

**Dr. Naureen Akhtar**  
*Assistant Professor*  
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### **Scholarships/ awards**

1. Selected as outstanding Early Career Scientist to present paper at the New York Academy of Sciences (NYAS), New York, USA.
2. Ph.D Overseas scholarship awarded by Higher Education Commission of Pakistan under Faculty Development Programme, Punjab University
3. Scottish Overseas Research Scholar Award (SORSA)
4. The Charles Wallace Pakistan Trust Award
5. British Federation of Women Graduates (BfWG) Grant
6. The Leche Trust UK Grant

### **Post-doc Experience**

1. Worked from June 2017-July 2017 as Visiting Scientist at Dept of Biochemistry and Molecular Biology, Monash University, Melbourne, **Australia**
2. Worked from Feb 2012-August 2012 as post-doc researcher at Biomedical Sciences, School of Biology, University of St Andrews, Scotland, **UK**.

**PhD** (School of Biology, University of St Andrews, Scotland UK)

*Title of PhD thesis:* Nitrate transport and assimilation in *Aspergillus nidulans*

### **Job experiences**

- i. **Assistant Professor**, Institute of Agricultural Sciences, University of the Punjab Lahore Pakistan from 31<sup>st</sup> August 2012-to-date
  - Teaching major courses of Agriculture (Plant Pathology and Disease Management) to the undergraduate and postgraduate students.
  - Supervising the research of PhD, MSc (Hons) and BSc (Hons) students in the field of Agriculture.
  - Working as an active team member of First Fungal Culture Bank of Pakistan (FCBP), a mega research project of Institute of Agricultural Sciences. Isolated around 1000 saprophytic and plant pathogenic fungi and deposited to the FCBP
  - Giving training to academic staff, scientists and research students to obtain hands-on training in culturing and identification of crop disease causing fungal pathogens
  - Collaborating the research with national and international institutes on new or novel natural and synthetic pesticides that could be used for crop protection
- ii. **Teaching Assistant / Demonstrator (Lab)**, Undergraduate Classes, University of St Andrews Scotland UK from November 2008 to August 2012.
  - Assisting Senior University teachers in conducting course practicals to undergraduate students

- Marking essays
- iii. **Lecturer**, Institute of Mycology and Plant Pathology University of the Punjab Lahore Pakistan from 10.06.2008 to 08.11.2008.
  - Teaching major components of Microbiology, Plant disease identification and management courses to both undergraduate and postgraduate students.
  - Conducting academic field trips of students to diseased crop fields Isolation, identification and preservation of fungi that causes plant diseases in First Fungal Culture Bank of Pakistan (FCBP) at Institute of Agricultural Sciences
  - Supervising the research of BSc (Hons) students in the field of crop disease management.
  - Training researchers in processing of diseased plant parts and identification of causal organism
- iv. **Research Associate**, FCBP, Institute of Mycology and Plant Pathology University of the Punjab Lahore from 02.06.2003 to 09.06.2008.
  - Isolation, purification and characterization of fungi from different environments (for example air, soil) and diseased plant parts
  - Recording the data of fungal strains and maintaining the conservatory of First Fungal Culture Bank of Pakistan
  - Providing the pure cultures of fungi for teaching and research purpose to different institutes throughout the Pakistan.
  - Publishing Newsletter and Research Bulletin of First Fungal Culture Bank of Pakistan
  - Training of students and researchers in the field of microbiology and plant pathology and accompanying them to field trips to study crop diseases.
- i. **Lecturer** in Biology, Govt. I. D. Janjua College for Women Lalamusa (Gujrat) from 07.09.2002 to 01.06.2003

#### **Memberships of Scientific Societies**

- i. British Society of General Microbiology (SGM), 02 Feb, 2016
- ii. American Society for Microbiology (ASM) 01 Oct, 2015
- iii. Phytopathological Society of Pakistan (PPS), ) 01 Jan, 2004
- iv. Myco-phytopathological Society of Pakistan (MYCOPS), 01 Jan, 2006
- v. Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES), 27 March 2015

