# CURRICULUM VITAE

Name **Zahir Muhammad**

Father's Name Amir Muhammad

Place of birth Vill. Kalu Khan, District Swabi

Date of birth 01-06-1964

Domicile District Swabi, Khyber Pakhtunkhwa

N.I.C.NO 16202-3988673-9

Marital Status Married

Present Position Associate Professor

Institutional Address Department of Botany,

University of Peshawar, Peshawar

Phone office 9218129

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**Research Publications:** List attached

**ACADEMIC QUALIFICATION**

Matric B.I.S.E., Peshawar 1979

F.Sc. B.I.S.E., Peshawar 1982

B.Sc. Islamia College Peshawar. 1985

University of Peshawar.

M.Sc. Department of Botany, 1992

University of Peshawar.

M.Phil. Department of Botany, 1998

University of Peshawar.

Ph.D. Department of Botany, 2013

University of Peshawar.

**TEACHING EXPERIENCE**

Associate Professor, Department of Botany, University of Peshawar: 17-06-2014 to date

Assistant Professor, Department of Botany, University of Peshawar: 21-03-2009 to 16-06-2014

Lecturer (Permanent), Department of Botany, University of Peshawar: 01-09-2003 to

20-03-2009

Lecturer (Adhoc), Department of Botany, University of Peshawar: 16-09-1996 to

15-06-2003

**Courses Taught**

1. Genetics (M.Sc. Botany)
2. Cell biology & Biometry (M.Sc. Botany)
3. Plant Pathology (M. Sc. Botany)
4. Mycorrhiza (M.Sc. Botany)
5. Allelopathic Interaction (M.Phil./ Ph.D. Botany)

##### Thesis Supervised

a. M.Sc. = 30

b. M.Phil = 3

**Research Project Completed** as Co.-P.I

1. Effect of priming on the germination, growth, productivity, mineral and nutritional value of seven wheat (*Triticum aestivum* L.) genotypes under different salinity levels and sowing time. Research Grant by University of Peshawar. 2011.

**PROFESSIONAL AFFILIATION**

1. Member of Pakistan Botanical Society, Pakistan Genetics Society.
2. Member of Proctorial Board University of Peshawar since 2008
3. Associate Editor *Pakistan J. Plant Sciences*.

**ACADEMIC AND ADMINISTRATIVE CONTRIBUTION:**

As a faculty member of the department, I contributed in improving

i. Streaming of seminars in the department by encouraging the students and inviting external speakers.

ii. Organizing botanical tours throughout the country.

iii. Involving students in basic and applied research activities.

**Conferences/workshop/symposia attended**

1. 1994 Workshop on Ecological Concepts and practical skills Course for college teachers. Baragali Summer Campus, University of Peshawar, August 7-13, 1994.

2. 1995 Symposium on the exploitation of Medicinal Wealth of Pakistan. Baragali Summer Campus, University of Peshawar, August 17-21.

3. 1997 Fourth National Meeting on Plant Tissue Culture at Baragali

Summer Campus, University of Peshawar, June 15-19.

4. 1998 Training course in Latest Development in Molecular Biology & Biotechnology held at UGC Regional Center, Lahore.

5. 1998 Sixth Plant Scientists Conference, held at Department of Botany,

University of Peshawar, October, 20-22.

6. 2003 8th National Meeting of Plant Scientists. February 24-28, 2003. Department of Botany. University of Karachi.

7. 2006 Staff development course at IER, 24-07-2006 to 23-08-2006, University of Peshawar.

