

Dr. Abid Ullah  
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## Career Objective

Strive to be a scientist, utilizing my potential and broaden theoretical knowledge with practical experience.

## Academic Credentials

Assistant Professor	Department of Botany, University of Malakand	2018.....
Research Associate	National Key Laboratory of Crop Genetics and Improvement, College of Plant Science and Technology, Huazhong Agricultural University, Wuhan, China	Sep 2014 - Jul 2018
PhD, Plant genetics and breeding	Huazhong Agricultural University, Wuhan, China	2014-2018
M.phill, Plant sciences	Quaid-i-Azam university Islamabad, Pakistan	2012-2014
BS (Hons 4 years) Botany (16years)	University Of Malakand Dir (Lower), KPK, Pakistan	2007-2011

## Publications

S.No.	Publication references	Impact factor
1	<b>Ullah, A.</b> , Sun, H., Yang, X., & Zhang, X. (2017). Drought coping strategies in cotton: increased crop per drop. <i>Plant Biotechnology Journal</i> . 15, 271-284.	7.44
2	<b>Ullah, A.</b> , Sun, H., Yang, X., & Zhang, X. (2018). A novel cotton WRKY-gene, GhWRKY6-like, improves salt tolerance by activating the ABA signalling pathway and scavenging of reactive oxygen species. <i>Physiologia Plantarum</i> . 162, 439-454.	2.58
3	<b>Ullah, A.</b> , Akbar, A., Luo, Q., Khan, A. H., Manghwar, H., Shaban, M., & Yang, X. (2018). Microbiome Diversity in Cotton Rhizosphere Under Normal and Drought Conditions. <i>Microbial ecology</i> , 1-11.	3.6

4	<b>Ullah, A.</b> , Mushtaq, H., Fahad, S., Shah, A., & Chaudhary, H. J. (2017). Plant growth promoting potential of bacterial endophytes in novel association with <i>Olea ferruginea</i> and <i>Withania coagulans</i> . <i>Microbiology</i> , 86, 119-127.	0.85
5	<b>Ullah, A.</b> , Mushtaq, H., Ali, H., Munis, M. F. H., Javed, M. T., & Chaudhary, H. J. (2015). Diazotrophs-assisted phytoremediation of heavy metals: a novel approach. <i>Environmental Science and Pollution Research</i> , 22, 2505-2514.	2.83
6	<b>Ullah, A.</b> , Heng, S., Munis, M. F. H., Fahad, S., & Yang, X. (2015). Phytoremediation of heavy metals assisted by plant growth promoting (PGP) bacteria: a review. <i>Environmental and Experimental Botany</i> , 117, 28-40.	3.3
7	<b>Ullah, A.</b> , Qamar, T., Nisar, M., et al., (2020). Characterization of a novel cotton MYB gene, GhMYB108-like responsive to abiotic stresses. <i>Molecular Biology Reports</i> , 1-9.	2.1
8	<b>Ullah, A.</b> , Manghwar, H., Shaban, M., Khan, A. H., Akbar, A., Ali, U., ... & Fahad, S. (2018). Phytohormones enhanced drought tolerance in plants: a coping strategy. <i>Environmental Science and Pollution Research</i> , 1-16.	2.8
9	<b>Ullah, A.</b> , Nisar, M., Ali, H., Hazrat, A., .....Yang, X. (2019) Drought tolerance improvement in plants: an Endophytic bacterial approach. <i>Applied Microbiology and Biotechnology</i> . <a href="https://doi.org/10.1007/s00253-019-10045-4">https://doi.org/10.1007/s00253-019-10045-4</a>	3.6
10	<b>Ullah A.</b> , Tang, U., Khan, A., Nisar, M., Hazrat, A., Hayat, K., Ercisli, S., Wei, F., (2020). WRKY transcription factors regulate abiotic stresses in cotton: approaches in improving the industrial crop. <i>Industrial Crops and Products</i> (Under review).	4.2
11	Sun, H., Chen, L., Li, J., Hu, M., <b>Ullah, A.</b> , He, X., & Zhang, X. (2017). The JASMONATE ZIM-Domain Gene Family Mediates JA Signaling and Stress Response in Cotton. <i>Plant and Cell Physiology</i> , 58, 2139-2154.	4.76
12	Zhou, B., Zhang, L., <b>Ullah, A.</b> , Jin, X., Yang, X., & Zhang, X. (2016). Identification of Multiple Stress Responsive Genes by Sequencing a Normalized cDNA Library from Sea-Land Cotton ( <i>Gossypium barbadense</i> L.). <i>PloS one</i> , 11(3), e0152927.	3.05
13	Shah, A., Wu, X., <b>Ullah, A.</b> , Fahad, S., Muhammad, R., Yan, L., & Jiang, C. (2017). Deficiency and toxicity of boron: Alterations in growth, oxidative damage and uptake by citrange orange plants. <i>Ecotoxicology and Environmental Safety</i> , 145, 575-582.	3.74
14	Hakim, <b>Ullah, A.</b> , Hussain, A., Shaban, M., Khan, A. H., Alariqi, M., Gul, S., ... & Munis M. F. H. (2018). Osmotin: a plant defense tool against biotic and abiotic stresses. <i>Plant Physiology and Biochemistry</i> , 123, 149-159.	2.71
15	Manghwar, H., Hussain, A., <b>Ullah, A.</b> , Gul, S., Shaban, M., Khan, A. H., ... & Munis, M. F. H. (2018). Expression analysis of defense related genes in wheat and maize against <i>Bipolaris sorokiniana</i> . <i>Physiological and Molecular Plant Pathology</i> , 103, 36-46.	1.39

