



PROF.DR. SAFINA NAZ

Permanent Address: District Layyah Tehsil Karor PO Norey Wala Chak Sahu Wala

Temporary Address: C-17 Agri. Staff Colony Bahauddin Zakariya University, Multan

E-mail: safinanaz@bzu.edu.pk

safina_bzu@yahoo.com

Cell: 0323-6775521

PERSONAL INFORMATIONS

FATHER'S NAME:	CH. MUHAMMAD SIDDIQUE
NATIONALITY:	PAKISTANI
CNIC NO.	36302-7131738-2
DOMICILE:	PUNJAB
RELIGION:	ISLAM
MARITAL STATUS:	Married

EDUCATIONAL SUMMARY

Ph.D. 2016	Department of Horticulture, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University, Multan.
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Title of Research "Toxicological studies on some selected vegetables grown in peri-urban areas of Multan"

M.Sc. (Hons) (Horticulture) (2000)	University of Agriculture, Faisalabad. Horticulture, CGPA 3.98/4.00 (85%)
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Title of Research: "Studies on early onion bulb production through sets under Faisalabad conditions".

B.Sc. (Hons) Agric. 1994-1998	University College of Agriculture, Bahauddin Zakariya University, Multan. (Agriculture (Horticulture) CGPA 3.70/4.00 (78.20%).
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Intermediate (HSSC) 1994 (Pre-Medical)	Degree College for Women Multan (Mark 760/1100).
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Matriculation SSC (Science Group) 1990	Govt. Girls High School New Central Jail Multan (Marks 655/850).
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DISTINCTIONS AND AWARDS

- Member of Departmental Tenure Review Committee (DTRC) for evaluating the performance of Tenure Track System (TTS) Faculty, working in the Department of Horticulture, BZU, Multan.
- Reviewer of various manuscripts in various journals.

- Evaluation Reviewer of CGS Project No.1082
- Notified as External Examination for the evaluation of various M.Phil thesis and viva vice examination of various Universities of Pakistan.
- HEC Approved Ph.D. supervisor
- Qualify the GAT (Graduate Assessment test) General
- Awarded by PhD scholarship under “Indigenous PhD 5000 Fellowship program.
- UGC (University Grant Commission) Scholarship holder throughout M.Sc. (Hons.) degree.
- First position in M.Sc. (Hons.) Horticulture (Silver Medalist).
- First position in B.Sc. (Hons) in Horticulture.
- Qualify the GAT (Graduate Assessment test) General.
- Certificate of services “WOMEN GUARDS” (**The National Cadet Corps**).

SKILLS

Teaching, Conducting Research Trials independently, Knowledge of preparing Briefs, Research and Field Reports, Data Analysis and Scientific Paper Writing.

COMPUTOR SKILLS

M.S.Office, Internet Explorer, Mstat, Minitab and Photo shop, Mstat Statistical Soft ware and Statistic 8.1.

TEACHING EXPERIENCE

April 2001 to September 2003:

Lecturer (Horticulture): University College of Agriculture,
Part time Bahauddin Zakariya University, Multan.

September 2004 to October 2005:

Lecturer (Horticulture): University College of Agriculture,
Contract Bahauddin Zakariya University, Multan.

21st October 2005 to 11th December 2010:

Lecturer (Horticulture): University College of Agriculture,
Permanent Bahauddin Zakariya University, Multan.

12th December 2010 to 12th December 2018:

Assistant Professor of Horticulture Department of Horticulture
Permanent University College of Agriculture,
Bahauddin Zakariya University, Multan.

13th Dec., 2018 to 24th July, 2022

Associate Professor of Horticulture Department of Horticulture
Permanent Faculty of Agricultural Sciences and Technology
Bahauddin Zakariya University, Multan.

25th July, 2022 to date

Professor of Horticulture Department of Horticulture
Permanent Faculty of Agricultural Sciences and Technology
Bahauddin Zakariya University, Multan.

OTHER JOB EXPERIENCE

05-Nov.-2003 to 30-July-2004

Research Associate Office of the Assistant Horticulturist, Horticultural Research Sub-Station
Floriculture and Landscaping Old Shujahabad Road Multan, Pakistan

ADMINISTRATIVE/ MANAGEMENT EXPERIENCE

- 1) 11th April 2019 to Date: Warden, Mariyam Hall Girls Hostel, Bahauddin Zakariya University, Multan, BZU, Multan.
- 2) 6th February 2015 to 10th April 2019: Superintendent, Mariyam Hall Girls Hostel, Bahauddin Zakariya University, Multan, BZU, Multan.
- 3) 1st Sep. 2022 to date: Coordinator for the appointment of part time teachers for B.Sc. (Hons.) Evening Program, Department of Horticulture, Faculty of Agricultural Sciences and Technology, BZU, Multan.

Ph.D (HORTICULTURE) SCHOLARS UNDER SUPERVISION (05)

M.Sc.(HONS)/M.Phil. HORTICULTURE STUDENTS UNDER SUPERVISION

Laiba Ahsan (Session 2021-23)
Hajra Sarwar (Session 2021-23)
Meerab Aman (Session 2022-24)
Haider Bin Naseer (Session 2022-2024)
Sharmeen Mahmood (Session 2022-2024)
Muhammad Awais Rasheed (Session 2022-2024)

M.Sc. (HONS)/ M.Phil HORTICULTURE STUDENTS SUPERVISED

- 1) Ahmad, I. 2004-2006. Growth and Yield of **chillies** (*Capsicum annuum* L.) in response to different ages of transplants and transplanting time. M.Sc. (Hons) thesis. pp. 1-115.
- 2) Ijaz, S. 2004-2006. Growth and yield of **onion** in response to different transplanting times. M.Sc. (Hons) thesis pp.1-110.
- 3) Rasool, M. G. 2009-2011. Studies on the performance of Spinach (*Spinacea oleracea* L.) planted at different intervals under agro- climatic conditions of Multan, Pakistan. M.Sc. (Hons) thesis.
- 4) Nawaz, A. 2010-2012. Performance of locally developed tomato hybrids grown under plastic tunnels. M.Sc. (Hons) thesis.
- 5) Ahmad, S. 2010-2012. Effect of plant growth regulators on growth and yield performance of chilli (*Capsicum frutescense* L.). M.Sc. (Hons) thesis.
- 6) Yousaf, Firdous. 2011-2013. Growth and yield response of spinach (*Spinacea oleracea* L.) to different NaCl concentrations in irrigation water. M.Sc. (Hons) thesis.
- 7) Altaf, M. A. 2014-2016. Plant growth promoting Rhizobacteria (PGPR) reduces application rates of phosphorus fertilizer in Chilli (*Capsicum frutescens* L.) cultivation. M.Sc. (Hons) thesis.
- 8) Ali. W. 2015-2017. Effect of vermiculite, leaf manure and NPK on growth, yield and physiological attributes of tomato. M.Sc. (Hons) thesis.
- 9) Hussain, K. 2016-2018. Effect of growth promoting substances and orange oil extracts on the yield and quality attributes of Ridge gourd. M.Sc. (Hons) thesis.
- 10) Akram, S. 2016-2018. Evaluation of locally available substrates for milky mushroom (*Calocybe indica*). M.Sc. (Hons) thesis.
- 11) Zartashia Sajjad. 2016-18. Evaluation of preharvest silicon treatments on postharvest quality of spinach. M.Sc. (Hons) thesis.
- 12) Latif, M.U. 2017-19. Role of foliar application of micronutrients in improving growth yield and physiological

