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QUALIFICATION

<i>Degree</i>	<i>Year</i>	<i>Subject</i>	<i>Institution</i>
Ph. D.	2011	Olericulture (Vegetable Biotechnology)	Huazhong Agricultural University, Wuhan, P.R. China
M.Sc. (Hons.)	2002	Pomology	University of Agriculture, Faisalabad
B.Sc. (Hons.)	2000	Horticulture	Bahauddin Zakariya University, Multan

Ph.D. THESIS

Functional characterization of two members of *ERD15* gene family from *Solanum pennellii*

PROFESSIONAL EXPERIENCE

<i>Date</i>	<i>Job Title</i>	<i>Institute/Organization</i>
28-10-2021 to-date	Associate Professor	University of Agriculture, Faisalabad
28-07-2012 to 27-10-2021	Assistant Professor	University of Agriculture, Faisalabad
05-09-2005 to 27-07-2012	Lecturer	University of Agriculture, Faisalabad
16-02-04 to 02-09-05	Scientific Officer	Pakistan Agricultural Research Council, Islamabad
27-09-03 to 15-02-04	Assistant Research Officer	Jojoba Research Centre, Bahawalpur

AREA OF INTEREST

I have a diversified experience of working in different organizations starting from Punjab Agriculture Research, then in Pakistan Agricultural Research Council and currently in University of Agriculture Faisalabad. Main focus of my research work is to find solutions of farmers' current problems related to vegetable production in open field and in protection (tunnels), and vegetable seed production. I have been working with farmers in ACIAR (Australian) funded project for improving their livelihood through use of scientific interventions to improve their production practices. Besides this, I am also working of varietal development of horticultural crops.

RESEARCH PROJECTS (Completed/On-going)

Project title	Duration		Status	Funding Agency	Budget (Rs. million)	Remarks
	From	To				
Functional characterization of transgenic tomato plants over-expressing <i>SpERD15-2</i> gene	24-05-2013	23-05-2015	PI	HEC	0.4991	Completed
Dissemination of Seed Production Technology of Important Crops. (Component I: Vegetable Seed Production)	01-09-2013	31-08-2016	PI	Endowment Fund Secretariat (EFS), University of Agriculture, Faisalabad	2.954	Completed
Strengthening vegetable value chains in Pakistan (SVVCP) for greater community livelihood benefits	February 2018	December 2022	PI Production Punjab (Production Horticulture)	ACIAR	12.47	Completed
Vegetable grafting of <i>Capsicum</i> spp. and watermelon	April 15, 2019	September 30, 2021	PI	EFS, University of Agriculture, Faisalabad	2.304	Completed
Development of F1 tomato hybrid seed by inter- and intra-specific hybridization	July, 2019	July, 2022	Co-PI	PARC, ALP	5.028	Completed
Vegetable grafting for soil borne	April 01,	April 01,	Co-PI	HEC, NRPU	3.480	Completed

diseases, salinity and drought	2019-	2022				
Sustainable agricultural production system in urban areas by using CNC kitchen gardening robot	January 01, 2021	June 30, 2022	Co-PI	National Centre of Robotics and Automation (NCRA)	10.922	Completed
Quality seed production and supply to the farming community for ensuring food security in Pakistan	July 01, 2023	June 30, 2026	PI	Planning Commission Pakistan	47.307	On-going
Hybrid seed production of tomato and its genetic purity analysis	December 06, 2022	December 05, 2023	PI	Xinjiang Academy of Agricultural Sciences, P.R. China	1.35	Completed
Cabbage and cauliflower seed production in Punjab- A step towards self sufficiency in breeding and seed production	July 01, 2024	June 30, 2029	PM	Punjab Agricultural Research Board	36.932	On-going
Enhancing indigenous flower seed production through optimizing production and handling protocols and human resource development	February 28, 2022	June 30, 2026	Co-PI	HEC (Ref. No. 20-15609/NRP U/R&D/HEC/2021)	6.876	On-going

SALIENT ACHIEVEMENTS

1. Patent “UAF-Gro”, media recipe for filling plug trays (vegetable and flowers nursery production (Patent No. 143872).
2. One Okra variety “Okra-3A” approved by PSC.
3. Two varieties of Calendula “Golden Princess” and “Golden Beauty” approved by PSC.

BOOKS

1. Khurram Ziaf, M.A. Ghani and Y. Majeed. 2022. Tarbooz aur mirch ki pewand kari (Grafting of watermelon and peppers). A book (in Urdu language) published by Institute of Horticultural Sciences, with cooperation of Endowment Funds Secretariat, UAF. (ISBN: 978-969-2277-31-0)

2. Ahmad, A., Ahmad, I., Riaz Khan, M., Shah, S.H.H., Kamran, M.A., Wajid, S.A., Amin, M., Khan, A., Arshad, M.N., Cheema, M.J.M., Saqib, Z.A., Ullah, R., **Khurram Ziaf**, ul Huq, A., Ahmad, S., Fahad, M., Waqas, M.M., Abbas, A., Iqbal, A. 2019. Agro-ecological zones of Punjab, Pakistan. Rome, FAO. (ISBN 9789251319499)
3. Khan, A.S. and **Khurram Ziaf**. 2017. Horticulture: Science and Technology. Endowment Funds Secretariat, University of Agriculture Faisalabad. (ISBN 978-969-8237-93-6)
4. Anwar, R. A.U. Malik, A.S. Khan and **Khurram Ziaf**. 2016. Harvest and Postharvest Management of Fruits and Vegetables. A Syllabus Book Developed in Project “Technical assistance to establish postharvest lab and capacity building in postharvest management at Agriculture Training Institute, Sakrand”, under Agricultural Innovation Program (AIP) for Pakistan.

