
CURRICULUM VITAE

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PERSONAL

Father Name: Muhammad Wasiq
Mailing address: Department of Biotechnology, University of Malakand,
Chakdara Dir (Lower), Khyber Pakhtunkhwa, Pakistan
Permanent address: Peochar, Matta, Swat, Khyber Pakhtunkhwa.

PRESENT POSITION

Assistant Professor in Biotechnology,
Head of the Department of Biotechnology/Botany, University of Malakand,
Chakdara, Dir (L) Khyber Pakhtunkhwa, Pakistan.

ACADEMIC EDUCATION

Degree/ Certificate	Year	Div.	Subject	University/Board
PhD ^(a)	2010	----	Plant Molecular physiology/ Biotechnology	Uni. Plymouth England (UK)
MPhil ^(b)	2004	1 st	Biotechnology (Agri. Environ)	Quaid-i-Azam Uni. Islamabad
MSc ^(c)	2001	1 st	Botany	Uni. of Peshawar
BSc	1998	1 st	Bot. Zoo. Chem.	Uni. of Peshawar
FSc	1996	1 st	Biology (Pre-medical)	BISE Swat
SSC	1994	1 st	Science	BISE Swat

^(a)Thesis title: The Physiological and Molecular Characteristics of Chemically Induced Abiotic Stress Resistant Mutants of Cauliflower (*Brassica oleracea var. botrytis*).

^(a) Findings: reported two genes (dehydration (frost) resistant) in *Brassica oleracea var botrytis*.

^(b)Research topic: Phytoremediation of heavy metal contaminated soil.

^(c)Special topic: Salinity and water-logging

RESEARCH INTERESTS:

Plant molecular physiology, dehydration stress tolerance (frost, drought, salt stress)
Phytoremediation, Plant Biotechnology (tissue culture, molecular biology). Transcriptomics,
proteomics, CBFomics,

ACHIEVEMENTS

HEC travel grant to USA (speaker in the conference)
Research productivity Award, PCST, 2011-12
HEC scholarship for Ph.D studies abroad (Fully funded)
HEC approved supervisor

Countries visited: USA, UK, Austria

PROFESSIONAL MEMBERSHIP:

- Technical member Biotech Advisory Committee Directorate of Science and Technology, Khyber Pakhtunkhwa.
- Technical member of Evaluation Committee Directorate of Science and Technology, Khyber Pakhtunkhwa.
- 2010-todate: International Phytotechnology Society USA (IPS)
- 2009-todate: Society for Experimental Biology UK (SEB)

REVIEWER OF INTERNATIONAL JOURNALS

- International Journal of Phytoremediation (USA)
- African journal of Biotechnology

TEACHING INTERESTS:

- Molecular biology-gene expression,
- Abiotic stresses tolerance mechanisms in plants
- Plant Biotechnology
- Environmental Biotechnology

TEACHING EXPERIENCE:

- **30/06/2011 to date:** Assistant Professor in Biotechnology, Department of Biotechnology, University of Malakand.
- **01/09/2005 to 29/06/2011:** Lecturer in Biotechnology, Department of Biotechnology, University of Malakand.
- **02/07/2005 to 30/08/2005:** Lecturer in Botany department, F.G. Postgraduate College for men Islamabad.
- **01/09/2004 to 21/04/2005:** Lecturer in Botany department, Islamabad College for boys G-6/3 Islamabad.

RESEARCH PROJECTS SUPERVISION

PhD: 02 students under supervision, HEC funded (in progress)
MPhil: 03 students under supervision (in Progress)
BS (Hon): 11 students have successfully completed projects.

PROFESSIONAL TRAININGS

2009: Laboratory based teaching/demonstration (ENV5101), theory and practice from the University of Plymouth UK.

2008: Student Associate Scheme (SAS) training (3days instructions from education experts and 15 days practice. University of Plymouth UK.

2007: General Teaching Associate Course (GTA), theory and practice, from the University of Plymouth UK

2009: Three days training course (South west Universities GRAD School) at Buckland Hall Conference and Retreat centre Bwlch Brecon. Wales, 02nd-05th June 2009. Course Director: Paul Toombs. This training course included contents to develop the following skills. (a) Personal effectiveness (b) Communication skills (c) Networking and team working (d) Career management

2007: Research Skills and Methods (BIO5124), University of Plymouth

2002: Bachelor Degree in Education from University of Peshawar.

