

# **CURRICULUM VITAE**

## **Dr. SOBIYA SHAFIQUE**

Assistant Professor  
HEC Approved Ph.D. Supervisor  
Institute of Agricultural Sciences,  
University of the Punjab, Lahore, Pakistan

Father's Name	Muhammad Shafique
Nationality	Pakistani
Date of Birth	26 <sup>th</sup> August, 1981
Place of Birth	Lahore
N.I.C. No.	35201-1500931-4
Permanent Address	House #: 7, Street #: 106, Madhu Lal Hussain, Baghban Pura Lahore, Pakistan.
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## **ACADEMIC RECORD**

<b>Certificate/ Degree</b>	<b>Subjects</b>	<b>Year</b>	<b>Marks</b>	<b>Division</b>	<b>Institution</b>
<b>Ph. D.</b>	Mycology and Plant Pathology	2009			Punjab University Lahore
<b>M. Sc.</b>	Botany	2002	767	I	Punjab University Lahore
<b>B. Sc.</b>	Botany, Zoology, Chemistry	2000	473	II	Queen Mary College, Lahore
<b>F. Sc.</b>	Bio. Phy. Chem.	1998	718	I	Queen Mary College, Lahore
<b>Matriculation</b>	Phy. Chem. Bio. Maths	1996	729	I	Ala-ud-din Academy Lahore

**Distinction:**

- First position in Ph. D. course work.

**Title of M. Sc. Thesis:**

Growth response of pathogenic fungi to the aqueous extract of *P. hysterothorus*.

**Title of Ph.D. Thesis:**

Genetic modification of selected amylase producing fungi to enhance their amylase production potential.

**Computer Skills:**

Microsoft Word, Microsoft Excel, Microsoft Power Point, Microsoft Publisher. Email and Internet.

**Co-curricular activities:**

Accompanying study tours conducted for B.Sc. (Hons.), M.Sc. (Hons.) and Ph.D. classes to various industries and Northern hilly areas of Pakistan.

**Scholarships and Awards**

- **Research productivity award 2012** (Category F) by Pakistan Council of Science and Technology.
- **Excellent Paper presentation award in International Conference on Applied Life Sciences**, September, 10-13, 2012, Konya, Turkey.
- **TWAS/Biovision grant** to attend Biovision 2010 international conference, Bibliotheca Alexandrina, Alexandria, Egypt. 10-15 April 2010.
- **Incentive award on publications for the year 2009, 2010, 2011, 2012, 2013 and 2014** by University of the Punjab, Pakistan.
- **Best Poster presentation award in Second International Weed Science Conference**. UAAR, Rawalpindi. March 20-22, 2006.

**Teaching Experience:**

- **Assistant Professor (Contract)** in Institute of Plant Pathology, University of the Punjab, from April 2011 – till now.
- Selected as **HEC Approved Ph D Supervisor since August 2010**.
- **Contract Lecturer** in Institute of Mycology and Plant Pathology, University of the Punjab, from September 2008 – March 2011.
- **Part time teacher** for Biostatistics and Experimental Designs in Institute of Mycology and Plant Pathology, University of the Punjab, from March 2008 – July 2008.
- **Part time teacher** for Biostatistics and Experimental Designs in Institute of Mycology and Plant Pathology, University of the Punjab, from March 2007.

- **Part time teacher** for Biostatistics and Basic Computer in Department of Mycology and Plant Pathology, University of the Punjab, from September 2006–February 2007.
- **Part time teacher** for Biostatistics and Experimental Designs 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.

### **M. Sc. (Hons.) Theses Supervision:**

- Tahir Mehmood, 2009. “Biological Control and Genetic Characterization of *Alternaria alternata*”.

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

- Quratulain Asghar, 2016. Identification and management of cabbage leaf spot fungal pathogen. (In progress).
- Sonia Sehar, 2016. “Biological control of leaf spot of brinjal using *Thymus serpyllum*”.
- Ammara Kanwal, 2015. “Management of charcoal rot of mash bean by natural antifungal constituents of *Acacia nilotica* subsp. *indica*.”
- Muhammad Asif, 2012. Defense response of selected Eucalyptus species against *Fusarium oxysporum* – cause of wilt in chili.
- Amna Mukhtar, 2008. “Biocontrol Potential of *Trichoderma* species against *Curvularia lunata*”.

### **B. Sc. (Hons.) Internship Reports Supervision**

- Unaiza Amin, 2013. Physicochemical analysis of soil and water with respect to suitability in agriculture.
- Ruqeyah Abdul Majeed, 2010. *Cymbopogon citrates* as a remedy to control *Alternaria* species – a cause of leaf spot diseases.

### **B. Sc. (Hons.) Internship Reports Co-Supervision**

- Muhammad Tayyab, 2016. Transfer and efficiency of wheat production by zero tillage technology under the umbrella of rehbar project.
- Ambreen Naseer, 2015. Characterization and biological control of leaf spot causing Fungal Pathogens in Red Edge Dracaena and Sow Thistle.
- Muhammad Imran, 2014. Varietal screening against PVY under natural field condition and its detection through DAS-ELISA and one step rapid ELIZA.

