

Dr. SHAZIA SHAFIQUE

Associate Professor (Tenured)
HEC Approved Ph.D. Supervisor
Faculty of Agricultural Sciences, Department of Pathology,
University of the Punjab, Lahore, Pakistan

CURRICULUM VITAE



Father's Name: Muhammad Shafique
Nationality: Pakistani
Date of Birth: 2nd December, 1979.
Place of Birth: Lahore
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ACADEMIC RECORD

Certificate/ Degree	Subjects	Year	Marks	Division	Institution
Ph. D.	Mycology and Plant Pathology	2009			Punjab University Lahore
M. Sc.	Botany	2002	808	I	Punjab University Lahore
B. Sc.	Botany, Zoology, Chemistry	2000	482	I	Queen Mary College, Lahore
F. Sc.	Bio. Phy. Chem.	1998	752	I	Queen Mary College, Lahore
Matriculation	Phy. Chem. Bio. Maths	1996	723	I	Ala-ud-din Academy Lahore

Title of M. Sc. Thesis

Effect of aqueous extract of *Parthenium hysterophorus* on the growth of sun flower.

Title of Ph.D. Thesis

Genetic modification of potential fungal species to evolve high cellulase yielding strains.

Distinctions

- Third position in Punjab in M.Sc. Botany.
- Second position in Ph. D. course work.

Teaching Experience

- **Associate Professor (Tenured)** in Institute of Agricultural Sciences, University of the Punjab, from 6 November 2019 – till now.
- **Assistant Professor (TTS)** in Institute of Plant Pathology, University of the Punjab, from May 2010 – 6 November 2019.
- **Contract Lecturer** in Institute of Mycology and Plant Pathology, University of the Punjab, from September 2008 – May 2010.
- **Part time teacher** for Basic Computer in Institute of Mycology and Plant Pathology, University of the Punjab, from September 2007 – February 2008.
- **Part time teacher** for Ecology and Environmental Sciences in Institute of Mycology and Plant Pathology, University of the Punjab, from March 2007.
- **Part time teacher** for Basic Computer in Department of Mycology and Plant Pathology, University of the Punjab, from September 2006 – February 2007.
- **Part time teacher** for Basic Computer in Department of Mycology and Plant Pathology, University of the Punjab, from September 2005 – February 2006.
- **Assistant Teacher** in Department of Mycology and Plant Pathology, University of the Punjab, from April 2003-September 2008.

Computer Skills

Microsoft Word, Microsoft Excel, Microsoft Power Point, Microsoft Publisher, SPSS Email and Internet browsing and overall comprehensive in general applications.

Duties Assigned by the Institute

- **Member: DDPC**, Institute of Agricultural Sciences, University of the Punjab, Lahore
- **Member: DTRC**, Institute of Agricultural Sciences, University of the Punjab, Lahore
- **Member: Board of Studies**, Institute of Agricultural Sciences, University of the Punjab, Lahore.
- **Subject Editor of Mycopath**, an official Journal of Myco-Phytopathological Society of Pakistan since 2010.
- Accompanying **study tours** conducted for B.Sc. (Hons.), M.Sc. (Hons.) and Ph.D. classes to various industries and Northern hilly areas of Pakistan.
- **Member of admission committee** in service PhD program
- **Member of departmental sports committee**
- Conducting **research** to M.S. (Hons) and B.S. (Hons) students.

Areas of Research

- Mycology
- Plant pathology
- Fungal Biotechnology
- Allelopathy/Biocontrol
- Weed Management (especially *Parthenium hysterophorus*)

- Biochemical and molecular studies

Scholarships and Awards

- **Best Poster presentation award in 3rd International Conference on Biotechnology Challenges and Opportunities in Pakistan**, 8-9 February, 2017, University of South Asia, Lahore, Pakistan.
- **Performance based increment 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 and 2019.**
- **Performance based honorarium 2014.**
- **FEMS Congress Grant to attend the 5th FEMS Congress of European Microbiologists**, Leipzig, Germany. 21-25 July, 2014.
- **Research productivity award 2011** (Category G) and **2012** (Category F) by Pakistan Council of Science and Technology.
- **Best Paper presentation award in International Conference on Applied Life Sciences**, September, 10-13, 2012, Konya, Turkey.
- **TWAS/Biovision grants** to attend Biovision 2010 international conference, Bibliotheca Alexandrina, Alexandria, Egypt. 10-15 April 2010.
- **Incentive award on publications for the year 2009** by University of the Punjab, Pakistan.
- **Best Poster presentation award in Second International Weed Science Conference**. UAAR, Rawalpindi. March 20-22, 2006.