BOOK CHAPTERS

1. Noor, A., S.T.A. Haider, A. Akbar, **Khurram Ziaf**, and M.A. Anjum. 2025. Protected olericulture. pp. 151-181. In: Z. Iqbal, M.A. Anjum, S. Ercisli and S. Rauf. (eds.). Sustainable and Innovative Vegetable Production in Times of Climate Change. Springer Nature Singapore Pte Ltd. (Published on 21 June 2025) https://doi.org/10.1007/978-981-96-6283-8_9
2. Ahmad, I., S. Ahmad, **Khurram Ziaf**, M.M. Jahangir and R. Anwar. 2018. High value horticultural crops. pp. 341-358. In: I.A. Khan and M.S. Khan (eds.). Developing Sustainable Agriculture in Pakistan. CRC Press. ISBN 1351208217, 9781351208215.
3. **Khurram Ziaf**, M. Amjad and M.A. Anjum. 2017. Production and Handling of Vegetable and Flower Seeds. pp. 103-131. In: A.S. Khan and **Khurram Ziaf** (eds.). Horticulture: Science and Technology. Endowment Funds Secretariat, University of Agriculture Faisalabad (ISBN 978-969-8237-93-6)
4. Usman, M., **Khurram Ziaf** and Z. Ye. 2017. Breeding and Crop Improvement. pp. 25-65. In: A.S. Khan and **Khurram Ziaf** (eds.). Horticulture: Science and Technology. Endowment Funds Secretariat, University of Agriculture Faisalabad (ISBN 978-969-8237-93-6)

Proceedings

1. Malik, A.U, M.A. Pervez, **Khurram Ziaf**, R. Anwar and B.A. Saleem. 2005. Proceedings of International Conference on Mango and Date Palm: Culture and Export, June 20 to 23, 2005.

Manuals

1. Abbasi, K.Y., **Khurram Ziaf** and I. Ahmad. 2025. Practical Manual: Medicinal Plants Processing. Horticulture Practical Manual Series 52. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. 978-969-2277-87-7 (Print); 978-969-2277-88-4 (e-Book)
2. Abbasi, K.Y. and **Khurram Ziaf**. 2024. Practical Manual: Medicinal and Aromatic Plants Production. Horticulture Practical Manual Series 12. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-74-7 (Print); 978-969-2277-75-4 (e-Book).
3. Abbasi, K.Y. and **Khurram Ziaf**. 2024. Practical Manual: Spices and Condiments. Horticulture Practical Manual Series 51. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-80-8 (Print); 978-969-2277-81-5 (e-Book).

4. **Khurram Ziaf**, A.U. Malik and R. Anwar. 2022. Practical Manual: Research Methods in Horticulture. Horticulture Practical Manual Series 24. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-44-0 (Print); 978-969-2277-45-7 (e-Book).
5. **Khurram Ziaf**, I. Ahmad and M.A. Ghani. 2022. Practical Manual: Principles of Flowers and Vegetable Seed Production. Horticulture Practical Manual Series 30. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-52-5 (Print); 978-969-2277-53-2 (e-Book).
6. Anwar, R., S.U. Rehman, R.W. Khan and **Khurram Ziaf**. 2022. Practical Manual: Mineral Nutrition of Horticultural Crops. Horticulture Practical Manual Series 37. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-22-8 (Print); 978-969-2277-23-5 (e-Book).
7. **Khurram Ziaf**, M.A. Ghani and R.M. Abbas. 2022. Practical Manual: Principles of Flowers and Vegetable Seed Production. Horticulture Practical Manual Series 40. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-60-0 (Print); 978-969-2277-61-7 (e-Book).
8. **Khurram Ziaf**, M.A. Ghani and A. Shakeel. 2022. Practical Manual: Vegetable Breeding. Horticulture Practical Manual Series 42. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-26-6 (Print); 978-969-2277-27-3 (e-Book).
9. **Khurram Ziaf**, I. Ahmad and M.A. Ghani. 2022. Practical Manual: Bulb and Root Vegetable Crops. Horticulture Practical Manual Series 43. Institute of Horticultural Sciences, University of Agriculture, Faisalabad. ISBN No. 978-969-2277-64-8 (Print); 978-969-2277-65-5 (e-Book).

PAPERS PUBLISHED IN IMPACT FACTOR JOURNALS (IF = 85.024)

1. Usman, H.M., S. Hussain, R. Anwar, A.S. Khan, A.U. Malik, M.M. Ali, **Khurram Ziaf** and A. Abbas. 2025. Postharvest application of 1-methylcyclopropene and modified atmosphere packaging extends shelf life and maintains eating quality of mango fruit cv. Sufaid Chaunsa. Turkish Journal of Agriculture and Forestry. 49: 415-425. doi:10.55730/1300-011X.3275 (IF = 3.0) Q1
2. **Khurram Ziaf**, I. Mumtaz, Y. Majeed, M.A. Ghani, F. Shireen, I. Ahmad, N. Faried, H. Mujahid and S. Riasat. 2024. Grafting of watermelon onto local and exotic rootstocks as mean to improve plant growth, production and quality. Pakistan Journal of Agricultural Sciences. 61: 1147-1156. 10.21162/PAKJAS/24.271 (IF=0.6)
3. Ahmad, N., I. Ahmad, **Khurram Ziaf** and M. Naveed. 2024. Non-composted and blended agro-industrial by-products as an alternative soilless substrate affect potted zonal geranium (*Pelargonium x hortorum*) and murva (*Murraya paniculata*) production. Scientia Horticulturae. 337:113547. (IF=4.2)
<https://doi.org/10.1016/j.scienta.2024.113547>
4. Rehman, M.M., J. Liu, A. Nijabat, I.M. Alsudays, M.A. Saleh, K.H. Alamer, H. Attia, **Khurram Ziaf**, Q.U. Zaman and M. Amjad. 2024. Seed priming with potassium nitrate alleviates the high temperature stress by modulating growth and antioxidant potential in carrot seeds and seedlings. BMC Plant Biology. 24:606. (IF=4.8) <https://bmcpplantbiol.biomedcentral.com/articles/10.1186/s12870-024-05292-1>
5. Rasool, S., I. Ahmad, **Khurram Ziaf** and Muhammad Naveed. 2024. Plant growth promoting rhizobacteria incorporated soilless substrates- A potential arena for high