### **Research Projects:**

1. “Screening of native PGPR strain capable to biocontrol white rot of *Pisum sativum*”. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2016. (In Progress)

2. "Determination of biochemical interactions in tomato caused by pathogenic and biocontrol infections of microbes". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2015.
3. "Protective potential of *Alstonia scholaris* for the management of charcoal rot of *Vigna unguiculata* L. Walp". Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2014.
4. "Screening of resistant and susceptible varieties of Chilies against Fusarium wilt on the basis of biochemical and molecular analysis" Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2013.
5. "Evaluation of antifungal compounds of citrus peels" Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2012.
6. "*Cymbopogon Citratus* as a remedy to control *Alternaria* species - a cause of leaf spot diseases" Institute of Plant Pathology, University of the Punjab, Lahore, Pakistan, 2011.
7. "Evaluation of pathogenic potential of *Alternaria alternata* strains and their biological control and genetic characterization" 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.

### **Research Publications: 80 (List attached)**

## **LIST OF PUBLICATIONS** **(Impact factor: 38.247)**

## **Papers published in international journals with impact factor:**

1. Zoobia Bashir, **Sobiya Shafique**, Aqeel Ahmed, 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**)
2. 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*. doi.org/10.1094/PDIS-07-15-0832-PDN (impact factor: **3.02**)
3. Naureen Akhter, Ambreen Naseer, **Sobiya Shafique**, Shazia Shafique, and Rahila Hafeez, 2015. First Report of *Alternaria arborescens* Causing Leaf Spot of *Dracaena mariginata* in Pakistan. *Journal of Plant Pathology*. 97 (4): S70. (impact factor: **1.02**)
4. 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**)
5. Aqeel Ahmed, **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**)
6. Aqeel Ahmed, Shazia Shafique and **Sobiya Shafique**, 2014. Intracellular interactions involved in induced systemic resistance in tomato. *Scientia Horticulturae*. 176: 127-133. (impact factor: **1.365**)
7. 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**)
8. 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**)
9. Aqeel Ahmed, **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**)
10. 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**)
11. Zoobia Bashir, Shazia Shafique, Aqeel Ahmad, Tehmina Anjum, **Sobiya Shafique** and Waheed Akram, 2013. Quantification of Cellulose Contents by Transmission Spectra of Plant Tissues. *Cellulose Chemistry and Technology*, 47 (5-6), 509-513. (impact factor: **0.833**)

12. **Sobiya Shafique**, Shazia Shafique and Aqeel Ahmed, 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**)
13. 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: 2315–2322.  
(impact factor: **1.879**)
14. 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**)
15. 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**)
16. Shazia Shafique and **Sobiya Shafique**, 2011. Kinetic study of partially purified cellulase enzyme produced by *Trichoderma viride* FCBP-142 and its hyperactive mutants. *Microbiology* 80(3): 356-365. (impact factor: **0.638**)
17. Khalid Mehmood, Hafiz M. Asif, Rukhsana Bajwa, Shazia Shafique and **Sobiya Shafique**, 2011. Spying the phytotoxic potential of bark extracts of *Accacia nilotica* and *Syzygium cumini* against *Parthenium hysterophorus*. *Pakistan Journal of Botany* 43(6): 3007-3012. (impact factor: **0.947**)
18. 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**)
19. 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**)
20. 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**)
21. 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**)
22. 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**)
23. 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**)

24. 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**)
25. **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2010. Condition Stabilization for *Aspergillus niger* FCBP-198 and its hyperactive mutants to yield high titres of  $\alpha$ -amylase. *Microbiology*, 79 (3): 301-306. (impact factor: **0.813**)
26. 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**)
27. **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**)
28. 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**)
29. **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2010. Mutagenesis and genetic characterization of amylolytic *Aspergillus niger*. *Natural Product Research* 24 (12): 1104-1114. (impact factor: **0.906**)
30. **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2009. Strain improvement and genetic characterization of indigenous *Aspergillus flavus* for amylolytic potential. *Natural Product Communications*. 4 (7): 977-980. (impact factor: **0.745**)
31. **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2009. Mutation of *Alternaria tenuissima* FCBP-252 for hyper-active  $\alpha$ -amylase. *Indian Journal of Experimental Biology*, 47: 591-596. (impact factor: **0.550**)
32. 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**)
33. **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**)
34. 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**)
35. 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**)
36. Rukhsana Bajwa, Arshad Javaid, **Sobiya Shafique**, Amna Javaid, Khajista Jabeen and Shazia Shafique, 2008. Fungistatic activity of aqueous and organic solvent

