, Iffat Nawaz, **Farhan Ali**, and M. Sajjad (2010). Combining ability in maize single cross hybrids for grain yield: A graphical analysis. Sarhad J. Agric. 26(3): 369-371.
26. Khalil IA. , Rahman H. Durrishahwar, Nawaz I. Hidayatullah, **Farhan Ali** (2010). Response to selection for grain yield under maydis leaf blight stress environment in maize (*Zea mays*). Biological Diversity and Conservation. 3(1): 121-127.
27. Durrishahwar, Hidayat ur Rahman, Syed Mehar Ali Shah. Ibni Amin Khalil and **Farhan Ali** (2008). Recurrent selection for yield and yield associated traits under leaf blight (*Helminthosporium maydis*) stress in maize. Sarhad J. Agric. 24: 599-606.
28. Rozina Gul, Ali Sajjid., Khan Humayoon. Nazia, **Farhan Ali**, Ali Imran (2007). Variability among mungbean (*Vigna radiata*) genotypes for yield and yield components grown in Peshawar valley. Journal of Agricultural and Biological Science. 2: 5-9.

**Articles in Process**

1. Farhan Ali, Haiying Guan, Qingchun Pan. Dissection of recombination attributes for multiple populations using same SNP assay in maize. Submitted to “scientific reports”.
2. The Tomato DOF Daily Fluctuations, 1 TDDF1 acts as flowering accelerator and protector against various stresses. Mohamed Ewas, Ziaf Khurram, Ali Farhan, et al., Journal of experimental botany.
3. Identifying functional alleles of *ZmNYC1* by association mapping in maize (*Zea mays* L.). Submitted to Euphytica.
4. Communication between Enhancers and Transcriptional Factors Suppresses Cancer Development and Increases Gene Transcription through Chromatin Accessibility.   
   Kashif Rafiq Zahid, Farooq Shah, Farhan Ali, et al., under revision Epigenetics and Chromatin
5. RNA-seq reveals mechanisms of SlMX1 for enhanced carotenoids and terpenoids accumulation along with stress resistance in tomato. Mohamed Ewas, Farhan Ali et al., under revision in “Science Bulletin”