- quality nursery production of ornamentals. *Scientia Horticulturae*. 326:112745. <https://doi.org/10.1016/j.scienta.2023.112745> (IF=4.2)
6. Abbas, M.M., M.A. Ghani, **Khurram Ziaf**, T.N. Khan, M.M. Jahangir, F.S. Awan, S. Nawaz and M.M. Hussain. 2024. Development and characterization of F1 hybrid tomato by inter and intraspecific hybridization. *Pakistan Journal of Agricultural Sciences*. 61(1):199-207. <https://doi.org/10.21162/PAKJAS/24.218> (IF=0.6)
 7. **Khurram Ziaf**, H.M. Talha, M.A. Ghani, I. Ahmad, R. Anwar, B. Ali, Y. Majeed, A. Shakeel, M. Iqbal and A. Zaid. 2023. Differential accumulation pattern of cadmium in plant parts of pea varieties in response to varying cadmium levels. *South African Journal of Botany*. 161:599-606. (ISSN 0254-6299; IF=2.7; W category) <https://doi.org/10.1016/j.sajb.2023.08.044>
 8. Noor, A., Khurram Ziaf, M. Naveed, K.S. Khan, M.A. Ghani, I. Ahmad, R. Anwar, M.H. Siddiqui, A. Shakeel and A. Khan. 2023. L-Tryptophan-dependent auxin-producing plant-growth-promoting bacteria improve seed yield and quality of carrot by altering the umbel order. *Horticulturae*. 9:954. (ISSN 2311-7524; W category) <https://doi.org/10.3390/>
 9. Abbas, F., H.N. Faried, G. Akhtar, S. Ullah, T. Javed, M. Shehzad, **Khurram Ziaf**, K. Razzaq, M. Amin, F.M. Wattoo, A. Hafeez, M. Rahimi and A.H.A. Abeed. 2023. Cucumber grafting on indigenous cucurbit landraces confers salt tolerance and improves fruit yield by enhancing morpho-physio-biochemical and ionic attributes. *Scientific Reports*. 14:2935. (IF=3.9; W category) <https://www.nature.com/articles/s41598-023-48947-z>
 10. Ghani, M.A., M.M. Abbas, B. Ali, Q. Iqbal, J. Iqbal, **Khurram Ziaf**, S. Nawaz, M. Azam, R.W.K. Qadari, F. Shireen, A. Noor and M.M. Jahangir. 2023. Optimizing efficacy of turnip growth through foliar application of glutamic acid under saline conditions. *Emir. J. Food Agric*. 35(4):370-378. (IF=0.7; ISSN = 2079-0538) doi: 10.9755/ejfa.2023.v35.i4.3015
 11. Altaf, S., R.Z. Abbas, T. Akhtar, F. Siddique, M.S. Mahmood, M.K. Khan, **Khurram Ziaf**, M. Rafay, M.A. Khan, A. Abbas, T. Rehman, L.A. Marcelino, M. Zia, H.F. Khater, N.M. Saeed and K.Y. Abbasi. 2023. Antioxidant rich medicinal plants as a potential candidate to treat gastric ulcer. *Boletin Latinoamericano Y del Caribe de Plantas Medicinales Y Aromaticas* 22 (5):560-580. (IF = 0.7) <https://doi.org/10.37360/blacpma.23.22.5.41>
 12. Asghar, R., **Khurram Ziaf**, I. Ahmad, M.A. Ghani and U. Shahzad. 2022. Sowing times affect flowering, pollen viability and seed yield of *Zinnia elegans* cvs. 'Lilliput' and 'Super Yoga'. *Pak. J. Agri. Sci*. 59(2):279-287. (IF=0.856)
 13. Fatima, K., I. Ahmad, J.M. Dole, N. Ahmad, M. Asif, **Khurram Ziaf**, M.A. Badar and K. Fatima. 2022. Folk floral preservatives extend postharvest longevity of *Eustoma grandiflorum* L. *Sci. Hort.* 301:111132. (IF = 4.3; ISSN 1879-1018; W category; <https://www.sciencedirect.com/science/article/pii/S0304423822002539>) (IF=4.342)
 14. **Khurram Ziaf**, M. Amjad, M.A. Ghani, I. Ahmad, M. Ayub, M. Sarwar, Q. Iqbal and M.A. Nawaz. 2022. Comparative efficacy of magnetic field seed treatment and priming in improving growth and productivity of okra. *J. Anim. Plant Sci*. 32(1):84-90. (ISSN 1018-7081,2309-8694 ; Y category) (IF=0.57) <https://www.thejaps.org.pk/docs/2022/01/11.pdf>
 15. Bashir, M.K., A.U. Malik, M.U. Farrukh, S. Hameed, M. A. Kamran and **Khurram Ziaf**. 2022. Forecasting tomato production under climate variability in Pakistan. *J.*