- extracts of rice varieties on phytopathogenic fungi. *Allelopathy Journal*. 22 (2): 363-370. (impact factor: **0.527**)
37. Arshad Javaid, Shazia Shafique, **Sobiya Shafique** and Tariq Riaz, 2008. Effects of rice extracts and residue incorporation on *Parthenium hysterophorus* management. *Allelopathy Journal*. 22 (2): 353-362. (impact factor: **0.527**)
38. **Sobiya Shafique**, Arshad Javaid, Rukhsana Bajwa and Shazia Shafique, 2007. Effect of aqueous leaf extracts of allelopathic trees on germination and seed-borne mycoflora of wheat. *Pakistan Journal of Botany*, 39 (7): 2619-2624. (impact factor: **0.29**)
39. Shazia Shafique, Rukhsana Bajwa, Arshad Javaid and **Sobiya Shafique**, 2007. Biological control of *achyranthes aspera* and *xanthium strumarium* in Pakistan. *Pakistan Journal of Botany*, 39 (7): 2607-2610. (impact factor: **0.29**)
40. Arshad Javaid, **Sobiya Shafique**, and Shazia Shafique, 2007. Causes of rapid spread of *parthenium hysterophorus* L. in pakistan and possible control measures – a review. *Pakistan Journal of Botany*, 39 (7): 2611-2618. (impact factor: **0.29**)
41. Arshad Javaid, **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2006. Effect of aqueous extracts of allelopathic crops on germination and growth of *Parthenium hysterophorus* L. *South African Journal of Botany*, 72: 609-612. (impact factor: **0.648**)
42. Rukhsana Bajwa, Tehmina Anjum, **Sobiya Shafique** and Shazia Shafique, 2006. Evaluation of antifungal activity of *Cicer arietinum* L. *Pakistan Journal of Botany*, 38 (1): 175-184. (impact factor: **0.106**)

### **Papers published in international journals without impact factor:**

43. **Sobiya Shafique**, Waheed Akram, Tehmina Anjum, Aqeel Ahmad and Shazia Shafique, 2014. Comparative studies on phytochemistry, antibacterial and antifungal properties of *Alstonia scholaris* and *Millettia pinnata*. *Australasian Plant Disease Notes*. 9(1): 1-5.
44. Zoobia Bashir, Aqeel Ahmad, **Sobiya Shafique**, Tehmina Anjum, Shazia Shafique and Waheed Akram, 2013. Hypersensitive response – a biophysical phenomenon of producers. *European Journal of Microbiology and Immunology*, 3 (2): 105–110.
45. Asma Murtaza, Shazia Shafique, Tehmina Anjum and **Sobiya Shafique**, 2012. In vitro control of *Alternaria citri* using antifungal potentials of *Trichoderma* species. *African Journal of Biotechnology*. 11 (42): 9985-9992.
46. **Sobiya Shafique**, Ruqeyah Abdul Majeed and Shazia Shafique, 2012. *Cymbopogon citrates*: A remedy to control selected *Alternaria* species. *Journal of Medicinal Plants Research*, 6 (10): 1879-1885.
47. Shazia Shafique, Rukhsana Bajwa and **Sobiya Shafique**, 2011. Strain improvement in *Trichoderma viride* through mutation for over expression of cellulase and



characterization of mutants using RAPD. *African Journal of Biotechnology*. 10 (84): 19590-19597.

48. **Sobiya Shafique**, Rukhsana Bajwa, Shazia Shafique and Arshad Javaid 2011. Herbicidal effects of aqueous extracts of three *chenopodium* species against *Avena fatua*. *African Journal of Biotechnology*. 10(34): 6492-6496.

### **Papers published in national and HEC recognized journals:**

49. Shazia Shafique, **Sobiya Shafique** and Arooj Yousuf, 2015. Bioefficacy of extract of *Ageratum conyzoides* to control *Drechslera australiensis* and *Drechslera holmii*. *Pakistan Journal of phytopathology* 27 (2): 193-200.
50. Shazia Shafique, **Sobiya Shafique** and Aqeel Ahmad, 2015. Evaluation of the effect of different carrier materials on viability and resistance induction potential of *Penicillium oxalicum*. *Pakistan Journal of phytopathology* 27 (2): 207-215.
51. Shazia Shafique and **Sobiya Shafique**, 2014. Optimization of growth conditions for enhanced cellulase enzyme activity from the wild and improved mutants of *T. viride*. *International Journal of Biology and Biotechnology*. 11 (4): 537-545.
52. **Sobiya Shafique**, Tehmina Anjum, Shazia Shafique, Aqeel Ahmad, Waheed Akram and Zoobia Bashir, 2011. Induction of systemic defenses in plants under the activity of dynamic inducers. *Mycopath*. 9: 95-104.
53. Shazia Shafique, **Sobiya Shafique** and Rukhsana Bajwa, 2009. Cellulolytic potential of *Penicillium citrinum* FCBP -181 using different carbon sources. *Pakistan Journal of Phytopathology*. 21 (2): 135-138.
54. Arshad Javaid, **Sobiya Shafique** and Shazia Shafique 2009. Invasion of noxious alien weed *Parthenium hyterophorus* L. in grazing lands of Lahore, Pakistan. *The Journal of Animal and Plant Sciences*. 19 (3): 159-153.
55. Arshad Javaid, Shazia Shafique and **Sobiya Shafique** 2009. Herbicidal activity of *Withania somnifera* and *Datura alba* against *Rumex dentatus*. *Journal of Agricultural Research*. 47 (1): 37-45.
56. Shazia Shafique and **Sobiya Shafique**. 2008. Antifungal activity of n-hexane extracts of *Datura metel* against *Ascochyta rabiei*. *Mycopath*. 6 (1 & 2): 31-35.
57. Rukhsana Bajwa, **Sobiya Shafique** and Shazia Shafique 2008. Fungitoxicity of aqueous and organic solvent extracts of *Datura metel* against *Ascochyta rabiei*. *Mycopath*. 6 (1 & 2): 17-22.
58. Arshad Javaid, **Sobiya Shafique** and Shazia Shafique 2008. Herbicidal activity of *Datura metel* against *Phalaris minor*. *Pakistan Journal of Weed Science Research*, 14 (3-4): 209-220.
59. Shazia Shafique, Rukhsana Bajwa and **Sobiya Shafique**, 2007. Cellulase production potential of selected strains of *Aspergilli*. *Pakistan Journal of Phytopathology*. 19 (2): 196-205.