## **Workshops / seminars/ conferences**

### **A. Organized**

- i. **Member**, Organizing committee of International Conference on Significance of Potash use in Pakistani Agriculture, November 24 –25, 2016 held at Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.
- ii. **Member**, Organizing committee of 5<sup>th</sup> International and 10<sup>th</sup> National Conference of Pakistan Phytopathological Society; Crop protection for Sustainable Agriculture, 23-25 November, 2015 held at Institute of Agricultural Sciences, University of the Punjab Lahore, Pakistan.
- iii. **Member**, Organizing committee Comparative Genomics one-day International Conference, 18th August 2009, Bute Building, University of St Andrews Scotland UK.
- iv. **Member**, organizing committee of 3rd International Conference and 7th biennial meeting of Phytopathological Society of Pakistan. 17-19 November, 2007. Department of Mycology and Plant Pathology University of the Punjab, Lahore.
- v. **Secretary** organization Committee of Workshop on “Identification and conservation of Micromycetes” Aug 20-25, 2007. Dept. of Mycology and Plant Pathology University of Punjab, Lahore.
- vi. **Member**, Organizing committee of two days HEC seminar on “Let's Fight the Menace, Awareness of Parthenium Weed”, 6-7 August 2004, Department of Mycology and Plant Pathology, University of the Punjab, Lahore.
- vii. **Secretary** organization Committee Workshop on “Identification and conservation of Micromycetes” August 23-28, 2004, Dept. of Mycology and Plant Pathology University of Punjab, Lahore.

### **B. Participated**

- i. Australian Synchrotron New user Symposium, July 11, 2018 at Australian Synchrotron's National Centre for Synchrotron Science (NCSS), Melbourne, Australia.
- ii. International Workshop on “Microarray for Gene Expression” held on February 14-17, 2017 at CEMB, University of the Punjab, Lahore, Pakistan.
- iii. Workshop on “An Introduction to Next Generation Sequencing Platform & Its Application In Agricultural Sciences” April 14, 2015 at Institute of Agricultural Sciences (IAGS) University of the Punjab Lahore Pakistan.
- iv. Indigenous On-campus Training of Faculty Members, December 22-26, 2014. Institute of Administrative Sciences, University of the Punjab, Lahore.
- v. Faculty Professional Training, June 19-20, 2013. Institute of Agricultural Sciences, University of the Punjab Lahore Pakistan.
- vi. GRADskills Research Futures, May 29, 2009. University of St Andrews Scotland UK.
- vii. Postgraduate training workshop in Communication Skills June 29-July 03, 2009. University of St Andrews Scotland UK.
- viii. Identification, Maintenance & Preservation of Microorganisms May 10-12, 2004. Quaid-e-Azam University, Islamabad, Pakistan.