- Anim. Plant Sci. 32(1):218-228. (ISSN 1018-7081,2309-8694 ; Y category)
<https://thejaps.org.pk/docs/2022/01/23.pdf> (IF=0.57)
16. Ahmad, I., **Khurram Ziaf**, M. Shahid, H.A. Iqbal, H.A. Saeed and H.K. Ali. 2021. Optimal preparation of *Rosa centifolia* ‘UAF’ cuttings. J. Anim. Plant Sci. 31(6): 1712-1719.
 17. Ghani, M.A., A. Mushtaq, **Khurram Ziaf**, B. Ali, M.M. Jahangir, R.W. Khan, I. Khan, M. Azam and A. Noor. 2021. Exogenously applied GA₃ promotes plant growth in onion by reducing oxidative stress under saline conditions. Journal of Agricultural Sciences-Tarim Bilimleri Dergisi. 27(2):122-128. (ISSN 2148-9297; Y category) (IF=0.669) DOI: 10.15832/ankutbd.621546
<https://dergipark.org.tr/tr/download/article-file/810431>
 18. Iqbal, P., M.A. Ghani, B. Ali, M. Shahid, Q. Iqbal, **Khurram Ziaf**, M. Azam, A. Noor, K.L. Cheema, J. Ahmad. 2021. Exogenous application of glutamic acid promotes cucumber (*Cucumis sativus* L.) growth under salt stress conditions. Emir. J. Food Agric. 33(5):407-416. (IF=1.031) (X category)
<https://www.ejfa.me/index.php/journal/article/view/2699/1465>
 19. Hasan, M.U., A.U. Malik, R. Anwar, A.S. Khan, M.W. Haider, R. Riaz, S. Ali, R.N.U. Rehman and **Khurram Ziaf**. 2021. Postharvest *Aloe vera* gel coating application maintains the quality of harvested green chilies during cold storage. J. Food Biochem. 45:e13682. (IF=2.720) (ISSN 1745-4514,0145-8884)
<https://onlinelibrary.wiley.com/doi/epdf/10.1111/jfbc.13682>
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 20. Ghani, M.A., M.M. Abbas, B. Ali, **Khurram Ziaf**, M. Azam, R. Anjum, Q. Iqbal, M. Nadeem, A. Noor and U. Jillani. 2021. Role of salicylic acid in heat stress tolerance in Tri-Genomic *Brassica napus* L. Bioagro. 33(1): 13-20. (IF=0.460; ISSN 2521-9693)
<https://revistas.uclave.org/index.php/bioagro/article/view/3018/1877>
doi: <http://www.doi.org/10.51375/bioagro331.2>
 21. Ghani, M.A., M.M. Abbas, **Khurram Ziaf**, M. Azam, B. Ali, M. Amjad, R. Anjum, A. Noor and M. Zahid. 2020. Production and characterization of inter and intraspecific hybridization eggplant. Horticultura Brasileira. 38: 407-414. (IF=0.845; ISSN 0102-0536) Doi: <http://dx.doi.org/10.1590/s0102-0536202004011>
 22. Noor, A., **Khurram Ziaf**, Muhammad Amjad and Iftikhar Ahmad. 2020. Synthetic auxins concentration and application time modulates seed yield and quality of carrot by altering the umbel order. Scientia Horticulturae. 262:109066. (IF=3.463)
<https://doi.org/10.1016/j.scienta.2019.109066>
 23. Anjum, Q.S., M. Amjad, **Khurram Ziaf** and A. Habib. 2020. Seed treatment with salicylic acid improves growth, biochemical attributes and quality seed production of pea. Pak. J. Agri. Sci. 57(5): 1370-1379. (IF=0.748)
<https://pakjas.com.pk/papers/3256.pdf>
 24. Husnain, R.T., M. Amjad, **Khurram Ziaf** and S.T. Sahi. 2020. Planting geometry effects on seed yield and quality of two radish cultivars. Pak. J. Agri. Sci. 57(3): 637-643. (IF=0.748) <http://www.pakjas.com.pk/papers/3157.pdf> DOI: 10.21162/PAKJAS/20.8679
 25. Mahmood-ur-Rehman, M., M. Amjad, **Khurram Ziaf** and R. Ahmad. 2020. Seed priming with salicylic acid improve seed germination and physiological responses of carrot seeds. Pak. J. Agri. Sci. 57(2):351-359. (IF=0.748)
<http://www.pakjas.com.pk/papers/3116.pdf>
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26. **Khurram Ziaf**, M. Amjad, A. Din, M. Zubair, M.A. Ghani and I. Ahmad. 2020. Recovery and efficiency of applied nutrients affect yield and related traits of turnip cultivar Purple Top White Globe. Pak. J. Agri. Sci. 57(1):159-164. (IF=0.748) <https://www.pakjas.com.pk/papers/3084.pdf> DOI: 10.21162/PAKJAS/20.7028
27. Rasool, S., I. Ahmad, A. Ahmad, B. Abdullah and **Khurram Ziaf**. 2020. Current status and issues of soilless substrate usage in ornamental nursery production business in Punjab, Pakistan. Pak. J. Agri. Sci. 57(3):631-636. (IF=0.748) DOI: 10.21162/PAKJAS/20.8347 <http://www.pakjas.com.pk/papers/3156.pdf>
28. Noor, A., **Khurram Ziaf**, M. Amjad and R. Ahmad. 2019. Potash application enhances the yield and seed attributes of carrot by improving the quality of tertiary umbel seeds. Pak. J. Agri. Sci. 56(1):83-94. (IF=0.663) <http://pakjas.com.pk/papers/2931.pdf>
29. Ghani, M.A., M.M. Abbas, M. Amjad, **Khurram Ziaf**, B. Ali, T. Shaheen, F.S. Awan and A.N. Khan. 2019. Production and characterisation of tomato derived from interspecific hybridisation between cultivated tomato and its wild relatives. J. Hortic. Sci. Biotechnol. 95(4): 506-520. DOI: 10.1080/14620316.2019.1689182 (IF=1.16) <https://www.tandfonline.com/doi/epub/10.1080/14620316.2019.1689182?needAccess=true>
30. Ahmad, W., C.M. Ayyub, M.A. Shehzad, **Khurram Ziaf**, M. Ijaz, A. Sher, T. Abbas and J. Shafi. 2019. Supplemental potassium mediates antioxidant metabolism, physiological processes, and osmoregulation to confer salt stress tolerance in cabbage (*Brassica oleracea* L.). Hortic. Environ. Biotechnol. 60(6):853-869. (IF = 1.585; ISSN 2211-3460) <https://doi.org/10.1007/s13580-019-00172-2>
31. Ahmad, I., B. Abdullah, J.M. Dole, M. Shahid and **Khurram Ziaf**. 2019. Evaluation of the air pollution tolerance index of ornamentals growing in an industrial area compared to a less polluted area. Hortic. Environ. Biotechnol. 60(4):595-601. (IF = 1.585) <https://link.springer.com/content/pdf/10.1007%2Fs13580-019-00141-9.pdf>
32. Sharif, M.Z., S.J.N. Ahmad, M. Tahir, **Khurram Ziaf**, S.H. Zhang and J.N. Ahmad. 2019. Molecular identification and characterization of phytoplasmas associated with carrot, cabbage and onion crops and their insect vectors in Punjab, Pakistan. Pak. J. Agri. Sci. 56(2):407-414. (IF=0.663) <http://pakjas.com.pk/papers/2973.pdf>
33. Rehman, F., A. Saeed, M. Yaseen, A. Shakeel, **Khurram Ziaf**, H. Munir, S.A. Tariq, M.A. Raza and A. Riaz. 2019. Genetic evaluation and characterization using cluster heat map to assess NaCl tolerance in tomato germplasm at the seedling stage. Chilean J. Agric. Res. 79(1):56-65. (IF=0.883; ISSN 0718-5839) <https://scielo.conicyt.cl/pdf/chiljar/v79n1/0718-5839-chiljar-79-01-00056.pdf>
34. Riaz, R., A.S. Khan, **Khurram Ziaf** and H.M.N. Cheema. 2018. Genetic diversity of wild and cultivated mango genotypes of Pakistan using SSR markers. Pak. J. Agri. Sci. 55(1):83-93. (IF=0.677) <https://www.pakjas.com.pk/papers/2794.pdf>
35. Mushtaq, S., M. Amjad, **Khurram Ziaf** and I. Afzal. 2018. Gibberellins application timing modulates growth, physiology, and quality characteristics of two onion (*Allium cepa* L.) cultivars. Environ. Sci & Pollut. Res. 25(25):25155-25161. <https://doi.org/10.1007/s11356-018-2542-9> (IF=2.8, ISSN 1614-7499)
36. Saleem, A.M., M. Amjad, **Khurram Ziaf** and S.T. Sahi. 2018. Characterization of okra (*Abelmoschus esculentus*) genotypes for fruit firmness, other horticultural traits and heritability studies. Int. J. Agric. Biol. 20:345-352. (IF=0.869, ISSN 1814-