16	Shaban, M., Heng, S., <b>Ullah, A.</b> , Zhu, L. (2018). Genome-wide identification of lipoxygenase gene family in cotton and functional characterization in response to abiotic stresses. BMC Genomics.	3.7
17	Shaban, M., Miao, Y., Khan, A. Q., Menghwar, H., <b>Ullah, A.</b> , ... & Zhu, L. (2018). Physiological and molecular mechanism of defense in cotton against <i>Verticillium dahliae</i> . Plant Physiology and Biochemistry, 125, 193-204.	2.71
18	Fahad, S., Hussain, S., Saud, S., Hassan, S., Chauhan, B. S., <b>Ullah, A.</b> , ... & Alharby, H. (2016). Responses of rapid Viscoanalyzer profile and other Rice grain qualities to exogenously applied plant growth regulators under high day and high night temperatures. PLoS One, 11(7), e0159590.	3.05
19	Fahad, S., Hussain, S., Fahad, K., Wu, C., <b>Ullah, A.</b> , ... (2015). Effects of tire rubber ash and zinc sulfate on crop productivity and cadmium accumulation in five rice cultivars under field conditions. Environmental Science and Pollution Research, 22, 12424-12434.	2.82
20	Ali, U., Naveed, M., <b>Ullah, A.</b> , Ali, K., Shah, S. A., Fahad, S., & Mumtaz, A. S. (2016). L-asparaginase as a critical component to combat acute lymphoblastic leukaemia (ALL): a novel approach to target ALL. European journal of pharmacology, 771, 199-210.	2.73
21	Shah, A. N., Iqbal, J., <b>Ullah, A.</b> , Yang, G., Yousaf, M., Fahad, S., ... & Khan, A. (2016). Allelopathic potential of oil seed crops in production of crops: a review. Environmental Science and Pollution Research, 23(15), 14854-14867.	2.76
22	Fahad, S., Hussain, S., Matloob, A., Khan, F. A., <b>Ullah A.</b> , ... & Faiq, M. (2015). Phytohormones and plant responses to salinity stress: a review. Plant Growth Regulation, 75, 391-404.	2.33
23	Amin, A., Nasim, W., Mubeen, M., Sarwar, S., <b>Ullah, A.</b> , ... & Rehmani, M. I. A. (2018). Regional climate assessment of precipitation and temperature in Southern Punjab (Pakistan) using SimCLIM climate model for different temporal scales. Theoretical and Applied Climatology, 131, 121-131.	2.3
24	Fahad, S., Hussain, S., Saud, S., Tanveer, M., Bajwa, A. A., <b>Ullah, A.</b> , ... & Shah, F. (2015). A biochar application protects rice pollen from high-temperature stress. Plant Physiology and Biochemistry, 96, 281-287.	2.75
25	Adnan, N. S., Javaid, I., Shah, F., <b>Ullah, A.</b> , ..... & Bukhari, M. A. (2017). Allelopathic influence of sesame and green gram intercrops on cotton in a replacement series. Clean-Soil Air Water, 45, 1.	1.4
26	Nausheen, N., Nisar, M., Ahmad, S., Wadood, SF., Jan, T., Zahoor, M., Ahmad, M., <b>Ullah, A.</b> , (2020) Characterization of phenolic compounds in two novel lines of <i>Pisum sativum</i> L. along with their in-vitro antioxidant potential. Environmental Science and Pollution Research. (Accepted)	2.8