Scientific Research Summary

- Published Research papers: **104**; Impact factor: **50.949**; Total Citations: **1463**
 Research Papers in **Impact** factor Journals: **56**; Papers in International Journals without impact factor: **07**; HEC Recognized Journals: **20**; Non-HEC Recognized Journals: **14**; In Conference Proceedings: **07**
- Monographs/Books: **4**
- Completed Research Projects: **12**
- Research student supervision: **Ph.D.:** **2** (Completed); **MSC (Hons):** **16** (completed); **2** (On going); **BSC (Hons):** **21** (completed); **1** (On going).
- **HEC Approved Ph.D. Supervisor since August 2010.**

Research Supervisions

Ph. D. Theses Supervision:

1. Aqeel Ahmad, 2009-2014. “Inducible defense responses in tomato triggered by *Penicillium oxilicum* against *Alternaria alternata* leaf spots of tomato”.
2. Muhammad Shakeel, 2013-2017. Characterization of Growing Conditions for Postharvest Quality of Broccoli (*Brassica oleraceae* L.).

M. Sc. (Hons.) Theses Supervision:

1. Usama Akbar, 2022-2023.
2. Javed Hassan, 2021-2022. (Ongoing)
3. Muhammad Faiq, 2021-2022. Evaluation of host induced resistance against post infection by pathogenic fungi in spinach.
4. Asad Ali, 2021-2022. Expression studies of defense genes in chili induced by fungal infection.
5. Muhammad Bilal Razzaq, 2019-2021. Isolation, characterization and management of *Alternaria* leaf blight of turnip.
6. Ahmad Hassan, 2019-2021. Potential assessment of rhizospheric *Pseudomonas* spp. for the management of *Fusarium* wilt under desert climate.
7. Ume Attiya, 2018. “Antagonistic effect of *Penicillium* metabolites on growth and transcript level of mung bean leaf necrotic pathogen”.
8. Qurat-ul-Ain Asgher, 2017. Characterization and *In vitro* control of leaf spot causing pathogens of Cabbage.
9. Sonia Sahar, 2016. “Biological control of leaf spot of brinjal using *Thymus serpyllum*”.
10. Ayesha Nisar, 2015. “Host range, molecular characterization and evolutionary analysis of *Tomato Leaf Curl Palampur Virus* isolated from cucurbits.”
11. Muhammad Asif, 2013. Defense response of selected Eucalyptus species against *Fusarium oxysporum* – cause of wilt in chili.
12. Zunaira Zaheer, 2009. “Biological Control and Genetic Characterization of *Fusarium solani*”.

M. Sc. (Hons.) Theses Co-Supervision:

1. Aqsa Nawaz, 2022-2023.
2. Sumbal Fatima, 2022-2023.
3. Ghulam Ruqaiya, 2018. *Penicillium* metabolites-as biological control agents and gene regulators of lady finger leaf spot pathogen.
4. Asma Murtaza, 2008. “Control of *Alternaria citri* using antifungal potential of *Trichoderma* species”.

B. Sc. (Hons.) Internship Reports Supervision:

1. Nimra Nadeem, 2022. Detection of pathological contamination in food samples.

2. Meraj Baqir, 2022.
3. Nawaal Hassan, 2022. Basic Techniques for identifications of Plant Pathogens.
4. Zanica Choudhary, 2021. General practicing of Molecular techniques in proteomics and biopharmaceutical lab.
5. Mubeen Ibrar, 2021. Strategies used to control the pests in food and machinery corporations.
6. Uneeza Javaid, 2020. Use of various Serological Techniques for the Detection and Diagnosis of Plant Viruses.
7. Amna, 2019. Diagnostic lab at CAMB.
8. Sabeera Asif, 2019. Basic techniques in microbiology and molecular biology.
9. Madiha Nayab, 2013. Physicochemical analysis of soil and water to study their fitness criteria with respect to irrigation parameters.
10. Arooj Yousuf, 2010. Bioefficacy of extracts of *Ageratum cornyzoides* to control *Drechslera* species.

B. Sc. (Hons.) Internship Reports Co-Supervision:

1. Muhammad Sohail, 2020. Identification of resistant source against stripe rust of wheat.
2. Muhammad Faiq, 2020. Evaluation of mycoflora associated with quality traits of maize and barley.
3. Sahar Mansha, 2018. Screening of chilli germplasm against Cucumber Mosaic Virus of chilli (CMV) and its management through resistance inducing chemical.
4. Muhammad Ishtiaq, 2016. Production technology of cucumber, sweet pepper and maize.
5. Mina Rafique, 2015. Identification and Management of *Alternaria ochroleuca* – A cause of Leaf Necrosis in Money Plant.
6. Iqra Khan, 2014. Isolation of microorganisms from water and soil of hot spring of Kashmir.