- 9596) http://www.fspublishers.org/published_papers/9126_.pdf
DOI: 10.17957/IJAB/15.0497
37. **Khurram Ziaf**, M. Faheem, M. Amjad, M.M. Jahangir and Q. Iqbal. 2017. Pericarp loosening and reduced lipid peroxidation enhances spinach seed performance and biomass production under normal and saline conditions. *Pak. J. Agri. Sci.* 54(2):299-309. (IF=0.677)
 38. Ewais, M., E. Khames, **Khurram Ziaf**, R. Shahzad, E. Nishawy, F. Ali, H. Subthain, M.H. Amar, M. Ayaad, O. Ghaly and J. Luo. 2017. The Tomato DOF Daily Fluctuations 1, TDDF1 acts as flowering accelerator and protector against various stresses. *Scientific Reports.* 7:10299. DOI:10.1038/s41598-017-10399-7 (IF=4.12, ISSN 2045-2322)
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WORKSHOPS/SEMINARS ORGANIZED

- International workshop "Development of research database and perform statistical analysis using MS access and R", 8th to 10th December, 2025.
- Hands on Training Workshop on "Demonstration of vegetable seed production to stakeholders", 4th December 2025, at UAF.
- National seminar "Introducing exotic fruit crops for diversification and sustainable production" 17th September, 2025.
- Focal person of training workshop "Demonstration of methods for quality seed production of vegetable crops, June 24, 2025 at UAF.
- Outreach Training Workshop on "Flower production, postharvest handling & value addition techniques", 31st January, 2025, at Tibba Sultan Pur, Melsi (Vehari).
- Outreach Training Workshop on "Flower production, postharvest handling & value addition techniques", 30th January, 2025, at Sahiwal (Sargodha).
- Training Workshop on "Demonstration of vegetable seed production technology to stakeholders", 24th June 2024, at UAF.
- Member organizing committee "3rd Pakistan Seed Congress" in collaboration with Public and Private seed sector from 28th to 30th April, 2024 at UAF.
- Member of training workshop "Enabling women in climate resilient culinary herbs gardening" 25th to 26th April, 2024 (Member).
- "National Seminar on Germplasm Diversification in Fruit Crops", on December 06, 2022, at IHS (Member).
- One day International Collaborative Workshop on opening ceremony of "China-Pakistan Horticulture Research and Development Center (CPHRDC)" with Huazhong Agriculture University, Wuhan, P.R. China", on November 02, 2022. (Member)
- One day International Collaborative Seminar "Opportunities for collaboration in Horticulture Research with Huazhong Agriculture University, Wuhan, P.R. China", on October 22, 2022. (Member)
- Member Seminar organizing committee "Diagnosis and management of Chilli Diseases" 9th June, 2022, at Toba Tek Singh (Member).
- Workshop/Seminar "Hands on training in hybrid seed production of tomato" on 21st April, 2022, at UAF. (Focal person)
- International workshop "Diversification, value addition and supply chain management of floriculture industry" (two days), 24th & 25th March, 2022, at UAF. (member management committee)
- "Participatory farmer training session (PFTS) to provide training in crop management practices" on 24th March, 2022 at Muzaffargarh (village Haji Wah).
- "Workshop-Demonstration of best production practices for potato" on 3rd February, 2022 at Okara.

