

DR. SAKREENA TUL AIN HAIDER



ACADEMIC QUALIFICATION

Name of Degree	Subject	Institution	Passing Year	Thesis/ Research Title
Ph.D	Horticulture	University of Agriculture, Faisalabad	2016	Postharvest Storage and Quality Management of Citrus cv 'Kinnow' Mandarin (<i>Citrus nobilis</i> Lour × <i>Citrus deliciosa</i> Tenora)
M.Sc (Hons.)	Horticulture	University of Agriculture, Faisalabad	2011	Interspecific Crossing and Embryo Culture in Feutrell's Early and Sweet Orange Cultivars
B.Sc. (Hons.)	Agriculture	University of Agriculture, Faisalabad	2009	
F.Sc	Pre Medical	BISE, Lahore	2005	-----
Matriculation	Science	BISE, Lahore	2003	-----

RESEARCH PUBLICATIONS

A. RESEARCH PAPERS

1. Iqra Zakir, Shakeel Ahmad, **Sakeena Tul-Ain Haider**, Talaat Ahmed, Sajjad Hussain, Muhammad Shahzad Saleem, Muhammad Fasih Khalid. 2024. Sweet Pepper Farming Strategies in Response to Climate Change: Enhancing Yield and Shelf Life through Planting Time and Cultivar Selection. Sustainability. 16 (15): 6338.

2. Iqra Zakir, Ahmad Abdul Wahab, Tahira Abbas, **Sakeena Tul-Ain Haider**, Sobia Irum, Samreen Sabir, Sajjad Hussain and Shakeel Ahmad. 2023. Cereal–vegetable intercropping: hindrances and strategies to increase intercropping. Turkish Journal of Agriculture and Forestry: 47(6): <https://doi.org/10.55730/1300-011X.3151>.
3. **Sakeena Tul-Ain Haider**, Muhammad Azam, Safina Naz, Sajjad Hussain, Sajid Ali, Mehwish Liaqat, Muhammad Ali Umer, Muhammad Asif, Maryam Nasir, Zaid Mustafa, Rashid Hussain, Muhammad Azhar Iqbal, Sharoon Masih, Muhammad Tahir Akram, Khalid Naveed. 2023. Postharvest application of gamma irradiation affects fruit quality and antioxidant enzymes activities of ‘kinnow’ mandarin fruits during cold storage. Food Science and Technology. DOI: <https://doi.org/10.1590/fst.113122>.
4. Muhammad Azhar Iqbal, Muhammad Azam, Hina Ali, Qiang Lyu, **Sakeena Tul-Ain Haider**, Mehwish Liaquat, Zarina Ysmin, Muhammad Aqeel Feroz, Muhammad Asif, Muhammad Rizwan Anwer, Muhammad Ali Umer and Muhammad Arslan Khan. 2023. Influence of geographical locations on yield, oil productivity, and fatty acid profile in four cultivars. Emirates Journal of Food and Agriculture. Accepted.
5. Sajjad Hussain, Hamza Sohail, Iqra Noor, Shakeel Ahmad, Shaghef Ejaz, Muhammad Arif Ali, **Sakeen Tul-Ain Haider**, Muhammad Sohail, Hayat Jaffer, Sezai Ercisli, Raphael Morillon & Muhammad Fasih Khalid. 2023. Physiological and biochemical determinants of drought tolerance in tetraploid vs diploid sour orange citrus rootstock. The Journal of Horticultural Science and Biotechnology. <https://doi.org/10.1080/14620316.2023.2192230>.
6. Sajjad Hussain, Hafiza Muzzamil Asif, Shakeel Ahmad, Muhammad Arif Ali, Shaghef Ejaz1, Tahira Abbas, **Sakeena Tul-Ain Haider**, Sezai Ercisli, Talaat Ahmed, Muhammad Sohail, Muhammad Fasih Khalid. 2022. Seed priming alleviates salt stress in two fenugreek (*Trigonella foenum-graecum* L.) Cultivars. Emirates Journal of Food and Agriculture. 2022. 34(8): 650-657.
7. Safina Naz, Ahmer Bilal, Bushra Saddiq, Shaghef Ejaz, Sajid Ali, **Sakeena Tul-Ain Haider**, Hassan Sardar, Bushra Nasir, Ishtiaq Ahmad, Rahul Kumar Tiwari, Milan Kumar Lal, Awais Shakoor, Mohammed Naseer Alyemeni, Naveed Mushtaq and Muhammad Ahsan Altaf. 2022. Foliar application of salicylic acid improved growth, yield, quality and photosynthesis of Pea (*Pisum sativum* L.) by

