

Curriculum Vitae

DR. AZRA YASMEEN
Director institute of agronomy
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House No. B-14. Staff Colony
Bahauddin Zakariya University, Multan.

Present Position:

Director Institute of Agronomy (January 12 2026 to date)
Professor (Agronomy) (December 2021 – to date)
Warden Girls Hostel Hajra Hall (Oct 2016 to date)
Lifetime Member of Pakistan Society of Agronomy

Qualification:

i) Ph.D.2011. ***University of Agriculture Faisalabad***
Thesis Title: Exploring the potential of moringa (*Moringa oleifera)* leaf extract as natural plant growth enhancer. **(CGPA 4.00/4.00)**

ii) M.Sc. (Hons.) Agronomy1999.*Department of Agronomy, University of Agriculture, Faisalabad, Pakistan* (CGPA 4.00/4.00)

iii) B.Sc. (Hons.) Agri. University College of Agriculture, B.Z. University, Multan1997. **(CGPA 3.84/4.00)**

Life Time Achievement:

To benefit the farming community Wins the Award of Higher Education Commission (HEC)Technology Development Fund (Rs. 13.85 million) for commercialization of Moringa based product"MLE30: A miracle Bio stimulant" Brand name "Sanjhi" with collaboration of well reputed Agro based industry "Hexon group of Chemicals (31.56 million)

Patents

Successfully secred two patents:

i) Patent No. 144598 Process for making a Pure Bio-Stimulant from Moringa Plant Material for Enhanced Plant Growth
ii) Patent No. 144599 Apparatus for Processing Moringa oleifera into Bio-Stimulants and Organic Fertilizer

Publications: **45**

i)	Research Papers in peer reviewed Impact Factor Journals	20
ii)	Published in Indexed Journal	25

Research:

i)	PhD. Students produced	06
ii)	M.Sc. (Hons.) Agriculture students supervised / Under supervision	32
iii)	Research Projects (Completed 06 + On-going 01)	**07**

Awards Received:

i) Australia Award in 2014 for " Training trainer on irrigation and water resource

management at grass root level"

ii) Qualify the GAT (Graduate Assessment test) General

iii) Awarded by PhD scholarship under "Indigenous PhD 5000 Fellowship program Batch IV"

iv) HEC Approved PhD Supervisor

v) Oral presentations – Young Scientists Competition

vi) TOEFL preparation participation

vii) Certificate of services "WOMEN GUARDS"

Areas of Specialization: Agronomy; Abiotic stresses / Crop Physiology

Professional Trainings/Certifications

Sr. No.	Name & Place	Type of Training	Duration		Degree/ Certification / Diploma obtained
			From	To	
A. International Trainings					
1.	Participatory appraisal and methods in agriculture extension **Place**; Malaysia	Extension methods	18.11.2001	27.11.2001	Certificate
2.	International seed course **Place;** Department of crop physiology, Univ. of Agriculture, Faisalabad, Pakistan.	Seed physiology, Production and Management	27.09.2011	29.09.2011	Certificate
3.	Australia Pakistan Agricultural Scholarship Short Course Award "Training trainers in irrigation and sustainable water resource management at the grass roots level" Place: The University of Queensland, Australia	Irrigation Water resource management	08.09.14	20.10.14	Certificate

NATIONAL TRAININGS

1	Directorate of Quality Enhancement and Department of Agronomy Bahauddin Zakariya University, Multan	Discovering yourself and others	06.05.2016	06.05.2016	Certificate
2	Bahauddin Zakariya University, Multan	Active Citizens Training of Facilitators	24.08.2015	28.08-2015	Certificate

