



PERSONAL INFO**Faisal Shahzad**

 Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan

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Objective

Screening of citrus genotypes and developing fertilization strategies that can help in maintaining tree health and productivity under Huanglongbing conditions. In addition, modifying CA/MAP technology to maintain fruit quality and postharvest storage life in different fruit crops.

EDUCATION

Jan, 2017 – Aug 2020

Ph.D. in Horticultural Sciences

CGPA 3.63/4.00, University of Florida, USA

Research project titled as “Role of mineral nutrition in improving tree health, fruit quality, and postharvest storage life of Huanglongbing-affected mandarin cultivars”

Sep, 2014 – Dec, 2016

MSc. (Hons.) in Horticulture

CGPA 3.90/4.00, University of Agriculture, Faisalabad, Pakistan

Research project titles as “Influence of hot water phytosanitary treatments on quality of ‘Sindhri’ mango fruit kept under cold and CA storage condition”

Sep, 2010 – Aug, 2014

BSc. (Hons.) in Agriculture Sciences

CGPA 3.98/4.00, Awarded with Silver Medal, University of Agriculture, Faisalabad, Pakistan

Agricultural Sciences subjects; Horticulture, Agronomy, Crop Physiology, Soil Science, Plant Pathology, Agri Economics, Advanced Botany etc.

Projects

- Influence of controlled atmosphere/ modified atmospheric packaging in extending storage life of tree-ripe mango cultivars Tommy Atkins and Keitt.
- Effect of ethylene degreening treatment on limonoids and sensory quality at harvest and during postharvest storage of fruit from Huanglongbing-affected mandarins 'LB8-9' and 'Tango'.
- Role of K, Ca, and B on limonoids and sensory quality at harvest and during postharvest storage of fruit from Huanglongbing-affected mandarins 'LB8-9' and 'Tango'.
- Role of K, Ca, and B in improving tree antioxidant defensive mechanism in Huanglongbing-affected mandarins 'LB8-9' and 'Tango'.
- To evaluate the effects of fungicide treatment and postharvest degreening followed by storage under refrigerated or room temperature conditions on field-grown HLB-affected 'Tango' fruit and CUPS-grown healthy 'Tango' fruit.
- Combined effect of preharvest foliar-applied mineral nutrition treatments and postharvest ethylene degreening treatment on fruit quality and postharvest storage life of Huanglongbing -affected mandarin 'Tango'.
- Role of K, Ca, and B in improving fruit quality and postharvest storage life of Huanglongbing-affected mandarins 'LB8-9' and 'Tango'.
- Effect of ethylene degreening treatment on fruit quality and postharvest storage life of Huanglongbing-affected mandarins 'LB8-9' and 'Tango'.
- HLB interaction with fruit quality and postharvest storage life of Huanglongbing-affected mandarin 'LB8-9' and 'Tango'.
- Effect of growing media pH on performance of Huanglongbing-affected young citrus plants grown in Hydroponic.
- Nutrient uptake differences in healthy and Huanglongbing-affected sweet orange plants.

Publications

- Shahzad, F., Chun, C., Schumann, A. and Vashisth, T., 2020. Nutrient uptake in huanglongbing-affected sweet orange: Transcriptomic and physiological analysis. *Journal of the American Society for Horticultural Science*, 145(6), pp.349-362.
- Shahzad, F., Kadyampakeni, D.M. and Vashisth, T., 2021. Effect of Growing Media pH on Performance of Huanglongbing-Affected Young Citrus Trees. *Agronomy*, 11(3), p.439.
- Shahzad, F., Vashisth, T., Ritenour, M.A. and Brecht, J.K., 2022. Quest for desirable quality of Tango Mandarin in the citrus greening era: The promise of integrated approaches. *LWT*, 161, p.113321.
- Shahzad, F., Vashisth, T., Ritenour, M.A. and Brecht, J.K., 2023. Huanglongbing disease symptoms and the postharvest quality of 'LB8-9'(Sugar Belle®) and 'Tango' mandarins as affected by ethylene treatment. *Scientia Horticulturae*, 310, p.111766.