60. **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2007. Amylolytic potential of two indigenous *Fusarium species* to Pakistan. *Pakistan Journal of Phytopathology*, 19 (2): 159-167.
61. Rukhsana Bajwa, **Sobiya Shafique** and Shazia Shafique. 2007. Evaluation of antifungal activity of aqueous extracts of two Asteraceous plants species. *Mycopath*, 5 (1): 29-33.
62. Rukhsana Bajwa, **Sobiya Shafique** and Shazia Shafique. 2007. Appraisal of antifungal activity of *Aloe vera*. *Mycopath*, 5 (1): 5-9.
63. Arshad Javaid, **Sobiya Shafique** and Shazia Shafique, 2006. Herbicidal potential of aqueous leaf extract of allelopathic trees against *Phalaris minor*. *Pakistan Journal of Weed Science Research*, 12 (4): 339-346.
64. Asad Shabir, Rukhsana Bajwa, Shazia Shafique and **Sobiya Shafique**, 2006. Fungal flora associated with seeds of some common weeds and their impact on seed germination. *Mycopath*, 4 (1): 55-56.
65. Rukhsana Bajwa, **Sobiya Shafique** and Shazia Shafique, 2006. Effect of leaf rust infection on mycorrhizal colonization of weeds. *Mycopath*, 4 (1): 1-4.
66. Arshad Javaid, **Sobiya Shafique**, Rukhsana Bajwa, Shazia Shafique 2006. Biological control of noxious alien weed *Parthenium hysterophorus* L. in Pakistan. *International Journal of Biology and Biotechnology* 3 (4): 721-724.
67. Arshad Javaid, Shazia Shafique and **Sobiya Shafique**, 2006. Fungi associated with stored seeds of *Parthenium hysterophorus* collected from Lahore. *International Journal of Biology and Biotechnology*, 3 (3): 551-553.
68. Arshad Javaid, **Sobiya Shafique** and Shazia Shafique, 2006. Parthenium weed – an emerging threat to plant biodiversity in Pakistan. *International Journal of Biology and Biotechnology*, 3(3): 619-622.
69. Shazia Shafique, Rukhsana Bajwa, Arshad Javaid and **Sobiya Shafique**, 2006. Antifungal activity of aqueous extracts of weeds against pathogen of black pointed disease of wheat seeds. *Pakistan Journal of Phytopathology*, 18 (2): 77-80.
70. Arshad Javaid, Rukhsana Bajwa, **Sobiya Shafique**, and Shazia Shafique, 2006. Tree dieback incidence in Nathiagali and surrounding hills. *International Journal of Biology and Biotechnology*, 3 (1): 73-76.
71. **Sobiya Shafique**, Shazia Shafique and Arshad Javaid, 2005. Fungitoxicity of aqueous extracts of allelopathic plants against seed-borne mycoflora of maize. *Mycopath*, 3(1-2): 23-26.
72. **Sobiya Shafique**, Rukhsana Bajwa, Arshad Javaid & Shazia Shafique, 2005. Biological control of *Parthenium* IV: Suppressive ability of aqueous leaf extracts of some allelopathic trees against germination and early seedling growth of *parthenium hysterophorus* L. *Pakistan Journal of Weed Science Research*, 11(1-2): 75-79.
73. Shazia Shafique, **Sobiya Shafique** and Rukhsana Bajwa, 2004. Antifungal activity of allelopathic plant extracts. V: Inhibition in biomass production of *Fusarium solani* by aqueous extracts of allelopathic grasses. *Mycopath*, 2(2): 83-86.

74. Rukhsana Bajwa, **Sobiya Shafique**, Tehmina Anjum and Shazia Shafique, 2004. Antifungal Activity of Allelopathic Plant Extracts IV: Growth Response of *Drechslera hawaiiensis*, *Alternaria alternata* and *Fusarium monilifrome* to Aqueous Extract of *Parthenium hysterophorus*. *International Journal of Agriculture & Biology*, 6(3): 511-516.
75. Rukhsana Bajwa, Shazia Shafique, **Sobiya Shafique** and Arshad Javaid, 2004. Effect of foliar spray of aqueous extract of *Parthenium hysterophorus* on growth of sunflower. *International Journal of Agriculture & Biology*, 6(3): 474-478.