improving antioxidant defense mechanism under saline conditions. Sustainability. <https://doi.org/10.3390>.

8. Hira Faiz, Obaidullah Khan, Irfan Ali, Tanveer Hussain, Choudhary Muhammad Ayyub, Muhammad Shafique, **Sakeena Tul- Ain Haider**, Tahira Siddique, Ijaz Ahmad, Mehwish Liaquat and Anam Noor. 2022. Foliar application of triacontanol ameliorates heat stress through regulation of the antioxidant defense system and improves yield of eggplant. Brazilian Journal of Biology. 84, Accepted; In Press.
9. Sajid Ali, Muhammad Akbar Anjum, Aamir Nawaz, Mehmood Ul Hasan, Safina Naz, Shaghef Ejaz and **Sakeena Tul-Ain Haider**. 2021. Crosstalk of hydrogen sulfide with melatonin and nitric oxide in ripening of fruits. In: Hydrogen Sulfide in Plant Biology: Past and Present. Published by Elsevier. In Press.
10. Tazeem Haider, Muhammad Shahid Farid, Rashid Mahmood, Areeba Ilyas, Muhammad Hassan Khan, **Sakeena Tul-Ain Haider**, Muhammad Hamid Chaudhry and Mehreen Gul. 2021. A computer-vision-based approach for nitrogen content estimation in plant leaves. Agriculture. 11, 766. <https://doi.org/10.3390/agriculture11080766>.
11. Safina Naz, Muhammad Usman Latif, **Sakeena Tul-Ain Haider**, Sajid Ali, Hassan Sardar, Riaz Ahmad and Muhammad Akbar Anjum. 2021. Potential of Foliar application of micronutrients on growth, yield, quality and nutraceutical properties of Pea (*Pisum sativum* L.) using multivariate approach. 2021. Pakistan Journal of Botany. 54(3): DOI: [http://dx.doi.org/10.30848/PJB2022-3\(9\)](http://dx.doi.org/10.30848/PJB2022-3(9)).
12. Muhammad Azam, Riadh Ilahy, Jiyuan Shen, Rashad Qadri, Muhammad Azhar Iqbal, Zarina Yasmin, **Sakeen-Tul-Ain Haider**, Muhammad Arslan Khan, Muhammad Jafar Jaskani, Aman Ullaha Malik Sajjad Hussain, Muhammad Awais Ghani, Aqeel Feroz. 2021. Exogenous calcium nitrate application delays senescence, enhance nutraceutical properties and antioxidant defense system during storage. Emirates Journal of Food and Agriculture. 2021. 33(10): 852-862.
13. Sajid Ali, Muhammad Akbar Anjum, Aamir Nawaz, Safina Naz, Shaghef Ejaz, Muhammad Shahzad Saleem, **Sakeena Tul-Ain Haider**, Mahmood Ul Hasan. 2021. Effect of gum arabic coating on antioxidative enzyme activities and quality of apricot (*Prunus armeniaca* L.) fruit during ambient storage. <https://doi.org/10.1111/jfbc.13656>.

14. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Muhammad Akbar Anjum, Safina Naz, Mehwish Liaquat , Bushra Saddiq. 2021. Effects of different postharvest techniques on quality management and shelf life of ‘Kinnow’ mandarin fruit. Journal of Food Measurement and Characterization. <https://doi.org/10.1007/s11694-021-00820>.
15. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Ahmad Sattar Khan, Muhammad Akbar Anjum, Maryam Nasir, Safina Naz. 2020. Effects of salicylic acid on postharvest fruit quality of “Kinnow mandarin” under cold storage. Scientia Horticulturae. 259: 108843.
16. Hasan Sardar, Muhammad Akbar Anjum, Aamir Nawaz, Safina Naz, Shaghef Ejaz, **Sakeena Tul-Ain Haider**. 2020. Effect of different agro-wastes, casing materials and supplements on the growth, yield and nutrition of milky mushroom (*Calocybe indica*). Folia Horticulturae 32 (1), 1-10.
17. Safina Naz, Muhammad Akbar Anjum, Bushra Siddique, Syed Atif Hasan Naqvi, Ali Sajid, Hassan Sardar, **Sakeena Tul Ain Haider**, Muhammad Asif Zulfiqar, Hajra Azeem, Sibghat Ullah, Shah Pasand, Zehri Khan. 2020. Effect of Sewage Water Irrigation Frequency on Growth, Yield and Heavy Metals Accumulation of Tomato and Okra. Pakistan Journal of Agricultural Research. 33:798-809.
18. Safina Naz, Muhammad Akbar Anjum and **Sakeena Tul Ain Haider**. 2019. Effect of Different Irrigation Sources on Growth, Yield and Heavy Metals Accumulation in Tomato and Okra. Journal of Horticultural Science and Technology 2(1): 10-19.
19. Sajid Ali, Aamir Nawaz, Shaghef Ejaz, **Sakeena Tul-Ain Haider**, Muhammad Waqar Alam, Hafiz Umer Javed. 2019. Effects of hydrogen sulfide on postharvest physiology of fruits and vegetables: An overview. Scientia Horticulturae. 243: 290-299.
20. Muhammad Umar, Saeed Ahmad, **Sakeena Tul-Ain Haider** and Safina Naz. 2019. Effect of pruning to improve yield and fruit quality of ‘Kinnow’ mandarin plants under high density plantation. Journal of Horticultural Science and Technology 2(3): 85-89.
21. Maryam Nasir, Ahmad Sattar Khan, Shahzad M.A. Basra, **Sakeena Tul-Ain Haider**, Sitwat Riaz and Nida Mahreen, 2018. Integrative Application of Biostimulants and Nutrients Improves Vegetative Growth Of “Kinnow” Mandarin. International Journal of Agriculture and Biology. 20: 2797-2804.

22. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Ahmad Sattar Khan and Shahzad .M.A. Basra. 2017. Comparison of Different Fruit Coatings to Enhance the Shelf Life of Kinnow Mandarin. Pakistan Journal of Agricultural Sciences 53 (3): 35-44.

B. RESEARCH ABSTRACTS

1. **Sakeena Tul-Ain Haider**, Ayesha Ghaffar, Aamir Nawaz, Safina Naz, Muhammad Ammar Raza and Bushra Hussain. 2023. Effects of Different Growth Hormone Combinations for Rapid *In vitro* Plant Regeneration of Tomato Plant. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
2. Shahid Iqbal, **Sakeena Tul-Ain Haider**, Sajjad Hussain, Anam Noor and Mehwish Liaquat. 2023. Nutripriming affects plant growth performance, yield and quality parameters of different okra cultivars. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
3. Anam Noor, Aamir Nawaz, Safina Naz, Khurram Ziaf, **Sakeena-tul-Ain Haider** and Mehwish Liaquat. 2023. Effect of different packaging materials on the seed quality of onion (*Allium cepa* L.) during storage period. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
4. Kishwar Jam, Hasan Sardar, Sajid Ali, Safina Naz, Aamir Nawaz, Shaghef Ejaz, Sajjad Hussain, **Sakeena tul Ain Haider** and Haider Ali. 2023. Effect of melatonin on growth, yield, physiological and biochemical properties of broccoli (*Brassica oleracea* L.) under salt stress. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
5. Sana Mudassar, Safina Naz, Shaghef Ejaz, Sajid Ali, **Sakeena tul Ain**, Anam Noor and Hassan Sardar. 2023. Effect of moringa leaf extract during seed priming on the quality of ridge gourd (*Luffa actangula*) seed. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
6. Tanzeela Iqbal, Mehwish Liaquat, Muhammad Azam Khan, Naveed-ur-Rehman, Najma Yousaf Zahid, Muhammad Tahir Akram, Arslan Afzal, **Sakeena Tul- Ain- Haider** and