## C. Presentation

1. Biological control of seed borne *Aspergilli* by chloroform extracts of common herbs. Australian Society for Microbiology Annual Scientific Meeting, 2-5 July 2017, Hobart, **Australia**.
2. Soil fungal diversity as indicator of fungicide soil pollution. 1st International Conference on Emerging Trends in Earth and Environmental Sciences, College of Earth and Earth and Environmental Sciences, February 15-16, 2017 organized by University of the Punjab, Lahore, **Pakistan**.
3. Correlation of organic matter and NPK with fungal community composition of tomato tunnel soils of Punjab. International Conference on Significance of Potash use in Pakistani Agriculture, November 24 –25, 2016 held at Institute of Agricultural Sciences, University of the Punjab, Lahore, **Pakistan**.
4. Isolation and identification of aflatoxin producing and non-producing strains of *Aspergillus*. Annual Conference of Microbiology Society held on 21-24 March 2016 at ACC, Liverpool, **UK**.
5. Solving the problem in differentiation of aflatoxin producing and non-producing strains of *Aspergillus*. Journey Through Science day presented by New York Academy of Sciences and Pepsico on December 14, 2015 at New York Academy of Sciences (NYAS), World Trade Centre New York, **USA**.
6. Taxonomic studies on necrotic leaf spot causing fungal pathogens. 5<sup>th</sup> International and 10<sup>th</sup> National Conference of Pakistan Phytopathological Society; Crop protection for Sustainable Agriculture, 23-25 November, 2015 held at Institute of Agricultural Sciences, University of the Punjab Lahore, **Pakistan**.
7. Green florescent protein as an indicator to monitor membrane protein overexpression in bacteria. 5th International Conference on Life Science and Technology (ICLST), April 24-25, 2015, Istanbul, **Turkey**.
8. Characterisation of newly discovered genes associated with nitrate metabolism. 10th Biennial International Conference of Pakistan Society for Microbiology (PSM10), March 25-28, 2015. Department of Microbiology and Molecular Genetics, Quaid-e-Azam Campus, University of the Punjab, Lahore, **Pakistan**.
9. Relative proximity and helices orientation of the NrtA nitrate transporter. International conference on plant sciences, 22-24 September, 2014, GC University, Lahore, **Pakistan**.
10. Inhibition of *Aspergillus nidulans* Nitrate Transporters. International Conference on Stress Biology and Biotechnology: Challenges & Management, May 21-23, 2014. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.
11. Studies of residue proximity in the nitrate transporter of *Aspergillus nidulans* by thiol cross-linking technique. International Conference on Beneficial Microbes (ICOBM). May 27-29, 2014 Organised by University Sains Malaysia Penang, **Malaysia**.
12. Substrate specificity of *Aspergillus nidulans* nitrate permeases. 3rd International Conference of Pakistan Phytopathological Society. Climate Change and Plant Diseases Challenges and Opportunities January 23-25, 2014, University of Karachi, Karachi, **Pakistan**.
13. FSEC: a simple, efficient and flexible technique for protein structural studies at 5th Chemistry Conference. 04-06 November, 2013, PINSTECH, Islamabad, Pakistan.
14. In vivo pathogenicity studies of *Aspergilli* in Lepidopteran model host *Galleria mellonella*. 4th International conference on agriculture and animal science, 23-24 November, 2013. Phuket, Thailand.
15. *In vivo* pathogenicity testing of *Aspergillus* spp.” at the conference held on 2-3 April 2013, MMG Punjab University, Lahore, **Pakistan**.
16. Nitrate transport inhibition studies using model fungus - *Aspergillus nidulans*. Conference on Sustainable crop productivity: threats and options, 11-12 April, 2013 Ayub Agricultural Research Institute, Faisalabad, **Pakistan**.

17. Cysteine scanning mutagenesis and thiol cross-linking studies in *Aspergillus nidulans* NrtA International Conference on Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment April 22-26, 2013 at NIBGE, Faisalabad, **Pakistan** (*won 3<sup>rd</sup> prize*).
18. Nitrate / nitrite permeases of *Aspergillus nidulans*. Postgraduate Research Conference, 10-11 November 2011, School of Biology, University of St. Andrews, Scotland **UK**
19. Naureen **Akhtar**, Jaffar Hussain Mirza, Rukhsana Bajwa and Amna Javaid. Isolation and Identification of some seed-borne Aspergilli. 3rd International conference and 7th biennial meeting of Phytopathological Society of Pakistan, November 19-21, 2007, IMPP, Punjab University, Lahore, **Pakistan**.

## Publications

1. **Naureen Akhtar**, Komal Hanif, Muhammad Shafiq and Waheed Anwar, 2018. First report of *Aspergillus awamorii* causing fruit decay of guava in Pakistan. *Journal of Animal and Plant Sciences*.
2. Arshad Javaid, Gul-i-Rayna Shahzad, **Naureen Akhtar**, Dildar Ahmed, 2018. First Report of *Alternaria* Leaf Spot of Broccoli in Pakistan and Management of the pathogen by Leaf Extract of *Syzygium cumini*, *Pakistan Journal of Botany*, 50(4): 1607-1614.
3. Arshad Javaid, Umair Latif, **Naureen Akhtar**, Dildar Ahmed, Shagufta Perveen, 2018. Molecular characterization of *Fusarium moniliforme* and its management by methanolic extract of *Coronopus didymus*. *Pakistan Journal of Botany*, 50(5): 2069-2075.
4. Haleema Qudisia, Arshad Javaid, Rashid Mahmood and **Naureen Akhtar**, 2017. Correlation between soil chemical characteristics and soil-borne mycoflora in cucumber tunnels. *Pakistan Journal of Botany*, 49(4): 1579-1583 (**IF 0.658**).
5. Shazia Shafique, Mina Rafique, **Naureen Akhtar** and Sobiya Shafique, 2017. Identification and Management of *Alternaria ochroleuca* – A Cause of Leaf Necrosis in Money Plant, *Pakistan Journal of Animal and Plant Sciences*, 27(4):1276-1286 (**IF 0.381**)
6. Ammara Kanwal, Arshad Javaid, Rashid Mahmood and **Naureen Akhtar**, 2017. Correlation between soil nutrients and soil-borne mycoflora in wheat-rice cropping system of Punjab, Pakistan. *Pakistan Journal of Animal and Plant Sciences*, 27(4): 1256-1263. (**IF 0.448**).
7. **Naureen Akhtar** and Madiha Nayab, 2017. First report of *Alternaria alternata* causing leaf spot of *Ficus benghalensis* in Pakistan. *Journal of Plant Pathology*, 99(2): (**IF 1.267**).
8. **Naureen Akhtar**, Rahila Hafeez and Waheed Anwar, 2017. *Combretum indicum* – A new host record of *Alternaria brassicae* Leaf Spot disease from Pakistan. *Pakistan Journal of Phytopathology*, 29(1): 171-173.
9. Unaiza Amin and **Naureen Akhtar**, 2017. Effect of fungicides on nitrate uptake and assimilation in *Aspergillus nidulans*. *Pakistan Journal of Animal and Plant Sciences*, 27 (2): 550-558 (**IF 0.422**).
10. **Naureen Akhtar**, Rahila Hafeez and Amna Ali, 2016. Viability Assessment of Refrigerated Mucorales in Pure Cultures. *Pakistan Journal of Phytopathology*,