3	U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security Place: University of Agriculture, Faislabad	Decision Support System for Agro-Technology Transfer	18.08.2015	19.08.2015	Certificate
4	American Society for Microbiology (ASM) Workshop **Place:** ASM BZU resource center	Scientific writing and publishing	02.10.2013	02.10.2013	Certificate
5	Two days workshop on Simulation Modeling **Place**: Dept of Agronomy, B.Z. Univ. Multan	A decision support system for Agro-technology transfer for improving the standards of research	04.03.2013	05.03.2013	Certificate
6	Statistical Modeling organized by HEC Learning Innovation Division **Place:** Dept of Agronomy**,** B.Z. Univ. Multan	Improving the standard of research and education for University professionals	23.01.2012	23.01.2012	Certificate
7	Three Days Cascading of Asian Institute of Technology (AIT), Thailand based Training Program **Place:** UCA, B. Z. Univ. Multan	Ensuring Training Effectiveness	09.04.2012	11.04.2012	Certificate
8	Workshop organized by Pakistan Science Foundation **Place:** B.Z. Univ. Multan	Training for Project formulation	20.06.2012	21.06.2012	Certificate
9	Modern Techniques in Research **Place:** NIAB, Faisalabad	Abiotic Stress Tolerance in Plants	05.09.2011	09.09.2011	Certificate
10	One day training workshop **Place:** NIBGE, Faisalabad	Varietal purity testing through DNA markers	04.05. 2011	04.05. 2011	Certificate
11	National training workshop / Seminar **Place:** Nawaz Sharif Medical College, University of Gujrat	Analytical Laboratory Management	23.06.2010	25.06. 2010	Certificate
12	38th Postgraduate Training Course **Place:** NIAB, Faisalabad	Nuclear and other Advanced Techniques in Agricultural and Biological Research	22.11.2010	03.12.2010	Certificate
13	Staff Development Course **Place**: B. Z.U Multan.	Scheme of National Academy of Higher Education Commission	09.06.2005	02.07.2005	Certificate

Designation	Department / Organization	Scale / Grade	From	To	Responsibilities
Professor	Agronomy / Faculty of Agricultural Sciences and Technology, BZ Univ. Multan	21	December 2021	to date	Teaching and Research
Associate Professor	Agronomy / Faculty of Agricultural Sciences and Technology, BZ Univ. Multan	20	April 1, 2016	2nd December 2021	Teaching and Research
Assistant Professor	Agronomy / Faculty of Agricultural Sciences and Technology, BZ Univ. Multan	19	September 9, 2012	March 31, 2016	Teaching and Research
Assistant Professor (Ad-hoc Bases)	Agronomy / Faculty of Agricultural Sciences and Technology, BZ Univ. Multan	19	March 22, 2012	September 8, 2012	Teaching and Research
Lecturer	Agronomy / Faculty of Agricultural Sciences and Technology, BZ Univ. Multan	18	October 12, 2002	September 9, 2012	Teaching and Research

Professional / Administrative Assignment

Sr. No.	Title
1	Director Institute of Agronomy, Faculty of Agricultural Sciences and Technology, B. Z. University, Multan
2	Chairperson Departmental Purchase Committee, Department of Agronomy, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University, Multan.
3	Secretary Technical Purchase Committee for the Project MLE30 entitled "MLE30: A miracle Bio stimulantDepartment of Agronomy, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University, Multan.
4	Member Board of Studies, Department of Agronomy, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University, Multan.
5	Member Board of Studies, in Agriculture Business and Marketing, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University, Multan
6	Female DSA Department of Agronomy, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University, Multan
7	Member Departmental Technical Review Committee DTRC for Department of Agronomy Bahauddin Zakariya University, Multan for evaluation of TTS faculty member
8	Member Departmental Technical Review Committee DTRC for College of Agriculture (Agronomy) Bahadur Campus Layyah, Bahauddin Zakariya University, Multan for evaluation of TTS faculty member
9	Member National Curriculum Revision Committee (NCRC) of HEC in Pakistan in crop physiology for Bachelor and Master degree Programe
10	Warden, Girls Hostle Hajra Hall, Bahauddin Zakariya University, Multan
11	Expert for Assessment of research workof the candidate for appointment as Professor (BPS-21)

