



Dr Aqleem Abbas

Research interests: Biocontrol, Microbiome, Diversity, Plant diseases resistance, Bioinformatics of plant pathogens, Taxonomic and phylogenetic studies, Plants microbe interactions

Education

2016-2020

- Ph.D. in Plant Pathology,
Thesis title: Screening of
biocontrol agents for the control
of rice sheath blight disease
based on microbiome techniques
and sclerotial baiting method

Huazhong Agricultural
University, Wuhan, China

1045/1200

2013-2015

- M.Sc. in Plant Pathology
Thesis title: Management of
potato leaf roll virus using
thermotherapy and
chemotherapy

The University of Agriculture,
Khyber-Pakhtunkhwa, Pakistan

3.94 / 4.0

2007- 2013

- B.Sc. Hons in Plant
Pathology, Report title:
Antimicrobial activity of
silver nanoparticles (AgNPs)
against some selected fungi
and bacteria

The University of Agriculture,
Khyber-Pakhtunkhwa Pakistan

3.93 / 4.0

2005- 2007

- HSSC Biology

FBISE Islamabad

785/1100

2002- 2004

- SSC Biology

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Academic social media pages:

facebook.com/Plant.path.agric

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<https://www.researchgate.net/profile/Aqleem-Abbas>





Publications

Scientific articles (In Local and International Journals)

1. **Abbas, A.**, Fu, Y., Qu, Z., Zhao, H., Sun, Y., Lin, Y., Xie, J., Cheng, J. and Jiang, D. (2021), Isolation and evaluation of the biocontrol potential of *Talaromyces* spp. against rice sheath blight guided by soil microbiome. *Environ Microbiol.* <https://doi.org/10.1111/1462-2920.15596>, IF=5.49
2. Moosa, A., Farzand, A., Sahi, S. T., Khan, S. A., **Abbas, M. F.**, Abbas, A., and Binyamin, R. (2020). First report of post-harvest *Fusarium* rot caused by *Fusarium oxysporum* on *Citrus reticulata* Blanco cv. 'Kinnow' in Pakistan. *Journal of Plant Pathology*, 1-2. IF=2.303
3. Alami, M. M., Xue, J., Ma, Y., Zhu, D., **Abbas, A.**, Gong, Z., and Wang, X. (2020). Structure, function, diversity, and composition of fungal communities in rhizospheric soil of *Coptis chinensis* Franch under a successive cropping system. *Plants*, 9(2), 244. IF=3.90
4. **Abbas, A.**, Khan, S. U., Khan, W. U., Saleh, T. A., Khan, M. H. U., Ullah, S., ... and Ikram, M. (2019). Antagonist effects of strains of *Bacillus* spp. against *Rhizoctonia solani* for their protection against several plant diseases: Alternatives to chemical pesticides. *Comptes rendus biologiques*, 342(5-6), 124-135. IF=1.98
5. Al-Kubati AM, Kang B, Liu L, **Abbas A**, Gu Q. Development of Bottle Gourd Lines Resistant to Zucchini Yellow Mosaic Virus Using Ethyl Methanesulfonate Mutagenesis. *HortScience*. 2021 Jun 23;1(aop):1-7. IF = 1.102
6. Mubeen, M., Iftikhar, Y., **Abbas, A.**, Abbas, M., Zafar-ul-Hye, M. et al. (2021). Yellow Vein Mosaic Disease in Okra (*Abelmoschus esculentus* L.): An Overview on Causal Agent, Vector and Management. *Phyton-International Journal of Experimental Botany*, 90(6), 1573–1587. IF= 1.039
7. Hussain, B., Ashraf, M. N., **Abbas, A.**, Li, J., and Farooq, M. (2020). Cadmium stress in paddy fields: Effects of soil conditions and remediation strategies. *Science of The Total Environment*, 142188. IF= 7.96
8. Rahman, K., Khan, S. U., Fahad, S., Chang, M. X., **Abbas, A.**, Khan, W. U., ...and Khan, D. (2019). Nano-biotechnology: a new approach to treat and prevent malaria. *International journal of nanomedicine*, 14, 1401. IF=4.47
9. Mubeen, M., Iftikhar, Y., Shakeel, Q., Hassan, F., **Abbas, A.**, Ahmad, U., & Shahid, M. (2020). A brief description of tomato leaf curl virus and its management. *Plant Protection*, 4(3), 137-147.
10. Iftikhar, Y., Mubeen, M., Shakeel, Q., Saeed, H. M., Bashir, S., Sajid, **Abbas A.**, & Iqbal, S. (2020). Effect of Urdbean leaf crinkle virus on