- attributes of pea (*Pisum sativum* L.). M.Sc. (Hons) thesis.
- 13) Najum Ul Saqib. 2017-19. Investigating the role of selenium and nitric oxide on bell pepper under water stress conditions. M.Sc. (Hons) thesis.
 - 14) Abu Bakar Mu M.Sc. (Hons) thesis shtaq. 2018-2020. Effect of Salicyclic acid on growth attributes of Pea (*Pisum sativum* L.) under salinity stress. M.Sc. (Hons) thesis.
 - 15) Muhammad Ramzan. 2018-2020. Effect of foliar and soil application of sea weeds extract on growth, yield and quality of Pea (*Pisum sativum* L.). M.Sc. (Hons) thesis.
 - 16) Ahmar Bilal. 2018-2020. Mitigation of salt stress of Lettuce (*Lactuca sativa* L.) by foliar application of ascorbic acid. M.Sc. (Hons) thesis.
 - 17) Muhammad Khalid. 2019-2021. Effect of soil and Foliar Application Of Zinc on vegetative growth and productivity of cauliflower. M.Sc. (Hons) thesis .
 - 19) Aimen Aziz. 2019-2021. Salinity stress mitigation of spinach with foliar application of Salicyclic acid. M.Sc. (Hons) thesis.
 - 20) Mahnoor Fatima. 2020-2022. Prolonging vase life of tuberose flowers using trace elements in vase solution. M.Sc. (Hons) thesis.
 - 21) Muhammad Shehroz. 2020-2022. Pre-harvest spray of Potassium Nitrate and Calcium Nitrate to improve the quality traits of Guava fruits. M.Sc. (Hons) thesis.

MEMBER OF SUPERVISORY COMMITTEE OF MANY M.Sc.(HONS)/ M.Phil. AGRONOMY STUDENTS

- 1) Ejaz, M. Umer. 2007. Impact of various phosphorus levels on growth, yield and yield components of different Sunflower Hybrids. M.Sc.(Hons.) Thesis.
- 2) Imran, Z. 2005. Growth and yield potential of Barley (*Hordeum vulgare* L.). M.Sc.(Hons.) Thesis.
- 3) Abdul, H. 2005. Productivity and grain yield of Wheat (*Triticum aestivum* L.) as influenced by nitrogen application. M.Sc.(Hons.) Thesis.
- 4) Mairaj, M. 2005. Grain yield and oil contents of Hybrid Canola (*Brassica napus* L.) cultivars as influenced by boron application. M.Sc.(Hons.) Thesis.
- 5) Mahmood, A. 2005. Yield potential and oil contents of canola (*Brassica napus* L.) cultivars as influenced by nitrogen application. M.Sc.(Hons.) Thesis.

SUPERVISION OF B.Sc.(HONS.) INTERNSHIP STUDENTS

- 1) Abdul Jabbar (2005)
- 2) Saif Ullah (2005)
- 3) Hina Anjum (2005)
- 4) Humara Umer (2006)
- 5) Sidra Kiran (2006)
- 6) Aneela Usman (2006)

RESEARCH STUDENTS UNDER SUPERVISION/ SUPERVISED

i) M.Sc.(Hons.) Horticulture students under Supervision	06
ii) Ph.D scholars under Supervision	05
iii) M.Sc. (Hons.) Horticulture Students Supervised	21
iv) M.Sc. (Hons.) Agronomy Students Supervised	05
v) B.Sc.(Hons.) Horticulture students supervised	50+

RESEACHES CONDUCTED

- Studies on the performance of Spinach (*Spinacea oleracea* L.) planted at different intervals under agro- climatic conditions of Multan, Pakistan.
- Plant growth promoting Rhizobacteria (PGPR) reduces application rates of phosphorus fertilizer in Chilli (*Capsicum frutescens* L.) cultivation.
- Growth and yield response of spinach (*Spinacea oleracea* L.) to different NaCl concentrations in irrigation water.
- Effect of plant growth regulators on growth and yield performance of chilli (*Capsicum frutescene* L.).
- Performance of locally developed tomato hybrids grown under plastic tunnels.
- Response of **Okra** Varieties to Insect Pest Infestation.
- Organic Farming of Vegetable Crops under **Tunnels**.
- Off season vegetable production under **plastic tunnels**.
- **Kitchen gardening** of summer and winter vegetables.
- Growth and Yield of **chillies** (*Capsicum annuum* L.) in response to different ages of transplants and transplanting time.
- Production potential of diverse **onion** genotypes raised through sets.
- Growth and yield of **onion** in response to different transplanting times.
- Effect of different priming techniques on germination performance and quality of **onion** seeds.
- Growth and seed yield of **carrot** as influenced by different regimes of nitrogen and potassium.
- Influence of different levels of N and K on the quality of **carrot** seeds cv. T-29.
- Vegetative propagation of **mango** through air layering.
- Effect of different concentrations of indole butyric acid and age of shoot on air layering of **mango** (*Mangifera indica*).
- Effect of different packing materials on the post harvest life of **rose**.
- Effect of different concentrations of indole butyric acid on air layering of mango (*mangifera indica*).
- Storage behavior of **apricots** at different storage temperatures.
- Effect of different preservative solutions on the vase life of **tuberose** cut flowers.
- Extending the post-harvest life of **tuberose** cut flowers using different chemical solutions.
- Germination performance of **dates** seeds in sugar and salt media.
- Performance of different **citrus** rootstock seedlings under saline water application.
- Growth and productivity of **potato** variety Desiree in response to different planting depths.

RESEARCH PUBLICATIONS

NATIONAL/ INTERNATIONAL/ IMPACT FACTOR/ HEC RECOGNIZED JOURNALS

1. Hafiza Muniba Din Muhammad, Muhammad Akbar Anjum and **Safina Naz**. 2024. Silicon-Mediated Alleviation of Salinity Stress in Petunia (*Petunia hybrida*) by Modulation of Morphological, Physiological and Biochemical Indices. *Journal of Soil Science and Plant Nutrition*. <https://doi.org/10.1007/s42729-024-01681-5>. (IF: 4.26)

