

AYAZ FARZAND

(Lecturer, Plant Pathology)



PERSONAL DETAILS

Ayaz Farzand

Present Address: House # 889, Near Faizan e Madina, Mohallah Siddiqueabad, Shujabad, Multan.

Permanent Address: As Above

Email:
ayaz.farzand@uaf.edu.pk

Telephone #: 0614-398141

Mobile: +92-345-7012932

Date of Birth: 30-12-1989

Nationality: Pakistan

CNIC #: 36304-6796271-9

Passport #: BR8912712

Religion: Islam

Marital Status: Single

ACADEMIC DETAILS

2002-2004

SSC (Matriculation Science) 1st Division, BISE, Multan, Pakistan.

2004-2006

HSSC (F.Sc Pre-Medical) 1st Division, BISE, Multan, Pakistan.

2006-2010

Bachelor B. Sc (Hons) Agri-Sciences, 1st Division, University of Agriculture Faisalabad, Pakistan.

2012-2015

Masters M. Sc (Hons) Plant Pathology, 1st Division, King Saud University, Riyadh, Saudi Arabia.

2016-2019

Doctorate Ph.D. Plant Pathology, 1st Division, Nanjing Agricultural University, Jiangsu, China.

ACADEMIC ACHIEVEMENTS

- Fully funded scholarship from Saudi govt. for masters degree at King Saud University, Riyadh, Saudi Arabia 2012-2015.
- Faculty development scholarship form University of Agriculture, Faisalabad for PhD studies at Nanjing agricultural University 2016-2019.
- Excellent student award from Nanjing Agricultural University, China in 2019.

PROFESSIONAL EXPERIENCE:

- Teaching Experience for two year as a “Lecturer BPS-18” in Department of Plant Pathology, University of Agriculture, Faisalabad. (2016).
- National Internship Program at DC office Faisalabad, Pakistan (2011) (Duration: 6months).
- Internship at Mango research station, Shujaabad, Multan, Pakistan. (2010) (Duration: 3 months).

PUBLICATIONS:

International Impacted publications:

1. **Farzand, A.**, Moosa, A., Zubair, M., Khan, A.R., Massawe, V.C., Tahir, H.A.S., Sheikh, T.M.M., Ayaz, M., Gao, X. (2019). Suppression of *S. sclerotiorum* by induction of systemic resistance and regulation of antioxidant pathways in tomato using fengycin produced by *Bacillus amyloliquefaciens* FZB42. *Biomolecules*, 9, 613. doi: 10.3390/biom9100613. Available online **I.F. 4.694**.
2. **Farzand, A.**, Moosa, A., Zubair, M., Khan, A.R., Ayaz, M., Massawe, V., Gao, X., (2019). Transcriptional profiling of diffusible lipopeptides and fungal virulence genes during *Bacillus amyloliquefaciens* EZ1509 mediated suppression of *Sclerotinia sclerotiorum*. *Phytopathology*, DOI:10.1094/PHYTO-05-19-0156-R. Available online **I.F. 3.264**.
3. **Farzand, A.**, Moosa, A., Zubair, M., Khan, A.R., Hanif, A., Tahir, H.A.S., Gao, X., (2019). Marker assisted detection and LC-MS analysis of antimicrobial compounds in different *Bacillus* strains and their antifungal effect on *Sclerotinia sclerotiorum*. *Biological Control*. Available online. **I.F. 2.60**.
4. Zubair, M., Hanif, A., **Farzand, A.**, Sheikh, T.M.M., Khan, A.R., Suleman, M., Ayaz, M., Gao, X., (2019). Genetic Screening and Expression Analysis of Psychrophilic *Bacillus* spp. Reveal Their Potential to Alleviate Cold Stress and Modulate Phytohormones in Wheat. *Microorganisms*, 7, 337. doi: 10.3390/microorganisms7090337. Available online **I.F. 4.167**
5. Hanif, A.; Zhang, F., Li, P., Li, C., Xu, Y., Zubair, M., Zhang, M., Jia, D., Zhao, X., Liang, J., Majid, T., Yan, J., **Farzand, A.**; Wu, H., Gu, Q., Gao, X (2019). Fengycin Produced by *Bacillus amyloliquefaciens* FZB42 Inhibits *Fusarium graminearum* Growth

and Mycotoxins Biosynthesis. *Toxins*, 11, 295. doi: 10.3390/toxins11050295, Available online **I.F. 3.895**.