- biochemical properties of Urdbean plants in relation to whitefly and environmental factors. Pakistan Journal of Phytopathology, 32(2), 121-128.
11. **Abbas** A, Syeda, S.N, Sartaj, A.S. 2015. Antimicrobial activity of silver nanoparticles (AgNPs) against *Erwinia carotovora* pv. *carotovora* and *Alternaria solani* Int. J. Bio.sci. 6(10): 9-14, IF=0.5
 12. Dars, A. G., Hu, K., Liu, Q., **Abbas**, A., Xie, B., and Sun, Z. (2019). Effect of thermo-sonication and ultra-high pressure on the quality and phenolic profile of mango juice. Foods, 8(8), 298. **IF=3.011**
 13. Zia Ullah, Sartaj A.S, **Abbas** A. 2015. Evaluation of *Penicillium* sp. Eu0013 for management of root rots disease of okra. Int. J. Bio. 7(3): 11-15. Int. J. Bio.sci. IF=0.5
 14. Attiq R, Tahira, Lesan, A, **Abbas** A. 2015. Screening of wheat germplasm for seed associated fungi in geographical areas of Pakistan. African Journal of Agriculture research 7(6): 1-16
 15. Ijaz A, Saifullah, Musharaf A, Ijaz A.K, Rifat A, **Abbas** A, Mehran K. 2015. Incidence of root-knot nematode in winter weeds of tomato in Malakand division Pakistan. Journal of Entomology and Zoology Studies. 3(6): 385-391.
 16. Ijaz A, Saifullah, Musharaf A, Laila K, **Abbas** A, Rifat A. 2016. Organic management of root-knot nematodes with non-host weed (*Asphodelus tenuifolius*) Extracts. Journal of Entomology and Zoology Studies. 4: 501-508.
 17. Akhtar H, Muhammad S, **Abbas** A, Nadia K, Muhammad N, Maria A, Asma A. 2015. Detection of antibiotics cephtazidime and cephadrine in hospital effluents and soil of Peshawar valley, Khyber Pakhtunkhwa province of Pakistan. Int. J.bio. 7(5): 58-65. IF=0.5
 18. **Abbas** A, Muhammad A, Asad, A. 2016. Use of hot water thermotherapy to free potato tubers of PLRV. International Journal of life science and scientific research. 2(2): 155-162.
 19. **Abbas**, A., Sohail, M. A., Mubeen, M., Alami, M. M., Umer, M., & Khan, S. U. (2020). Plant Viruses in Gilgit-Baltistan (GB) Pakistan: Potential Future Research Direction. Plant Pathol Microbiol, 10, 486.
 20. **Abbas** A, Muhammad A, Murtaza A. 2016. A review paper on Potato leaf roll virus (PLRV) of Potato in Pakistan. Asian J Agri Biol., 4(3):77-86.
 21. Altaf H, Muhammad A, **Abbas** A. 2016. A review paper on aphid borne virus (PVY). Journal of entomology and zoological studies. 4(3): 189-192.
 22. Mehran, K., Abdur, R, **Abbas** A, Tauheed A and Akhtar H. 2015. Assessment of yield losses caused by bacterial blight of rice in upper Dir, Khyber Pakhtunkhwa province Pakistan. Asian J Agri