2. Riaz Ahmad, Hafiza Muniba Din Muhammad, **Safina Naz**, Rahul Kumar Tiwari, Milan Kumar Lal, Parvaiz Ahmad, Muhammad Ahsan Altaf. 2024. From stress to success: Silicon and nano-silicon strategies for enhancing fruit yield and quality in cadmium-exposed trees. *South African Journal of Botany*, 167: Pages 441-447. (IF: 3.1)
3. Sajid Ali, Sana Ishtiaq, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Muhammad Wasim Haider, Anis Ali Shah, Muhammad Moaaz Ali and Sumera Javad. 2024. Layer by layer application of chitosan and carboxymethyl cellulose coatings delays ripening of mango fruit by suppressing cell wall polysaccharides disassembly. *International Journal of Biological Macromolecules* , 256 (1): 128429. (IF: 8.2).
4. Hafiza Muniba Din Muhammad, Safina Naz, Milan Kumar Lal, Rahul Kumar Tiwari, Riaz Ahmad, Muhammad Azher Nawaz, Ranjan Das, Muhammad Ahsan Altaf. 2024. Melatonin in business with abiotic stresses in vegetable crops. *Scientia Horticulturae*, 324 (2024) 112594 (IF: 4.342)
5. Muhammad Ahsan Altaf, **Safina Naz**, Ravinder Kumar, Hasan Sardar, Muhammad Azher Nawaz, Awadhesh Kumar, Priyanka Lal, Riaz Ahmad, Faisal Hayat, Muneeb Ahmad Wani, Rahul Kumar Tiwari, Milan Kumar Lal. 2023. Unraveling the mechanisms of cadmium toxicity in horticultural plants: Implications for plant health. *South African Journal of Botany*, 163:433-442. (IF 3.111).
6. Riaz Ahmad, **Safina Naz**, Hafza Muniba Din Muhammad, Ishtiaq Ahmad, Rahul Kumar Tiwari, Milan Kumar Lal, Muhammad Ahsan Altaf, 2023. Scenarios for Improvement of Jujube Tolerance Against Drought with Molecular Tools. *Erwerbs-Obstbau* , 65: 2615–2622.) (IF: 1.206)
7. Muhammad Ahsan Altaf, Rabia Shahid, Priyanka Lal, Riaz Ahmad, Faisal Zulfiqar, Awadhesh Kumar, Faisal Hayat, Ravinder Kumarj, Milan Kumar Lal, **Safina Naz**, Rahul Kumar Tiwari. 2023. Current understanding of boosting power of salicylic acid for abiotic stress tolerance in horticultural crops. *South African Journal of Botany*. 163: 285-293. (IF 3.111)
8. **Safina Naz**, Safza Muniba Din Muhammad, Muhammad Ramzan, Bushra Sadiq, Riaz Ahmad, Saqib Ali, Abdulaziz Abdullah Alsahli and · Muhammad Ahsan Altaf. 2023. Seaweed Application Enhanced the Growth and Yield of Pea (*Pisum sativum* L.) by Altering Physiological Indices. *Journal of Soil Science and Plant Nutrition* <https://doi.org/10.1007/s42729-023-01475-1>. (IF: 3.6)
9. Meryam Manzoor, Safna Naz, Hafza Muniba Din Muhammad, Riaz Ahmad. 2023. Smart reprogramming of jujube germplasm against salinity tolerance through molecular tools. *Functional & Integrative Genomics*, 222: 1-10. (IF: 2.9)
10. Muhammad Saqib, Umbreen Shahzad, Faisal Zulfiqar, Rahul Kumar Tiwari, Milan

- Kumar Lal, **Safina Naz**, Mohammad Shah Jahan, Zoia Arshad Awan, Mohamed A. El-Sheikh, Muhammad Ahsan Altaf. 2023. Exogenous melatonin alleviates cadmium-induced inhibition of growth and photosynthesis through upregulating antioxidant defense system in strawberry. *South African Journal of Botany*, 157:10-18. Elsevier (IF: 3.111)
11. Riaz Ahmad, Hafiza Muniba Din Muhammad, **Safina Naz**, Meryam Manzoor and Muhammad Ahsan Altaf. 2023. Biochemical Mechanism Unlocking Their Potential Role in Salt Tolerance Mechanism of Zizyphus Germplasm. *Phyton- International Journal of Experimental Botany*, 92(5): 1539-1553. (IF:1.407)
12. Hasan Sardar, Muhammad Arif Ramzan, **Safina Naz**, Sajid Ali, Shaghef Ejaz, Riaz Ahmad and Muhammad Ahsan Altaf. 2023. Exogenous Application of Melatonin Improves the Growth and Productivity of Two Broccoli (*Brassica oleracea* L.) Cultivars Under Salt Stress. *Journal of Plant Growth Regulation* <https://doi.org/10.1007/s00344-023-10946-9>. (IF: 4.640)
13. Sajid Ali, Ahmad Sattar Khan, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Sami Ullah. 2023. Glutathione application delays surface browning of fresh-cut lotus (*Nelumbo nucifera* Gaertn.) root slices during low temperature storage. *Postharvest Biology and Technology*, 200 (2023) 112311: 1-10 (IF: 5.537)
14. Hasan Sardar, Zubair Khalid, Muhammad Ahsan, **Safina Naz**, Aamir Nawaz, Riaz Ahmad, Kashif Razzaq, Saikh M. Wabaidur, Cédric Jacquard, Ivan Širi', Pankaj Kumar and Sami Abou Fayssal. 2023. Enhancement of Salinity Stress Tolerance in Lettuce (*Lactuca sativa* L.) via Foliar Application of Nitric Oxide. *Plants* 2023, 12, 1115 :1-24 (IF= 4.65).
15. Sakeena Tul-Ain Haider, Muhammad Azam, **Safina Naz**, Sajjad Hussain, Sajid Ali, Mehwish Liaquat, 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> (IF: 3.117)
16. Muhammad Ahsan Altaf, Nitin Sharma, Jagmohan Singh, Mahesh Kumar Samota, Parul Sankhyan, Brajesh Singh, Awadhesh Kumar, Safina Naz, Milan Kumar Lal, Rahul Kumar Tiwari and Ravinder Kumarf. 2023. Mechanistic insights on melatonin-mediated plants growth regulation and hormonal cross-talk process in solanaceous vegetables. *Scientia Horticulturae*, 308:111570 (IF: 3.463).
17. Muhammad Ahsan Altaf, Sayanti Mandal, Biswaranjan Behera, Vikas Mangal, **Safina Naz**, Ravinder Kumar, Awadesh kumar, Minosa Ghoral, Brajesh Singh, Abhijita Dey,