**Research Publications:**

1. Muhammad, Z. and T. Burni. 1991. Vesicular-arbuscular mycorrhizal association in *Melia* *azedarach* Linn. *J. Sci. & Tech.,* 15: 63-65.
2. Burni, T., Z. Muhammad and A. Hussain. 1993. Vesicular-arbuscular mycorrhizal association in *Targionia hypophylla. Sci. Khyber*, 6: 65-70.
3. Burni, T., Z. Muhammad and B. Awan. 1993. Vesicular-arbuscular mycorrhizal association in *Pellia calycina*. (Tayi). Nees. *Pakphyton*, 5: 21-27.
4. Burni, T., Z. Muhammad and B. Awan. 1994. Vesicular-arbuscular mycorrhizal association in some cultivated medicinal plants. *Mentha piperata* Linn. *Hamdard. Medicus*., 37: 85-91.
5. Burni, T., Z. Muhammad, I. Haq, B. Awan and Samin Jan. 1994. Vesicular-arbuscular association in some cultivated medicinal plants. II. *Psoralea corylifolia* Linn. *Sci. Khyber*, 7 (2): 77-86.
6. Burni, T., T. Jabeen and Z. Muhammad. 1994. Vesicular-arbuscular association in *Equisetum* *ramosissymum* Desf. *Sci. Khyber*, 7 (2): 69-76.
7. Jan, S., Imtiaz-ul-Haq, N. Ahmad, Z. Shah and Z. Muhammad. 1994. Effect of farmyard manure, superphosphate and urea on the morphological characters of *Solanum aviculare* Forst. *Sci. Khyber*, 7 (2): 87- 98.
8. Hayat, S., F. Hussain and Z. Muhammad. 1994. Floristic composition, life form and leaf size spectra of weeds in sarsoon fields of Babozai-Shamozai, District Mardan. J. Sci. & Tech. Univ. Peshawar, 18: 67-70.
9. Ayaz, M., F. Hussain and Z. Muhammed. 1995. Floristic composition of weeds in the wheat fields of Mayar-Jandool, District Dir. *J. Sci. & Technol*., 19:23-28.
10. Burni, T., Z. Muhammad and B. Awan. 1995. Mycorrhiza in medicinal plants. *Hamdard Medicus*, 38 (3): 80 - 84.
11. Muhammad, Z. and F. Hussain. 1995. Effect of light on the development of vesicular-arbuscular mycorrhizal (VAM) association in *Salvia hispanica* L. *Sarhad J. Agric*., 11 (4): 429-435.
12. Hussain, F., K. M. Aslam, Z. Muhammad and M. J. Durrani. 1995. Germination studies on *Vicia sativa* L. *PUTAJ*, 2:253-260.
13. Hussain, F., S. Hayat, and Z. Muhammad. 1995. Phytosociological studies on the weeds of sarsoon fields in Babuzai-Shamozai, District Mardan. *PUTAJ*, 2:247-251.
14. Murad, A., F. Hussain, Q. Marwat and Z. Muhammed. 1995. Floristic composition, life form and leaf size spectra of some weeds of wheat, maize and potato fields of Mustuj, District Chitral. *Pak. J. Pl. Sci.,* 1:153-165.
15. Badshah, L. F. Hussain and Z. Muhammad. 1996. Floristic and ethnoecological studies on some plants of Pirghar Hills, S. Waziristan, Pakistan. *Pakistan J. Pl. Sci*., 2:167-177.
16. Saif-ul-Islam and Z. Muhammad. 2004. Comparative study on four maize cultivars after seed irradiation. *Pak. J. Pl. Sci*., 10 (2): 133-138.
17. Saif-ul-Islam and Z. Muhammad. 2005. Effect of gamma irradiation on the germination and seedling survival of two cultivars of *Zea mays* L. *Pak. J. Pl. Sci.,* 11 (1): 33-38.
18. Muhammad, Z., Saif-ul-Islam and A. Majeed. 2005. Effect of Gamma irradiation on some morphological characters of *Zea mays. Pak. J. Pl. Sci.*, 11 (2): 163-199.
19. Muhammad, Z. and F. Hussain. 2010. Effect of NaCl salinity on the germination and seedling growth of some medicinal plants. *Pak. J. Bot*., 42(2): 889-897.
20. Muhammad, Z. and F. Hussain. 2010. Vegetative growth performance of five medicinal plants under NaCl salt stress. *Pak. J. Bot*., 42 (1): 303-316.
21. Majeed, A., Z. Chaudhary and Z. Muhammad. 2012. Allelopathic assessment of fresh aqueous extracts of *Chenopodium album* L. for growth and yield of wheat (*Triticum aestivum* L.). *Pak. J. Bot*., 44 (1): 165-167.
22. Muhammad, Z. and F. Hussain. 2012. Effect of NaCl salinity on the germination and seedling growth of seven wheat genotypes. *Pak. J. Bot*., 44 (6): 1845-1850.
23. Majeed, A., Z. Chaudhry and Z. Muhammad. 2014. Changes in foliar glycoalkaloids levels of potato (*Solanum tuberosum* L.) triggered by late blight disease severity. *Int. J. Agric. Biol.*, 16: 609-613.
24. Majeed, A., Z. Chaudhry and Z. Muhammad. 2014. Variation in the aggressiveness of *Phytophthora infestans* pathotypes collected from different potato fields of Khyber Pakhtunkhwa (Pakistan). *Int. J. Agric. Biol.*, 16: 807-812.
25. Muhammad, Z. and A. Majeed. 2014. Allelopathic effects of aqueous extracts of sunflower on wheat (*Triticum aestivum* L.) and maize (*Zea mays* L.). *Pak. J. Bot.*, 46 (5): 1545-1551.
26. Majeed, A., Z. Muhammad, A. Majid, A. H. Shah and M. Hussain. 2014. Impact of low doses of gamma irradiation on shelf life and chemical quality of Strawberry (*Fragaria* x *ananassa*) cv. ‘*Corona*’. *J. Anim. Plant Sci*., 24 (5): 518-524.