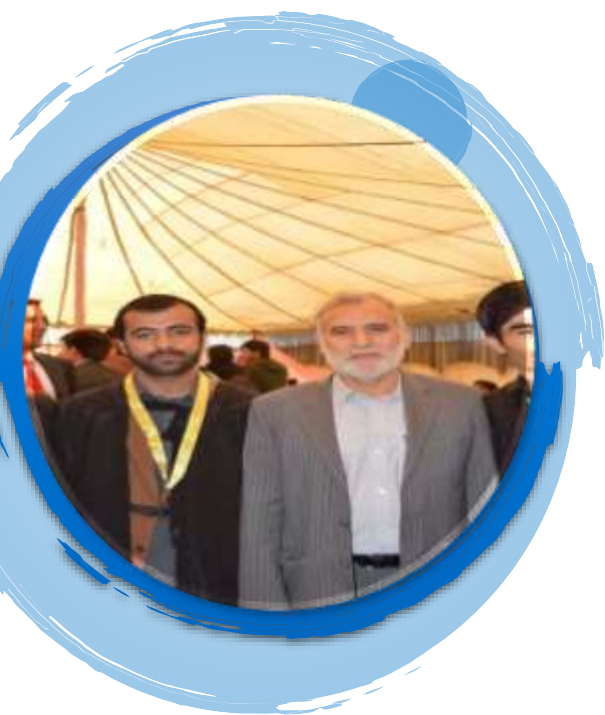


Biol, 3(2): 74-78.

23. **Abbas A.**, Laila, K. Kamran S. 2015. Population density of aphid (*Myzus persicae* Sulzer) and lady bird beetle (*Coccinella septempunctata*) on spring potato cultivars, Gilgit, Pakistan. Journal of Entomology and Zoology Studies 3(2): 142-145
24. **Abbas, A.**, Naz, S. S., and Syed, S. A. (2019). Antimicrobial activity of silver nanoparticles (agnps) against *Erwinia carotovora* subsp. *atroseptica* & *Alternaria alternata*. Pak. J. Agri. Sci, 56(1), 113-117. IF=0.66
25. Arbab A., Zahir S, Altaf H, Izhar S, Nasrullah, Murtaza A, **Abbas A.** 2015. Removal of heavy metals (Cr, Cd, Ni and Pb) using fresh water algae (*Utricularia tenuissima*, *Utricularia tenuis* and *Zygogonium ericetorum*) from contaminated water. Int. J.bio. Environ. 6(5): 358-366.
26. Babar H, Khadim D, **Abbas A.** 2015. Impact of different rates of NP fertilizers and irrigation on yield components of maize (*Zea mays* L.), $\text{NH}_4\text{-N}$ and $\text{NO}_3\text{-N}$ losses at various soil depths. Int. J.bio. Environ. 6(6): 225-239.
27. Babar H., Khadim D, **Abbas A.** 2015. Growth and yield response of maize to nitrogen and phosphorus rates with varying irrigation timings. Environment and Plant system. 1: 16-21.
28. Wasim A., Amanullah J, **Abbas A.** 2015. Residual effect of preceding legumes and nitrogen levels on subsequent maize. Environment and Plant Systems. 1: 48-53
29. Imtiaz H., Nagina Z, Muhammad S, **Abbas A.** 2016. The rooting response of silvery (*Leucophyllum frutescens*) cuttings to different growing conditions and planting dates. Journal of Biosciences. 8(2):9-15
30. Mubeen, M., **Abbas, A.**, Iqbal, S., Sohail, M. A., and Bashir, S. (2020). A View on Potato Leaf Roll Disease and its Management. Journal of Agriculture and Food, 1(2), 41-55.
31. Shoaib, M., Mumtaz, S., **Abbas, A.**, & Begum, F. Population density of free-living nematodes and their relationships with some soil physicochemical properties in forest and agriculture soils of Gapa Valley Chalt, Gilgit, Pakistan. Pure and Applied Biology (PAB).
32. Anjum, N., Shahid, A. A., Iftikhar, S., Mubeen, M., Ahmad, M. H., Jamil, Y and **Abbas, A.** (2020). Evaluations of *Trichoderma* isolates for biological control of fusarium wilt of chili. Plant cell biotechnology and molecular biology, 42-57.
33. Bilqees, I., Iftikhar, Y., Mubeen, M., Shakeel, Q., Sajid, A., Hussain, Z., **Abbas A.**, and Iqbal, S. (2020). Use of nutrients and plant extract to manage okra yellow vein mosaic disease (OYVMD) in Sargodha, Punjab, Pakistan. Pakistan Journal of Agricultural Research, 33(4), 754-758. IF=0.66