- Rahul Kumar Tiwari, Milan Kumar Lal and Tariq Aftab, 2022. Salinity stress tolerance in solanaceous crops: current understanding and its prospects in genome editing. *Journal of Plant Growth Regulation*, pp 1-17. (IF: 4.640)
18. **Safina Naz**, Muhammad Akbar Anjum, Bushra Sadiq, Riaz Ahmad, Muhammad Ahsan Altaf and Awais Shakoor. 2022. Purification of sewage wastewater through sand column filter for lessening of heavy metals Accumulation in Lettuce, Carrot and Cauliflower. *Water*, 14 (22), 3770. <https://doi.org/10.3390/w14223770> (IF 3.530)
19. **Safina Naz**, Ahmer Bilal, Bushra Saddiq, Shaghef Ejaz, Sajid Ali, Sakeena Tul Ain Haider, Hasan 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*, 14, 14180, 1-15 (IF3.889).
20. Muhammad Ahsan Altaf, Biswaranjan Behera, Vikas Mangal, Rajesh Kumar Singhal, Ravinder Kumar, Sanket More, **Safina Naz**, Sayanti Mandal, Abhijit Dey, Muhammad Saqib, Gopi Kishan, Awadhesh Kumar, Brajesh Singh, Rahul Kumar Tiwari and Milan Kumar Lal. 2022. Tolerance and adaptation of mechanism of solanaceous crops under salinity stress. Accepted in *Functional Plant Biology* (IF: 3.101).
21. **Safina Naz**, Abubakar Mushtaq, Sajid Ali, Hafiza Muniba Din Muhammad, Bushra Saddiq, Riaz Ahmad, Faisal Zulfiqar, Faisal Hayat, Rahul Kumar Tiwari, Milan Kumar Lal and Muhammad Ahsan Altaf. 2022. Foliar application of ascorbic acid enhances growth and yield of lettuce (*Lactuca sativa*) under saline conditions by improving antioxidant defence mechanism. *Functional Plant Biology*, A-J. (IF: 3.101)
22. Sajid Ali, Naima Zahid, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Sami Ullah, Bushra Siddiq.2022. Tragacanth gum coating suppresses the disassembly of cell wall polysaccharides and delays softening of harvested mango (*Mangifera indica* L.) fruit. *International Journal of Biological Macromolecules*, 222(2022): 521-532. (IF: 6.953).
23. Rahul Kumar Tiwari, Ravinder Kumar, Milan Kumar Lal, Awadhesh Kumar, Muhammad Ahsan Altaf, Rajni Devi, Vikas Mangal, **Safina Naz**, Muhammad Mohsin Altaf, Abhijit Dey, Tariq Aftab. 2022. Melatonin-Polyamine Interplay in the Regulation of Stress Responses in Plants. *Journal of Plant Growth Regulation* <https://doi.org/10.1007/s00344-022-10717-y> (IF: 4.640)
24. Sajid Ali, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Mehdi Maqbool, Manzer H. Siddiqui, Hazem M. Kalaji, Jacek Wrobel, Arkadiusz Telesinski and Alicja Auriga. 2022. Hydrogen sulfide mitigates chilling injury of postharvest banana fruits by regulating Y-aminobutyric

- acid shunt pathway and ascorbate-glutathione cycle. *Frontiers in plant science*, (IF: 5.6).
25. Muhammad Ahsan Altaf, Rabia Shahid, Ravinder Kumar, Muhammad Mohsin Altaf, Awadhesh Kumar, Latif Ullah Khan, Muhammad Saqib, Muhammad Azher Nawaz, Bushra Saddiq, Saraj Bahadur, Rahul Kumar Tiwari, Milan Kumar Lal and **Safina Naz**. 2022. Phytohormones Mediated Modulation of Abiotic Stress Tolerance and Potential Crosstalk in Horticultural Crops. *Journal of Plant Growth Regulation*. <https://doi.org/10.1007/s00344-022-10812-0> (IF: 4.640) as a Corresponding Author
26. Muhammad Ahsan Altaf, Rabia Shahid, Muhammad Mohsin Altaf, Ravinder Kumar, **Safina Naz**, Awadhesh Kumar, Pravej Alam, Rahul Kumar Tiwari, Milan Kumar Lal and Parvaiz Ahmad. 2022. Melatonin: first-line soldier in tomato under abiotic stress current and future perspective. *Plant Physiology and Biochemistry*, 185:188-197. (IF: 4.2701).
27. Sajid Ali, Muhammad Atif Ullah, Aamir Nawaz, **Safina Naz**, Anis Ali Shah, Gholamreza Gohari, Farhang Razavi, Ghulam Khaliq, Kashif Razzaq. 2022. Carboxymethyl cellulose coating regulates cell wall polysaccharides disassembly and delays ripening of harvested banana fruit. *Postharvest Biology and Technology*, 191 (2022) 111978 (IF: 5.537).
28. Mubashir Islam, Sajid Ali, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Anis Ali Shah, Kashif Razzaq. 2022. Postharvest 24-epibrassinolide treatment alleviates pomegranate fruit chilling injury by regulating proline metabolism and antioxidant activities. *Postharvest Biology and Technology*, 188, 111906 I (IF: 5.537)
29. Shahzad Saleem, Akbar Anjum, Sajid Ali, **Safina Naz**, Sajjad Hussain, Aamir nawaz, Abdul Mannan. 2022. Aloe vera gel coating delays softening and maintains quality of stored persimmon (*Diospyros kaki* Thunb.) fruits. *Journal of Food Science and Technology*. (IF: 2.701, HJRS: W category).
30. Muhammad Ahsan Altaf, Rabia Shahid, Ming-Xun Ren, **Safina Naz**, Muhammad Mohsin Altaf, Latif Ullah Khan, Rahul Kumar Tiwari, Milan Kumar Lal, Muhammad Adnan Shahid, Ravinder Kumar, Muhammad Azher Nawaz, Mohammad Shah Jahan, Basit Latief Jan and Parvaiz Ahmad. 2022. Melatonin Improves Drought Stress Tolerance of Tomato by Modulation Plant Growth, Root Architecture, Photosynthesis, and Antioxidant Defense System. *Antioxidants* 2022, 11(2), 309. <https://doi.org/10.3390/antiox11020309>. (IF 5.952)
31. Muhammad Ahsan Altaf, Rabia Shahid, Ming-Xun Ren, **Safina Naz**, Muhammad Mohsin Altaf, Latif Ullah Khan, Milan Kumar Lal, Rahul Kumar Tiwari and Awais Shakoor. 2022. Melatonin mitigates cadmium toxicity by promoting root architecture and mineral homeostasis of tomato genotypes. <https://doi.org/10.1007/s42729-021-00720-9>. *Journal of Soil Science and Plant*

Nutrition. (IF 3.87)

