

# Journal of Horticultural Science & Technology

Volume 4, Issue 2 (June 2021)



ISSN 2664-9489 (Online)  
ISSN 2617-3220 (Print)



An Official Quarterly Publication of

**Pakistan Society for Horticultural Science**

Also available at: <http://www.pshsciences.org/publications/JHST>

# Editorial Board

## Chief Editor

**Dr. Ahmad Sattar Khan**, Associate Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Punjab, Pakistan (Email: [askhan@uaf.edu.pk](mailto:askhan@uaf.edu.pk))

## Managing Editor

**Dr. Raheel Anwar**, Assistant Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Punjab, Pakistan (Email: [raheelanwar@uaf.edu.pk](mailto:raheelanwar@uaf.edu.pk))

---

## Subject Editors

### ▪ Fruit Crops

**Dr. Muhammad Jafar Jaskani**, Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan (Email: [jjaskani@uaf.edu.pk](mailto:jjaskani@uaf.edu.pk))

### ▪ Vegetables, Aromatic and Medicinal Plants, and Mushroom Production

**Dr. Khurram Ziaf**, Assistant Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Punjab, Pakistan (Email: [khurramziaf@uaf.edu.pk](mailto:khurramziaf@uaf.edu.pk))

### ▪ Floriculture and Landscape

**Dr. Iftikhar Ahmad**, Assistant Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Punjab, Pakistan (Email: [iahmad@uaf.edu.pk](mailto:iahmad@uaf.edu.pk))

### ▪ Postharvest Physiology & Supply Chain Management

**Dr. Aman Ullah Malik**, Professor/Director, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan (Email: [malikaman1@uaf.edu.pk](mailto:malikaman1@uaf.edu.pk))

---

## Advisory Board

▪ **Dr. Zora Singh**, Foundation Professor Horticultural Science, School of Science, Edith Cowan University, Joondalup, Western Australia, Australia (Email: [z.singh@ecu.edu.au](mailto:z.singh@ecu.edu.au))

▪ **Dr. Nguyen Bao Quoc**, Senior Lecturer, Associate Professor, Research Institute for Biotechnology and Environment, Nong Lam University, Linh Trung ward, Thu Duc District, Ho Chi Minh City, Vietnam (Email: [baquoc@hcmuaf.edu.vn](mailto:baquoc@hcmuaf.edu.vn))

▪ **Dr. Shuhua Zhu**, Professor/Vice Dean, Shandong Agricultural University, China (Email: [shuhua@sdau.edu.cn](mailto:shuhua@sdau.edu.cn))

▪ **Dr. Mohamed Mohamed El-Mogy**, Professor, Cairo University, Faculty of Agriculture, Vegetable Crops Department, Giza, Egypt (Email: [elmogy@agr.cu.edu.eg](mailto:elmogy@agr.cu.edu.eg))

▪ **Dr. Noor-un-nisa Memon**, Professor, Department of Horticulture, Faculty of Crop Production, Sindh

Agriculture University, Tandojam, Sindh, Pakistan (Email: [nnmemon@sau.edu.pk](mailto:nnmemon@sau.edu.pk))

▪ **Dr. Sezai Ercişli**, Vice Rector, Department of Horticulture, Agricultural Faculty, Ataturk University, Erzurum, Turkey (Email: [sercisli@atauni.edu.tr](mailto:sercisli@atauni.edu.tr))

▪ **Dr. Mohammad Javed Tareen**, Director General, Balochistan Agriculture Research Institute, Quetta, Baluchistan, Pakistan (Email: [jdt69@yahoo.com](mailto:jdt69@yahoo.com))

▪ **Dr. Ishtiaq Ahmad Rajwana**, Professor/Ex Pro-Vice Chancellor/Chairperson NAEAC, Muhamad Nawaz Shareef University of Agriculture Multan, Punjab, Pakistan (Email: [ishtiaq.rajwana@mnsuam.edu.pk](mailto:ishtiaq.rajwana@mnsuam.edu.pk))

▪ **Dr. Muhammad Akbar Anjum**, Professor, Bahauddin Zakariya University, Multan, Punjab, Pakistan (Email: [akbaranjum@bzu.edu.pk](mailto:akbaranjum@bzu.edu.pk))

---

## Journal Editorial Office

Dr. Ahmad Sattar Khan

Chief Editor JHST

Associate Professor

Institute of Horticultural Sciences

University of Agriculture, Faisalabad

Faisalabad, Punjab 38040, Pakistan

Ph: +92 333 8364813

Email: [askhan@uaf.edu.pk](mailto:askhan@uaf.edu.pk)

---

## Journal Publisher

Pakistan Society for Horticultural Sciences

Institute of Horticultural Sciences

University of Agriculture, Faisalabad

Faisalabad, Punjab 38040, Pakistan

Ph: +92 41 9201086

Email: [jhst@pshsciences.org](mailto:jhst@pshsciences.org)

## Table of Contents

1.	<b>Foliar application of micronutrients enhances growth, flowering, minerals absorption and postharvest life of tuberose (<i>Polianthes tuberosa</i> L.) in calcareous soil</b> <i>Sana Mudassir, Riaz Ahmad and Muhammad Akbar Anjum</i>	41
2.	<b>Pre-harvest oxalic acid application improves fruit size at harvest, physico-chemical and sensory attributes of 'Red Flesh' apricot during fruit ripening</b> <i>Munir Ahmed, Sami Ullah, Kashif Razzaq, Ishtiaq Ahmad Rajwana, Gulzar Akhtar, Ambreen Naz, Muhammad Amin, Muhammad Shafique Khalid and Samina Khalid</i>	48
3.	<b>Effect of oxalic acid on vase life and antioxidative activities of 'Mero Star' cut lily flowers</b> <i>Hafiz Farooq Anwar, Hafiz Muhammad Shoaib Shah, Abdul Waheed, Mudassar Anwar Butt, Hafiz Zafar-ul-Qasim and Asim Bari</i>	56
4.	<b>Evaluation of <i>Capsicum annum</i> L. genotypes against salinity induced by NaCl</b> <i>Muhammad Zohaib Nasir, Mujahid Ali, Saqib Ayyub, Bilal Akram, Rashid Hussain, Zaid Mustafa and Hafiz Muhammad Tayyab Khan</i>	62
5.	<b>Combined application of methyl salicylate and L-arginine alleviates chilling injury, potentiates antioxidant system and maintains quality of sweet pepper (<i>Capsicum Annum</i> L.) fruits cv. 'Winner'</b> <i>Nida Akram, Mahmood Ul Hasan, Rana Naveed Ur Rehman, Rana Muhammad Ateeq Ahmad, Zeeshan Ahmed, Ummara Khan, Faisal Hayat</i>	68
	<b>Guide to Authors</b>	76