Research in Collaboration with other Institutes

M. Sc. (Hons.):

1. Alina Javaid, 2019. Identification and Management of Fungal Leaf Spots of *Helianthus annuus* Using *Nerium oleander* Extract. (Department of Botany, Education University).
2. Rubab Rafique, 2019. Biological Control of Fungal Leaf Spots of *Rosa indica* L. by *Datura stramonium* L. Extract. (Department of Botany, Education University).
3. Ayesha Mubarak, 2019. Biocontrol of Fungal Leaf Spot Disease of *Spinacia oleraceae* L. by Using *Catharanthus roseus* Extracts. (Department of Botany, Education University).

B. Sc. (Hons.):

1. Saif, 2021. Biodegradation of Chlorpyrifos By Selected Fungal Species Isolated from Agricultural Soils of Bahawalpur District. (University of the Lahore)
2. Alina Javaid, 2017. Management of *Syzygium cumuni* leaf necrosis by secondary metabolites of *Trichoderma*. (Department of Botany, Education University).
3. Fatima, 2017. Identification of filamentous fungi causing banana fruit rot. (Department of Botany, Education University).
4. Saba Mustansir, 2016. Isolation of Fumagillin from *Aspergillus fumigatus*. (Gulberg College, Lahore).
5. Mariam Nazeer, 2016. Isolation of lignocellulolytic fungi from soil samples of different sites of PU. (Gulberg College, Lahore).

Research Projects

1. Biodegradation of Chlorpyrifos by Selected Fungal Species Isolated from Agricultural Soil. Department of Plant Pathology, Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2022-2023.
2. Isolation and identification of *Fusarium equiseti* as leaf spot pathogen of *Spinacia oleraceae* L. and its management using *Catharanthus roseus* extracts. Department of Plant Pathology, Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2021-2022.
3. Biocontrol of fungal leaf spot disease of *Spinacia oleraceae* L. by using *Catharanthus roseus* extracts. Department of Plant Pathology, Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2021.
4. Detection of aflatoxins and their exploitive interaction with beneficial bacteria. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2019-2020.
5. Antagonistic potential of *Trichoderma* secondary metabolites against *Alternaria alternata*. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2017.
6. "Control of a foliar pathogen of tomato by using a combination of synthetic resistance elicitors". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2016.
7. "Protein profile of tomato induced by pathogenic and non-pathogenic fungal species". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2015.
8. "Defense response of selected Eucalyptus species against black spot pathogen of *Pisum sativum*". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2014.
9. "Defense response of selected Eucalyptus species against *Fusarium oxysporum* – cause of wilt in chili". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2013.
10. "Development of DNA finger prints (genetic signatures) of Khanspur mushrooms". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2012.

11. “Bioefficacy of extracts of *Ageratum conyzoides* to control Drechslera species” Institute of Plant Pathology, University of the Punjab, Lahore, Pakistan, 2011.
12. “Biological Control and Genetic Characterization of *Fusarium solani*” Institute of Plant Pathology, University of the Punjab, Lahore, Pakistan, 2010.

Books/Monographs Published

1. **Shazia Shafique**, Zunera Zaheer and Sobiya Shafique, 2011. Management and genetic characterization of *Fusarium solani*: Efficacy of *Parthenium hysterophorus* as natural fungicide. VDM Verlag Dr Muller Publishing house Ltd Germany ISBN # 978-3-639-36334-0.
2. Sobiya Shafique, Tahir Mehmood and **Shazia Shafique**, 2011. Management of potent pathogenic *Alternaria alternata* strains of tomato: Fungitoxic potential of *Tagetes erectus*. VDM Verlag Dr Muller Publishing house Ltd Germany ISBN # 978-3-639-35345-7.
3. Sobiya Shafique and **Shazia Shafique**, 2011. Genetic modification of amylase producing fungi: Enhancement of enzyme activity through UV and chemical mutagenesis. VDM Verlag Dr Muller Publishing house Ltd Germany ISBN # 978-3-639-32544-7.
4. **Shazia Shafique** and Sobiya Shafique, 2011. Strain improvement of cellulase yielding fungi: Modification through UV and chemical mutagenesis. VDM Verlag Dr Muller Publishing house Ltd. Germany ISBN # 978-3-639-32543-0.

Duties of Scientific Journals

1. Technical Editor of Mycopath, an official Journal of Myco-Phytopathological Society of Pakistan.
2. Reviewer of Journal of Plant Studies, Canadian Journal.
3. Reviewer of Mycopath, IAGS Journal.
4. Editor of Modern Biosphere International Journal, Turkey.
5. Reviewer of Pakistan Journal of Phytopathology.

Membership of Societies

1. Life member, Pakistan Phytopathological Society.
2. Member, Myco-Phytopathological Society of Pakistan.
3. Member, Weed Science Society of Pakistan
4. Life time membership of International society of Applied Life Sciences, Turkey.