- 28(2): 147-152.
11. Arshad Javaid, **Naureen Akhtar**, Ayesha Khan, Amna Shoaib and Rahila Hafeez, 2016. New host record of *Alternaria brassicicola* infecting Triangle palm (*Dypsis decaryi*) in Pakistan, 2016. *Pakistan Journal of Animal and Plant Sciences*, 26(6):1894-1898 (IF 0.422).
  12. **Naureen Akhtar** and Madiha Nayab, 2016. First Report of *Cladosporium oxysporum* Causing Leaf Spot of *Rosa indica* in Pakistan. *Journal of Plant Pathology* 98(3): 688. (IF 1.02).
  13. Zoia Arshad Awan, **Naureen Akhtar**, Amna Shoaib and Sundus Akhtar, 2016. First Report of Post Harvest Infection of Soybean Seeds by *Aspergillus minisclerotigenes* from Pakistan. *Journal of Plant Pathology*, 98(3): 683. (IF 1.02).
  14. Madiha Nayab and **Naureen Akhtar**, 2016. First Report of *Curvularia aeria* Causing Leaf Spot of *Ficus religiosa* in Pakistan. *APS Plant Disease*, 100(12): 2530. (IF 3.02).
  15. Sundus Akhtar, Amna Shoaib, **Naureen Akhtar** and Rashid Mehmood, 2016. Separate and combined effects of *Macrophomina phaseolina* and copper on growth, physiology and antioxidative enzymes in *Vigna mungo* L. *Pakistan Journal of Animal and Plant Sciences*, 26(5): 1339-1345. (IF 0.422).
  16. Amna Ali, Uzma Bashir, **Naureen Akhtar** and Muhammad Saleem Haider, 2016. Characterization of growth promoting rhizobacteria of leguminous plants. *Pakistan Journal of Phytopathology*, 28(1): 57-60.
  17. Madiha Nayab and **Naureen Akhtar**, 2016. New Report of *Cycas revoluta* Leaf Necrosis by *Phoma herbarum* in Pakistan. *Journal of Plant Diseases and Protection*, 123: 193-196 (IF 0.477).
  18. **Naureen Akhtar**, Ambreen Naseer, Sobiya Shafique, Shazia Shafique and Komal Hanif, 2016. First Report of *Phyllosticta aristolochiicola* Causing Leaf Spot of *Sonchus oleraceus* in Pakistan. *APS Plant Disease*, 100(7): 1503. (IF 3.02)
  19. **Naureen Akhtar**, Amna Ali, Uzma Bashir and Muhammad Saleem Haider, 2016. Bactericidal action of crude leaf extracts of common weeds. *Pakistan Journal of Weed Science Research*, 22 (1): 157-167.
  20. Komal Hanif, **Naureen Akhtar** and Rahila Hafeez, 2016. First Report of *Aspergillus welwitschiae* as a Postharvest Pathogen of *Brassica campestris* Seeds in Pakistan, *Journal of Plant Pathology*, 98(1): 185. (IF 1.02)
  21. **Naureen Akhtar**, Madiha Nayab, Naeem Sattar and Fasiha Qurashi, 2016. First Report of *Alternaria alternata* Causing Leaf Spot of *Polyalthia longifolia* in Pakistan, *Journal of Plant Pathology*, 98(1): 173. (IF 1.02).
  22. **Naureen Akhtar**, Ambreen Naseer, Shazia Shafique, Sobiya Shafique and Madiha Nayab, 2015. First Report of *Alternaria arborescens* Causing Leaf Spot