### **Papers published in proceedings:**

76. Shazia Shafique and **Sobiya Shafique**, 2012. Biological control potential of *Parthenium hysterophorus* against *Fusarium solani* – Acause of fusarium wilt in potato. In proceeding of International Conference on Applied Life Sciences, 10-13, September, 2012, Konya, Turkey. Pp. 315-320.
77. **Sobiya Shafique** and Shazia Shafique, 2012. *Tagetes erectus* – A tool for the management of *Alternaria alternata* strains of tomato. In proceeding of International Conference on Applied Life Sciences, 10-13, September, 2012, Konya, Turkey. Pp. 309-314.
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### **Editor/Reviewer**

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

### **Membership of Societies**

1. Life time membership of International society of Applied Life Sciences, Turkey.
2. Life member, Pakistan Phytopathological Society.

3. Member, Myco-Phytopathological Society of Pakistan.
4. Member, Weed Science Society of Pakistan.

### Areas of Research

- Mycology
- Plant pathology
- Fungal Biotechnology
- Allelopathy
- Weed Management (especially *Parthenium hysterophorus*)
- Biochemical and molecular studies

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3. **Sobiya Shafique**, Shazia Shafique and Aqeel Ahmed, 2015. Determination of molecular and biochemical changes in cotton plants mediated by mealybug. In 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. p 194.
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5. Shazia Shafique, **Sobiya Shafique** and Aqeel Ahmed, 2014. Molecular basis of antifungal resistance in tomato varieties. In Second International Conference on Biotechnology for sustainable development, 26-28 November, 2014, GC University Lahore. p 144.
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  11. Muhammad Asif, Shazia Shafique and **Sobiya Shafique**, 2013. Biocontrol potential of *Eucalyptus citriodora* against Fusarium wilt of chilli. In: International Conference of "DAAD-HEC International Summer School, Food security in Times of Climate Change" 2 – 5 Nov, 2013. Department of Biosciences, COMSATS Institute of Information Technology(CIIT), Islamabad, Pakistan. p 59.
  12. **Sobiya Shafique** and Shazia Shafique, 2013. Strain improvement and genetic characterization of *Alternaria tenuissima* FCBP-252 for hyper-active  $\alpha$ -amylase. In: "The 5<sup>th</sup> Congress of European Microbiologists". 21<sup>th</sup> -25<sup>th</sup> July, 2013, Leipzig, Germany. p 280.
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- seminar on medicinal plants, May, 21-23, 2008. Lahore college for women University, Lahore, Pakistan. P 15.
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  54. Shazia Shafique, Rukhsana Bajwa, **Sobiya Shafique**, 2008. Cellulase biosynthesis by selected *Trichoderma* species. In: Abstracts, International conference of plant scientists, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan. P 94.
  55. Arshad Javaid, **Sobiya Shafique**, Shazia Shafique, 2008. Invasion of noxious alien weed *Parthenium hysterophorus* L. in grazing lands of Lahore, Pakistan. In: Abstracts, International conference of plant scientists, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan. P 90.
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  61. Rukhsana Bajwa, Arshad Javaid, Shazia Shafique, **Sobiya Shafique**, 2007. Management of *Parthenium* weed by using allelopathic potential of crops. In: Abstracts, International Conference on "Role of Allelopathy in Sustainable Agriculture", March, 22-24, 2007, University of Arid Agriculture, Rawalpindi, Pakistan. P 04.
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65. Shazia Shafique, Rukhsana Bajwa, **Sobiya Shafique**, 2006. Antifungal activity of aqueous extracts of allelopathic grasses against *Fusarium solani*. In: Abstracts, 2<sup>nd</sup> International Weed Science Conference, March 20-22, 2006, University of Arid Agriculture Rawalpindi, Pakistan. P.57.
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## Seminars/Workshops/Conferences

### Oral Presentations:

1. **Sobiya Shafique**, 2014. Exclusive potential of *Tagetes erectus* for the management of *Alternaria* diseases of tomato. In: International Conference on Plant Physiology. 26-28 August, 2014. Discovery Kartika Plaza Hotel, Bali, Indonesia.
2. **Sobiya Shafique**, 2012. *Tagetes erectus* – A tool for the management of *Alternaria alternata* strains of tomato. In International Conference on Applied Life Sciences, 10-13, September, 2012, Konya, Turkey.

### Poster Presentations:

1. Shazia Shafique, **Sobiya Shafique** and Aqeel Ahmed, 2015. *Penicillium oxalicum* directed systemic resistance in tomato against *Alternaria alternata*. In 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. **Sobiya Shafique**, Shazia Shafique and Aqeel Ahmed, 2015. Determination of molecular and biochemical changes in cotton plants mediated by mealybug. In 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.
3. **Sobiya Shafique**, Shazia Shafique and Aqeel Ahmed, 2014. *Penicillium oxalicum* directed systemic resistance in tomatoes against *Alternaria alternata*. In Second International Conference on Biotechnology for sustainable development, 26-28 November, 2014, GC University Lahore.
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5. **Sobiya Shafique**, Shazia Shafique and Aqeel Ahmad, 2014. Ecofriendly response if citrus peels to Alteria tomato leaf spot. In: International Conference on Stress Biology and Biotechnology Challenges and Management. 21-23 May, 2014, IAGS, University of the Punjab, Lahore, Pakistan.
6. Shazia Shafique, **Sobiya Shafique** and Aqeel Ahmad, 2014. Molecular basis of antifungal resistance in tomato varieties. In: International Conference on Stress Biology and Biotechnology Challenges and Management. 21-23 May, 2014, IAGS, University of the Punjab, Lahore, Pakistan.