	& (BPS-21) in the subject of Agronomy for Faculty of Agriculture, Gomal University, Dera Ismail Khan KPK, Pakistan
12	Reviewer Journal name "Frontiers in Veterinary Sciences" 2020 volume 7 Article 53 doi 10.3389/fvets.2020.00053
13	External Examiner for Viva Voce examination of MSc (Hons) for University of Sargodha, Sargodha

Publications

2026

Muhammad W. H., A. Yasmeen, H. Nawaz and A. Khalofah 2025. Moringa bio-stimulant promoted cotton production via coordinating anti-oxidants and physiological behaviors to combat reproductive drought stress. https://doi.org/10.1038/s41598-025-33402-y.

Maqsood, M., N. Hussain, **A. Yasmeen** and H. Nawaz. 2025 Moringa Bio-stimulator with Soil Organic Nitrogen Ameliorated Nitrogen UseEfficiencyandDroughtToleranceforHealthy Proso-millet Production Journal of Crop Health 77:113

2025

Yousaf, M.M., **A. Yasmeen**. S.H.S. Kareem, M. Arif, H.F. Alharby, H. Alsamadany, Y.M. Alzahrani, A.M. Alamri, A. Latif and H.U. Rehman. 2025. Mitigating Terminal Drought in Chickpea (Cicer arietinum L.) Using Organic Manures; Effects on Yield, Potassium Uptake and Antioxidants Activity. International Journal of Plant Production, https://link.springer.com/article/10.1007/s42106-025-00342-6

2024

Yasmeen, **A** and M. Imran. 2024.Growth promoters modulate the antioxidant system to mitigate water stress in quinoa. *Pak J.Bot*., 56(3): 853-862.

2022

1. Hussain, N., **A. Yasmeen**, M. M. Yousaf, W. Malik, S. Naz, I. Qadir, B. Saddiqb , A. Shaheen and R. Iqbal. 2022. Exogenously applied nutrients can improve the chickpea productivity under water stress conditions by modulating the antioxidant enzyme system. Brazilian Journal of Biology. 82:1-9. e236251. (HEC X category)
2. **Yasmeen**, A. and H. M. Muzamil. 2022. Induction of terminal heat stress tolerance in chickpea under exogenous application of growth promoters. J. Anim. Plant Sci. 32(4): 993-1000. (Impact factor 0.57)

3. Hussain, N., **A. Yasmeen**, and M. M. Yousaf. 2022. Antioxidant status and their enhancements strategies for water stress tolerance in chickpea. Brazilian Journal of Biology, 2022, vol. 82: 1-10. e237809. (HEC X category)

4. Hussain, N., **A. Yasmeen** and M. Bilal. 2022. The application of ammonium sulphate and amino acid on cotton: effects on can improve growth, yield, quality and nitrogen absorption. Brazilian Journal of Biology. Vol. 82: 1-8. e240133. doi.org/10.1590/1519-6984.240133. (HEC X category)

5. Arif, M., N. Hussaina, **A. Yasmeen**, S. Naz, A. Anwar, S. Mushtaq, J. Iqbal, A. Shaheen, M. Aziz, S. A. H. Bukhari and S. H. Shah. 2022. Exogenous application of bio-stimulant and growth retardant improved the productivity of cotton cultivars under different planting arrangement. Brazilian Journal of Biology, Vol. 82: 1-7. E238812. https://doi.org/10.1590/1519-6984.238812 (HEC X category)

6. Yasmeen, A., Hafiz Muhammad Muzamil, Saima Anjum and Aqeela Shaheen. 2022. Modulating the antioxidant enzyme system in chickpea to induce terminal heat stress tolerance under exogenous application of phytohormones. Pakistan Journal of Botany (Online Published) Pak. J. Bot., 55(1): DOI: http://dx.doi.org/10.30848/PJB2023-1(12) (Impact factor1.101)