34. Iftikhar, Y., Mubeen, M., Siddique, F., Shakeel, Q., Zeshan, M. A., Sajid, A., **Abbas A.**, and Asim, m. (2020). host-virus interaction: movement of plant viruses through plasmodesmata and effect on chloroplast structure: a review. *plant cell biotechnology and molecular biology*, 15-26.
35. Iftikhar, Y., Mubeen, M., Sajid, A., Saeed, H. M. A., **Abbas, A.**, Usman, H. M., ... and Farhan, M. (2020). An overview on the causal agent, vector and management of leaf crinkle disease in Urdbean (*Vigna Mungo* L. hepper). *Plant Protection*, 4(02), 87-95.
36. Yasir I, Mustansar M, Ashara S, Ata-ul-Haq and **Abbas A.** 2020. Aphid-borne potato virus Y (PVY) is an emerging disease of potatoes in Punjab, Pakistan. *Journal of zoology and entomology*.
37. Anwaar, H., Iqbal, Z., Rehman, M. A., Mubeen, M., **Abbas, A.**, Usman, H. M., and Sajjad, k. (2020). Evaluation of fungicides and biopesticides for the control of *Alternaria* black rot disease in citrus. *Plant cell biotechnology and molecular biology*, 118-126.
38. Mubeen, M., Iftikhar, Y., Ahmar, S., **Abbas, A.**, Hassan, F., Murtaza, M., (2019). Management of Termites Using Wood Extractives and Microbes: A Mini Review.
39. Hussain, B., **Abbas, A.**, and Khan, S. U. (2019). First record of peach fruit fly in Gilgit-Baltistan (GB), Pakistan.
40. **Abbas A** (2017) First report of *Alternaria* blight of potatoes in Nomal Valley, Gilgit-Baltistan Pakistan. *Appl Microbiol Open Access* 3: 3-5.
41. **Abbas A** (2017) A report of grey mould disease on grapes caused by *Botrytis cinera* in Gilgit-Baltistan, Pakistan. *CBMI* 1: 117-119.
42. **Abbas A** (2018) A report of late blight of potato caused by *Phytophthora infestans* in Gilgit-Baltistan (GB) s Pakistan. *IJCSMB* 4: 1-2.
43. **Abbas A** (2018) First report of Gummosis disease of major fruits in Gilgit Baltistan (GB) Pakistan. *Int J Life Sci Scienti Res* 4: 1805-1809.
44. **Abbas A** (2018) First Report of a Smut Disease on Grasses in Gilgit-Baltistan, Pakistan. *Appl Microbiol Open*, 9-10
45. Ashraf, H. J., Abbasi, A., Khan, M., and **Abbas, A.** (2018). Efficacy of different plant extracts against *Brevicoryne brassicae* and their effects on pollinators. *Journal of Entomology and Zoology Studies*, 6(5), 01-05.
46. Tahira, R., **Abbas, A.**, Iqbal, S., Ahmad, I., and Ahmad, W. (2018). Screening of wheat germplasm for seed associated fungi in geographical areas of Pakistan. *African journal of agricultural research*, 13(5), 258-271.
47. Hussain, A., Arif, M., and **Abbas, A.** (2017). management of aphid borne Potato virus Y (PVY) through chemical and bio-chemical methods. *World Journal of Biology and Biotechnology*, 2(2), 159-163.



