

Curriculum Vitae



ARSHAD IQBAL
S/O
Ghulam Rasool

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Marital Status: Married

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LANGUAGES

	READ	WRITE	SPEAK
ENGLISH	✓	✓	✓
URDU	✓	✓	✓
PASHTO	✓	✓	✓
CHINESE			✓

PERSONAL STATEMENT

To work in an organization where I can get an opportunity to practice what I have learnt and to learn more through experience.

ACADEMIC QUALIFICATION

Ph.D. (Plant Biotechnology)

Dept. of Biochemistry and Molecular Biology, Beijing Forestry University
2014-2018 (Excellent international student award winner)

M.Phil. Plant Genomics & Biotechnology

PIASA (Islamabad) KP Agriculture University Peshawar, Pakistan
2010-2012, (1st Division with distinction)

BS (Hons) BBT (BIOTECHNOLOGY)

University of Malakand, (www.uom.edu.pk) Chakdara, NWFP, Pakistan
2003-2007, (1st Division)

Intermediate HSSC (F.Sc Pre-Medical)

BISE Saidu Sharif, Swat (www.bisess.edu.pk), NWFP, Pakistan.
2001-2003, (1st Division)

Matriculation SSC (Science)

BISE Saidu Sharif, Swat (www.bisess.edu.pk), NWFP, Pakistan
1999-2001, (1st Division)

★ **HEC approved supervisor**

MAJOR SUBJECT:

★ **PLANT BIOTECHNOLOGY**

WORK EXPERIENCE

- 1) **ASSISTANT PROFESSOR** TTS (April 2021 cont.)
Centre for Biotechnology and Microbiology, University of Swat, Pakistan
- 2) **ASSISTANT PROFESSOR** (Jan-2019 to Dec-2019)
Centre for Biotechnology and Microbiology, University of Swat, Pakistan
- 3) **RESEARCH ASSISTANT** (Sep-2011 to Aug-2014)
Cotton projects of National Institute for Genomics and Advanced Biotechnology (NIGAB), NARC Islamabad, Pakistan
- 4) **LECTURER (Biology)** (01-AUG-2009 to 30-JUL-2010)
Government Degree College, Kabal District Swat, NWFP, Pakistan

Honors and Awards

- ☞ I have been awarded by **Chinese Government National Award** entitled “Chinese Government Outstanding International Student Award in the year of 2017”
- ☞ I Got Chinese Government Scholarship (2014-2018) at Beijing Forestry University, China.
- ☞ First Position Holder of M.Phil Class (Session 2010-2012), PIASA (Islamabad) KP Agriculture University Peshawar, Pakistan

Conferences / Presentation / Workshop

- ☞ High-Level Academic Seminar on the Development of Tree Molecular Breeding Techniques and the Tenth National Symposium on Poplars (September 8-11, 2017), Baoding, Hebei Province, China
- ☞ 1st National symposium on Biotechnology: Recent advances (21-24 may 2007), Department of Biotechnology, University of Malakand N.W.F.P Pakistan.
- ☞ Presentation delivered on (Effect of sodium chloride on the growth of E.coli), Department of Biotechnology, University of Malakand N.W.F.P Pakistan.
- ☞ SARRC Regional Conference on **New Frontiers in Agricultural Genomics and Biotechnology** organized by **NIGAB, NARC**, June 5-7, 2012, Marriott Hotel, Islamabad. (**Poster presentation**)
- ☞ 3rd One Day Workshop on **Bioinformatics**, June 18, 2012, MAJU, Islamabad
- ☞ Cotton germplasm conservation and gene bank management, December 18-20, 2012.

PUBLICATIONS

Iqbal A, Wang T, Wu G, Tang W, Zhu C, Wang D, Li Y, Wang H. Physiological and transcriptome analysis of heteromorphic leaves and hydrophilic roots in response to soil drying in desert *Populus euphratica*. Scientific Reports 2017;7(1):12188.

Iqbal A, Tang W, Wang T, Wang H. Identification and functional characterization of the promoter driving “Xyloglucan endotransglucosylase/hydrolase gene (*XET*)” gene for root growth in the desert *Populus euphratica*. South African Journal of Botany 2017;112:437-446.