7. Aqeel Ahmad, Shazia Shafique, Megan M. Dewdney and **Sobiya Shafique**, 2014. Induction of systemic resistance in tomato against *Alternaria alternata* using *Penicillium oxalicum*. In symposium on Posters and Pastries Research Gallery of Citrus Research and Education Center. 28 March, 2014, Ben Hill Griffin Jr. Citrus Hall, Florida, USA.
8. **Sobiya Shafique** and Shazia Shafique, 2013. Strain improvement and genetic characterization of *Alternaria tenuissima* FCBP-252 for hyper-active  $\alpha$ -amylase. In: International Conference of “The 5<sup>th</sup> Congress of European Microbiologists”. 21<sup>th</sup> - 25<sup>th</sup> July, 2013, Leipzig, Germany.
9. Shazia Shafique and **Sobiya Shafique**, 2013. Kinetics of Partially Purified Cellulases Extracted from *Trichoderma viride* FCBP-142 and its Hyperactive Mutants. In: International Conference of “The 5<sup>th</sup> Congress of European Microbiologists”. 21<sup>th</sup> - 25<sup>th</sup> July, 2013, Leipzig, Germany.
10. Muhammad Asif, Shazia Shafique and **Sobiya Shafique**, 2013. Screening of Resistant and Susceptible Varieties of *Capsicum annuum* L. against *Fusarium oxysporum*. In: “1<sup>st</sup> National Conference on prospects and opportunities for Agricultural Development in Pakistan”. 25<sup>th</sup> -27<sup>th</sup> June, 2013. Department of Agriculture, University of Huripur, at Khanspur, Ayubia.
11. **Sobiya Shafique**, Shazia Shafique and Aqeel Ahmad, 2013. Ecofriendly response of citrus peels to *Alternaria* leaf spot of tomatoes. In: “Biophysicochemical basis for Technopreneurship”. April, 2-3, 2013. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
12. Shazia Shafique, Aqeel Ahmad and **Sobiya Shafique**, 2013. Molecular basis of antifungal resistance in tomato varieties. In: “Biophysicochemical basis for Technopreneurship”. April, 2-3, 2013. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
13. Aqeel Ahmad, Shazia Shafique and **Sobiya Shafique**, 2013. Molecular evidences for resistance induction efficacy of *Penicillium oxalicum* against *Alternaria* leaf spot of tomato. In: International Conference on “Crop Management in Changing Climate”. February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan.
14. Aqeel Ahmad, **Sobiya Shafique** and Shazia Shafique, 2013. Cytological and Physiological basis for tomato varietal resistance against *Alternaria alternata*. In: International Conference on “Crop Management in Changing Climate”. February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan.
15. Aqeel Ahmad, Shazia Shafique and **Sobiya Shafique**, 2013. *Penicillium oxalicum* directed systemic resistance in tomatoes against *Alternaria alternata*. In: International Conference on “Crop Management in Changing Climate”. February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan.
16. **Sobiya Shafique**, Tahir Mehmood, Shazia Shafique and Zunera Zaheer, 2013. *Tagetes erectus* – a tool for the management of *Alternaria alternata* strains of tomato. In: 1<sup>st</sup> International Conference on Global Environmental Changes, January 15-16, 2013, Government College University, Faisalabad.
17. Shazia Shafique, Zunera Zaheer, **Sobiya Shafique** and Tahir Mehmood, 2013. Biological control potential of *Parthenium hysterophorus* against *Fusarium solani* – a cause of Fusarium wilt in potato. In: 1<sup>st</sup> International Conference on Global

Environmental Changes, January 15-16, 2013, Government College University, Faisalabad.