- “Participatory farmer training session (PFTS) to provide training in crop management practices” on 27th January, 2022 at Muzaffargarh (village Baili Janobi).
- “Training of farmers in best practices for tomato nursery production in plug trays and transplanting method”, on 7th December, 2021 at Muzaffargarh (village Baili Janobi).
- “Training of farmers in modern nursery production method using local substrates”, on 8th November, 2021 at Muzaffargarh (village Baili Janobi).
- One day seminar “Vegetable grafting: A step towards organic production”, on 30th September, 2021, at UAF.
- “Training workshop on watermelon and chilli grafting and locally developed media for nursery raising of cucurbits and chilli” on 22nd September, 2021 at Mamu Kanjan, Faisalabad.
- “Training Workshop on Modern Substrates, Nursery Raising Protocols for Watermelon and Chilli, and Watermelon and Chilli Grafting” on September 11, 2021, at Gujranwala (Chibba Sandhawan), Pakistan.
- “Training Workshop on Modern Substrates and Nursery Raising Protocols for Summer Vegetables” on March 17, 2021, at Gujranwala (Musnada Virkan), Pakistan.
- “Training of farmers and stakeholders in grafting techniques” on March 02, 2021, at Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
- “International Horticulture E-Conference” on February 22-23, 2021 at University of Agriculture, Faisalabad.
- “Tomato Seed Germplasm Handling, Packing & Storage”, on September 01, 2020 at Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
- Seminar on “Dissemination of Seed Production Technology of Vegetable Crops”, organized under project “Dissemination of Seed Production Technology of Important Crops (Component I: Vegetable Seed Production), on August 20, 2016, at University of Agriculture, Faisalabad.
- “One day Farmers’ Participatory Workshop on Seed Production Technology of Vegetable Crops: Harvesting Indices, Harvesting Procedures and Storage of Vegetable Seed Crops”, held on July 20, 2016, at Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
- “One day Farmers’ Participatory Workshop on Seed Production Technology of Vegetable Crops: Irrigation, Fertilizer Application, and Insect-Pests and Disease Management”, held on April 18, 2015, at Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
- “One day Farmers’ Participatory Workshop on Seed Production Technology of Vegetable Crops: Roguing and Isolation for Pure Seed Production”, held on June 26, 2014, at Institute of Horticultural Sciences, University of Agriculture, Faisalabad.

PARTICIPATION IN CONFERENCES/SEMINARS/SYMPOSIUM/WORKSHOPS

- “Carbon Credit Management and Climate Change”, Field Crops Webinar Session 2, organized by APSA (The Asia and Pacific Seed Association), August 27, 2025.
- “Prospects of papaya cultivation & postharvest management with eco-friendly chemicals”, 3rd June, 2025, at UAF.
- Training workshop “ISTA quality assurance and accreditation requirements for seed testing laboratories”, 2nd & 3rd June, 2025.

- “Papaya production and postharvest challenges & their solutions”, 31st May, 2025, at UAF.
- “Prospects of balance nutrient management for high quality citrus production”, 24th May, 2025, at UAF.
- “Soil Health” Field Crops Webinar Session 1, organized by APSA (The Asia and Pacific Seed Association), April 22, 2025.
- International Conference “Climate Change: Impacts & Solutions”, University of Agriculture Faisalabad, November 7-9, 2022.
- International Conference on Interdisciplinary Research Innovations, UAF Community College, Postgraduate Agricultural Research Station (PARS) Faisalabad, Pakistan, October 26-28, 2022.
- Diversification, Value Addition and Supply Chain Management of Floriculture Industry, UAF, March 24-25, 2022.
- First National Date Palm Stakeholder Meeting and & Date Palm Festival, UAF, October 14 & 15, 2021.
- International Horticulture Conference (Revolutionizing Horticulture for Secured Future), IHC 2020, University of Punjab, Lahore, February 26-28, 2020.
- Kitchen Gardening/Edible Landscape, UAF, February 02, 2020.
- TROPAG, International Tropical Agriculture Conference, Brisbane, Australia, November 11-13, 2019.
- 1st International Conference on Horticultural Crop Production and Protection: Emerging Techniques for Sustainable Crop Production, University of Sargodha, September 19-20, 2019.
- 1st International Conference on Sustainable Agriculture: Food Security Under Changing Climate Scenarios, Ghazi University, Dear Ghazi Khan, April 03-05, 2019.
- 1st International Conference On Science, Technology And Innovation, Kinnaird College For Women, Lahore, April 02-04, 2019.
- International Horticulture Conference, Pakistan, PMAS-Arid Agriculture University Rawalpindi, Pakistan, April 25-27, 2018.
- **“Fourth International Conference on Global Environment Changes”**, organized by GC University Faisalabad, on May 4-5, 2017.
- One day seminar on **“Establishment of Date Palm Germplasm Unit”**, organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad, on December 28, 2016, at University of Agriculture, Faisalabad.
- Seed Training Workshop on **“Dry Chain Technology For Reducing Postharvest Losses of Seeds and Grains”**, organized by U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security, on November 23, 2016, at University of Agriculture, Faisalabad.
- International Conference on **“Sustainable Agriculture in Pakistan”**, organized by U.S. Pakistan Center for Advanced Studies in Agriculture and Food Security, on November 17-19, 2016, at University of Agriculture, Faisalabad.
- Four Days Workshop on **“Hybrid Course Design and Development”**, organized by U.S. Pakistan Center for Advanced Studies in Agriculture and Food Security, on October 18-21, 2016, at University of Agriculture, Faisalabad.
- National Workshop on **“Organic Food and Health: Avenues of Innovation and Entrepreneurship”** organized by Pakistan Council for Science and Technology, on August 29, 2016 at University of Management and Technology, Lahore.