LIST OF PUBLICATIONS (Impact factor: 51.949)

Papers Published In International Journals With Impact Factor:

1. Sobiya Shafique, Ayesha Mubarak, **Shazia Shafique**, Abrar Hussain, Alina Javed and Rubab Rafique, 2022. *Aspergillus aculeatus* – a novel leaf spot pathogen of *Spinacia oleraceae* from Pakistan. Journal of Animal and Plant Sciences, 33 (1): doi.org/10.36899/JAPS.2023.1.0599. (impact factor: **0.570**)

2. Mariam Zameer, **Shazia Shafique**, Sobiya Shafique, Usaal Tahir, Nureen Zahra, Bushra Rashid, Rubab Afzaal, 2022. Physiological and Biochemical Response of Transgenic cotton plants to Drought Stress. *Polish Journal of Environmental Studies*, DOI: 10.15244/pjoes/146461. (impact factor: **1.871**)
3. Sobiya Shafique, Ume Attia, Naureen Akhtar, **Shazia Shafique**, 2022. Isolation and Identification of a Novel Leaf Necrotic Pathogen of *Vigna radiata* in Pakistan. *Pakistan Journal of Botany*, 54 (6): 1139-1145. DOI:10.30848/PJB2022-5(42). (impact factor: **1.1**)
4. **Shazia Shafique**, Ayesha Mubarak, Sobiya Shafique, Abrar Hussain, Alina Javed and Rubab Rafique, 2022. Isolation and Identification of Novel Leaf Spot Pathogen - *Fusarium equiseti* from *Spinacia Oleraceae*. *Pakistan Journal of Botany*, 54 (3): 1139-1145. DOI: 10.30848/PJB2022-3(21). (impact factor: **1.1**)
5. **Shazia Shafique**, Rubab Rafique, Sobiya Shafique, Abrar Hussain, Alina Javed and Ayesha Mubarak, 2021. *Fusarium incarnatum*, a Novel Leaf Spot Pathogen Isolated from *Rosa indica* in Pakistan. *International Journal of Agricultural and biology*. 25:1096–1100. (impact factor: **0.822**)
6. **Shazia Shafique**, Sobiya Shafique, Sonia Sahar and Naureen Akhtar, 2020. First Report of *Exserohilum rostratum* (Drechsler) K.J. Leonard & Suggs. inducing Leaf Spot of *Solanum melongena* in Pakistan. *International Journal of Agricultural and biology*, 24(4): 751-754. (impact factor: **0.822**)
7. Sobiya Shafique, **Shazia Shafique**, Mariam Zameer and Muhammad Asif, 2019. Plant defense system activated in chili plants by using extracts from *Eucalyptus citriodora*. *Biocontrol Science*, 24(3): 137-144. (impact factor: **0.806**)
8. Muhammad Shakeel, Salik Nawaz Khan, Yasar Saleem, Paul J. Burgess, **Shazia Shafique**, 2019. Colour, water and chlorophyll loss in harvested broccoli (*Brassica oleracea* L. Italica) under ambient conditions in Pakistan. *Scientia Horticulturae*, 246: 858–861. (impact factor: **1.961**)
9. **Shazia Shafique**, Sobiya Shafique, Alina Javed, Naureen Akhtar, and Shumaila Bibi, 2019. Analysis of Antagonistic Potential of Secondary Metabolites and Organic Fractions of Trichoderma Species against *Alternaria alternata*. *Biocontrol Science*, 24(2): 81 – 88. (impact factor: **0.806**)
10. Sobiya Shafique, **Shazia Shafique**, Sonia Sahar, Naureen Akhtar, 2019. First report of *Cladosporium cladosporioides* instigating leaf spot of *Solanum melongena* from Pakistan. *Pakistan Journal of Botany*, 51(2): 755-759. (impact factor: **0.672**)
11. Sobiya shafique, Ambreen Naseer, Naureen Akhtar, **Shazia Shafique**, 2018. Biological control of leaf spot causing fungal pathogens in red edge dracaena and sow thistle. *Pakistan Journal of Agricultural Sciences*. 55(3): 667-674. (impact factor: **0.618**)
12. Tehmina Anjum, Waheed Akram, **Shazia Shafique**, Sobiya Shafique, Aqeel Ahmad, 2017. Metabolomic analysis identifies synergistic role of hormones biosynthesis and phenylpropanoid pathways during Fusarium wilt resistance in tomato plants. *International Journal of Agricultural and biology*. 19 (5): 1073-1078. (impact factor: **0.746**)