Abstracts Published

- Shahzad, F., Brecht, J.K., Wang, Y., Gmitter, F., Ritenour, M.A. and Vashisth, T. Effect of ethylene de-greening treatment on fruit quality and postharvest storage life of HLB-affected mandarin cultivars. *Annual conference of the Southern Region of American Society of Horticultural Science*. Feb, 2020.
- Shahzad, F., Brecht, J.K., Wang, Y., Gmitter, F., Ritenour, M.A. and Vashisth, T. Role of Mineral Nutrition in Citrus Fruit Quality and Postharvest Storage Life of HLB-Affected Mandarin Cv. LB8-9 (Sugar Belle®). *Annual conference of the American Society of Horticultural Science*. Aug, 2019.
- Shahzad, F., D.M. Kadyampakeni and T. Vashisth. Effect of growing media pH on nutrient uptake in Huanglongbing-affected young citrus plants grown in hydroponic. *Annual conference of the American Society of Horticultural Science*. Aug, 2018.
- Shahzad, F., J.K. Brecht, M.A. Ritenour and T. Vashisth. Effect of ethylene degreening treatment on fruit quality and postharvest storage life of Huanglongbing-affected mandarin cultivars. *Annual conference of the Florida State Horticultural Society*. Jun, 2018.
- Shahzad, F., C. Chun, A. Schumann and T. Vashisth. Nutrient uptake of Huanglongbing-affected sweet orange plants. *VIII ISHS Symposium on mineral nutrition of fruit crops*. Jun, 2017.
- Shahzad, F., C. Chun, A. Schumann and T. Vashisth. Differences in nutrient uptake of healthy and Huanglongbing affected sweet orange plants. *Annual conference of the Florida State Horticultural Society*. Jun, 2017.

Oral Presentations

- “Quest for attractive peel color of Florida-grown Tango mandarin in HLB era: The promise of integrated approaches”. *Annual conference of the American Society of Horticultural Science*. Denver, Colorado. Aug, 2021.
- “Effect of ethylene degreening treatment on fruit quality and postharvest storage life of Huanglongbing-affected cv. LB8-9”. *Annual conference of Southern Region American Society of Horticultural Science*. Louisville, Kentucky. Feb, 2020.
- Shahzad, F., Brecht, J.K., Wang, Y., Gmitter, F., Ritenour, M.A. and Vashisth, T., 2019, July. Role of Mineral nutrition in citrus fruit quality and postharvest storage life of HLB-affected mandarin Cv. LB8-9 (Sugar Belle®). *Annual conference of the American Society of Horticultural Science*. Las Vegas, Nevada, 2019.
- “Effect of growing media pH on nutrient uptake in Huanglongbing-affected young citrus plants grown in hydroponic”. *Annual conference of the American Society of Horticultural Science*. Washington, D.C., Aug, 2018.
- “Effect of ethylene degreening treatment on fruit quality and postharvest storage life of Huanglongbing-affected mandarin cultivars”. *Annual conference of the Florida State Horticultural Society*. Fort Lauderdale, Florida, Jun, 2018.
- “Differences in nutrient uptake of healthy and Huanglongbing-affected sweet orange plants: Roots Transcriptomic studies. *South-eastern Professional Fruit Workers Conference*. Ashville, North Carolina, Oct, 2017.
- “Nutrient uptake differences in Huanglongbing affected sweet orange plants”. *Annual conference of the Florida State Horticultural Society*. Tampa, Florida, Jun, 2017.

Awards

- Faculty Development Scholarship from University of Agriculture, Faisalabad, Pakistan to peruse Ph.D. in University of Florida, USA.
- Yara North America Crop Innovation Scholarship, CALS Graduate Student Scholarship for 2017-2018 and 2018-2019 from University of Florida, USA.
- FSHS-Student Scholarship 2017 and 2018 form Florida State Horticultural Society.

WORK EXPERIENCE

Feb 2023- Present

Assistant Professor

Institute of Horticultural Sciences Department, University of Agriculture, Faisalabad, Pakistan

Sep 2020 – Jan 2023

Ph.D. Advance Training/ Postdoctoral Researcher

Horticultural Sciences Department, University of Florida, USA

Sep 2015 – Dec 2016

Lecturer

University of Agriculture, Faisalabad, Punjab, Pakistan

I am responsible for teaching Hort-316 (GAP; Good Agricultural Practices); Hort-413 (Harvest and Handling of Horticultural Crops); Hort-102 (Introductory Horticulture) etc. with basic research work.

Mar - Jun, 2014

Internee

AGRICULTURE POLY –TECHNIQUE INSTITUTE, National Agriculture Research Center (NARC), Islamabad

Conducted a project titled, “To investigate the influence of foliar application of micro nutrients sources on fruit setting and productivity of citrus (rough lemon)”

An active member in different research projects in NARC such as Effect of different doses of GA₃ on the postharvest shelf life of strawberry, vegetative propagation techniques on citrus, grapes, pomegranate and pear.

Jul - Sep, 2012

Internee

BARI, Chakwal, Punjab, Pakistan

An active member on training program titled, “Land and water management technologies”

Different methods to store rain water and its utilization for future use. Potential of balanced nutrition and best management techniques in removal of hazardous chemical percentages in sodic and saline soil.

Jun - Sep, 2011

Internee

BARI, Chakwal, Punjab, Pakistan

An active member on the training course relating to Soil Science titled, “Efficient resources management of sustainable agriculture”

Different methods to evaluate the soil composition including visual, physical and chemical partitioning of soil components. Evaluation of nutrients sources in different soils and methods of its separation.

REFEREES

- 1) Dr. Ahmad Sattar Khan (Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan; ahmad_khan157@yahoo.com)