6. Sheikh, T.M.M., Zhang, L., Zubair, M., Hanif, A., Li, P., Farzand, A., Ali, H., Bilal, M.S., Hu, Y., Chen, X., Song, C., Zhang, M., Dong, H., (2019). The Type III Accessory Protein HrpE of *Xanthomonas oryzae* pv. *oryzae* Surpasses the Secretion Role, Enhances Plant Resistance and Photosynthesis. *Microorganisms*, 7, 572. doi: 10.3390/microorganisms7110572. Available online. **I.F. 4.167**.
7. Moosa, A., Ahmad, T., Khan, S.A., Gleason, M.L., **Farzand, A.**, Safdar, H., Ali, M.A., (2019). First report of *Alternaria alternata* causing post-harvest brown spot of Plums (*Prunus domestica*) in Pakistan. *Plant Disease*, DOI: 10.1094/PDIS-11-18-1913-PDN. Available online, **I.F. 2.98**.
8. Moosa, A., **Farzand, A.**, Ahmad, T., Khan, S.A., Gleason, M.L., Abbas, H., Khan, W.A., Jabbar, A., Mohsan, M. (2019). First report of Fusarium rot of Phalsa (*Grewia asiatica*) caused by *Fusarium solani* in Pakistan. *Plant Disease*, DOI: 10.1094/PDIS-04-19-0688-PDN. Available online. **I.F. 2.98**.
9. Ahmad, T., Liu, Y., Moosa, A., **Farzand, A.**, Zhao, Y., Wang, W., (2019). First report of *Alternaria alternata* causing post-harvest fruit rot of *Syzygium cumini* (Jamun) in Pakistan. *Plant Disease*, DOI:10.1094/PDIS-04-19-0858-PDN. Available online. **I.F. 2.98**.
10. Moosa, A., **Farzand, A.**, Abbas, M.F., Sahi, S.T., Khan, S.A., Gleason, M.L., 2019. First report of *Alternaria* brown spot of *Citrus reticulata* cv. 'Kinnow' caused by *Alternaria arborescens* in Pakistan. *Journal of Plant Pathology*, DOI: 10.1007/s42161-019-00374-8 Available online. **I.F. 0.98**.
11. Massawe, V.C., Hanif, A., **Farzand, A.**, Mburu, D.K., Ochola, S.O., Wu, L., Tahir, H.A.S., Gu, Q., Wu, H. and Gao, X., (2018). Volatile Compounds of Endophytic *Bacillus* spp. have Biocontrol Activity Against *Sclerotinia sclerotiorum*. *Phytopathology*, DOI: 108:12:1373-1385. Available online, **I.F. 3.264**.
12. Moosa, A., **Farzand, A.**, Sahi, S.T., Gleason, M.L., Khan, S.A., Zhang, X., (2018). First report of postharvest fruit rot of *Citrus reticulata* cv. Kinnow caused by *Penicillium expansum* in Pakistan. *Plant Disease*. Available online. **I.F. 2.98**.

