

*Curriculum vitae of Dr. Sara Zafar*

*Assistant Professor*

*Department of Botany*

*Government College University, Faisalabad, Pakistan*

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**RESUME**

#### ACADEMIC RECORD:

|  |  |  |  |
| --- | --- | --- | --- |
| **Certificate/ Degree** | **Passing Year** | **Major group/Division** | **Board/University** |
| PhD | 2015 | Botany,84.90% | Government College University, Faisalabad |
| M.Phil | 2009 | Botany,90.94% | Government College University, Faisalabad |
| MSc | 2001 | Botany, 1st | University of Agriculture, Faisalabad |
| BSC | 1999 | Zoology, Botany, Chemistry, 1st | University of the Punjab,Lahore |
| HSSC  SSC | 1997  1995 | Pre-Medical, 1st  Science,1st | BISE,Faisalabad  BISE,Faisalabad |

**Dissertataion**

**PhD.**: Improving Salt Tolerance of Wheat (*Triticum aestivum* L.) By Exogenous Application of Zinc and Potassium

**M.Phil:**- Physiological, Biochemical and Anatomical Responses of Soybean (*Glycine max* L.) to salt stress

**M.Sc.**:- Morpho-Physiological Response of two Rice (*Oryza sativa* L.) Cultivars to NaCl Salinity

**Publications**:- Published 11 research papers in National and International Journals of well repute (List attached )

**University Experience**

2005 Lecturer, Govt. College University Faisalabad

June 2016 to date Assistant Professor, \_\_\_do\_\_

# Research Experience

* Research experience (M.Sc & PhD) at NIAB

# Research Supervision Experience

* Supervised 15 M.Sc and 10 M.Phil student
* 2 PhD. student currently under supervision

# Projects

* Research proposal submitted under GCUF-Research Support Program (GCUF-RSP) 2015.

**Impact of melatonin seed priming on morpho-physiochemical, ionic and quality parameters of wheat genotypes under salinity stress**

**Certificate of Appreciation**

* In recognition of valuable contributions in organizing the **International Symposium on Applications of Plant Sciences in Emerging Scenario**,March,20-22,2006 by Dept. of Botany , GC University, Fsd,Pakistan

.**MEMBERSHIPS**

* Member of wwf (2016-2017)(world wide fund for nature)
* Member of wwf (2005-2006)
* Regular membership of Mycopath,Journal of Myco-Phtopathological Society of Pakistan,University of the Punjab ,Lahore

***Administrative Responsibilities***

* Worked as Secrecy Officer in GC University Faisalabad from March 2005 to May 2005.
* Worked as deputy Superintendent in Examination in 2004
* Member of University Prospectus committee in 2006
* Member of the Deptt. Book purchase committee 2015
* Co-advisor students.
* Organizer MECP2016.

**HONOURS /AWARDS**

* HEC Awardee under “Ph.D fellowship for 5000 scholars”(Indigenous) Scheme,Batch-VI,2010. PIN No. 106-1249-Bm6-112

**CONTRIBUTIONS**

* Co-author in contributing for the compilation of Ideal Bio-Practicals for F.Sc.PartI(Ed 1st,2nd and 3rd)
* Co-author in contributing for the compilation of Ideal Bio-Practicals for F.Sc.PartII(Ed 1st,2nd and 3rd)

**Courses for PhD**

* **Biological Engineering (PhD.)**
* **Seed Technology (PhD.)**
* Algae &Fungi (M.Sc.)
* Plant Physiology (MSc.)
* Genetics (M.Sc.)
* Phytohormones (MSc.)

# Publications

1. **Zafar, S**., M.Y.Ashraf, G.Sarwar, S.Mahmood, A.Kausar and I.Ali .2004. Variation in growth and ion uptake in salt tolerant and sensitive rice cultivars under NaCl

salinity. *Asian J. Pl. Sci*., 3 (2): 156-158, 2004.

1. Mahmood, S., **S.Zafar**, M.Y.Ashraf, G.Sarwar, M.Ashraf and M.Naeem. 2004. Comparative biochemical changes in resistant and susceptible cotton cultivars to leaf Curl virus (CLCuV) at germination and early seedling stage: α-amylase starch, total soluble sugars in seed, radicle and plumule. *Asian.J.Pl.Sci*, 3(2): 159-162, 2004.