18. Shazia Shafique, **Sobiya Shafique** and Aqeel Ahmad, 2012. Eco-friendly Control of *Alternaria* Tomato Leaf Spot by Citrus Peel. In: National Conference on Agriculture and Food Security Issues in Global Environmental Perspectives, July, 11-13, 2012, Faculty of Agriculture, The University of Poonch Rawalakot, Azad Jammu and Kashmir.
19. **Sobiya Shafique**, Shazia Shafique, Aqeel Ahmad, Waheed Akram and Zoobia Bashir, 2012. Induced physiological defences by cotton Mealybug. In: National Conference on Agriculture and Food Security Issues in Global Environmental Perspectives, July, 11-13, 2012, Faculty of Agriculture, The University of Poonch Rawalakot, Azad Jammu and Kashmir.
20. Aqeel Ahmad, **Sobiya Shafique**, Shazia Shafique and Zoobia Bashir, 2012. Resistance induction and disease control in plants. In: National Conference on Agriculture and Food Security Issues in Global Environmental Perspectives, July, 11-13, 2012, Faculty of Agriculture, The University of Poonch Rawalakot, Azad Jammu and Kashmir.
21. Shazia Shafique, **Sobiya Shafique**, Aqeel Ahmed, Waheed Akram and Zoobia Bashir, 2012. Cytological and physiological defenses directed by Cotton mealybug, In: SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology, June, 5-7, 2012, Islamabad, Pakistan.
22. **Sobiya Shafique**, Shazia Shafique, Aqeel Ahmed, Waheed Akram and Zoobia Bashir, 2012. Comparative Studies on Phytochemistry, Antibacterial and Antimycotic Properties of Leaves of *Alstonia scholaris* and *Milletia pinnata*. In: SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology, June, 5-7, 2012, Islamabad, Pakistan.
23. **Sobiya Shafique** and Shazia Shafique, 2011. Management of *Parthenium hysterophorus* L. by a natural herbicide- *Tagetes erectus*. In: International Conference on Natural Products ICNP, November, 13-16, 2011, Putrajaya, Malaysia.
24. Shazia Shafique, **Sobiya Shafique** and Arshad Javaid, 2011. Use of solanaceous plants extracts as alternate herbicides for the management of *Parthenium*. In: International Conference on Natural Products ICNP, November, 13-16, 2011, Putrajaya, Malaysia.
25. **Sobiya Shafique**, Shazia Shafique and Arshad Javaid, 2010. Evaluation of fungistatic activity of rice varieties against phytopathogenic fungi. In: International Conference on Antimicrobial Research, November, 3-5, 2010, Valladolid, Spain.
26. Shazia Shafique and **Sobiya Shafique**, 2010. Fungitoxic activity of aqueous and organic solvent extracts of *Tagetes erectus* on phytopathogenic fungus – *Ascochyta rabiei*. In: International Conference on Antimicrobial Research, November, 3-5, 2010, Valladolid, Spain.
27. **Sobiya Shafique**, Rukhsana Bajwa and Shazia Shafique, 2010. Genetic modification of *Alternaria alternata* FCBP-252 for hyper-active  $\alpha$ -amylase. In: Biovision Alexandria Conference; New life Sciences: Future Prospects, April 11-15, 2010, Bibliotheca Alexandrina, Alexandria, Egypt.
28. Shazia Shafique, Rukhsana Bajwa and **Sobiya Shafique**, 2010. Characterization of partially purified cellulases produced by *Trichoderma viride* FCBP-142 and its

- mutants. In: Biovision Alexandria Conference; New life Sciences: Future Prospects, April 11-15, 2010, Bibliotheca Alexandrina, Alexandria, Egypt.
29. Arshad Javaid, Shazia Shafique, **Sobiya Shafique**, Tariq Riaz (2009). Management of *Parthenium hysterophorus* by extracts and residues of rice. In: Proceedings of the First International Conference of Asian Allelopathy Society, December 18-22, 2009, Guangzhou, China.
  30. **Sobiya Shafique**, Rukhsana Bajwa, Shazia Shafique, 2008. Alpha-amylase production by toxigenic fungi. In: Abstracts, International conference of plant scientists, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan.
  31. Shazia Shafique, Rukhsana Bajwa, **Sobiya Shafique**, 2008. Cellulase biosynthesis by selected *Trichoderma* species. In: Abstracts, International conference of plant scientists, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan.
  32. Arshad Javaid, **Sobiya Shafique**, Shazia Shafique, 2008. Invasion of noxious alien weed *Parthenium hysterophorus* L. in grazing lands of Lahore, Pakistan. In: Abstracts, International conference of plant scientists, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan.
  33. Arshad Javaid, **Sobiya Shafique**, Rukhsana Bajwa, Shazia Shafique, 2008. Parthenium management through aqueous extracts of *Alstonia scholaris*. In: Abstracts, International conference of plant scientists, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan.
  34. **Shafique S**, Bajwa R, Shafique S, 2007. Mutagenesis and genetic characterization of amyolytic *Aspergillus niger*. In: Abstracts, Third International Conference on "Plant pathology", November, 19-21, 2007, University of the Punjab, Lahore, Pakistan.
  35. Shafique S, Bajwa R, **Shafique S**, 2007. Strain improvement and detection of genetic variability among *Trichoderma viride* genotypes. In: Abstracts, Third International Conference on "Plant pathology", November, 19-21, 2007, University of the Punjab, Lahore, Pakistan.
  36. Javaid A, Bajwa R, **Shafique S**, Shafique S, 2006. Role of allelopathy in the management of aggressive alien weed *Parthenium hysterophorus*. Second International Weed Science Conference, March 20-22, 2006, University of Arid Agriculture Rawalpindi, Pakistan.
  37. Shafique S, Bajwa R, **Shafique S**, 2005. Allelopathic effects of *Parthenium hysterophorus* L. on growth of sunflower. 1<sup>st</sup> Khasmir International Science Conference, 20-21 September, 2005, University of Azad Jammu and Kashmir, Muzafarabad.
  38. **Shafique S**, Bajwa R, Shafique S, 2005. Antifungal activity of *Parthenium hysterophorus* L. against some pathogenic fungi. 1<sup>st</sup> Khasmir International Science Conference, 20-21 September, 2005, University of Azad Jammu and Kashmir, Muzafarabad.
  39. Shafique S, Bajwa R., **Shafique S**, 2005. Antifungal activity of aqueous extracts of allelopathic grasses against *Fusarium Solani*. International Symposium on Biofertilizers and Biocontrol Technology, 25-27 July 2005, MPPL, Punjab University Lahore.
  40. **Shafique S**, Bajwa R., Javaid A., Shafique S, 2005. Biological control potential of aqueous extracts of allelopathic trees against *Parthenium*. International Symposium