13. **Shazia Shafique**, Sobiya Shafique, Aqeel Ahmad, 2017. Defense response of *Eucalyptus camaldulensis* against black spot pathogen of *Pisum sativum*. *South African Journal of Botany*. 113: 428-436. (impact factor: **1.427**)
14. Sobiya Shafique, Mina Rafique, Naureen Akhtar and **Shazia Shafique**, 2017. Identification and Management of *Alternaria ochroleuca* – A Cause of Leaf Necrosis in Money Plant. *Journal of Animal and Plant Sciences*. 27 (4): 1276-1286. (impact factor: **0.381**)
15. Zoobia Bashir, Sobiya Shafique, Aqeel Ahmad, **Shazia Shafique**, Nasim A. Yasin, Yaseen Ashraf, Asma Ibrahim, Waheed Akram and Sibgha Noreen, 2016. Tomato Plant Proteins Actively Responding to Fungal Applications and Their Role in Cell Physiology. *Frontiers in Physiology*. 7: 1-10. (impact factor: **4.031**)
16. Naureen Akhter, Ambreen Naseer, Sobiya Shafique, **Shazia Shafique**, Komal Haneef, and Rahila Hafeez, 2016. First Report of *Phyllosticta aristolochiicola* Causing Leaf Spot of *Sonchus oleraceus* in Pakistan. *Plant Disease*. 100 (7): 1503. (impact factor: **3.02**)
17. Naureen Akhter, Ambreen Naseer, Sobiya Shafique, **Shazia Shafique**, and Rahila Hafeez, 2015. First Report of *Alternaria arborescens* Causing Leaf Spot of *Dracaena marginata* in Pakistan. *Journal of Plant Pathology*. 97 (4): 70. (impact factor: **1.02**)
18. **Shazia Shafique**, Muhammad Asif and Sobiya Shafique, 2015. Management of *Fusarium Oxysporum F. Sp. Capsici* by Leaf Extract of *Eucalyptus citriodora*. *Pakistan Journal of Botany*. 47(3): 1177-1182. (impact factor: **0.822**)
19. Aqeel Ahmad, Sobiya Shafique and **Shazia Shafique**, 2014. Molecular basis of antifungal resistance in tomato varieties. *Pakistan Journal of Agricultural Sciences*. 51 (3): 685-689. (impact factor: **1.049**)
20. Aqeel Ahmad, **Shazia Shafique** and Sobiya Shafique, 2014. Intracellular interactions involved in induced systemic resistance in tomato. *Scientia Horticulturae*. 176: 127-133. (impact factor: **1.365**)
21. **Shazia Shafique**, Aqeel Ahmad, Sobiya Shafique, Tehmina Anjum, Waheed Akram, Zoobia Bashir, 2014. Determination of Molecular and Biochemical Changes in Cotton Plants Mediated by Mealybug. *NJAS - Wageningen Journal of Life Sciences*. 70-71: 39-45. (impact factor: **1.143**)
22. Tahir Mehmood, Sobiya Shafique, **Shazia Shafique** and Zunera Zaheer, 2014. Fungitoxic Potential of *Tagetes erectus* for the Management of *Alternaria alternata* Strains of Tomato. *Pakistan Journal of Botany* 46(3): 1047-1054. (impact factor: **0.822**)
23. Aqeel Ahmad, Sobiya Shafique, **Shazia Shafique** and Waheed Akram, 2014. *Penicillium oxalicum* directed systemic resistance in tomato against *Alternaria alternata*. *Acta Physiologiae Plantarum*. 36 (5): 1231-1240. (impact factor: **1.584**)
24. **Shazia Shafique**, Arshad Javaid and Sobiya Shafique, 2013. Management of Littleseed Canarygrass (*Phalaris minor* Retz.) by Extracts and Dry Leaf Biomass of *Parthenium hysterophorus* L.). *Philippine Agricultural Scientist*. 96(4): 426-431. (impact factor: **0.368**)
25. Zoobia Bashir, **Shazia Shafique**, Aqeel Ahmad, Tehmina Anjum, Sobiya Shafique and Waheed Akram, 2013. Quantification of Cellulose Contents by Transmission Spectra f

Plant Tissues. *Cellulose Chemistry and Technology*, 47 (7-8), 509-513.

(impact factor: **0.833**)