1. Bhatti, I., M.Naeem R.H. Ahmed, **S.Zafar** and M.Y.Ashraf.2004. Effects of growth hormones GA3, IAA and Kinetin on the internal structure of shoot of *Lens culinris* L. *Int. J. Biol. & Biotech*, 1 (2): 187-193, 2004.
2. Ashraf, M.Y., S.Mahmood, G.Sarwar, M.Ashraf, M.Naeem and **S.Zafar**.2004. Physiological and biochemical changes in resistant and susceptible to leaf curl virus Cotton varieties at germination and early seedling stages: changes in lipase, oil content, protein and soluble sugars. *Int.J.Biol. & Biotech*., I. (2): 217-222, 2004.
3. **Zafar,S.,** M.Y Ashraf and M.Ashraf.2005. Protease activity and associated changes during germination and early seedling stages of Cotton grown under saline conditions. *Int. J. Botany*,1(1),103-107.
4. Kausar,A., I.Ali and **S.Zafar.** Influence of Foliar Applications of Indole- acetic acid.2005. Int.quarterly journal of ISInet. *Biosience Research*,2(2),102-106.
5. Iftikhar Ali, Abida Kausar ,, Mehboob-Ur-Rehman, Yusuf Zafar, Muhammad Asif, Muhammad Ashraf, Sana Riaz, Sara Zafar, Abdul Wahid, Sobia Maqsood, Mubashar Niaz And Syed Qaiser Abbas.Development Of Genetic Linkage Map Of Leaf Hairiness In *Gossypium Hirsutum* (Cotton) Using Molecular Markers.2009. *Pak. J.Bot*.,41(4):1627-1635. (0.822)
6. Iftikhar Ali, Syed Qaiser Abbas, Mansoor Hameed, Nargis Naz, Sara Zafar and Shaista Kanwal.2009.Leaf anatomical adaptations in some exotic species of Eucalyptus LꞌHER. (MYRTACEAE). *Pak. J. Bot*., 41(6):2717-2727. (0.822)
7. **SARA ZAFAR**, M. YASIN ASHRAF, M. NIAZ, ABIDA KAUSAR and JAFAR HUSSAIN. 2015. Evaluation of wheat genotypes for salinity tolerance using physiological indices as screening tool. *Pak. J. Bot*., 47(2): 397-405, 2015. (0.822)

***10.* Sara Zafar**, Muhammad Yaseen Ashraf, Sumera Anwar, Qasim Ali and Ali Noman. 2016. Yield enhancement in wheat by soil and foliar fertilization of K and Zn under saline environment. Soil and Environment, 35(1), 46-55.

**International Publications**

11. Ashraf, M.Y., A.Khan, M.Ashraf and **S.Zafar**.2005.Studies on the transfer of mineral nutrients from feed, water, soil and plants to buffaloes under arid environments. *J.Arid* Environments**,** 66:632-643. (1.641)

12. M.1qbal,N.Akhtar,**S.Zafar** and I.Ali.2008.Genotypic responses for yield and seed oil quality of two Brassica species undersemi-arid environmental conditions. *South African Journal of Botany*,74,567-571. (0.978)

13. Ali Noman, Rohina Bashir, Muhammad Aqeel, Sumera Anwer, Wasif Iftikhar, Madiha Zainab, **Sara Zafar,** Shahbaz Khan, Waqar Islam and Muhammad Adnan**.2016.** Success of Transgenic Cotton (*Gossypium hirsutum* L.): Fiction or Reality? Cogent Food & Agriculture (2):1-13.

14. Ghulam Hyder Khetran, Nehal Khan Bugti, Sumera Anwar, Muhammad Ayub Baloch,

SanaUllah Baloch, Shahbaz Khan Baloch, Karim Dino Jamali, Zafar Ullah, **Sara Zafar**, Waseem Bashir, Hafeez Noor Baloch, Abdul Sattar Khetran. 2016. Nitrogen and Phosphorous Fertlizer Management to Enhance Turnip (Brassica rapa) Production in Field. International Journal of African and Asian Studies, 22, 30-36.

15. **Sara ZAFAR** , Ashraf, M. Y., Ali, Q., Ashraf, A., Anwar, S ., Iqbal, N. , Kausar, A. , Nouman, A. , Ali, M., Zafar, M. A., Feroz, K. 2016. Antioxidant activity and secondary metabolites in selected vegetables irrigated with sewage water. Applied Ecology And Environmental Research, 14(5): 35-48. **(0.5)**

16. Kausar, A.– Ghafoor, R. –Ashraf, M.Y. –Ilyas, M. –Niaz, M. – **Zafar, S.** – Akhtar, N. – Kanwal, H.– Iqbal, N. – Aftab, K. 2016. Alleviation Of Salt Stress By K2SO4 In Two Wheat (*Triticum Aestivum* L.) cultivars. Applied Ecology And Environmental Research, 14(5):49-55.

**(0.5)**

17. Abdul Qadir Baloch, Bhai Khan Solangi, Nehal khan, M.yaqoub, Arif Ali, Satar khtran, Shah Pasand, Sibghatullah Zehri, Riaz Ahmed, Sumera Anwar, AliNoman, Sara Zafar. 2016. Bio Efficacy of Different Acaricide Spray Schedules Against the Mite Population in Okra. Developing Country Studies, 6(10):72-81**.**

**18.** Sara Zafar and M.Y. Ashraf. Shift in Physiological and biochemical processes in wheat supplied with zinc and potassium under saline condition. (Accepted) Journal of Plant Nutrition.

