

# CURRICULUM VITAE

**D R . W A Q A R A L I**

## **Academic Affiliation**

University of Malakand, Chakdara, Lower Dir, Pakistan

Assistant professor at the Department of Biotechnology

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## **Academic Career**

- 1998-2002** B.Sc (Hons) in Agriculture from the Department of Plant Breeding and Genetics, The University of Agriculture, Peshawar, Pakistan
- 2003-2005** M. Phil in Biotechnology and Genetic Engineering from the Institute of Biotechnology and Genetic Engineering (IBGE), The University of Agriculture, Peshawar, Pakistan
- 2005-2008** Lecturer at the Department of Biotechnology, University of Malakand, Pakistan
- 2008-2012** PhD in Plant Biology under Faculty Development Program University of Malakand from the Department of Biology, University of York, UK
- 2012-** Re- joined the Department of Biotechnology, University of Malakand, Pakistan. Currently working as a member of the Plant Biotechnology group at the Department of Biotechnology, University of Malakand

## **Research Interests**

- Plant molecular stress physiology
- Plant biotechnology/tissue culture

## Conferences

Arsenic transport in plants. SEB Plant Transport Group Meeting, Manchester, United Kingdom, September 3-5, 2008

Membrane transporters involved in arsenic movement in *Oryza sativa* and *Arabidopsis thaliana*. SEB, Glasgow, United Kingdom, June 28-1st July 2009

Expression of the yeast arsenite transporter ScAcr3 in rice and Arabidopsis improves arsenic tolerance. SEB plant transport group meeting. Lancaster University, United Kingdom. 14-16 December, 2011

Participated in National Conference on 'Innovative Technologies and Sustainable Development in Agriculture', Summer Campus, Bara Gali, University of Peshawar, Pakistan, 19-22 August, 2014

Participated in one day seminar on 'International DNA Day Celebrations' at University of Malakand, Pakistan. 25<sup>th</sup> April 2016

Participated in 15<sup>th</sup> international Chemistry Conference at University of Malakand, Pakistan, 28-30 November, 2016

Participated in National Conference 'THINK-ADAPT' at the University of Agriculture Peshawar, 16-17 November, 2016

## List of Publications

1. **Waqar Ali**, Jean-Charles Isner, Stanislav Isayenkov, Wenju Liu, Fangjie Zhao and Frans Maathuis (2012) Heterologous expression of the yeast arsenite efflux system ACR3 improves Arabidopsis thaliana tolerance to arsenic stress. *New Phytologist*, 194, 716-723.
2. **Waqar Ali**, Stanislav V. Isayenkov, Fang-Jie Zhao and Frans J. M. Maathuis (2009) Arsenite transport in plants. *Cellular & Molecular Life Sciences*. 66:2329-2339.
3. **Waqar Ali**, Iqbal Munir, Mian Afaq Ahmad, Wisal Muhammad, Nisar Ahmed, Durrishahwar, Shahid Ali and Zahoor A Swati (2007) Molecular characterization of some local and exotic *Brassica juncea* germplasm. *African Journal of Biotechnology*. 6 (14), pp. 1634-1638.
4. Alam Zeb, Nadia Khadim and **Waqar Ali** (2017) Changes in the polyphenolic profile, carotenoids and antioxidant potential of Apricot (*Prunus armeniaca* L.) leaves during maturation. *Agriculture* 7(2), 9; doi:[10.3390/agriculture7020009](https://doi.org/10.3390/agriculture7020009)
5. **Waqar Ali**, Hidayat ur Rahman, Kafeel Ahmad, Iqbal Munir and Ahmad Khan (2007) Genetic variability among maize hybrids for yield and yield components. *Sarhad journal of agriculture*. 23 (1): 75-79.
6. Muhammad Ali, **Waqar Ali**, Saeed Ahmed and Ikram Ullah (2008) Mineral Composition, Quality and Physico-chemical Parameters of the Local Tallow of Pakistan. *Pakistan Journal of Nutrition*. 7(5), 717-720.
7. Sikandar, **Waqar Ali**, Israr Khan and Iqbal Munir (2007) Optimization of *in vitro* Conditions for Callus Induction, Proliferation and Regeneration in Wheat (*Triticum aestivum* L.) Cultivars. *Biotechnology* 6(3), 420-425.

8. Mian Afaq Ahmad, Iqbal Munir, **Waqar Ali**, Zahoor Ahmad Swati, Muhammad Saeed Khattak, Quahir Sohail and Imran Khan (2007) Assessment of Genetic Diversity of Local and Exotic *Brassica napus* Germplasm. *Pakistan Journal of Biological Sciences*. 10(15), 2490-2494.
9. Nisar Ahmad, Iqbal Munir, Imtiaz A. Khan, **Waqar Ali**, Wisal Muhammad, Rakhshanda Habib, Raham Sher Khan and Zahoor A. Swati. (2007) PCR-Based genetic diversity of rapeseed germplasm using RAPD markers. *Biotechnology* 6 (3): 334-338.
10. Hazrat Ali, Zahir Ali, Haidar Ali, Sultan Mehmood and **Waqar Ali** (2007) In vitro regeneration of brassica napus L., Cultivars (star, cyclone and westar) from Hypocotyls and cotyledonary leaves. *Pakistan Journal of Botany*. 39(4): 1251-1256.
11. Zahir Ali, Afsari S. Qureshi, **Waqar Ali**, Haseena Gulzar, Mohammad Nisar, and Abdul Ghafoor (2007) Evaluation of genetic diversity present in pea (*Pisum sativum* L.) germplasm based on morphological traits, resistance to powdery mildew and molecular characteristics. *Pakistan Journal of Botany*. 39(7): 2739-2747.