32. Hasan Sardar, Muhammad Akbar Anjum, Sajjad Hussain, Sajid Ali, Muhammad Rashid Shaheen, Muhammad Ahsan, Shaghef Ejaz, Khawaja Shafique Ahmad, **Safina Naz**, Muhammad Shafique. 2022. Deciphering the role of moringa leaf powder as a supplement in the cotton waste substrate for the growth and nutrition of king oyster mushroom (*Pleurotus eryngii*). *Scientia Horticulturae*, 293(3):110694 (IF 3.463)
33. Muhammad Ahsan Altaf, Rabia Shahid, Ming-Xun Ren¹, Latif Ullah Khan, Muhammad Mohsin Altaf, Mohammad Shah Jahan, Muhammad Azher Nawaz, **Safina Naz**, Sidra Shahid, Milan Kumar Lal, Rahul Kumar Tiwari, Muhammad Adnan Shahid. 2021. Protective Mechanisms of Melatonin Against Vanadium Phytotoxicity in Tomato Seedlings: Insights into Nutritional Status, Photosynthesis, Root Architecture System, and Antioxidant Machinery. *Journal of Plant Growth Regulation*, 41:3300-3316 (IF 4.169).
34. Muhammad Shahzad Saleem, Muhammad Akbar Anjum, **Safina Naz**, Sajid Ali, Sajjad Hussain, Muhammad Azam, Hasan Sardar, Ghulam Khaliq, Ihsan Canan, Shaghef Ejaz. 2021. Incorporation of ascorbic acid in chitosan-based edible coating improves postharvest quality and storability of strawberry fruits. *International Journal of Biological Macromolecules*, 189:160-169. (IF 6.953).
35. **Safina Naz**, Muhammad Akbar Anjum, Shaghef Ejaz, Sajid Ali, Bushra Saddiq, Hasan Sardar and Sakeena Tul-Ain Haider. 2021. Sewage wastewater reclamation with sand column filter and reduction of heavy metal accumulation in tomato and okra. *Environmental Science and Pollution Research*, 28(33):45962-45970. (IF 3.056)
36. **Safina Naz**, Muhammad Usman Latif, Sakeena Tul-Ain Haider, Sajid Ali, Hasan Sardar, Riaz Ahmad, Muhammad Akbar Anjum. 2022. Potential of foliar application of micronutrients on growth, yield, quality and nutraceutical properties of pea (*Pisum sativum* L.) using multivariate approach. *Pakistan Journal of Botany*, 54(3): 931-942, 2022. (IF 0.972)
37. Mamoona Amir, Salman Ashghar, Muhammad Ahsin, Shahid Hussain, Amir Ismail, Muhammad Riaz and **Safina Naz**. 2021. Arsenic exposure through drinking groundwater and consuming wastewater-irrigated vegetables in Multan, Pakistan. *Environ. Geochemistry and Health*, 43:5025-5035 (IF 3.5)
38. Hasan Sardar, Ammar Nisar, Muhammad Akbar Anjum, **Safina Naz**, Shaghef Ejaz, Sajid Ali, Muhammad Sameem Javed, Riaz Ahmad. 2021. Foliar spray of moringa leaf extract improves growth and concentration of pigment, minerals and stevioside in stevia (*Stevia rebaudiana* Bertoni). *Industrial Crops & Products* Volume 166, August 2021, 113485.

(IF 4.24)

39. Sajid Ali, Ahmad Sattar khan, Aman Ullah Malik, Raheel Anwar, Muhammad Akbar Anjum, Aamir Nawaz, Muhammad Shafique and Safina Naz. 2021. Combined application of ascorbic and oxalic acids delays postharvest browning of litchi fruits under controlled atmosphere conditions. 350(2021) 129277. *Food Chemistry* (IF 7.514).
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42. Sajid Ali, Muhammad Akbar Anjum, Aamir Nawaz, **Safina Naz** Shaghef Ejaz Muhammad Shahzad Saleem Sakeena Tul-Ain Haider Mahmood Ul Hasan. Effect of gum arabic coating on antioxidative enzyme activities and quality of apricot (*Prunus armeniaca* L.) fruit during ambient storage" 19 February 2021 <https://doi.org/10.1111/jfbc.13656>. *Journal of Food Biochemistry*. (IF 3.64)
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44. Muhammad Ahsan Altaf, Rabia Shahid, Ming-Xun Ren, Freddy Mora-Poblete, Marino B. Arnao, **Safina Naz**, Muhammadf Anwar, Muhammad Moihsin Altaf, Sidra Shahid, Awais Shakoor, Hamza Sohail, Sunny Ahmar, Muhammad Kamran, Jen-Tsung Chen. 2020. Phytomelatonin: An overview of importance and mediating functions of melatonin against environmental stresses. *Physiologia Plantarum*, 172(2):820-846. (IF 4.148).
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47. Riaz Ahmad, Muhammad Akbar Anjum, Safina Naz and Rashad Mukhtar Balal. 2020. Applications of Molecular Markers in Fruit Crops for Breeding Programs-A Review. *Phyton-International Journal of Experimental Botany*, 90(1):17-34 (IF 0.329)
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51. Hasan Sardar, **Safina Naz**, Shaghef Ejaz, Omer Farooq, Atique-ur Rehman, Muhammad Sameem, Gulzar Akhtar. 2020. Effect of foliar application of zinc oxide on growth and photosynthetic traits of cherry tomato under calcareous soil conditions. *Acta Scientiarum Polonorum Hortorum Cultus*, 20(1):91-99 (IF 0.48)
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- Volatile Compounds in ‘Thompson Seedless’ Raisins. *Molecules*, 2020, 25(3), 608 doi:10.3390/molecules25030608. (IF 3.267)
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60. Sajid Ali, Ahmad Sattar Khan, Muhammad Akbar Anjum, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz and Sajjad Hussain. 2019. Aloe vera gel coating delays post-cut surface browning and maintains quality of cold stored lotus (*Nelumbo nucifera* Gaertn.) root slices. *Scientia Horticulturae*, volume 256(2019), 108612 (IF 1.961).
61. Sajid Ali, Ahmad Sattar Khan, Aamir Nawaz, Muhammad Akbar Anjum, **Safina Naz**, Shaghef Ejaz, Sajjad Hussain. 2019. Aloe vera gel coating delays postharvest browning and maintains quality of harvested litchi fruit. *Postharvest Biology and Technology*, 157 (2019) 110960 (IF 4.400).
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- improve the growth, yield and fiber quality of cotton. *Sustainability*, 11(7) 1- 2171; doi:10.3390/su11072171. (IF 2.576).\
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 67. **Safina Naz**, Muhammad Akbar Anjum, Saeed Akhtar, Syed Atif Hasan Naqvi and Muhammad Asif Zulfiqar. 2018. Effect of Different Irrigation Sources on Proximate Composition and Heavy Metals Uptake in Some Selected Vegetables. *Pakistan Journal of Agricultural Research*, 31(4): 336-346. (Y- Category)
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 71. Azra Yasmeen, Muhammad Arif, Nazim Hussain, **Safina Naz** and Adeel Anwar. 2018. Economic Analyses of Sole and Combined Foliar Application of Moringa Leaf Extract (MLE) and K in Growth and Yield Improvement of Cotton. *International Journal of*