13. Moosa, A., **Farzand, A.**, Sahi, S.T. and Khan, S.A. (2017). Transgenic expression of antifungal pathogenesis-related (PR) proteins against Phytopathogenic fungi- 15 years of success. *Israel Journal of Plant Sciences*, 1-17. Available online, **I.F. 0.67**.
14. Moosa, A., Sahi, S.T., Haq, I.U., **Farzand, A.**, Khan, S.A. and Javaid, K., (2017). Antagonistic Potential of *Trichoderma* Isolates and Manures Against Fusarium Wilt of Tomato. *International Journal of Vegetable Science*. 23(3), 207-218.
15. Shoaib, M., Moosa, A., Sarfraz, M., **Farzand, A.**, Ishaq, U., Ahmad, T., (2017). Post-inoculation Application of Fungicides to Manage *Alternaria raphani* on Radish. *International Journal of Vegetable Science*. 24, 105-114.
16. Sarfraz, M., Khan, S.A., Moosa, A., **Farzand, A.**, Ishaq, U., Naeem, I., Khan, W.A., (2017). Promising antifungal potential of selective *Trichoderma* isolates, botanical extracts and fungicides against *Alternaria solani*. *Cercetari Agronomice in Moldova*. 51, 65-74.
17. Chaudhary, M.Z., Majeed, S., Tayyib, M., Javed, N., **Farzand, A.**, Moosa, A., Shehzad, M. and Mushtaq, F. (2017). Antagonistic potential of *Steinernema kraussei* and *Heterorhabditis bacteriophora* against Dengue fever vector *Aedes aegyptii*. *Journal of Entomology and Zoology Studies*. 5(5), 865-869.
18. **Farzand, A.**, Moosa, A., Jabbar, A., and Khan, A. R., (2016). Classical and Modern Strategies to Enhance Plant Disease Resistance Against Fungi- A Review. *Research & Reviews: Journal of Agriculture and Allied Sciences*. 5(2), 17-22. Available online.
19. Khan, A.R., Ijaz, M., Haq, I.U., **Farzand, A.** and Tariq Javed, M., (2014). Management of Cercospora Leaf Spot of Groundnut (*Cercospora Arachidicola* & *Cercosporidium Personatum*) Through the use of Systemic Fungicides. *Cercetari Agronomice in Moldova*. 47(2):97-102.

Publications in National Journals.

20. Shafiq, M., Khan, M.A., Hussain, S., Sajjad, M., Farzand, A., Moosa, A., Jabbar, A., Khan, A.R., Akhtar, S., Binyamin, R., (2017). Relationship of meteorological variables and inoculation techniques conducive for loose smut of wheat development. *Pakistan Journal of Phytopathology*, 29(1), 145-152.

21. Moosa, A., **Farzand, A.**, Anjum, M.Z., (2016). *In vitro* evaluation of Botanical Extracts and Fungicides against Phytophthora Blight of Chilli Pepper (*Capsicum annum* L.). Pakistan Journal of Phytopathology, 28(2), 201-206.

ABSTRACTS:

1. Moosa, A., **Farzand, A.**, Zohaib, S., (2015). *In vitro* evaluation of plant extracts and chemicals against *Phytophthora capsici* associated with Phytophthora fruit rot of pepper. 5th International Conference of Pakistan Phytopathological Society (ICPPS) “Crop Protection for Sustainable Agriculture”. Oral. Presentation. Pp. 135.
2. Moosa, A., **Farzand, A.**, Sahi, S.T., Haq, I.U., Khan, S.A., Javaid, k., Naeem, I., Safdar, H., (2015). 5th International Conference of Pakistan Phytopathological Society (ICPPS) “Crop Protection for Sustainable Agriculture”. Pp. 171.

RESEARCH EXPERTISE:

- Plant Mycology.
- Plant Bacteriology.
- Biological management of Phytopathogens.
- Organic management of Phytopathogens.
- Millipore extraction.
- Biochemical Profiling.
- Vegetable Disease management.
- Fruit Disease management.
- Post-harvest Disease management.
- Spectrophotometry.
- High Performance Liquid Chromatography.
- Liquid chromatography and mass spectrometry analysis.
- Gas Chromatography.
- qRT-PCR analysis.
- MALDI-TOF analysis.
- Scanning electron microscope (SEM).
- Transmission electron microscope (TEM).

LANGUAGE PROFICIENCY:

- Proficient in English, Urdu, Saraiki and Punjabi languages

DIGITAL EXPERTISE:

- EndNote
- Microsoft Office
- Web Browing
- SPS, Satisfix
- BioEdit
- Mega7
- Snap gene
- Adobe photoshop
- Graphpad prism

INTERESTS:

- Research
- Debating
- Journal Management
- Scientific Writing

REFERENCES:

1. Dr. Xuewen Gao

Professor of Plant Pathology (Biological control & Bacterial molecular Biology),
Department of Plant Pathology,
Nanjing agricultural university, China.

Email: gaowx@njau.edu.cn

Mobile: +86-13851894318

2. Dr. Younes Yousef Mawlan

Professor of Plant Pathology,
Plant Protection Department,
College of Food & Agricultural Sciences,
King Saud University, Riyadh.

E.mail: mawlan@ksu.edu.sa

Tel: + 966-1-4678433