48. Madadi, M., Tu, Y., and **Abbas**, A. (2017). Recent status on enzymatic saccharification of lignocellulosic biomass for bioethanol production. *Electron J Biol*, 13(2), 135-143.
49. Madadi, M., Tu, Y., and **Abbas**, A. (2017). Pretreatment of lignocellulosic biomass based on improving enzymatic hydrolysis. *International Journal of Applied Sciences and Biotechnology*, 5(1), 1-11.
50. Madadi, M., and **Abbas**, A. (2017). Lignin degradation by fungal pretreatment: a review. *Journal of Plant Pathology and Microbiology*, 8(2).
51. Muhammad Umer, Mustansar Mubeen, Yasir Iftikhar, Munsif Ali Shad, Hafiz Muhammad Usman, Muhammad Aamir Sohail, Muhammad Nauman Atiq, **Abbas**, (2021). Role of rhizobacteria on plants growth and biological control of plant diseases. *Plant protection*. 05(01)
52. Ali, T., Naz, I., Mubeen, M., Shakeel, Q., Gul, B., Usman, H. M., Fatima, R., Atiq, M. N., Ateeq, M., **Abbas**, (2021). Meloidogyne incognita infecting brinjal in Khyber Pakhtunkhwa, Pakistan: its distribution, reproduction and management through resistance. *Plant Cell Biotechnology and Molecular Biology*.
53. Yasir I., Mustansar M., Ashara S., Muhammad A.Z., Qaiser S., **Abbas** A., (2021). Effects of Tomato Leaf Curl Virus on Growth and Yield Parameters of Tomato Crop. *Arab J. Pl. Prot.* V
54. **Abbas**, A., D. Jiang, and Y. Fu. "*Trichoderma* spp. as antagonist of *Rhizoctonia solani*." *J Plant Pathol Microbiol* 8.3 (2017): 1-9.
55. Judith Jeruto et al and **Abbas**. (2021). Stubborn disease of citrus caused by *Spiroplasma citri*: a short note. *Plant Protection*. 5(2):117-120
56. Muhammad Umer et al and **Abbas**. (2021). Etiology, epidemiology and management of citrus black rot caused by *Alternaria citri*-an outlook. *Plant Protection*. 05(02):105-115

Books

1. Introduction to Agriculture for Competitive Exams. Publisher: AkiNik Publications, New Dehli, ISBN: 978-93-5335-337-7

Patents

1. Submitted; Chinese patent number; 202110143650.1



Professional Workshops/ Conferences/Webinars/Training Attended/ Memberships in Professional Organizations

1. Worked on Silver nano-particles against plant pathogen in the University of Agriculture, Peshawar Pakistan
2. Taught Biology in Progressive Public School and College, Village Nomal District Gilgit
3. Participated in workshop on the cultivation of edible fungi arranged by Department of Plant Pathology, the University of Agriculture, and Peshawar Pakistan
4. Participated in the training workshop on emergency management, arranged by the University of Agriculture, Peshawar Pakistan
5. Attended an International workshop on Dairy Science Park arranged by the University of Agriculture, Peshawar Pakistan.
6. Participated in capacity building workshop under the Impossible take a child to school sponsored by British council
7. Attended workshops on taking a child to school project, sponsored by British Council Pakistan
8. Member of Pakistan Human Right Organization (PHRO) and Agri-Anti-narcotic society, the University of Agriculture Peshawar Pakistan
9. Participant of Active citizen's Program sponsored by British Council Pakistan
10. Member of Global Forum on Food Security and Nutrition (FSN)
11. Member of Australasian Plant Pathology Society
12. Attended webinar Laser Land Leveling and Mechanical Transplanting: Technologies on Increasing Crop Production Efficiency, hosted by International Rice Research Institute (IRRI)

Awards and Scholarships

1. Gold Medalist in B.Sc (Hons), Department of Plant Pathology, the University of Agriculture, Peshawar Pakistan
2. Securing 2nd position in B.Sc. (Hons) in Faculty of Crop protection sciences, the University of Agriculture Peshawar Pakistan
3. Securing 2nd position in M.Sc. (Hons) in Department of Plant Pathology, the University of Agriculture, Peshawar Pakistan