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76. Shakeel Ahmad, Sajjad Hussain, Zartash Fatima, Ghulam Abbas, Atique-ur-Rehman, Muhammad Rafique Khan, Haseeb Younis, Sahrish Naz, Muhammad Sohail, Muhammad Ajmal, Naseem Abbas, Muhammad Akhtar, Abdur Rauf, Mehrab Khan, Zeshan Ali, Muhammad Hassan, Muhammad Rizwan, Ruqia Safdar Bajwa, Amna Ajmal, **Safina Naz**, Hina Ali, Azhar Ali Khan, Muhammad Ali, Ghulam Sarwar, Muhammad Azam Khan and Mirza Hasanuzzaman. 2016. Application of DSSAT Model for Sowing Date Management of C4 Summer Cereals for Fodder and Grain Crops under Irrigated Arid Environment. *Pakistan Journal of Life and Social Sciences*, 14(2): 104-114 (Y-Category).
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81. Sobia Chohan, Rashida Perveen, Mirza Abid Mehmood, **Safina Naz**, Bushra Siddique and Ghazala Yasmin. 2011. Efficacy of few plant extract against *Fussarium oxysporium* f. sp. *gladioli*, the cause of corn rot of gladiolus. *Journal of Medicinal Plants Research*, 5(16): 3887-3890 (IF 0.879).
82. Shehzad Shakoor, Sobia Chohan, Abid Riaz, Rashida Perveen, **Safina Naz**, Mirza Abid Mehmood, Muhammad Saleem Haider and Shakeel Ahmad 2011. Screening of systemic fungicides and biochemicals against seed borne mycoflora associated with *Momordica charantia*. *African Journal of Biotechnology* 10 (36): 6933-6940 (IF 0.573).
83. Saeed Akhtar, **Safina Naz**, Muhammad Tuseef Sultan, Seema Mahmood, Muhammad Nasir and Anwaar Ahmad. 2010. Physio-Chemical Attributes and Heavy Metal Contents of Mangoes (*Mangifera indica* L.) Cultivated in different Regions of Pakistan. *Pakistan Journal of Botany*, 42(4): 2691-2702 (IF 0.947).
84. Rashida Perveen, Ishaque Fani, Sobia Chohan, Saleem Haider and **Safina Naz**. 2010. Effect of Nitrogen and Carbon from Different Organic Supplements on Pathogenic Potential of *Phytophthora Capsici*, in the Collar Rot of Chillies. *European Journal of Scientific Research*, 43(1) 107-112. (IF 0.416).
85. Saeed Akhtar, Seema Mahmood, **Safina Naz**, Muhammad Nasir and Muhammad Tauseef Sultan. 2009. Sensory Evaluation of Mangoes (*Mangifera indica* L.) Grown in Different Regions of Pakistan. *Pakistan Journal of Botany*, 41(6): 2821-2829 (IF 0.947).
86. **Safina Naz**, Muhammad Akbar Anjum and Ishtiaq Ahmad. 2006. Growth of Chilli (*Capsicum Annum* L.) F₁ Hybrid Sky Line -2 in Response to Different Ages of Transplants. *Journal of Research (Science)*, 17(2):91-95.
87. Muhammad Amjad, **Safina Naz** and Sultan Ali. 2005. Growth and Seed Yield of Carrot as Influenced By Different Regimes of Nitrogen and Potassium. *Journal of Research (Science)*, 16(2):73-78.
88. Syed Fiaz Hussain Shah and **Safina Naz**. 2005. Growth and Productivity of Potato Variety Desiree in Response to Different Planting Depths. *Indus Journal of Plant Sciences*, 4(4):479-481.
89. **Safina Naz**, Muhammad Amjad, Bushra Siddique and Ishtiaq Ahmad. 2005. Effect of Different Ages of Transplants on the Yield of Chillies. *Indus Journal of Plant Sciences*,

4(3): 332-335.

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91. **Safina Naz** and Muhammad Aslam. 2004. Effect of Different Concentrations of Indole Butyric Acid on Air Layering of Mango (*Mangifera indica L.*). *Journal of Research (Science)*, 15(3):281-284.
92. Ghulam Yasin, Muhammad Aslam, Ijaz Pervez and **Safina Naz**. 2003. Socio Economic Correlates of Pesticide Usage: The case of Citrus Farmers. *Journal of Research (Science)*, 14(1):43-48.
93. **Safina Naz** and Muhammad Aslam. 2003. Effect of Different Concentrations of Indole Butyric Acid (IBA) and Age of Shoot on Air Layering of Mango (*Mangifera indica Linn.*). *Journal of Research (Science)*, 14(2):193-198.
94. **Safina Naz**. 2003. Effect of Different Packing Material on the Post Harvest Life of Rose. *Journal of Research (Science)*, 14(2):187-192.

CONFERENCES ATTENDED

- 1) Attended **7th International Conference Horticulture Conference** Sustainable Horticulture Challenges, innovations and Adaptations held on February 23-25, 2023 at Department of Horticulture MNS-University of Agriculture Multan & Pakistan Society for Horticultural Sciences.
- 2) Attended **National Conference** on soil degradation: An Alarming threat to Food Security & Environment held on March 3-4, 2022 at Department of soil Science, Bahauddin Zakariya University, Multan.
- 3) Attended **2nd International Conference on Smart plant Protection** held on March 9-10, 2022 at Institute of Plant Protection MNS-University of Agriculture Multan.
- 4) Attended online **International Conference on Smart plant Protection** held on Jan 27-28, 2021 at Institute of Plant Protection MNS-University of Agriculture Multan.
- 5) Attended and organized **International Horticulture Conference 2020** held on Feb. 26-28, 2020 at Institute of Agricultural Sciences, University of Punjab, Lahore.
- 6) Attended **2nd International Salinity Conference 2019** held on April 28-30, 2019 at Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan.
- 7) Attended **1st International Conference on "Agricultural and Biological Sciences"** held on March 27-30, 2019 at Faculty of basic and Applied Sciences The University of Haripur, Pakistan.
- 8) Attended and organized **International Horticulture Conference 2019** held on Feb. 26-28,

2019 at Department of Horticulture, Bahauddin Zakariya University Multan, Pakistan.

- 9) Attended **International Horticulture Conference, Pakistan held on 25-27 April 2018** at Department of Horticulture, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.
- 10) Attended “1st **International Conference on Climate Change & Biodiversity**” held on May 02-04, 2017 organized by Cholistan Institute of Desert Studies (CIDS) at The Islamia University of Bahawalpur, Pakistan.
- 11) Attended and organized an **International Conference on Citriculture Challenges & Management** held on February 11-13, 2015 Organized by the Department of Horticulture, B.Z. University, Multan in Collaboration with Higher Education Commission (HEC), Islamabad, Pakistan.
- 12) Attended 6th **International conference of Pakistan Phytopathological Society “Plant Health for Sustainable Agriculture” A focused Approach for food security under changing climate** held on November 20-22, 2017 at Department of Plant Pathology, Bahauddin Zakariya University, Multan and Central Cotton Research Institute, Multan.
- 13) Attended Two Days **International Conference on Malnutrition in South Asia: The Peril Persists & Food Expo 2015** held on February 23-24, 2015 Organized by the Department of Food Science & Technology, Bahauddin Zakariya University, Multan – Pakistan.
- 14) Attended Two Days **International Conference on Malnutrition, Malnutrition Kills Can we see the writing on the walls & Food Expo 2016** held on 2016 organized by Institute of Food Science & Nutrition, Bahauddin Zakariya University, Multan – Pakistan.
- 15) Attended 3rd **International Conference on Safe Food For All & Food Expo** held on March, 2-3. 2017 organized by Institute of Food Science & Nutrition, Bahauddin Zakariya University, Multan - Pakistan.
- 16) Rasool, M.G., **S. Naz** and M.A. Anjum. 2012. Studies on the performance of spinach (*Spinacia oleracea* L.) planted at different intervals under Agro-climatic conditions of Multan. In Abstract of the **National Science Conference on Agriculture and Food Security Issues in Global Environmental Prospectives** July 11-13, 2012, Organized by Faculty of Agriculture, The University of Poonch Rawalakot, Pakistan.