CONFERENCES, WORKSHOPS, SEMINARS, PUBLIC LECTURES ATTENDED

- Eighth International Phytotechnologies Conference: Sep.13-16, 2011, Doubletree Inn, Portland, Oregon, USA. Attended as invited speaker.
- National Science Conference: Roadmap of cutting edge technologies. Jan 10-12, 2012. Organized by Pakistan Academy of Science, in Arid Agricultural University Rawalpindi. Attended as a speaker.
- Workshop on Project formulation at Khyber Pakhtunkhwa Agricultural University Peshawar, Feb 8-9, 2012. Organized by Pakistan Science Foundation PSF.
- A public lecture by John Craig Venter (the president of J. Craig Venter institute, Rockville, MD, and San Diego, CA, USA. Topic: Genomics; From reading to writing the code. Robbins Lecture theatre, Plymouth, England. 21/05/2009.
- Training workshop for 3 days; south west universities GRAD School at Buckland Hall Conference and Retreat centre Bwlch Brecon. Wales. 02nd-05th June 2009.
- Workshop on Research and enterprise, 20/01/2009, Rolle Building 002/003, University of Plymouth.
- Workshop on intellectual property rights, 27/01/2009, Rolle Building 002/003, University of Plymouth.
- Seminar on „molecular laboratory“ 03/03/2009. University of Plymouth.
- International conference „Plant abiotic stress tolerance“ 8-12 February 2009, Presentation of some part of PhD work. University of Vienna Austria.
- Video conference. Conservatives and environment“ 23/02/2009. Simultaneous in Universities of Exeter, Bristol, Plymouth and Bath.
- Conference on Agrivision (agriculture business) 2020. 03/04/2009. Royal Cornwall showground UK.
- Vice Chancellor“s Research and Innovation Conference, University of Plymouth UK. April 28, 2008.
- Workshop on „Plagiarism – Your words or other people? (May 13, 2008)
- Workshop on Endnote Bibliographic Referencing for Beginners (May 02, 2008)
- Workshop on Preparing Effective Poster Presentations (May 7, 2008)
- Workshop on „Impact Factor: Getting Published in Scientific Research (May 16,2008)

- Workshop on molecular biology techniques, organized by Alpha Laboratories & Biohit at School of Biological Sciences, Plymouth University, May 21, 2008.
- Workshop on Project and time management “Good project management and supervision is crucial and not optional”! June 06, 2008
- Workshop on Developing Professional Writing Skills. Jan 31, 2008
- Workshop on Risk management for research students. Nov 05, 2007.
- Workshop on Office 2007. Nov 09 and Nov 16, 2007
- Workshop on Research owning and using. Nov 28, 2007.
- Workshop on ‘Data visualisation’ 11/03/2009. Uni of Plymouth.
- Seminar on Physiology to Microarrays; Crab population response to climate change (temperature stress) “Organized by Marine Science laboratory, Univ. of Plymouth UK, May 30, 2008.
- As a speaker in 1st International Conference on Environmental Challenges Organized by Department of Environmental Sciences, University of Peshawar (March 11-13, 2004)
- Seminar on Biodiversity, Organized by Environmental Biology Lab. Quaid-i-Azam University, Islamabad (22nd May 2004)
- Seminar on “Advances in Assisted reproduction techniques” By T.Rahil, Ph.D Scientific Director Alwanado hospital fertility center, San Diego, California. 15-4-2003. Organized by National Academy of Sciences Pakistan.
- As a participant in the workshop on “Identification, Maintenance and preservation of Microorganisms” Organized by Microbiology Research Laboratory, Department of Biological Sciences Quaid-I-Azam University Islamabad Pakistan, May 10-12, 2004.
- National symposium on ‘biotechnology recent advances’ organised by department of biotechnology University of Malakand, Pakistan, 21-24May 2007.