19. Sumera Anwar, Shahbaz Khan, M.Ysin Ashraf,Ali Noman, Sara Zafar,Lijun Liu,SanaUllah and Shah Fahad. 2017.Impact of chelators induced phytoextraction of cadmium on yield and ionic uptake of maize. International Journal of Phytoremediation.19(6):505-513.(2.08).

20. Sumera Anwar, Shahbaz Khan, Muhammad Yasin Ashraf, Shah Fahad, Rohina Bashir, **Sara Zafar,** Nusrat Perveen. Modulations of oxidative stress by organic and synthetic chelator increase cadmium tolerance and phytoextraction efficacy of maize",.Submitted to Frontier.

**Courses and Symposia Attended**

1. International training workshop on Crop Seeds Technology from June 26,2016 to July 15,2016 at Hubei Provincial Seed Group Co., Ltd. Department of International Cooperation, MINISTRY OF Science and Technology, The People’s Republic of **China**.

1. Workshop on Digital library & e-Services held on 1-7 Sep, 2015 by Higher Education Commission, Islamabad, Pakistan and Office of Research, Innovation &Commercialization, Government College University Faisalabad.
2. ISESCO Women in Science Conference: Contribution of Pakistani Women in Scientific and Social Development by ISESCO Women in Science Chair, Quaid-i-Azam University, Islamabad, Pakistan. March 08, 2016.
3. **Active Citizens Training** of Facilitators at Government College University Faisalabad,05-09 October 2015.
4. Hands on training on **SDS-PAGE** held on September 08-09,2015 organized by Molecular Care University of Agriculture,Faisalabad.
5. 5th Training Course on **Biochemical &Molecular Techniques in Plant Breeding**,06-16 Oct.2015.
6. Hands on training on **DNA isolation and PCR** held on 7-8 August,2015 organized by Molecular Care University of Agriculture,Faisalabad.
7. Attended a symposium on “**Ethnobotany**:THE FUTURE PROSPECTIVES” Monday May 11,2015.
8. 41st Post graduate training course on “**Nuclear and other Advanced Techniques in Agricultutal and Biological Research**” 2013, NIAB, Fsd.
9. **Hands on training for abiotic stress tolerance in plants** (5-9 Sept,2011), NIAB, Fsd.
10. National training course on **Modern techniques in Biotechnology** organized by National Institute of Biotechnology and genetic engineering on 26-31 March 2006.
11. HEC workshop on **advances in Plant Ecology** organized by Department of Botany, University of Karachi (July3-6,2006).
12. Attended a symposium on **awareness of Parthenium weed** in Sept.2005 by the Department of Mycology and Plant Pathology, University of the Punjab ,Lahore.
13. **32nd Post-Graduate Training** course at NIAB, 20th September to 1st October 2004.

**Oral PRESENTATIONS:-**

**Abstract in conferenceS &SyMPOSIA**

1. **Oral presentation:-**

**Sara Zafar**, M. Yasin . Ashraf. Supplemental Zn and K improves wheat grain yield through alterations in physico-chemical attributes under salt stress.MECP 2016.

**2.** Sumera Anwar --- M. Yasin Ashraf --- Shahbaz Khan--- **Sara Omer** --- Ali Noman

Physiological Characteristics of Maize under Chelators Induced Phytoextraction of Cadmium . Abstract of Applied Sciences and Engineering, 2016, 9 DOI: 10.18488/journal.1001/2016.9/1001.9. Nippon Hotel, İstanbul-Turkey Conference Website: www.scihost.org

1. Abida Kausar, M. Yasin Ashraf and **Sara Zafar**.2016. Biomass production and mineral ions absorption studies under various concentrations of K2SO4 in salt stress conditions in two wheat (*Triticum aestivum* L.) cultivars. MECP 2016.

4. Kalsoom Akhter, M. Yasin Ashraf and Sara Zafar.2016. Morphophysiological and biochemical adaptations of some accessions of Cholistan Desert grasses to water deficit environments.

1. SARA ZAFAR, M. YASIN. ASHRAF, MUBASHIR NIAZ AND ABIDA KAUSAR. Improvement in wheat grain yield through alterations in physico-chemical attributes by Zn and K application under saline conditions. ISESCO Women in Science Conference: Contribution of Pakistani Women in Scientific and Social Development March, 08, 2016, pp 54.
2. ABIDA KAUSAR, M. YASIN ASHRAF, KIRAN AFTAB AND SARA ZAFAR. Mitigate the salt stress by seed priming with different temperatures, sodium chloride and distilled water in wheat (*Triticum aestivum* L.). ISESCO Women in Science Conference: Contribution of Pakistani Women in Scientific and Social Development March, 08, 2016, pp 51.

***REFERENCES:-***

**1. Dr. Mubashir Niaz**

Professor of Botany,

Government College University

Faisalabad, Pakistan

2. **Prof.** **Dr. M. Yasin Ashraf (*TI*)**

Deputy Chief Scientist,

Nuclear Institute for Agriculture and Biology (NIAB),

Faisalabad, Pakistan.