- Two days Training Workshop on “**Applications of Bioinformatics in Genomics**”, organized by US-Pakistan Center for Advanced Studies in Agriculture and Food Security, on September 16-17, 2015, at University of Agriculture, Faisalabad.
- “**Biosafety Training Workshop for Young Scientists**”, held at Department of Biochemistry, University of Agriculture, Faisalabad, on June 13, 2015.
- **Use of Bioinformatics in High Throughput Sequencing, Genomics, Proteomics and Transcriptomics**, organized by National Institute of Biotechnology and Genetic Engineering (NIBGE) Faisalabad, on 31st March, 2015.
- “**Postharvest Strategies for Vegetable Value Chains Improvement**”, Organized by AVRDC-Pakistan, at PGRI, NARC, Islamabad under AIP for Pakistan, on September 17-18, 2014.
- Workshop on “**Capacity Building in Seed Technology**” organized by Pakistan Seed Academy, University of Agriculture, Faisalabad, on 7th June, 2014.
- “**Enquiry-based learning**”, Organized by University of Agriculture, Faisalabad in collaboration with the University of Manchester, UK, on March 01, 2014.
- “**First Participatory Workshop on Carrot Husbandry**” organized under the project “Improving Farmers’ Profitability and Human Nutrition Through Popularization of Carrots”, by Institute of Horticultural Sciences, University of Agriculture, Faisalabad, on 27th February, 2014.
- Two days workshop on “**Molecular Approaches for Crop Improvement**”, organized by University of Agriculture, Faisalabad-Pakistan, 20th to 21st January, 2014.
- **Project Formulation Workshop**, organized by Pakistan Science Foundation, at University of Agriculture, Faisalabad, on December 3-4, 2013
- **Molecular Techniques for Breeding Horticultural and Agronomic Crops**, organized by Institute of Horticultural Sciences and Office of Research, Innovation and Commercialization, University of Agriculture, Faisalabad, 30th September to 2nd October 2013.
- **International Conference on Crop Management in Changing Climate**, organized by Department of Agronomy, Botany and Crop Physiology, University of Agriculture, Faisalabad-Pakistan, 11th to 13th February, 2013.
- **1st International Conference on Global Environmental Changes**, organized by Department of Environmental Sciences, Govt. College University Faisalabad-Pakistan, 15th to 16th January, 2013.
- **International Seminar Challenges And New Trends In Vegetable Production**, organized by Vegetable Research Institute, Faisalabad, 18th December, 2012.
- **7th Scientific Agricultural Conference**, organized by Jordan University of Science and Technology, Irbid, Jordan, 8th to 10th October, 2012.
- **Eleventh International Citrus Congress** organized by International Society of Citriculture in Wuhan, China, 26th to 30th October, 2008.
- **Prospects of Horticultural Industry in Pakistan** organized by Institute of Horticultural Sciences at University of Agriculture, Faisalabad, 28th to 30th March, 2007.
- **First International Conference on Mango and Date Palm: Culture and Export** organized by Institute of Horticultural Sciences at University of Agriculture, Faisalabad, 20th to 23rd June, 2005.
- **International Conference on Citriculture** organized by Institute of Horticultural Sciences at University of Agriculture, Faisalabad from 28th to 30th April, 2004.
- **Seminar on Grading and Packaging of Mangoes** organized by Export Promotion Bureau Multan, 16th May, 2000.

TRAININGS/COURSES (Attended)

- **“ISTA Online Workshop on Quality Assurance and ISTA Accreditation for Early Beginners”**, hosted by ISTA 16 – 18 December 2024, virtually from France & Switzerland.
- Completed course **“Enhanced Learner-Centered Pedagogical Skills”**, Organized by University of Agriculture, Faisalabad in collaboration Academics Without Borders, Universitaires sans frontieres, from 12-23 February, 2024.
- **“Training Workshop for NAEAC Program Evaluators”** organized by National Agriculture Education Accreditation Council, HEC, Islamabad on January 01, 2024 at University of Agriculture, Faisalabad.
- Short term training program on **“An Introduction to R-Programming Language for Statistical Computing”** organized by the Department of Mathematics and Statistics, University of Agriculture, Faisalabad-Pakistan, from 24th May to 14th June, 2013.
- Series of Workshop for co-tutors on **Learning by Doing: Tools and Techniques for Working as a Team**, organized by the Office of the Senior Tutor, University of Agriculture, Faisalabad-Pakistan, on 2nd, 3rd, 6th and 7th May, 2013.
- **4th One Day Workshop on Bioinformatics**, organized by Department of Bioinformatics, Mohammad Ali Jinnah University, Islamabad Campus, on May 4, 2013.
- **Training Workshop on Global GAP Certification**, organized by University of Agriculture, Faisalabad for Capacity Building under Supply Chain Improvement Project, on December 10th to 14th, 2012.
- **Workshop/Training on Self-Assessment Report**, organized by Quality Enhancement Cell (QEC), University of Agriculture, Faisalabad, on 8th December, 2012.
- **1st Training Course on Biochemical and Molecular Techniques in Plant Breeding** held at Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad, Pakistan on September 12 to 23, 2011.
- **33rd Postgraduate Training Course on Nuclear and Other Advanced Techniques In Agricultural And Biological Research** held at Nuclear Institute For Agriculture And Biology (NIAB), Faisalabad, Pakistan on 5th-16th December 2005.
- **Staff Development Course** under the scheme National Academy of Higher Education held from September 5 to October 1, 2005 at the University of Agriculture, Faisalabad.
- **Course of Instruction in Civil Defence Basic General/Basic Fire Fighting** held by the civil defence department at University of Agriculture, Faisalabad from 28th February to 5th March, 2002.