PUBLICATIONS

2011

- **Fazal Hadi**, Martyn Gilpin, Mick Fuller (2011). Identification and expression analysis of CBF/DREB1 and COR15 genes in mutants of Brassica oleracea var. botrytis with enhanced proline production and frost resistance. Plant Physiology and Biochemistry. 49,1323-1332. (Impact Factor= 2.5)
- **Fazal Hadi** and Michael P. Fuller (2011). Chemically (N-nitroso-N-ethyleurea and N-nitroso-N-methylurea) induced mutation enhanced resistance to drought and salt stress in Brassica oleracea var. botrytis. Plant Breeding (accepted, Impact Factor= 1.3)

2010

- **Hadi, F.**, A. Bano and Fuller M.P. (2010). The improved phytoextraction of lead (Pb) and the growth of maize (Zea mays L.): the role of plant growth regulators (GA3 and IAA) and EDTA alone and in combinations. Chemosphere, 80, 457-462. (Impact Factor= 3.4)

- **Hadi, F.** and A. Bano (2010) 'Effect of diazotrophs (Rhizobium and Azatobactor) on growth of maize (Zea mays L.) and accumulation of lead (Pb) in different parts. P. J. Bot. 42(6): 4363-4370. (Impact Factor= 0.9)
- **Hadi, F.** Fuller, M. P. and M. Gilpin. Identification and expression analysis of CBF/DREB1 and COR15 genes in dehydration stress resistant mutants of cauliflower (Brassica oleraceae v. botrytis), Proc. Intern. Conf. organised by Soci. Experi. Biol. (SEB), 30th June-3rd July 2010, Prague, Czech Republic, pp 323-324.

2009

- **Hadi, F.** and A. Bano (2009) 'Utilization of Parthenium hysterophorus for the remediation of lead-contaminated soil ' Weed Biology and Management (Japan). 9: 307–314. (Impact Factor= 0.7)
- **Hadi, F.** and Fuller, M. P. (2009) 'Enhanced Tolerance to Abiotic Stress in Cauliflower by Mutagenesis', Proceeding, International Conference 'Plant Abiotic Stress Tolerance'. 08-11 February, Austria, Vienna, pp. 168.
- **Hadi, F.** and Fuller, M.P. (2009) 'Effect of the cold acclimation on proline and protein contents in Cauliflower clones', Nutrition Society Winter Meeting, 15 December, Reading University UK.
- **Hadi, F.,** A. Bano and Fuller, M.P. (2009) 'Sixth International Phytotechnologies conference. 02-04 December, Hyatt Regency St. Louis Riverfront, 315 Chestnut Street St. Louis, MO 63102. USA.

2008

- Zia, M.A. **Hadi, F.** Akbar, H. Akbar, F. Ullah, Z and Khan, I. (2008) 'Physiochemical and Molecular Analysis of Brassica napus seeds of different varieties'. Asian J. Plant Sci, 7 (1). pp 85-89.
- Tariq, M. Ali, G. **Hadi, F.** Ahmed, S. Ali, N and Shah, A.A. (2008) 'Callus induction and invitro Plant regeneration of rice (Oryza sativa L.) under various conditions '. Pak. J. Biol. Sci, 11 (2). pp 255-259.

2007

- Ali, G. **Hadi, F.** Ali, Z. Tariq, M. and Khan, M.A. (2007) 'Callus induction and in-vitro complete plant regeneration of different cultivars of tobacco (Nicotiana tabaccum L.) on media of different hormonal concentrations'. Biotechnol, 6 (4). pp 561-566.
- Akbar, F. **Hadi, F.** Ullah, Z and Zia, M.A. (2007) 'Effect of marble industry effluent on seed germination, post germinative growth and productivity of Zea mays L'. Pak .J. Biol. Sci, 10 (22). pp 4148-4151.

Accepted

- **Fazal Hadi** and Michael P. Fuller (2011). Chemically (N-nitroso-N-ethyleurea and N-nitroso-N-methylurea) induced mutation enhanced resistance to drought and salt stress in Brassica oleracea var. botrytis. Plant Breeding (accepted, Impact Factor= 1.3)
- **Fazal Hadi,** Nasir Ali and Michael P. Fuller (2012). Augmented Phytoextraction of Lead (Pb+2) polluted soils; a Comparative Study of the

Effectiveness of Plant Growth Regulators, EDTA and Plant Growth Promoting Rhizobacteria. Int J. Phytoremediation USA (accepted, Impact Factor 1.298)

- Irfan Ali, **Fazal Hadi** and Asghari Bano (2012). Microbial assisted phytoextraction of metals and growth of soybean (*Glycine max* L. Merrill) on industrial waste water contaminated soil. Pak J. Bot (accepted, impact factor 0.8)
- Salinity effect on seeds germination and seedling growth of tomato and cauliflower (2012). J. Agri. Res. Submitted.