- Sehrish Ibrar. 2023. Effect of chitosan coating on quality management and shelf life of peach (*prunus persica*) fruits. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
7. Mehwish Liaquat, Muhammad Azam Khan, Muhammad Tahir Akram, Sarvet Jehan, Naveed Ur Rehman, Tanveer Hussain, **Sakeena Tul- Ain Haider**, Anam Noor and Aliya Hanif. 2023. Postharvest dipping in salicylic acid improves storability and reduces the decay of Kinnow mandarin by maintaining the antioxidative enzymatic activities. 7th International Horticulture Conference (Sustainable Horticulture; Challenges, Innovations and Adaptations). Feb, 23-25, 2023. MNS-University of Agriculture, Multan Pakistan.
 8. Mehwish Liaquat, M.A. Khan, M.T. Akram, N.U. Rehman, A. Noor, **Sakeena Tul-Ain Haider**, S. Jahan and T. Hussain. Testing feasibility of aquaponics in farming poor community of Pothohar. International Horticulture conference, Feb, 23-25, 2022. Gomal University, D.I. Khan Peshawar, Pakistan.
 9. Sajjad Hussain, Hafiza Muzamil Asif, Muhammad Akbar Anjum, Farrukh Naveed, Aamir, Nawaz, Safina Naz, Khalid Masood Ahmad, Shaghef Ejaz, **Sakeena Tul-Ain Haider**, Hassan, Sardar, and Sajid Ali. 2020. Alleviation of salt stress in trigonella (*Foenum-graecum* L.) through different seed priming techniques. International Horticulture Conference (Revolutionizing Horticulture for secure future) February 26-28, 2020. University of Punjab, Lahore.
 10. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Muhammad Akbar Anjum, Aamir Nawaz and Safina Naz. 2019. Comparison of different non chemical techniques to maintain the shelf life, antioxidant activities and bioactive compounds of mandarin fruit. International Horticulture conference, Feb, 26-28, 2019.
 11. Safina Naz, Muhammad Akbar Anjum, **Sakeena Tul-Ain Haider** and Muhammad Saqib. 2019. Effect of different irrigation sources on growth, yield and heavy metals accumulation in some summer vegetables. International Horticulture conference, Feb, 26-28, 2019.
 12. Maryam Tahira, Sajjad Hussain, Muhammad Akbar Anjum, Aamir Nawaz, Farrukh Naveed, Safina Naz, Khalid Masood, Shaghef Ejaz, Hassan Sardar, **Sakeena Tul-Ain Haider**, Sajid Ali, Muhammad Sohail and Muhammad Fasih Khalid. 2019. Water logging induced changes in oxidative stress and antioxidant enzyme activities in grafted

and non- grafted citrus rootstocks. International Horticulture conference, Feb, 26-28, 2019.

13. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Ahmad Sattar Khan, Muhammad Akbar Anjum, Aamir Nawaz, Shaghef Ejaz and Safina Naz. 2018. Post-harvest salicylic acid application controls fruit rot, improves storage life and antioxidant profiles of Kinnow mandarin fruits during long term cold storage. International Horticultural Conference. April, 25-27, 2018.
14. Jahanzaib Qamar, **Sakeena Tul-Ain Haider** Hassan Sardar, Ammar Azeez, Farrukh Naveed, Muhammad Ali, Shaghef Ejaz. 2018. Comparison between alginate, aloe vera and chitosan edible coatings for maintaining biochemical and nutritional profile of stored strawberry fruits. International Horticultural Conference. April, 25-27, 2018.
15. Muhammad Ammar Raza, Aamir Nawaz, Madiha Zaynab, **Sakeena Tul-Ain Haider** and Shaghef Ejaz. 2018. In vitro regeneration and development of *S. Lycopersicum* and *S. Pimpinellifolium* from two different explants. International Horticultural Conference. April, 25-27, 2018.
16. Safina Naz, Hassan Sardar, **Sakeena Tul-Ain Haider** and Riaz Ahmad. 2018. Effect of sowing dates on growth and yield of Spinach (*Spinacia oleracea*). International Horticultural Conference. April, 25-27, 2018.
17. Hassan Sardar, Aamir Nawaz, Safina Naz, **Sakeena Tul-Ain Haider** and Nauman Yousuf. 2018. Effect of chemicals on postharvest longevity, vase life quality and water uptake of 'Gladiolus grandiflorus' white prosperity. International Horticultural Conference. April, 25-27, 2018.
18. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Ahmad Sattar Khan, Shahzad .M.A. Basra and Naseem Akhter. 2016. "Effects of pre-storage treatment of gamma radiation on storage life of sweet orange (*Citrus sinensis* osbeck) cv. 'Mosambi' during cold storage. 2nd International Conference on Horticultural Sciences. Feb, 18-20 2016.
19. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Ahmad Sattar Khan and Shahzad .M.A. Basra. 2015. "Higher concentrations of radiation reduce the fruit rot and maintain the phenolics, antioxidants and enzymes in fruit of 'Kinnow' mandarin during long term cold storage". International Conference on Citriculture Challenges and Management. Feb, 11-13. 2015.
20. Muhammad Usman, **Sakeena Tul-Ain Haider**, B. Fatima, Sadia Yasin and Safdar Ali. 2014. "Musambi orange pollen parent enhanced fruit quality in Feutrell's Early mandarin. International Conference of Plant Sciences. September, 22-24. 2014.

21. **Sakeena Tul-Ain Haider**, Saeed Ahmad, Ahmad Sattar Khan, Shahzad .M.A. Basra and Maryam Nasir. 2013. Gamma radiation maintains the fruit quality of Sweet orange (*Citrus sinensis* Osbeck) cv. “Mosambi” during cold storage. National conference on prospects and opportunities for agricultural development in Pakistan. 25- 27 June, 2013.

C. BOOKLETS/ BROCHURES

1. A handbook on “Agriculture Citrus Processing. 2017. National Vocational and Technical Training Commission. Islamabad, Pakistan.
2. Drip irrigation management in Citrus orchards. 2013. Institute of Horticultural Sciences, University of Agriculture, Faisalabad (Booklet in Urdu)

PRESENTATIONS IN SEMINAR/CONFERENCES

1. **Oral presentation** entitled “Effects of Different Growth Hormone Combinations for Rapid In vitro Plant Regeneration of Tomato Plant in “7th International Horticulture Conference” 2023 held at Muhammd Nawaz Sharif University of Agriculture Multan organized by the Department of Horticulture on Feb 23-24, 2023.
2. **Poster Presentation Oral presentation** entitled “nutripriming affects plant growth performance, yield and quality parameters of different okra cultivars” in 7th International Horticulture Conference” 2023 held at Muhammd Nawaz Sharif University of Agriculture Multan organized by the Department of Horticulture on Feb 23-24, 2023.
3. **Poster Presentation** entitled “Post-harvest salicylic acid application controls fruit rot, improves storage life and antioxidant profiles of Kinnow mandarin fruits during long term cold storage”. International Horticultural Conference. April, 25-27, 2018.
4. **Poster Presentation** entitled “Comparison between alginate, aloe vera and chitosan edible coatings for maintaining biochemical and nutritional profile of stored strawberry fruits”. International Horticultural Conference. April, 25-27, 2018.
5. **Oral Presentation** entitled “Comparison of different non-chemical techniques to maintain the shelf life, antioxidant activities and bioactive compounds of Kinnow mandarin fruit” International Horticulture Conference 2019. February 26-28, 2019.
6. **Oral presentation** entitled “Effects of pre-storage treatment of gamma radiation on storage life of sweet orange (*Citrus sinensis* osbeck) cv ‘Mosambi’ during cold storage”. 2nd International Conference on Horticultural Sciences. Feb, 18-20 2016.