TEXT BOOK CHAPTER WRITTEN

1. **Safina Naz**, Hafiza Muniba Din Muhammad, Saqib Ali, Muhammad Ahsan Altaf, Ishtiaq Ahmad, Sami Abou Fayssal, and Riaz Ahmad. "Reprogramming of Salt Stress Under the Influence of Melatonin." In *Melatonin in Plants: A Pleiotropic Molecule for Abiotic Stresses and Pathogen Infection*, pp. 45-58. Singapore: Springer Nature Singapore, 2024.
2. Muhammad, Hafiza Muniba Din, **Safina Naz**, Ehsan Ali, Asif Nawaz, Hasan Sardar,

- Muhammad Ahsan Altaf, Sami Abou Fayssal, Pankaj Kumar, and Riaz Ahmad. "Melatonin-Mediated Drought Stress Mitigation by Modulation of Physiological and Biochemical Responses in Plants." In *Melatonin in Plants: A Pleiotropic Molecule for Abiotic Stresses and Pathogen Infection*, pp. 21-44. Singapore: Springer Nature Singapore, 2024.
3. Altaf, Muhammad Ahsan, **Safina Naz**, Hafiza Muniba Din Muhammad, Saqib Ali, and Riaz Ahmad. "Mechanistic Insights on Melatonin-Mediated Heat Stress Regulation in Plant." In *Melatonin in Plants: A Pleiotropic Molecule for Abiotic Stresses and Pathogen Infection*, pp. 59-72. Singapore: Springer Nature Singapore, 2024.
 4. Ghorbani, Abazar, Abolghassem Emamverdian, Mo-Xian Chen, **Safina Naz**, Hafiza Muniba Din Muhammad, Muhammad Ahsan Altaf, and Riaz Ahmad. "Illustrating Recent Development in Melatonin-Heavy Metal Research in Plant." In *Melatonin in Plants: A Pleiotropic Molecule for Abiotic Stresses and Pathogen Infection*, pp. 95-111. Singapore: Springer Nature Singapore, 2024.
 5. Sajid Ali, Samina Khalid, Mahmood Ul Hasan, Aamir Nawaz, **Safina Naz** and Shaghef Ejaz, 2023. Role of hydrogen sulfide in regulating postharvest horticultural crops quality. *H₂S in Plant, Past, Present, and Beyond. Plant Gasotransmitters and Molecules with Hormonal Activity*, Edited by Luzia Valentina Modolo Cristiane Jovelina Da-silva, Pp. 335-353.
 6. Sajid Ali, Aamir Nawaz, **Safina Naz** and Shaghef Ejaz. 2023. Application of ROS, RNS, and RSS for prolonging the shelf-life of horticultural crops via the control of postharvest bacterial infections. *Oxygen, Nitrogen and Sulfur species in Post-Harvest Physiology of Horticultural Crops*. Edited by Vasileios Ziogas Francisco J. Corpas. Pp. 341-367.
 7. Shaghef Ejaz, Shah Fahad, Muhammad Akbar Anjum, Aamir Nawaz, **Safina Naz**, Sajjad Hussain, and Shakeel Ahmad. 2020. Role of Osmolytes in the Mechanism of Antioxidant Defense of Plants. In: *Sustainable Agriculture Reviews 39*, Publisher: **Springer International Publishing**. Doi 10.1007/978-3-030-38881-2, Series ISSN 22104410, Edition Number: 1, Editors: Eric Lichtfouse. Pp. 95-117.
 8. Sajid Ali, Muhammad Akbar Anjum, Aamir Nawaz, **Safina Naz**, Hasan Sardar and Mahmood Ul Hasan. 2021. Hydrogen sulfide regulates temperature stress in plants. In: *Hydrogen Sulfide in Plant Biology: Past and Present* <http://doi.org/10.1016/B978-0-323-85862-5.00003-8> © 2021 **Elsevier** Inc. Academic Press pp. 1-24.
 9. Sajid Ali¹, Muhammad Akbar Anjum, Aamir Nawaz, Mahmood 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. DOI: <https://doi.org/10.1016/B978-323-85862-5.00005-1> © 2021 **Elsevier** Inc. Academic Press pp 25-54.
 10. Sajid Ali, Muhammad Akbar Anjum, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Shakeel Ahmad and Sajjad Hussain. 2021. Role of reactive nitrogen species in mitigating organic pollutant-induced plant

damages: Bioremediation of organic pollutants. Handbook of Bioremediation. <https://doi.org/10.1016/B978-0-12-819382-2.00031-4>. © 2021 Elsevier Inc. Pp 493-503.

11. Sajid Ali, Aamir Nawaz, **Safina Naz**, Shaghef Ejaz, Sajjad Hussain, and Raheel Anwar. 2022. Chapter Title: Decontamination of Microgreens. In: Microbial Decontamination of Food. **Springer Nature Singapore International Publishing**. https://doi.org/10.1007/978-981-19-5114-5_6. Pp. 125-143.

EDITOR OF VARIOUS INTERNATIONAL JOURNALS

- 1) **Guest Editor** : **Horticulturae**.
https://www.mdpi.com/journal/horticulturae/special_issues/IOOI8QFV93
- 2) **Guest Editor. The potential role of Melatonin in the Regulation of Abiotic Stress in Plants. Frontiers in plant Science.** <https://www.frontiersin.org/research-topics/43495/the-potential-role-of-melatonin-in-the-regulation-of-abiotic-stress-in-plants>
- 3) **Guest Editor. Life/ Abiotic Stress in Horticultural Plant: insight into Recent Advances in the underlying Tolerance Mechanism.**
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- 4) IJMS
- 5) Foods
- 6) Frontiers in Plant Science
- 7) Frontiers In Horticulture
- 8) African Journal of Biotechnology

WORKSHOPS AND TRAINING PROGRAMMS

- 1) Certificate of Participation in **Training Workshop for NAEAC Program evaluators** held on November 23, 2023 Organized by National Agriculture Education Accreditation Council, HEC, Islamabad.
- 2) Certification of Participation in **International Workshop “Diversification, value Addition Supply Chain management of floriculture industry”** held on March 24- 25 at Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
- 3) Certification of Participation in **“Recent challenges & prospects of Horticulture in Pakistan”** held on June 23rd – 24th at Department of Horticulture, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.
- 4) Certification of Participation in **“Greenhouse Horticulture: Current status and future prospects”** held on June 29th at Department of Horticulture, MNS University of Agriculture, Multan (Pakistan).
- 5) Certification of Participation in **“Research Workshop on Online Literature searching Techniques”** held on April 28, 2017 organized by Research Centre for Academic & Professional Development (RCAPD) and Economics Department of the Women University, Multan.