27	Hayat, K., Bundschuh, J., Jan, J., Menhas, S., <b>Ullah, A.</b> , ..... & Zhou, P. (2019). Combating soil salinity with combining soil agriculture and phytomanagemnet with salt-accumulating plants. <i>Critical Reviews in Environmental Science and Technology</i> , doi.org/10.1080/10643389.2019.1646087.	8.45
28	Khan, B., Raziq, F., Faheem, M.B., <b>Ullah, A.</b> , .....Qiao, L. (2019). Electronic and Nanostructure Engineering of Bifunctional MoS <sub>2</sub> towards Exceptional Visible-Light Photocatalytic CO <sub>2</sub> Reduction and Pollutant Degradation. <i>Journal of Hazardous Materials</i> . <a href="https://doi.org/10.1016/j.jhazmat.2019.120972">https://doi.org/10.1016/j.jhazmat.2019.120972</a>	7.65
29	Danish, S., Kiran, S., Shah, F., <b>Ullah, A.</b> , ..... Wajid, N. (2019) Alleviation of chromium toxicity in maize by Fe fortification and chromium tolerant ACC deaminase producing plant growth promoting rhizobacteria. <i>Ecotoxicology and Environmental Safety</i> , 185,109706.	4.5
30	Nisar, M., Ali, Z., Ali, A., Aman, R., Park, H., <b>Ullah, A.</b> , Yun, D. (2020) CaCl <sub>2</sub> Salt Signaling in Primary Root Architecture and Lateral Root Emergence in <i>Arabidopsis thaliana</i> . <i>Russian Journal of Plant Physiology</i> 67	1
31	<b>Ullah, A.</b> , Mushtaq, H., Ali, U., Ali, E., & Mubeen, S. (2018). Screening, isolation, biochemical and plant growth promoting characterization of endophytic bacteria. <i>Microbiology: Current Research</i> , 2, 24-30.	
32	Hussain, S., Saud, S., Hassan, S., Mohsin, T., <b>Ullah, A.</b> , et al., (2016). A combined application of biochar and phosphorus alleviates heat- induce adversities on physiological, agronomical and quality attributes of rice. <i>Plant Physiology and Biochemistry</i> . 103, 191-198.	2.8
33	Khan, A., Zheng, J., Tan, D. K. Y., Khan, A., Akhtar, K., Kong, X., <b>Ullah, A.</b> , ... & Fahad, S. (2019). Changes in Leaf Structural and Functional Characteristics when Changing Planting Density at Different Growth Stages Alters Cotton Lint Yield under a New Planting Model. <i>Agronomy</i> , 9(12), 859.	2.2
34	Saleem, M. H., Fahad, S., Khan, S. U., Din, M., <b>Ullah, A.</b> , Sabagh, A. E., ... & Liu, L. (2019). Copper-induced oxidative stress, initiation of antioxidants and phytoremediation potential of flax ( <i>Linum usitatissimum</i> L.) seedlings grown under the mixing of two different soils of China. <i>Environmental Science and Pollution Research</i> , 1-11.	2.8
35	Xiao, X., Wei, M., Khan, A., ..... <b>Ullah, A.</b> , Zhou, R. (2020). Comparative analysis of mitochondrial genome and expression variation between UG93A and UG93B reveals a candidate gene related to cytoplasmic male sterility in kenaf. <i>Industrial Crops and Products</i> , 152, 112502.	4.19
36	Hayat, K., Zhou, Y., Menhas, S., Bundschuh, J., Hayat, S., <b>Ullah, A.</b> , ... & Zhou, P. (2020). Pennisetum giganteum: An emerging salt accumulating/tolerant non-conventional crop for sustainable saline agriculture and simultaneous phytoremediation. <i>Environmental Pollution</i> , 114876.	6.99
37	Ilyas, M., Nisar, M., Khan, N., Hazrat, A., Khan, A. H., Hayat, K., ... & <b>Ullah, A*</b> . (2020). Drought Tolerance Strategies in Plants: A Mechanistic Approach. <i>Journal of Plant Growth Regulation</i> , 1-19.	2.67

38	Khan, A. H., Min, L., Ma, Y., Wu, Y., Ding, Y., Li, Y., <b>Ullah, A.</b> ,... Zhang, X. (2020). Day/Night high temperature distinctively disrupt fatty acid and jasmonic acid metabolism in inducing male sterility. Journal of Experimental Botany.	5.90
39	Sun, W., Zhang, B., Deng, J., Chen, L., <b>Ullah, A*</b> , Yang, X., (2020). Genome-wide analysis of CBL and CIPK family genes in cotton: conserved structures with divergent interactions and expression. Applied Microbiology and Biotechnology (Submitted)	3.5
40	Zhang, B., Chang, L., Sun, W., <b>Ullah, A*</b> , Yang, X., (2020). Overexpression of an expansin-like gene, GhEXLB2 enhanced drought tolerance in cotton. Industrial Crops and Products (Submitted).	4.2
	<b>Total impact factor</b>	<b>135.20</b>