7. **Oral presentation** entitled “Higher concentration of radiation reduced the fruit rot and maintain the phenolics, antioxidants and enzymes in fruit of ‘Kinnow’ mandarin during long term cold storage”. International Conference on Citriculture Challenges and Management. Feb, 11-13. 2015.
8. **Oral presentation** entitled “Gamma radiation maintains the fruit quality of Sweet orange (*Citrus sinensis* Osbeck) cv. “Mosambi” during cold storage. National conference on prospects and opportunities for agricultural development in Pakistan. 25- 27 June, 2013.

TRAINING/ WORKSHOP CERTIFICATES

1. 8th International Horticulture Conference and Horti Expo South Punjab (HCE-2024) held on February, 26-28- 2024 at Department of Horticultural Sciences, The Islamiya University of Bahawalpur, Punjab, Pakistan
2. One day webinar on “Recent Advances in Applied Botany” held on April, 18-2023 Organized by Dr. Sultan Ahmad Botanical Society, GC University Lahore
3. One day webinar on “Impact of Urban Green Spaces on Human’s well being” held on April, 17-2023 Organized by Dr. Sultan Ahmad Botanical Society, GC University Lahore
4. One day International webinar on “Postharvest Management and Storage of Tomato Crop” held on April, 13-2023; Organized by Horticultural Society, GC University Lahore
5. 7th International Horticulture Conference 2023 held on February, 23-25- 2023 at Department of Horticulture, MNS University of Agriculture, Multan
6. International Conference on “Urban Horticulture: Global Scenario and Local Prospects” held at PMAS-Arid Agriculture University, Rawalpindi organized by the Department of Horticulture on June, 23-24, 2022.
7. Certificate of Participation in “International webinar on Rooftop Gardening” held on April, 15- 2022 at UAF sub campus Depalpur, Okara
8. Certificate of Participation in “National conference on Soil Degradation: An alarming threat to food security & environment held on March, 3-4 2022 at Department of Soil Science, BZU, Multan

9. Certificate of Participation in “2nd International Conference on Smart Plant Protection” March, 9-10, 2022 at Institute of Plant Protection MNS- University of Agriculture, Multan
10. Spring Festival Contest Organizer March, 21-23, 2022 UAF sub campus Depalpur, Okara
11. Certificate of Participation in “1st International conference on “Recent Approaches in Plant Sciences (RAPS-2022)” March , 30-31, 2022 Department of Botany, University of Education, Lahore, Pakistan
12. Certificate of Participation in “Diversification, Value Addition Supply Chain Management of Floriculture Industry” held on March, 24-25, 2022 at Institute of Horticultural Sciences, University of Agriculture, Faisalabad
13. Certificate of participation and oral presentation in “International Horticulture Conference 2019, Pakistan” held on Feb. 26-28, 2019 at Department of Horticulture, Bahauddin Zakariya University, Multan
14. Certificate of participation in “International Horticulture Conference 2018” held on Feb. 25-27, 2018 at Department of Horticulture, PMAS, Arid University Rawalpindi
15. Certificate of participation in “International Seminar on Biochar Use In Changing Climate” held on October, 5 2018 organized by Department of Soil Science and Department of Agronomy, Bahauddin Zakariya University Multan
16. Certificate of participation in “6th International Conference of Pakistan Phytopathological Society” held on November, 20-22, 2017 at Department of Plant Pathology, FAS & T. Bahauddin Zakariya University Multan
17. Certificate of participation in “2nd International Conference on Horticultural Sciences” held on February, 18-20, 2016 at Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan
18. Certificate of participation in “Floral Workshop” held on April, 12, 2017 at Department of Horticulture, FAS & T. Bahauddin Zakariya University Multan
19. Awarded by a certificate of appreciation for outstanding participation in “Training of Master Trainers Workshop Citrus Value Chain held on October, 2015 organized by UNIDO, ASF and CRI.
20. Certificate of participation in “International Conference on Citriculture, Challenges and Management” held on February, 11-13, 2015 at Department of Horticulture, FAS & T. BZU Multan