2021

7. N. Hussain, A. Anwar, **A. Yasmeen**, M. Arif, S. Naz, M. Bibi, J. Iqbal, I. Qadir, M. N. Salim and S. Latif , 2021. Resource use efficiency of cotton in improved vs conventional planting geometry with exogenous application of bio-stimulant and synthetic growth retardant, Brazilian Journal of Biology, 81(1):18-26 https://doi.org/10.1590/1519-6984.213951. (HEC X category)

2020

8. Hussain, N., **A. Yasmeen**, M. A. Afzal. 2020. Exogenously applied growth promoters modulate the antioxidant enzyme system to improve the cotton productivity under water stress conditions. Italian Journal of Agronomy, 15:1537. (Impact factor1.632)

9. Nawaz, H., N. Hussain, M. Jamil, **A. Yasmeen**, S. A. H. Bukhari, M. Aurangzaib, M. Usman, 2020 Seed biopriming mitigates terminal drought stress at reproductive stage of maize by enhancing gas exchange attributes and nutrient uptake, Turk J Agric For. 44: 250-261. doi:10.3906/tar-1904-51 http://journalstubitak.gov.tr/agriculture/ (Impact factor 2.669)

2019

10. Arif, M., S. H. S. Kareem, N. S. Ahmad, N. Hussain, **A. Yasmeen**, A. Anwar, S. Naz, J. Iqbal, G. A. Shah and M. Ansar 2019. Exogenously Applied Bio-Stimulant and Synthetic Fertilizers to

Improve the Growth, Yield and Fiber Quality of Cotton, Sustainability, 11, 2171; doi:10.3390/su11072171(Impact factor 3.889)

11. Nawaz, H. N. Hussain, **A. Yasmeen**, H. Rehman, S. A. H. Bukhari, and M. I. A. Rehmani. 2019. Ultra-Narrow Row Spacing: A Sustainable and Economical Approach Ensuring Profitable Cotton Production Pak. J. Agri. Sci., Vol. 56(1), 101-107; 2019 (Impact factor 0.856)

12. Arif, M., N. Hussain and **A. Yasmeen.** 2019. Influence of Bio-Stimulant and Potassium Sources on the Productivity of Cotton, The J. Anim. Plant Sci. 29(6) (Impact factor 0.57)

13. Nasir, M.W., A. Yasmeen, M. Imran and T. Zoltan. 2019. Seed priming to alleviate drought stress in cotton. Journal of Environmental& Agricultural Sciences. 21:14-22.

2018

13. Yasmeen, A., M. Arif, N. Hussain, S. Naz and A. Anwar, 2018. Economic analyses of sole and combined foliar application of Moringa leaf extract (MLE) and K in growth and yield improvement of cotton. Int. J. Agric. Biol., 20: 857−863 (HEC Y category)

2017

14. Nawaz, H., N. Hussain, A. **Yasmeen,** S. A. H. Bukhari1 and M. B. Hussain. Seed. 2017 priming: a potential stratagem for ameliorating soil water deficit in wheat. Pak. J. Agri. Sci., Vol. 54(2), 241-254. (Impact factor 0.857)
15. Tariq, M., **A. Yasmeen**, S. Ahmad, N. Hussain, M. N. Afzal and M. Hasanuzzaman 2017, Shedding Of Fruiting Structures In Cotton: Factors, Compensation And Prevention, Tropical and Subtropical Agroecosystems, 20 : 251 – 262 (HEC Y category)

2016

16. Abid MA, Malik W, **A. Yasmeen**, Qayyum A, Zhang R, Liang C, Guo S, Ashraf J. 2016. Mode of inheritance for biochemical traits in genetically engineered cotton under water stress. AoB PLANTS 8: plw008; doi:10.1093/aobpla/plw008 (Impact factor 3.138)