Xiu Y, **Iqbal A**, Zhu C, Wu G, Chang Y, Li N, Cao Y, Zhang W, Zeng H, Chen S, Wang H. Improvement and transcriptome analysis of root architecture by overexpression of *Fraxinus pennsylvanica DREB2A* transcription factor in *Robinia pseudoacacia* L. 'Idaho'. Plant Biotechnology Journal 2016;14(6):1456-1469.

Ali S, Shah SH, Ali GM, **Iqbal A**, Asad MAU, Zafar Y. Bt Cry toxin expression profile in selected Pakistani cotton genotypes. Current Science 2012;102(102):1632-1636.

Iqbal A, Ali S, Zia MA, Shahzad A, Din JU, Ullah MA, Asad GMA, Zafar Y. Comparative account of Bt gene expression in cotton under normal and salt affected soil. International Journal of Agriculture & Biology 2013;15:1181-1186.

Khan S, Lv J, **Iqbal A**, Fu P. Morphophysiological and transcriptome analysis reveals a multiline defense system enabling cyanobacterium *Leptolyngbya* strain JSC-1 to withstand iron induced oxidative stress. Chemosphere 2018;200:93-105

Zada S, Ahmad A, Khan S, **Iqbal A**, Ahmad S, Ali H, Fu P. Biofabrication of gold nanoparticles by *Lyptolyngbya* JSC-1 extract as super reducing and stabilizing agents: Synthesis, characterization and antibacterial activity. Microbial pathogenesis 2018;114:116-123.

- Zada, S., Lu, H., Khan, S., **Iqbal, A.**, Ahmad, A., Ahmad, A., Ali, H., Fu, P., Dong, H. and Zhang, X., 2021. Biosorption of iron ions through microalgae from wastewater and soil: Optimization and comparative study. *Chemosphere*, 265, p.129172.
- Tang, W., Chao, L., **Iqbal, A.**, Zhang, W., Ding, J. and Wang, H., 2021. Physiological and multigenic characteristics of widely used tree and herbaceous peonies in response to field stress in yanqing, beijing, china. *Pak. J. Bot*, 53(1), pp.67-79.
- Spielman DJ, Zaidi F, Zambrano P, Khan AA, Ali S, Cheema HMN, Nazli H, Khan RSA, **Iqbal A**, Zia MA. What are farmers really planting? Measuring the presence and effectiveness of Bt cotton in Pakistan. *Plos One* 2017;12(5):e0176592.
- Khan S, Ali SS, Zaheer I, Saleem S, Ziaullah, Zaman N, **Iqbal A**, Suleman M, Wadood A, Rehman AU, Khan A. Proteome-wide mapping and reverse vaccinology-based B and T cell multi-epitope subunit vaccine designing for immune response reinforcement against *Porphyromonas gingivalis*. *Journal of Biomolecular Structure and Dynamics*. 2020 Sep 11:1-5.
- Muhammad I, Zia MA, Ali S, Roomi S, **Iqbal A**, Abbas Z, Ali GM. Development of Efficient Regeneration System in Different Recalcitrant Rice Cultivars and Expression Analysis of Putative Transgenic Plants. *International Journal of Agriculture & Biology* 2014;16(4).
- Khan, A., Zhang, X., Zhang, K., **Iqbal, A.**, Ahmad, A., Saeed, S., Hayat, M. and Yang, X. Tree distribution pattern, growing stock characteristics and biomass carbon density of mongolian scots pine (*pinus sylvestris* var. *mongolica*) Plantation of Horqin Sandy Land, China. *Pak. J. Bot*, 2020: 52(3): 995-1002.
- Khan, T. U., X. Luan, W. Khan, S. Ahmad, A. Mannan, S. Shah, **A. Iqbal**, U. Ammara, E. U. Din, and H. Khan. "Status and attitude of local communities towards the grey wolf (*canis lupus linnaeus*, 1758) in lower dir district, khyber pakhtunkhwa, pakistan." *Applied Ecology and Environmental Research* 2020: 18: 129-139.
- Saeed, S., Yujun, S., Beckline, M., Chen, L., Zhang, B., Ahmad, A., Mannan, A., Khan, A. and **Iqbal, A.** Forest edge effect on biomass carbon along altitudinal gradients in Chinese Fir (*Cunninghamia lanceolata*): a study from Southeastern China. *Carbon Management*. 2019; 10: 11-22.
- Ali S, Rana A, Zia MA, Khan SU, **Iqbal A**, Ali GM. Temporal Status Of Bt Gene Expression In Pakistani Cotton. *Pakistan Journal of Agricultural Sciences* 2018;55(1):143-150.
- Ali S, Khan S, Shah S, **Iqbal A**, Zia M, Ali G. Development of efficient regeneration and genetic transformation systems in local cultivars of chickpea (*Cicer arietinum* L.), *Journal of Animal and Plant Sciences* 2017;27(6):2025-2034.
- Iqbal A**, Tang W, Yeli W, Ali S, Wang H. An efficient regeneration and genetic transformation system for the desert tree *Populus euphratica*. *In-vitro Cellular and Developmental Biology (Plant)* Under Reveiw.
- Wensi T, Chao L, **Iqbal A**, Zhang W, Ding J, Wang H. Physiological and multigene characteristics of widely used tree and herbaceous peonies in response to field stress in Yanqing, Beijing, China. *Pakistan Journal of Botany*. *Pak. J. Bot.*;53:1.
- Abbas Z, Zia MA, Ali S, Abbas Z, Waheed A, Bahadur A, Hameed T, **Iqbal A**, Muhammad I, Roomi S. Integrated effect of plant growth promoting rhizobacteria, phosphate solubilizing bacteria and chemical fertilizers on growth of maize original research article. *International Journal of Agriculture and Crop Sciences* 2013;6(13):913.