of *Dracaena mariginata* in Pakistan. *Journal of Plant Pathology* 97 (4): S70 (IF 1.02)

23. Amna Ali, **Naureen Akhtar**, Uzma Bashir, Muhammad Saleem Haider, 2015. Morphological and Biochemical characterization of bacteria isolated from milk products. *Biologia* 61(2): 271-277.
24. Rahila Hafiz, **Naureen Akhtar**, Amna Shoiab, Muhammad Saleem Haider, Uzma Bashir, Zoia Arshad Awan, 2015. First Report of *Geotrichum candidum* from Pakistan Causing Postharvest Sour Rot of Loquat (*Eriobotrya japonica*). *Pakistan Journal of Animal and Plant Sciences*, 25 (6): 1737-1740 (IF 0.448).
25. Amna Shoaib, Sundus Akhtar and **Naureen Akhtar**, 2015. Copper tolerance, protein and catalytic activity in phytopathogenic fungus *Alternaria alternata*. *Global NEST*, 17(4): 664-672 (IF.0.468)
26. **Naureen Akhtar**, Amna Shoaib, Zoia Arshad Awan and Unaiza Amin, 2015. First Report of *Aspergillus parvisclerotigenus* Rot in Garlic Bulbs from Pakistan. *APS Plant Disease*, 99(10): 1448 (IF 3.02)
27. **Naureen Akhtar**, Amna Shoaib and Tehmina Hanif, 2015. Side Effects of Pesticides on Non-target Soil Fungi. *Pakistan Journal of Phytopathology*, 27(1): 69-75.
28. **Naureen Akhtar**, 2015. Collection of *Alternaria alternata* (Fr.) Keissl. In First Fungal Culture Bank of Pakistan, *Pakistan Journal of Phytopathology*, 27(1): 105-107.
29. Aqsa Aftab, Amna Shoaib, **Naureen Akhtar**, Nafisa Farooq, 2015. Assessment of physiological changes in *Alternaria destruens* infected canola plants. *Pakistan Journal of Phytopathology*, 27(1): 89-93.
30. **Naureen Akhtar**, 2015. Green florescent protein as an indicator to monitor membrane protein overexpression in bacteria. *Journal of Life Sciences and Technologies*, 3(1): 1-7.
31. **Naureen Akhtar**, Eugenia Karabika, James R. Kinghorn, Anthony D. M. Glass, Shiela E. Unkles and Duncan A. Rouch, 2015. High Affinity Nitrate/Nitrite Transporters NrtA and NrtB of *Aspergillus nidulans* exhibit high specificity and different inhibition profiles. *Microbiology*, 161: 1435-1446 (IF 2.557)
32. Amna Shoaib, **Naureen Akhtar**, Sundus Akhtar, Rahila Hafeez, 2014. First Report of *Alternaria longipes* Causing Leaf Spot of Potato Cultivar Sante in Pakistan, *APS Plant Disease*, 98(12): 1742 (IF 3.02)
33. Uzma Bashir, Ali, **Naureen Akhtar**, Muhammad Saleem Haider, 2014. Phenotypic Identification and Biochemical Studies of Bacteria Associated with Rhizospheric Soil of Ginger (*Zingiber Officinale* L.), *Pakistan Journal of Phytopathology*, 26(2): 175-179
34. Uzma Bashir, Amna Ali, **Naureen Akhtar** and Muhammad Saleem Haider, 2014. Isolation and Characterization of bacterial species associated with weed plants *Pakistan Journal of Weed Science Research*, 20(2): 439-447