26. Sobiya Shafique, **Shazia Shafique** and Aqeel Ahmad, 2013. Ecofriendly Response of Citrus Peels to *Alternaria* Leaf Spots of Tomato: Exclusive Role of Peel Phenolics. *International Journal of Agriculture and Biology*. 15: 1236–1242. (impact factor: **0.902**)
27. Aqeel Ahmad, **Shazia Shafique** and Sobiya Shafique, 2013. Cytological and Physiological basis for tomato varietal resistance against *Alternaria alternata*. *Journal of the Science of Food and Agriculture*. 93 (5): 2315–2322. (impact factor: **1.879**)
28. Zunaira Zaheer, **Shazia Shafique**, Sobiya Shafique and Tahir Mehmood, 2012. Antifungal potential of *Parthenium hysterophorus* L. plant extracts against *Fusarium solani*. *Scientific Research and Essays*. 7 (22): 2049-2054. (impact factor: **0.445**)
29. Zunaira Zaheer, **Shazia Shafique**, Sobiya Shafique and Tahir Mehmood, 2012. Evaluation of pathogenic potential and genetic characterization of *Fusarium solani* – a cause of fusarium wilt in potato. *African Journal of Microbiology Research*. 6(8): 1762-1765. (impact factor: **0.533**)
30. **Shazia Shafique** and Sobiya Shafique, 2011. Kinetic study of partially purified cellulose enzyme produced by *Trichoderma viride* FCBP-142 and its hyperactive mutants. *Microbiology* 80(3): 356-365. (impact factor: **0.638**)
31. Khalid Mehmood, Hafiz M. Asif, Rukhsana Bajwa, **Shazia Shafique** and Sobiya Shafique, 2011. Phytotoxic potential of bark extracts of *Accacia arabica* and *Syzygium cumini* against *Parthenium hysterophorus*. *Pakistan Journal of Botany* 43(6): 3007-3012. (impact factor: **0.947**)
32. **Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2011. *Tagetes erectus* L. – a potential resolution for management of *Parthenium hysterophorus* L. *Pakistan Journal of Botany* 43(2): 885-894. (impact factor: **0.947**)
33. **Shazia Shafique**, Sobiya Shafique, Rukhsana Bajwa, Nosheen Akhtar and Sana Hanif, 2011. Fungitoxic activity of aqueous and organic solvent extracts of *Tagetes erectus* on phytopathogenic fungus-*Ascochyta rabiei*. *Pakistan Journal of Botany* 43(1): 59-64. (impact factor: **0.947**)
34. Arshad Javaid, **Shazia Shafique** and Sobiya Shafique, 2011. Management of *Parthenium hysterophorus* (Asteraceae) by *Withania somnifera* (Solanaceae). *Natural Product Research* 25(4): 407-416. (impact factor: **0.906**)
35. Arshad Javaid, **Shazia Shafique**, Sobiya Shafique, 2010. Herbicidal activity of *Withania somnifera* against *Phalaris minor*. *Natural Product Research* 24(15): 1457-1468. (impact factor: **0.906**)
36. Arshad Javaid, **Shazia Shafique**, Qudsia Kanwal and Sobiya Shafique, 2010. Herbicidal activity of flavonoids of mango leaves against *Parthenium hysterophorus* L. *Natural Product Research* 24 (19, 20): 1865 – 1875. (impact factor: **0.906**)
37. Arshad Javaid, Sobiya Shafique, Rukhsana Bajwa, **Shazia Shafique**, 2010. Parthenium management through aqueous extracts of *Alstonia scholaris*. *Pakistan Journal of Botany*. 42 (5): 3651-3657. (impact factor: **0.947**)

38. Arshad Javaid, Sobiya Shafique, **Shazia Shafique**, 2010. Seasonal pattern of dormancy in seeds of *Parthenium hysterophorus* L. *Pakistan Journal of Botany*. 42 (1): 497-503.
(impact factor: **0.947**)
39. Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2010. Condition Stabilization for *Aspergillus niger* FCBP-198 and its hyperactive mutants to yield high titres of α -amylase. *Microbiology*, 79 (3): 301-306.
(impact factor: **0.813**)
40. **Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2010. Molecular characterization of UV and chemical induced mutants of *Trichoderma reesei* FCBP-364. *Natural Product Research* 24 (15): 1438-1448.
(impact factor: **0.906**)
41. Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2010. Alpha-amylase Production by toxigenic fungi. *Natural Product Research* 24 (15): 1449-1456.
(impact factor: **0.906**)
42. Arshad Javaid, Sobiya Shafique and **Shazia Shafique**, 2010. Herbicidal effects of extracts and residue incorporation of *Datura metel* against parthenium weed. *Natural Product Research* 24(15): 1426-1437.
(impact factor: **0.906**)
43. Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2010. Mutagenesis and genetic characterization of amylytic *Aspergillus niger*. *Natural Product Research* 24 (12): 1104-1114.
(impact factor: **0.906**)
44. Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2009. Strain improvement and genetic characterization of indigenous *Aspergillus flavus* for amylytic potential. *Natural Product Communications*. 4 (7): 977-980.
(impact factor: **0.745**)
45. Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2009. Mutation of *Alternaria tenuissima* FCBP-252 for hyper-active α -amylase. *Indian Journal of Experimental Biology*, 47: 591-596.
(impact factor: **0.550**)
46. **Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2009. Mutagenesis and Genotypic Characterization of *Aspergillus niger* FCBP-02 for Improvement in Cellulolytic Potential. *Natural Product Communications*. 4 (4): 557-562.
(impact factor: **0.745**)
47. Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2009. Screening of *Aspergillus niger* and *A. flavus* strains for extra cellular alpha-amylase activity. *Pakistan Journal of Botany*, 41 (2): 897-905.
(impact factor: **0.52**)
48. **Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2009. Cellulase biosynthesis by selected *Trichoderma* species. *Pakistan Journal of Botany*, 41 (2): 907-916.
(impact factor: **0.52**)
49. Arshad Javaid, Sobiya Shafique, **Shazia Shafique**, 2009. Comparison of *Trifolium alexandrinum* and *Parthenium hysterophorus* Green Manures in Rice – Wheat Cropping system. *Philippine Agricultural Scientist*. 92 (1): 110-115.
(impact factor: **0.145**)
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48. **Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2007. Strain improvement and detection of genetic variability among *Trichoderma viride* genotypes. In: Third International Conference on “Plant pathology”, November, 19-21, 2007, University of the Punjab, Lahore, Pakistan.
49. Arshad Javaid, Rukhsana Bajwa, Sobiya Shafique and **Shazia Shafique**, 2006. Role of allelopathy in the management of aggressive alien weed *Parthenium hysterophorus*. In: Second International Weed Science Conference, March 20-22, 2006, University of Arid Agriculture Rawalpindi, Pakistan.