on Biofertilizers and Biocontrol Technology, 25-27 July 2005, MPPL, Punjab University 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,** 20<sup>th</sup> - 25<sup>th</sup> August, 2007. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
4. **International Symposium on Biofertilizers and Biocontrol Technology,** 25<sup>th</sup> -27<sup>th</sup> July 2005, Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
5. **HEC Workshop on Identification and Conservation of Micromycetes,** 23<sup>rd</sup> - 28<sup>th</sup> August, 2004. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.
6. **HEC Symposium on Awareness of Parthenium Weed,** 6<sup>th</sup> -7<sup>th</sup> August 2004. Department of Mycology and Plant Pathology, University of the Punjab Lahore, Pakistan.

### **Attended:**

1. **1<sup>st</sup> Workshop on Core Techniques of Biotechnology,** 15<sup>th</sup> - 19<sup>th</sup> February 2016. Institute of Molecular Biology and Biotechnology, The University of Lahore, Lahore.
2. **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.
3. **Second International Conference on Biotechnology for sustainable development.** 26-28 November, 2014, GC University Lahore.
4. **International Conference on Plant Physiology.** 26-28 August, 2014. Discovery Kartika Plaza Hotel, Bali, Indonesia.
5. **International Conference of Stress Biology and Biotechnology Challenges and Management.** 21-23 May, 2014, IAGS, University of the Punjab, Lahore, Pakistan.
6. **One day seminar and walk on World Forest Day.** March, 21, 2014 at Jallo Forest Park, Lahore. Punjab Forest Department, Lahore, Pakistan.
7. **Two Day Workshop on Mixed Methods Research,** February, 19-20, 2014 at University of the Lahore.

8. **International Conference of “The 5<sup>th</sup> Congress of European Microbiologists”**. 21<sup>th</sup> -25<sup>th</sup> July, 2013, Leipzig, Germany.
9. **One day seminar on World Forest Day**. March, 21, 2013. Punjab Forest Department, Lahore, Pakistan.
10. **“Biophysicochemical basis for Technopreneurship”**. April, 2-3, 2013. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
11. **International Conference on “Crop Management in Changing Climate”**. February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan.
12. **1<sup>st</sup> International Conference on Global Environmental Changes**, January 15-16, 2013, Government College University, Faisalabad.
13. **National UIP Seminar on Developing Local Food Additives/Preservatives**, November 22, 2012, University of the Punjab, Lahore, Pakistan.
14. **International Conference on Applied Life Sciences**, September, 10-13, 2012, Konya, Turkey.
15. **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.
16. **One Day Seminar on World Environment Day: Forests and Environment together**, June, 5, 2012. University of the Punjab, Lahore Pakistan.
17. **SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology**, June, 5-7, 2012, Islamabad, Pakistan.
18. **International Conference on Natural Products ICNP**, November, 13-16, 2011, Putrajaya, Malaysia.
19. **International Conference on Antimicrobial Research**, November, 3-5, 2010, Valladolid, Spain.
20. **Biovision Alexandria Conference; New life Sciences: Future Prospects**, April 11-15, 2010, Bibliotheca Alexandrina, Alexandria, Egypt.
21. **First International conference of Asian allelopathy society**. December 18-22, 2009. Guangzhou, China.
22. **One day LCCI Bio Tech Fair/Workshop**, 16<sup>th</sup> July 2008. Lahore Chamber of Commerce and Industry, Lahore, Pakistan.
23. **International conference of plant scientists**, April, 21-24, 2008. University of Agriculture, Faisalabad, Pakistan.
24. **One day symposium on Microbial Resistant Paints**, 17<sup>th</sup> April 2008. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
25. **National seminar on Biomanufacture Technology of Enzymes for Detergents and Leather Industries**, 27<sup>th</sup> – 28<sup>th</sup> April 2007. Pakistan Council of Scientific and Industrial Research, Lahore.



- 26. Second International Weed Science Conference**, March 20-22, 2006, University of Arid Agriculture Rawalpindi, Pakistan.
- 27. Training Workshop on Farm Bee Keeping**, 20<sup>th</sup> - 24<sup>th</sup> February 2006. Department of Zoology, University of the Punjab, Lahore.
- 28. 1<sup>st</sup> Khasmir International Science Conference**, 20-21 September, 2005, University of Azad Jammu and Kashmir, Muzafarabad.