WORKSHOPS/SEMINARS ATTENDED AS RESOURCE PERSON/GUEST SPEAKER

- **“Vegetable Seed Production: Challenges and Prospects”**, organized by Department of Plant Breeding and Genetics, College of Agriculture, University of Sargodha, Pakistan on February 15, 2024.
- **“Organic Seed Production of Tomato and Onion in Partners Training Program** under the project **“Building the Policy Ecosystem for Organic Production Landscape in Baluchistan, Pakistan”** organized by CAB-International on November 1-2, 2023 at Multan.

- Lecture delivered on “Organic Onion Seed Production” in workshop “Awareness Workshop for Advocacy of Organic Seed Breeding & Multiplication with Stakeholders”, organized by CAB-International on October 18, 2023, at Multan.
- Hands on Training of Agricultural Scientists of Government of Sindh in “Plant Tissue Culture, Poly Tunnel Farming & Value Addition of Horticultural Crops” Organized by Institute of Horticultural Sciences, University of Agriculture Faisalabad, from 21-30 June, 2021.
- Tomato Seed Germplasm Handling, Packing & Storage, at Institute of Horticultural Sciences, University of Agriculture, Faisalabad, on September, 2020.
- Developing Entrepreneurial Skills Among Farmers: The Case of Peri-Urban Vegetable Growers From Faisalabad, at University of Agriculture, Faisalabad, on March 27, 2018.
- International Workshop: Developing Vegetable Seed Industry, at University of Agriculture Faisalabad, on January 11, 2018.
- Training on Off Season Tunnel Farming under the project “Capacity Building of Agriculture Scientists” in collaboration with Govt. of Balochistan, at University of Agriculture, Faisalabad, on March 19 to 22, 2018.
- Member panel of experts at Agriculture Congress, at University of Agriculture, Faisalabad, on March 11, 2017.
- One Week Course on Tunnel Farming, at Institute of Horticultural Sciences, University of Agriculture, Faisalabad, on March 16 to 20, 2015.

SESSIONS CHAIRED IN CONFERENCES/SEMINARS/WORKSHOP

- International Horticulture Conference 2023 (February 23rd-25th); Technical Session-IV- Theme: Horticultural Crop Production and Management Thursday, 23rd February 2023 Chair: Dr. Khurram Ziaf, Associate Professor, Institute of Horticultural Sciences, UAF; Co-chair: Dr. Raheel Anwar, Associate Professor, Institute of Horticultural Sciences, UAF.

EDITORIAL/CO-CURRICULAR ACTIVITIES

- Associate Editor of **Pakistan Journal of Life and Social Sciences** from 25th March, 2013 to July 2015.
- Member Editorial Board of **Journal of Environment and Agricultural Sciences**.
- Co-tutor of Group Iqbal-7 (TGM-170).
- Section Editor “**Journal of Horticultural Science and Technology**” since 2021 to 2024.

STUDENT SUPERVISION EXPERIENCE

Degree	Supervisor		Member Supervisory Committee	
	Completed	Ongoing	Completed	Ongoing
Ph.D.	01	03	08	03
M.Sc.(Hons)/M.Phil.	63	04	90	06

HONORS/AWARDS

- Gold Medal in B. Sc. (Hons) Agriculture
- Awarded Professor (Rtd.) Musahib-Ud-Din Khan Scholarship during M.Sc.(Hons) (University of Agriculture, Faisalabad)

- Awarded Cultural Exchange Scholarship (China)
- HEC approved Ph.D. supervisor

MEMBERSHIP OF LEARNED SOCIETIES

- Pakistan Society of Horticultural Science
- Pakistan Botanical Society

COMMUNITY SERVICES

- Training of farmers in modern nursery raising in different districts of Punjab (Muzaffargarh, Toba Tek Singh, Faisalabad, Gujranwala)
- Training of farmers in watermelon and pepper grafting
- Training of farmers from various districts for on-farm vegetable seed production in Faisalabad and Depalpur, as a result of which some farmers have started producing seeds of vegetable crops and selling to other farmers as well.
- Trained a class of women from Kamalia, district Toba Tek Singh in Kitchen Gardening.
- Trained interested growers in some aspects of tunnel farming.
- Distributed seed packets of different vegetables among the flood affected farmers in Jhang during 2014 as a part of rehabilitation work.

ADMINISTRATIVE WORK

- In-charge Vegetable Seed Lab, Institute of Horticultural Sciences.
- In-charge Vegetable Area, Institute of Horticultural Sciences.
- Member faculty scrutiny committee for Institute of Horticultural Sciences.
- Member of Academic Staff Association of University of Agriculture, Faisalabad.
- Member of Board of Studies of Institute of Horticultural Sciences.
- Member event organizing committee of Institute of Horticultural Sciences.

REFERENCES

- Prof. Dr. Ahmad Sattar Khan, Institute of Horticultural Sciences, University of Agriculture, Faisalabad. Cell # 0333-8364813; Email: askhan@uaf.edu.pk
- Prof. Dr. Aman Ullah Malik, Institute of Horticultural Sciences, University of Agriculture, Faisalabad. Cell # 0333-6516883; Email: malikaman1@gmail.com
- Prof. Dr. Muhammad Hammad Nadeem Tahir, Chairman Institute of Plant Breeding and Biotechnology, Muhammad Nawaz Sharif University of Agriculture Multan. Cell # 0321-7835708; Email: hammad.nadeem@mnsuam.edu.pk
- Prof. Dr. Zhibiao Ye, National Key Laboratory of Crop Genetic Improvement, Huazhong Agricultural University, Wuhan, 430070, PR China; Email: zbye@mail.hzau.edu.cn
- Prof. Dr. Muhammad Amjad, Ex. Dean Faculty of Agricultural Sciences, University of Agriculture, Faisalabad. Cell # 0300-6665056; Email: amjaduaf@gmail.com