35. **Naureen Akhtar**, Amna Shoaib, Saima Munir, Amna Ali and Saba Khurshid, 2014. Isolation, identification and enzyme production profile of *Aspergillus niger*. *Pakistan Journal of Animal and Plant Sciences*, 24(5): 1438-1443 (**IF 0.55**)
36. **Naureen Akhtar**, 2014. *In vivo* pathogenicity studies of Aspergilli in Lepidopteran model host *Galleria mellonella*. *APCBEE Procedia*, 8: 293-298.
37. **Naureen Akhtar**, Rahila Hafeez and Zoia Arshad Awan, 2014. First Report of Rice Leaf Spot by *Alternaria gaisen* from Pakistan. *APS Plant Disease*, 98(10): 1440. (**IF 3.02**)
38. **Naureen Akhtar**, Zoia Arshad Awan and Amna Shoaib, 2014. First Report of New Postharvest Rot in Ginger rhizome by *Aspergillus parvisclerotigenus* in Pakistan. *APS Plant Disease*, 98(8): 1158 (**IF 3.02**)
39. **Naureen Akhtar** Amna Shoaib, Nafisa and Aqsa Aftab, 2014. Identification and *in vitro* control of canola spot disease pathogen. *Pakistan Journal of Phytopathology*. 26(1): 101-106.
40. Uzma Bashir, Sobia Mushtaq, **Naureen Akhtar**, 2014. First report of *Alternaria metachromatica* from Pakistan causing leaf spot of tomato. *Pakistan Journal of Agricultural Sciences*. 51(2): 315-318. (**IF 1.04**)
41. **Naureen Akhtar**, Uzma Bashir, Sobia Mushtaq, 2014. First report of leaf spot of rice caused by *Alternaria arborescens* in Pakistan. *APS Plant Disease*, 98(6): 846. (**IF 3.02**)
42. **Naureen Akhtar**, Amna Ali, Uzma Bashir, Muhammad Saleem Haider, 2013. Morphological and biochemical studies on bacterial microfauna from Lahore soils. *Pakistan Journal of Phytopathology*, 25(2): 137-140.
43. Amna Shoaib, **Naureen Akhtar**, Nafisa and Aqsa Aftab, 2013. Fourier transform-infrared spectroscopy: A novel approach to monitor modifications in canola biochemistry caused by *Alternaria* blight disease. *Pakistan Journal of Phytopathology*, 25(2): 105-109.
44. Shabnam Javed, **Naureen Akhtar** and Uzma Bashir, 2012. Comparative antifungal activities of processed *Aloe vera* gel with market gel samples. *Mycopath*, 10(2): 91-95.
45. Aqsa Aftab, **Naureen Akhtar**, Nafisa, Amna Shoaib and Zia-Ullah Malik, 2012. In vitro screening methods using chemical fungicides against canola black spot pathogen. *Mycopath*, 10(2): 63-66.
46. Shiela E Unkles, Eugenia Karabika, Vicki F Symington, Jennifer L Cecile, Duncan A Rouch, **Naureen Akhtar**, Brett A Cromer and James R Kinghorn, 2012. Alanine scanning mutagenesis of a high-affinity nitrate transporter highlights the requirement for glycine and asparagine residues in the two nitrate signature motifs. *Biochemical Journal*, 447(1):35-42. (**IF 4.78**)