- 50. Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2005. Allelopathic effects of *Parthenium hysterophorus* L. on growth of sunflower. In: 1st Khasmir International Science Conference, 20-21 September, 2005, University of Azad Jammu and Kashmir, Muzafarabad.
- 51.** Sobiya Shafique, Rukhsana Bajwa and **Shazia Shafique**, 2005. Antifungal activity of *Parthenium hysterophorus* L. against some pathogenic fungi. In: 1st Khasmir International Science Conference, 20-21 September, 2005, University of Azad Jammu and Kashmir, Muzafarabad.
- 52. Shazia Shafique**, Rukhsana Bajwa and Sobiya Shafique, 2005. Antifungal activity of aqueous extracts of allelopathic grasses against *Fusarium Solani*. In: International Symposium on Biofertilizers and Biocontrol Technology, 25-27 July 2005, MPPL, University of the Punjab, Lahore.
- 53.** Sobiya Shafique, Rukhsana Bajwa, Arshad Javaid and **Shazia Shafique**, 2005. Biological control potential of aqueous extracts of allelopathic trees against *Parthenium*. In: International Symposium on Biofertilizers and Biocontrol Technology, 25-27 July 2005, MPPL, University of the Punjab, Lahore.

Organized:

- 1. 5th International and 10th National conference of Pakistan Phytopathological Society on Crop protection for sustainable agriculture.** 23-25 November, 2015, Institute of Agricultural Sciences, Lahore, Pakistan.
- 2. Third International Conference on “Plant pathology”**, 19-21 November, 2007, Department of Mycology and Plant Pathology, University of the Punjab, Lahore, Pakistan.
- 3. HEC Workshop on Identification and Conservation of Micromycetes**, 20th - 25th August, 2007. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
- 4. International Symposium on Biofertilizers and Biocontrol Technology**, 25th -27th July 2005, Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
- 5. HEC Workshop on Identification and Conservation of Micromycetes**, 23rd - 28th August, 2004. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
- 6. HEC Symposium on Awareness of Parthenium Weed**, 6th -7th August 2004. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.

Attended:

- 1. International webinar on “Agricultural Nanotechnology”- Influencing the Future of Farming Sustainability.** 29 July, 2021. Department of Plant Pathology, Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.
- 2. International webinar on “Mushrooms: as Future Diet”.** 7 July, 2021. 1st Fungal Culture Bank of Pakistan, Department of Plant Pathology, Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.

3. **National webinar on “Demographic and Clinical Aspects of Dengue in Pakistan”.** 6 June, 2021. Department of Entomology, Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.
4. **International Conference on Smart Plantation “An ultimate solution to climate change” 2020.** March 02-04, 2020. Lahore College for Women University, Lahore, Pakistan.
5. **International Conference of Punjab University 2019. Recent Innovations in Molecular Sciences,** November 06-08, 2019. University of the Punjab, Lahore, Pakistan.
6. **1st International and 3rd National Conference on Bioactivity of Phytochemicals - Using Plants to Improve Life,** 26th to 27th November 2019. Institute of Molecular Biology and Biotechnology, The University of Lahore, Lahore.
7. **3rd International conference on Biosciences,** 9-11 May, 2018, Government College University, Lahore, Pakistan.
8. **6th International conference on Education – Science Beyond Classroom,** 15-17 March, 2018, Department of Botany, University of Education, Lahore, Pakistan.
9. **International conference on Microbiology and Molecular genetics,** 7-9 February, 2018, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
10. **1st International conference on Conventional and Modern Approaches in Plant Sciences,** 28-29 November, 2017, Department of Botany, University of the Punjab, Lahore, Pakistan.
11. **6th International Conference of Pakistan Phytopathological Society “Plant health for sustainable agriculture”** 20-22 November, 2017, Department of plant pathology, Bahauddin Zakariya University, Multan.
12. **1st International conference on Emerging Trends in Earth and Environmental Sciences,** 9-10 March, 2017, College of Earth and Environmental Sciences, University of the Punjab, Lahore, Pakistan.
13. **3rd International Conference on Biotechnology Challenges and Opportunities in Pakistan,** 8-9 February, 2017, University of South Asia, Lahore, Pakistan.
14. **1st Workshop on Core Techniques of Biotechnology,** 15th - 19th February 2016. Institute of Molecular Biology and Biotechnology, The University of Lahore, Lahore.
15. **5th International and 10th National conference of Pakistan Phytopathological Society on Crop protection for sustainable agriculture.** 23-25 November, 2015, Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.
16. **Indigenous on-Campus training program for management team.** 15-19 December, 2014, University of the Punjab.
17. **A Second International Conference on Biotechnology for sustainable development.** 26-28 November, 2014, GC University Lahore.
18. **International Conference on Plant Physiology.** 26-28 August, 2014. Discovery Kartika Plaza Hotel, Bali, Indonesia.