4. Distinction Certificate in M.Sc. (Hons) and B.Sc. (Hons.) from the University of Agriculture, Peshawar Pakistan
5. Umeed-e-Pakistan Talent Tribute Sponsored by SAFE, the University of Agriculture, Peshawar Pakistan
6. Silver medal in M.Sc. (Hons) Department of Plant Pathology, the University of Agriculture, Peshawar Pakistan
7. Chinese Government Scholarship for PhD studies

Core Techniques in Hand

1. Taxonomic and Phylogenetic studies of fungi and bacteria, with Mega software's, Bioedit, Phylosuite, Snapgene, and with online website <https://www.phylo.org/portal2/login!input.action>
2. Morphology and Molecular identification of the fungi and bacteria with different genetic markers
3. Lab, greenhouse and field expertise in the application of biocontrol agents for the control of plants diseases.
4. Various types of PCR amplifications, General PCR, qPCR etc
5. Transformation of fungi using fluorescent proteins to determine their endophytic or epiphytic nature in plants.
6. Designing of primers with various software tools for the study of various plants diseases related genes
7. Expertise in Microbiome analysis of fungi and bacteria using R, QIIME, Lefsie, Picrust, and FunGuild and other related software's
8. Statistical designs with Design experts, SPSS, statistics, GraphPad prism, Minitab, Origin pro and other statistical software's.
9. Well acquainted in bioinformatics tools, Vector NTI 10, String, Ugene software, QIIME, R, MetaComet, Snapgene, Lefsie, Picrust, FunGuild, STAMP
10. Well acquainted with Microsoft office tools and graphics and illustration software's i.e., Photoshop, Adobe Illustrator, Inkscape, GraphPad prism, Sigma plot, Origin pro
11. Well acquainted with statistical software's i.e. Statistix, SPSS
12. Well acquainted with Mesquite: A modular system for evolutionary analysis
13. Well acquainted with STAMP, a software package for analyzing taxonomic or metabolic profiles

Reviewer/Editorial work

1. Journal of virology and mycology
2. International Journal of Microbiology and Mycology (IJMM)
3. New Phytologist
4. Plant Disease
5. Applied microbiology-open accessed

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6. Archives of phytopathology and plant protection
 7. Journal of Agriculture and Aquaculture
 8. Journal of plant disease and protection
 9. Australian Plant Pathology
 10. Journal of Plant Diseases and Protection
 11. Microbiology Spectrum
 12. Journal of Hazardous Materials



<https://publons.com/dashboard/records/review/>

Teaching Experience

Visiting Lecturer Taught Seed Pathology & Fungal Plant Pathology to M.Sc. (Hons) students, in the University of Agriculture, Peshawar Pakistan, 2016-2017

Biology Lecturer Developed Syllabus, Course structure and taught Biology to grades 11 and 12 students in the Progressive public school and college, Gilgit Baltistan, Pakistan

Languages

English

Speak fluently and read/write with high proficiency

Other Languages

Native speaker of Shina and Urdu/Hindi with a Medium understanding of Chinese, Arabic and Persian

SKILLS

Excellent Presentation Skills, Interpersonal skills, Working ability, MS. Office, LaTeX, Graph Prism, R software, Origin Lab, Endnote, Mendeley, Zotero, Statistic 8.1, SPSS, Corel Draw, Minitab, Design Expert, Mesquite, STAMP

References

1. **PhD Supervisor:** Prof. Dr. Jiang Daohong, Email: daohongjiang@mail.hzau.edu.cn
 2. **Chairman of the PhD defense:** Prof. Dr. Guoqiang Li, Email: guoqingli@mail.hzau.edu.cn
 3. **Guided and assisted me in my PhD research as Co-Supervisor:** Prof. Dr. Fu Yanping, Email: yanpingfu@mail.hzau.edu.cn
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