47. Javaid A, Javaid A, **Akhtar N.** 2008. In vitro chemical control of *Botryodiplodia theobromae*: the cause of dying back of mango (*Mangifera indica* L.) trees. *Pakistan Journal of Phytopathology*, 20(2): 195-199.
48. Nazir N, Mirza JH, **Akhtar N**, Bajwa R and Nasim G. 2007. Some studies on thermophilic and thermotolerant fungi from Lahore, Pakistan. *Mycopath*, 5 (2): 95-100.
49. Javaid A, **Akhtar N**, Akbar M and Zaman N. 2007. *In vitro* chemical control of *Colletotrichum gleosporioides*. *International Journal of Biology and Biotechnology*, 4(1): 79-81.
50. **Akhtar N**, Mirza JH, Bajwa R and Javaid A. 2007. Fungi associated with Seeds of some important plants. *Mycopath*, 5(1): 35-40.
51. Javaid A, Javaid A and **Akhtar N.** 2006. Antifungal Potential of metabolites of *Trichoderma* spp. against seed borne Mycoflora of wheat. *Pakistan Journal of Phytopathology*, 19(1): 123-127.
52. **Akhtar N**, Mirza JH and Bajwa R. 2006. Aspergilli from Soil of Lahore and Vicinity. *Mycopath*, 4(2): 39-40.
53. Javaid A and **Akhtar N.** 2006. *Acacia nilotica* (babul or kikar) dieback in Punjab, Pakistan. *Pakistan Journal of Phytopathology*, 18(2): 63-67.
54. Javaid A, Ashraf A, **Akhtar N**, Hanif M and Farooq A. 2006. Efficacy of Some Fungicides against seed borne Mycoflora of Wheat. *Mycopath*, 4 (1): 45-49.
55. Mirza JH, Bajwa R and **Akhtar N.** 2004. Additions to fungi imperfecti of Pakistan. *Mycopath*, 2(2): 65-66.
56. Bajwa R, Javaid A, Mirza JH and **Akhtar N.** 2003. Chemical Control of wilt in Shisham (*Dalbergia sissoo* Roxb.) *Mycopath*, 1(2): 111-113.
57. **Akhtar N**, Javaid A and Bajwa R. 2001. Herbicidal activity of aqueous extract of *Cirsium arvense* and *Ageratum conyzoides* against weeds of wheat. *Pakistan Journal of Biological Sciences*, 4(11): 1364-1367.
58. Bajwa R, **Akhtar N** and Javaid A. 2001. Antifungal activity of allelopathic plant extracts I: Effect of aqueous extracts of three allelopathic Asteraceous species on growth of *Aspergilli*. *Pakistan Journal of Biological Sciences*, 4(5): 503-507.

### Conference papers

59. Ammara Kanwal, Arshad Javaid, Rashid Mahmood and **Naureen Akhtar**, Relationship between soil NPK and soil-borne mycoflora in wheat-rice cropping system of Punjab. International Conference on Significance of Potash use in Pakistani Agriculture, November 24 –25, 2016 held at Institute of Agricultural Sciences, University of the Punjab, Lahore, **Pakistan.**
60. Freeha Anjum, Arshad Javaid, Rashid Mahmood and **Naureen Akhtar**,

Correlation of organic matter and NPK with fungal community composition of tomato tunnel soils of Punjab. International Conference on Significance of Potash use in Pakistani Agriculture, November 24 –25, 2016 held at Institute of Agricultural Sciences, University of the Punjab, Lahore, **Pakistan**.

61. **Naureen Akhtar**. Green florescent protein as an indicator to monitor membrane protein overexpression in bacteria. 5th International Conference on Life Science and Technology (ICLST), April 24-25, 2015, Istanbul, **Turkey**.
62. **Naureen Akhtar**. Studies of residue proximity in the nitrate transporter of *Aspergillus nidulans* by thiol cross-linking technique. International Conference on Beneficial Microbes (ICOBM), 27-29 May 2014, Penang **Malaysia**.
63. **Akhtar N**. *In vivo* pathogenicity studies of Aspergilli in Lepidopteran model host *Galleria mellonella*. 4th International conference on agriculture and animal science, 23-24 November, 2013. Phuket, **Thailand**
64. Colbeck I, Nasir Z A, Bajwa R, **Akhtar N** and Ahmad F. Assessment of indoor fungal and bacterial bioaerosol concentrations in residential houses in Pakistan. Indoor Air 2008, 17-22 August 2008, Copenhagen, **Denmark**

#### **Research Bulletin**

65. Bajwa R, Mirza JH, **Akhtar N** and Nasim G. 2009. A revision of the Genus *Trichoderma* in Pakistan. *Research Bulletin No 3*. First Fungal Culture Bank of Pakistan. Institute of Mycology and Plant Pathology University of the Punjab, Lahore Pakistan.
66. Mirza JH, Bajwa R, **Akhtar N** and Javaid A. 2005. Coprophilous Fungi of Pakistan. *Research Bulletin No 2*. First Fungal Culture Bank of Pakistan. Dept. of Mycology and Plant Pathology University of the Punjab, Lahore Pakistan.
67. Mirza, JH, Bajwa R and **Akhtar N**. 2005. New records of fungi Imperfecti. *Research Bulletin No 2*. First Fungal Culture Bank of Pakistan. Dept. of Mycology and Plant Pathology University of the Punjab, Lahore Pakistan.