- 6) Certificate of Participation in two days training course “**New Trends in Kitchen Gardening and Composting**” held on April 25-26, 2017 Organized by Department of Botany and Environmental Sciences, the Women University Multan.
- 7) Certificate of One Day Workshop on PLS-SEM “**Partial Least Square Structural Equation Modeling (PLS-SEM) Using Smart PLS**” held on April 21, 2017 organized by Department of Agronomy of BZU, Multan.
- 8) Certificate of Participation in one day workshop on “**Tools and Methods in Research Writing Developing Skills in Scientific Writing**” held on April 18, 2017 organized by Department of Soil Science, BZU, Multan and ScienceVier, Canada.
- 9) Certificate of Participation in one day “**Floral Workshop**” held on April 12, 2017 organized by Department of Horticulture, Faculty of Agricultural Sciences & Technology, Bahauddin Zakariya University, Multan.
- 10) Served as **Judge for Cut Flower category in 62nd Annual Spring Festival 2017** at Cantonment Board Multan on March 23, 2017.
- 11) Served as **Judge for Cut Flower category in 9th Chrysanthemum Show 2016** at Cantonment Board Multan on December 27, 2016.
- 12) Served as **Judge for Cut Flower category in 61st Annual Spring Festival 2016** at Cantonment Board Multan on March 23, 2016.
- 13) Certificate of Participation in “**Training Master Trainers Workshop Citrus Value Chain**” held on October 15, 2015.
- 14) Certificate for attending one day seminar on “**Mango Diseases and Their Management**” held on May 14, 2015 organized by Department of Plant Pathology, Bahauddin Zakariya University, Multan.
- 15) Served as **Judge for Cut Flower category in 7th Chrysanthemum Show 2014** at Cantonment Board Multan on December 24, 2015.
- 16) Certificate of Participation for attending **2nd Annual Workshop on “Scientific Writing and Plagiarism”** held on May 07, 2014 organized by Office of the Senior Tutor and Society of Young Agronomists (SOYA), University of Agriculture Faisalabad.
- 17) Certificate of Participation for attending one day workshop on **Scientific Writing and Publishing** organized by Department of Food Science and Technology and American Society for Microbiology on October 02, 2013.
- 18) Certificate of Participation for attending one day workshop on “**ASM Scientific Writing and Publishing**” organized by Department of Food Science and Technology and American Society for Microbiology on October 02, 2013.
- 19) Certificate of Participation for Two Days Workshop on “**Simulating Modeling: A decision Support System for Agro-technology Transfer for Improving the standards of Research**” held on March 04-05, 2013 organized by Department of Agronomy, Faculty of Agricultural Sciences & Technology, Bahauddin Zakariya University, Multan.
- 20) Certificate of Participation for attending Three Days Workshop on **Three Days Cascading of Asian Institute of Technology (AIT), Thailand Based Training Program “Ensuring Training Effectiveness”** held on April 09-11, 2012 organized by Department of Agronomy, University College of Agriculture, Bahauddin Zakariya University, Multan and Higher Education Commission, Islamabad, Pakistan.
- 21) Served as **Judge for Cut Flower category in 57th Annual Spring Flower Show 2012** at Cantonment Board Multan on March 24, 2012.
- 22) Certificate of Professional Development for attending Three days Workshop on “**Statistical Modeling For Improving the Standards of Research and Education For University Professionals**” held on January 23-25, 2012 at University College of Agriculture, Bahauddin Zakariya University, Multan and Higher Education

Commission, Islamabad, Pakistan.

- 23) Certificate for Participating in “One Day Energy Conversion Training Workshop/ Seminar on “Agriculture, Building, Transport, Industry and Power and Clean Development Mechanism” held January 24, 2011 organized by ENERCON and NPO.
- 24) Served as a resource person in one day workshop titled “**Benefits of Tunnel Farming over Conventional Farming**” conducted by National Productivity Organization (NPO) in December 24, 2010.

RESEARCH PROJECTS

Research Projects (completed)

04

Sr. No.	Research project title	Duration (Years)	Funding Agency	Worked as	Status
1	Plant growth promoting Rhizobacteria (PGPR) reduces application rates of phosphorus fertilizer in Chilli (<i>Capsicum frutescens</i> L.) cultivation drought stress conditions.	1	Directorate of Research and External Linkages B. Z. Univ. Multan	Principal Investigator (PI)	1
2	Organic Farming of Vegetable Crops under Tunnels	2	Directorate of Research and External Linkages B. Z. Univ. Multan	Principal Investigator (PI)	Completed
3	Response of Okra Varieties to Insect Pest Infestation	2	Directorate of Research and External Linkages B. Z. Univ. Multan.	Principal Investigator (PI)	Completed
4	Nutritional and Safety Status of Different Pakistani Export quality Mango varieties.	2	Directorate of Research and External Linkages B. Z. Univ. Multan	Co-Principal Investigator (Co-PI)	Completed

OTHER ADMINISTRATIVE ASIGNMENTS

LEARNED SOCIETIES

- 1) Life time Member of Pakistan Society for Horticultural Science
- 2) Member of American Society for Microbiology.
- 3) Member of Pakistan Horticulture Development & Export Board.

ADMINISTRATIVE ACTIVITIES IN UNIVERSITY

- 1) Member of Departmental Purchase Committee for the Department of Horticulture.
- 2) Member of University Senate as a Professor.
- 3) Member of Academic Council of University.
- 4) Convener of Departmental Discipline and Disciplinary Committees.
- 5) Chairperson of Disciplinary Committee of Mariyan Hall (Girls Hostel).
- 6) Warden, Maryum Hall, Bahauddin Zakariya University, Multan
- 7) Member of Board of Studies, Department of Horticulture, BZU, Multan
- 8) Member of Library Committee for the Department of Horticulture to purchase books
- 9) Superintendent of Girls Hostel Maryum Hall, Bahauddin Zakariya University, Multan.
- 10) Member of Hall council as a Superintendent, BZU, Multan.
- 11) Member of Synopsis Evaluation Committee, Department of Horticulture, BZU, Multan.
- 12) Director Students Affairs (DSA) Department of Horticulture, BZU, Multan.
- 13) Member/Secretary of Department Purchase Committee, Department of Horticulture, BZU, Multan
- 14) Former Director Student Advisor (DSA), Department of Food and Horticultural Sciences, BZU, Multan.
- 15) Member of Time Table and Date Sheet Committee, Department of Food and Horticultural Sciences, BZU, Multan.

- 16) Member/Secretary of Department Admission Committee for admission of B.Sc. (Hons.), M.Phil/M.Sc (Hons.) Horticulture and Ph.D Horticulture
- 17) Member of Board of Studies, Department of Horticulture, BZU, Multan.
- 18) Member of Faculty Board of Agriculture, BZU, Multan.
- 19) Member of Lawn Maintenance Committee.
- 20) Member of Technical Purchase Committee, University College of Agriculture, BZU, Multan.
- 21) Former Deputy Director Student Advisor for Female Students, University College of Agriculture, BZU, Multan.

PUBLIC OR INTERNATIONAL AFFAIRS

- 1) Former Executive Member of Academic Staff Association, BZU, Multan

LANGUAGES

- Urdu
- English
- Punjabi

REFERENCES

Will be furnished on demand

Dr. Safina Naz
Professor
Department of Horticulture
B. Z. University, Multan.