### Book chapters

S.No.	Publication references	Book title
1	<b>Ullah, A.</b> , Akbar, A., Xiyan, Y., (2018). Jasmonic acid (JA)-mediated signalling in leaf senescence.	Senescence signaling and control in plants
2	Shah, F., <b>Ullah, A.</b> , Usman, A., et al. (2019). Drought tolerance in plant, Role of phytohormones and scavenging of ROS.	Plant tolerance to environmental stresses: Role of phytoprotectants
3	<b>Ullah, A.</b> , Ihsan, M., Laiq, M., Nisar, M., Hazrat, A., <b>Ullah, S.I.</b> , <b>Ullah, S.</b> , <b>Ullah, A.</b> (2020) Role of Nitric Oxide in drought stress. Elsevier	Nitric Oxide in Plant Biology

### Students supervised

S.No.	Citation of the thesis	Degree
1	<b>Ullah, I</b> (2019). Isolation And Characterization Of Rhizospheric Fungi And Their Effects On Seed Germination And Plant Growth	MPhil (Co-supervisor)
2		
3		

## Editor of the Journals

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**American Journal of Plant Biology:** ISSN: 2578-8329 (Print); ISSN: 2578-8337 (Online);

<http://www.sciencepublishinggroup.com/j/ajpb>.

**JResLit Journal of Agriculture and Plant Sciences:** <https://jreslitpublications.com/about-us.php>.

**Open Journal of Nutrition and Food Sciences:** <http://www.medtextpublications.com/open-journal-of-nutrition-and-food-sciences-editorial-board.php>.

## Journal Reviewer

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**Gene:** ISSN: 0378-1119 (print); 1879-0038 (Online); <https://www.journals.elsevier.com/gene>.

**Journal of Plant Physiology:** ISSN: 0176-1617; <https://www.journals.elsevier.com/journal-of-plant-physiology>.

**Pakistan Journal of Agriculture Research:** ISSN: 0251-0480; <https://researcherslinks.com/journal/Pakistan-Journal-of-Agricultural-Research/24>.

**Plant Physiology and Biochemistry**

**And much more**

## Research Projects

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- Rhizospheric microbe improve drought and salinity tolerance in pea (*Pisum sativum*).  
No:21- 2297/SRGP/R&D/HEC/2018. (0.5 Million)
- Isolation of Plant growth promoting bacteria from common bean and preparation of biofertilizer.  
Submitted to Higher Education Department (2.1 Million).
- Preparation and application of Bio-fertilizer to enhance growth, yield and drought tolerance in plants (8.1 Million).

## PhD and MPhil thesis tittle

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- Functional analysis of cotton genes, *GHWRKY6-like* and *GHMYB108-like* under abiotic stresses.
- Genetic diversity of endophytes isolated from *Olea ferruginea* Royal and *Nepeta lagopsis* Benth.

## Awards

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- Huazhong Agricultural University distinguish student award of 2014-2018.
- Research contribution award, 2016-2017.
- Availed Chinese government scholarship.
- Merit scholarship during M.phil at Quaid-i-Azam University.

## Conferences, workshop and trainings

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- Secretary of the two days International workshop on “Capacity Building of Stakeholders on Olive Processing and Biodiversity Data Mobilization in Regional Herbarium and Botanical Garden”
- Secretary of the two days national workshop on “Mushroom cultivation technology: a cottage industry”
- Organiser in 1<sup>st</sup> National workshop on “Molecular Biology: tools and techniques”.
- Presented research work in 1<sup>st</sup> National workshop on “Molecular Biology: tools and techniques”.
- Presented research work in 2<sup>nd</sup> National conference on “Advancement in Sciences and Research”.
- Attended 19<sup>th</sup> International Botanical congress in Shenzhen, China.
- Attended various other national and international conferences.

### Personal Dossier

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<b>Date of Birth</b>	11 <sup>th</sup> Feb 1989
<b>NIC</b>	16102-1852021-1
<b>Passport</b>	FC2740212
<b>Languages</b>	Pashto, Urdu, English, Chinese,
<b>Address</b>	Mohmando garoshah, post office Fazal abad, Tehsil Takht Bhai District Mardan, KPK, Pakistan

### References

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#### **Prof. Yang Xiyan**

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Professor at Plant Science and Technology

Huazhong Agricultural University, China