

Curriculum Vitae

Dr. Sadia Zafar

Assistant Professor (TTS)

Department of Botany,

University of Education Lahore, Faisalabad Campus.



Particulars

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Employment

September 02, 2020- till date: Assistant Professor (TTS), Department of Botany, University of Education (Lahore), Faisalabad-Campus, Pakistan

Education

Certificate /Degree	Year	Major subjects	Institute
Ph. D.	2019	Botany	Government College University, Faisalabad
M. Phil.	2015	Plant Sciences	Quaid-i-Azam University, Islamabad
B. ED	2014	Science Group	Allama Iqbal Open University, Islamabad
Master	2013	Botany	University of Sargodha
Bachelor	2011	Botany, Zoology, Chemistry	University of Sargodha
Intermediate	2009	Pre-medical	BISE Sargodha
Matric	2007	Science Group	BISE Sargodha

Research title

Ph. D.: "Grain yield and nutritional quality of commercial maize (*Zea mays* L.) genotypes: aspergillus exposure and aflatoxin contamination"
M.Phil: "Performance of Wild Type and IAA Deficient Mutants of *Pseudomonas moraviensis* on the Physiology of Chickpea under Salt Stress"
M.Sc.: "Biochemical Analysis of Some Important Medicinal Plant Recipes Used For Different Ailments in Kallar Kahar, Punjab Pakistan"

Research Interests

Stress Physiology, Mycology: Aflatoxins, Climate change impact on plants, Plant microbe interactions, Biofertilizer, Bioremediation & Medicinal Plants

Publications

Published

- Muhammad Akram, Muhammad Riaz, Sarwat Noreen, Mohammad A. Shariati, Ghazala Shaheen, Naheed Akhter, Farzana Parveen, Naheed Akhtar, **Sadia Zafar**, Aymen Owais Ghauri, Zerfishan Riaz, Fahad S. Khan, Shamaila Kausar, Rida Zainab. (2019). "Therapeutic potential of medicinal plants for the management of scabies". *Dermatologic Therapy*. <https://doi.org/10.1111/dth.13186>. (IF: 1.093)

- Muhammad Akram, Muhammad Riaz, Naveed Munir, Naheed Akhter, **Sadia Zafar**, Farhat Jabeen, Mohammad Ali Shariati, Naheed Akhtar, Zarfishan Riaz, Syed Hassan Altaf, Muhammad Daniyal, Rabia Zahid and Fahad Said Khan. (2019). Chemical constituents, experimental and clinical pharmacology of *Rosa damascena*: a literature review. *Journal of Pharmacy & Pharmacology*. <https://doi.org/10.1111/jphp.13185>. (IF: 2.405)
- Jawad Zaheer, Qazi Najam-Us-Saqib, Asif Mehmmod Hashmi, Muhammad Mukhtiar, **Sadia Zafar**, Muhammad Riaz, Ghulam Rasool, Muhammad Akram, Syed Muhammad Ali Shah, Saher Rahat, Faiz Said Khan. (2019). "Ex-vivo abortifacient activity of *Androsace foliosa* n-hexane leaves extract on isolated rabbit uterus" *Pakistan Journal of Pharmaceutical Sciences*. 32(5), 2333-2339. (IF: 0.596)
- **Sadia Zafar**, Muhammad Ali, Naeem Iqbal, Khalid Aziz, Muhammad Zulqurnain Haider and Muhammad Rafique (2018). "Effects of *Aspergillus flavus* inoculation on spring Maize (*Zea mays* L.) grain yield". *International Journal of Biosciences*, 13(4), 24-35.
- Muhammad Shakeel, Farhat Jabeen, Rehana Iqbal, Abdul Shakoor Chaudhry, **Sadia Zafar**, Muhammad Ali, Muhammad Saleem Khan, Adeel Khalid, Samina Shabbir and Muhammad Saleem Asghar. (2017). "Assessment of Titanium Dioxide Nanoparticles (TiO₂-NPs) Induced Hepatotoxicity and Ameliorative Effects of *Cinnamomum cassia* in Sprague-Dawley Rats." *Biological Trace Element Research*, 182(1), 57-69. (IF: 2.361)
- Iftikhar Ahmad, Mumtaz Hussain, Abdul Rehman, Irfan Mustafa, Muhammad Farooq, Sehrish Jabeen and **Sadia Zafar** (2012). "Threats to medicinal plant diversity in Soon Valley (Salt Range) of Punjab, Pakistan." *International Researchers*, 1(4), 157-169.