19. **International Conference of Stress Biology and Biotechnology Challenges and Management.** 21-23 May, 2014, IAGS, University of the Punjab, Lahore, Pakistan.
20. **One day seminar and walk on World Forest Day.** March, 21, 2014 at Jallo Forest Park, Lahore. Punjab Forest Department, Lahore, Pakistan.
21. **Two Day Workshop on Mixed Methods Research,** February, 19-20, 2014 at University of the Lahore.
22. **International Conference of “The 5th Congress of European Microbiologists”.** 21th - 25th July, 2013, Leipzig, Germany.
23. **One day seminar on World Forest Day.** March, 21, 2013. Punjab Forest Department, Lahore, Pakistan.
24. **“Biophysicochemical basis for Technopreneurship”.** April, 2-3, 2013. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
25. **International Conference on “Crop Management in Changing Climate”.** February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan.
26. **1st International Conference on Global Environmental Changes,** January 15-16, 2013, Government College University, Faisalabad.
27. **National UIP Seminar on Developing Local Food Additives/Preservatives,** November 22, 2012, University of the Punjab, Lahore, Pakistan.
28. **International Conference on Applied Life Sciences,** September, 10-13, 2012, Konya, Turkey.
29. **National Conference on Agriculture and Food Security Issues in Global Environmental Perspectives,** July, 11-13, 2012, The University of Poonch Rawalakot, Azad Jammu and Kashmir.
30. **One Day Seminar on World Environment Day: Forests and Environment together,** June, 5, 2012. University of the Punjab, Lahore Pakistan.
31. **SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology,** June, 5-7, 2012, Islamabad, Pakistan.
32. **International Conference on Natural Products ICNP,** November, 13-16, 2011, Putrajaya, Malaysia.
33. **International Conference on Antimicrobial Research,** November, 3-5, 2010, Valladolid, Spain.
34. **Biovision Alexandria Conference; New life Sciences: Future Prospects,** April 11-15, 2010, Bibliotheca Alexandrina, Alexandria, Egypt.
35. **First International conference of Asian allelopathy society.** December 18-22, 2009. Guangzhou, China.
36. **One day LCCI Bio Tech Fair/Workshop,** 16th July 2008. Lahore Chamber of Commerce and Industry, Lahore, Pakistan.
37. **International conference of plant scientists,** April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan.
38. **One day symposium on Microbial Resistant Paints,** 17th April 2008. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
39. **Fifth Annual National Training course on “Modern Techniques in Biotechnology”,** 28th May – 01 June 2007. National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.

40. **Third International Conference on “Plant Pathology”**, 19-21 November, 2007, Department of Mycology and Plant Pathology, University of the Punjab, Lahore, Pakistan.
41. **HEC Workshop on Identification and Conservation of Micromycetes**, 20th - 25th August, 2007. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
42. **National seminar on Biomanufacture Technology of Enzymes for Detergents and Leather Industries**, 27th – 28th April 2007. Pakistan Council of Scientific and Industrial Research, Lahore.
43. **Second International Weed Science Conference**, March 20-22, 2006, University of Arid Agriculture Rawalpindi, Pakistan.
44. **Training Workshop on Farm Bee Keeping**, 20th - 24th February 2006. Department of Zoology, University of the Punjab, Lahore.
45. **1st Khasmir International Science Conference**, 20-21 September, 2005, University of Azad Jammu and Kashmir, Muzafarabad.
46. **International Symposium on Biofertilizers and Biocontrol Technology**, 25th -27th July 2005, Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
47. **HEC Workshop on Identification and Conservation of Micromycetes**, 23rd - 28th August, 2004. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
48. **HEC Symposium on Awareness of Parthenium Weed**, 6th –7th August 2004. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.