Roomi S, Sabiha B, Zia MA, **Iqbal A**, Kumar T, Ahmad MZ, Shah SH, Rashid F, Ghafoor A, Ali N. Protocol optimization for deoxyribonucleic acid (DNA) extraction from dried, fresh leaves, and seeds of groundnut (*Arachis hypogaea* L.). *African Journal of Biotechnology* 2013;12(51):7070-7073.

Hussain Z, Ali S, Hayat Z, Zia MA, **Iqbal A**, Ali GM. 'Agrobacterium' mediated transformation of 'DREB1A' gene for improved drought tolerance in rice cultivars ('*Oryza sativa*' L.). *Australian Journal of Crop Science* 2014;8(7):1114.

Napar AA, Bux H, Zia MA, Ahmad MZ, **Iqbal A**, Roomi S, Muhammad I, Shah SH. Antimicrobial and antioxidant activities of Mimosaceae plants; *Acacia modesta* Wall (Phulai), *Prosopis cineraria* (Linn.) and *Prosopis juliflora* (Swartz). *Journal of medicinal plants research* 2012;6(15):2962-2970.

Roomi S, Sabiha B, **Iqbal A**, Suleman M, Muhammad I, Zia MA, Ahmad MZ, Rashid F, Ghafoor A, Tabbasam N. SSR based genetic diversity analysis in a diverse germplasm of groundnut (*Arachis hypogaea* L.) from Pakistan. *Australian Journal of Crop Science* 2014;8(1):55.

Suleman M, Khan AA, Hussain Z, Zia MA, Roomi S, Rashid F, **Iqbal A**, Ishaq R. Effect of lead acetate administered orally at different dosage levels in broiler chicks. *African Journal of Environmental Science and Technology* 2011;5(12):1017-1026.

Shah SH, Jan SA, Ahmad N, Khan S, Kumar T, **Iqbal A**, Nasir F, Noman M, Ali U. Use of different promoters in transgenic plant development: current challenges and future perspectives. *Am Eurasian J Agric Environ Sci* 2015;15:664-675.

Kumar T, Khan MR, Jan SA, Ahmad N, Ali NN, Zia MA, Roomi S, **Iqbal A**, Ali GM. Efficient regeneration and genetic transformation of sugarcane with AVP1 gene. *Am Eurasian J Agric Environ Sci* 2014;14:165-171.

References

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