Submitted

- Javaria Afzal; Hamzah Saleem; Muhammad Shoaib Rana; Sajjad Ali; Muhammad Azeem; Muhammad Nawaz; Asma Shaheen; Zia Ul Hassan Shah; Ibrahim A.A. Mohamed; Sadia Zafar; Shafaqat Ali. (2020). Chromium toxicity in plants: consequences on growth, chromosomal behaviour and mineral nutrient status. *Environmental Science and Pollution Research*.
- Muhammad Asad; Ghazala Kaukab; **Sadia Zafar**; Tanveer A. (2020). Tabish, Investigating the curative potential of *Moringa olifera* seeds against copper oxide nanoparticles induced toxicity in *Oreochromis mossambicus*. *Biochemical and Biophysical Research Communications*.
- Samreen Sarwar, Nudrat Aisha Akram and **Sadia Zafar** (2020). "The spatial regulations and ecotypic variations in biochemical potential of okra (*Abelmoschus esculentus* L.) leaf and fruit under field conditions". *Biochemical Systematics and Ecology*.
- **Sadia Zafar**, Naeem Iqbal and Muhammad Ali. (2019). "Influence of *Aspergillus flavus* inoculation on the morphology of cob and grain quality of *Zea mays* L. genotypes".
- **Sadia Zafar**, Naeem Iqbal, Muhammad Zulqurnain Haider, Muhammad Rafique and Muhammad Ali (2019). "Responses of spring sown maize (*Zea mays* L.) genotypes to *Aspergillus flavus* inoculation: grain yield and quality attributes" *Pakistan Journal of Botany*.
- **Sadia Zafar**, Asghari Bano and Tamoor Hassan (2019). "Characterization of IAA deficient mutants of *Pseudomonas moraviensis* and its role in the mitigation of salt stress in chickpea plants". *Pakistan Journal of Botany*.
- **Sadia Zafar**, Iftikhar Ahmad, Farhat Jabeen and Hamza Saleem (2020). "Spectrophotometric determination of nutrients in some important medicinal plants of Kallar Kahar, Punjab Pakistan".

Book Chapters

- Muhammad Akram and Sadia Zafar. Categorization, Management and Regulation of Phytotoxins (2020) In: *Poisonous Plants and Phytochemicals in drug discovery* to be published by Willey. **(Accepted)**
- Muhammad Akram and Sadia Zafar Mushroom: species, classification: edible and non-edible mushroom, bioactive. In: *Poisonous Plants and Phytochemicals in drug discovery* to be published by Willey. **(Accepted)**

Research Project

Principal Investigator in “Evaluating the roles of foliar application of trehalose in drought stress tolerance in growing maize plants” submitted for Start-Up Research Grant Program.

Languages

English, Urdu

Conferences/Seminars/Symposiums/Workshops

A. Organized

- International Virtual Seminar on “Plant Phenolics; an Ecological Perspective”, September 29, 2020. Department of Botany, Division of science of technology, University of Education Lahore, Faisalabad Campus.
- International Virtual Seminar on “Biopesticides: A need for Food and Environmental Safety”, July 27, 2020. Department of Botany, Division of science of technology, University of Education Lahore, Faisalabad Campus.
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B. Participated

- 2nd International Conference on “Applied Zoology (ICAZ-2019)”, December 19-20, 2019. Department of Zoology, GCUF.
- International Seminar on “Business organization as Darwinian entity”, January 03, 2019. Department of Zoology, GCUF.
- Three days international conference on “Water Saving and Plant Production Strategies: Constraints and implication for sustainable agriculture (WWSP-2019)”, March 26-28, 2019. Department of Botany, GCUF.
- International Symposium on “Emerging Strategies in Exploration of Natural Products”, April 30, 2018. Department of Botany, GCUF.
- One day Workshop on “Biosafety & Biosecurity for Young Researchers”, March 26, 2018. Department of Zoology GCUF, National Training & Research Laboratories and Sure bio-diagnostics & Pharmaceuticals.
- International Seminar on “Challenges & Opportunities for Aquaculture and Animal feed Industry”, December 20, 2017. Department of Zoology, GCUF.
- International Symposium on “Physical and Biological Approaches for Effective waste Water Treatment”, March 30, 2017. Department of Botany, GCUF.
- International Symposium on “Establishment of Vegetables Garden with Organic Fertilizers”, March 13, 2017. Department of Botany, GCUF.
- International Conference of 37th Pakistan Congress of Zoology, February 28- March 02, 2017. Department of Zoology GCUF.
- International Conference on, “Major Environmental Constraints to plants: Assessment & Reclamations”, March 28-30, 2016. Department of Botany, GCUF.
- International Seminar on “Recent Trends and Techniques to Evaluate Aquatic Toxicity”, December 22, 2016. Department of Zoology, GCUF.
- One day training on “Workshop on teaching skills for newly appointed CTIs” held on October 01, 2016.
- One day seminar on “Climate Warming Impacts on Fish Biodiversity” held at Fish biodiversity Hatchery Chashma, Mianwali on April 26, 2016.
- Two days International seminar and workshop on “Fish Farming Practices in Punjab, Pakistan”, December 15-16, 2015. Department of Zoology, GCUF.
- Two Days 1st National Palaeontology Seminar held on December 4-5, 2014. Department of Zoology, Wildlife & Fisheries, GCU Faisalabad.

- International Workshop on “Industrial development for Microbes” Pak – US joint initiative on December 8-10, 2013. Department of biotechnology, Quaid-i-Azam University, Islamabad.
- National Annual Clinical Virology Symposium on “Role of *E.coli* in Biotechnology” held on August 10, 2013.
- Conference on Molecular Microbiology, January 06, 2013 organized by Department of microbiology, Quaid-i-Azam University, Islamabad.

Skills

Laboratory Techniques: Expert in handling of apparatus, sterilization techniques, media preparation, inoculation and culturing of microbes, microscopy, microscopic photography,

Computer: Microsoft Office (MS word, MS Power point, MS Excel).

Softwares: Statistics, SPSS, Endnote.

References

- Prof. Dr. Muhammad Ali (T.I), Vice Chancellor, Quaid-i-Azam University, Islamabad, Pakistan. Email: vco@qau.edu.pk
- Prof. Dr. Naeem Iqbal, Chairman Department of Botany Government College University, Faisalabad, Pakistan. Email: drnaeem@gcuf.edu.com
- Dr. Nudrat Aisha Akram, Assistant Professor, Department of Botany, Government College University, Faisalabad. E-mail: nudrataauaf@yahoo.com