21. Certificate of participation in 2nd annual workshop on “Scientific Writing and Plagiarism” held on 07-05-2014 at University of Agriculture, Faisalabad, Pakistan
22. Training certificate in postgraduate annual training course on “Safety Measures in Application of Radiation and Isotopes in Agriculture, Health and Industry held on November, 25-29, 2013 at Nuclear institute of Agriculture and Biology (NIAB) Faisalabad, Pakistan

TRAINING EXPERIENCE

- Teaching assistant at Institute of Horticultural Sciences, University of Agriculture, Faisalabad during winter semester 2013-14
- 1 year internship under National Internship program (Pakistan) at agricultural office (Ext.) Sangla Hill, 03-03-10 to 03-03-11
- Three months internship training at ‘Post Harvest Research Centre, AARI, Faisalabad, 09-03-09 to 31-05-09
- One month internship at Department of Horticulture, AARI, Faisalabad, 25-10-08 to 30-11-08
- Completed one month “Weight campaign Program” of Punjab Government during 2008
- Worked on the project entitled “ Effect of 1MCP on postharvest storage and Ethylene production of Tomato during cold storage” at Postharvest Research Center (AARI) Faisalabad (March, 2009-May, 2009)
- Worked with Agriculture office (Extension) Sangla Hill on the “Kitchen Gardening project” offered by Government of Punjab during 2010-11

RESEARCH INTERESTS

- Pre and postharvest Management of citrus fruits
- Pre and Postharvest Handling of Fruits and Vegetables
- Fruit Ripening and Quality Management
- Tissue Culture Techniques in Horticultural Crops
- Value Addition of Fruits

HONORS, AWARDS AND ACADEMIC ASSIGNMENTS

1. Qualified for Performance based Increment as assistant professor for the year 2020-21
2. Awarded by honorarium (exceptional research performance) for the year 2020-21

3. HEC Approved Supervisor
4. Resource Person at **Forest Services Academy, Ghoragali, Murree**
5. HEC Research Project under “Start Up Research Grant Program”
6. HEC Scholarship for PhD under “**Indigenous PhD Fellowship** for 5000 scholars – Phase-II”

PAPERS REVIEWED FOR JOURNALS

1. Scientia Horticulturae
2. International Food Research Journal
3. The Horticulture Journal
4. Acta Physiologiae Plantarum
5. Pakistan Journal of Agricultural Sciences
6. Journal of Pure and Applied Agriculture
7. Journal of Horticulture and Postharvest Research
8. Agriculture- MDPI
9. Journal of Food Measurement and Characterization
10. Journal of Horticultural Science and Biotechnology
11. Journal of Agriculture Research
12. International journal of Environment and Climate Change
13. Journal of Horticultural Science and Technology

MEMBER OF PROFESIONAL SOCIETIES AND COMMITTEES

- Member Abstract Review Committee of International Horticulture Conference, 2019
- Member Entertainment and Culture Committee of International Horticulture Conference, 2019
- Member, Registration, Stage and Proceeding Committee of “International Workshop and Exhibition on Mango” at Bahauddin Zakariya University Multan
- Life Member of Pakistan Society of Horticultural Sciences