17. Nawaz H, **Yasmeen A**, Anjum MA and Hussain N. 2016. Exogenous Application of Growth Enhancers mitigate water stress in wheat by antioxidant elevation. Front. Plant Sci. 7:597. doi: 10.3389/fpls.2016.00597 (Impact factor 6.627)

18. Yasmeen, A., M. Arif, N. Hussain, W. Malik and I. Qadir, 2016. Morphological, growth and yield response of cotton to exogenous application of natural growth promoter and synthetic growth retardant. Int. J. Agric. Biol., 18: 1109–1121 (HEC Y category)

2015

19. Malik, W., A.A. Khan, H.M.N. Cheema, U. Aslam, M.Z. Iqbal, A. Qayyum, **A. Yasmeen** and N. Bibi, 2015. Transcriptome analysis of pigment related genes in colored cotton. Int. J. Agric. Biol., 17: 205–210. (HEC Y category)
20. Malik,W. M. A. Abid, H. M. N. Cheema, A. A. Khan, M. Z. Iqbal, A. Qayyum, M. Hanif, N. Bibi, S. N. Yuane, **A. Yasmeen**, A. Mahmood, and J. Ashraf. 2015. FromQutnto Bt Cotton: Development Adoption and Prospects. A Review. Cytology and Genetics, 2015, Vol. 49, No. 6, pp. 408–419 (Impact Factor 0.643).
21. Nawaz, H.Nazim H. and **A. Yasmeen**. 2015. Growth, yield and antioxidants status of wheat (*Triticumaestivum* L.) cultivars under water deficit conditions. Pak. J. Agri. Sci., Vol. 52(4), 953-959 (Impact factor 0.857).

2014

22. **Yasmeen A.**, W. Nouman, S. M. A. Basra, A. Wahid, H. Rehman, N. Hussain and I. Afzal. 2014. Morphological and physiological response of tomato (*Solanum lycopersicum* L.) to natural and synthetic cytokinin sources: a comparative study. Acta Physiol Plant 36:3147–3155 .(Impact factor: 2.736)
23. N. Hussain, **A. Yasmeen**, M. Arif and H. Nawaz. 2014. Exploring the role of row spacing in yield improvement of wheat cultivars. Pak. J. Agri. Sci., Vol. 51(1), 25-31 I(mpact factor 0.857)
24. Nouman, W.,S. M. A. Basra, **A. Yasmeen**, T. Gull, S. B. Hussain, M. Zubair and RehmanGul. 2014.Seed priming improves the emergence potential, growth and antioxidant system of *Moringa oleifera*under saline conditions. Plant Growth Regul,OI 10.1007/s10725-014-9887-y (Impact factor: 4.64)
25. Nouman, W.,S. M. A. Basra,M. T. Siddiqui,**A. Yasmeen**, T. Gull andM. A. C. Alcayde. 2014.Potential of *Moringa oleifera*L. as livestock fodder crop: a review. Turk J Agric Forestry 38: 1-14.(Impact factor: 2.669)
26. Rehman, H. Q. Nawaz, S. M. A. Basra, I. Afzal, **A. Yasmeen** and F. Hassan. 2013. Seed priming influence on early crop growth, phenological development and yield performance of linola (*Linum usitatissimum* L.) Journal of Integrative Agriculture 13(5): 990-996 (Impact factor: 4.483)

2013

28. Yasmeen, A., S. M. A. Basra, M. Farooq, H. Rehman, N. Hussain and H.R. Athar. 2013. Exogenous application of moringa leaf extract modulates the antioxidant enzyme system to

improve wheat performance under saline conditions. Plant Growth Regulation, Volume 69, Issue 3, pp 225-233. (Impact factor: 4.64)

29. **Yasmeen, A.**, S.M.A. Basra, A. Wahid, M. Farooq, W. Nouman, H.U. Rehman and N. Hussain, 2013. Improving Drought Resistance in Wheat (*Triticumaestivum*) by Exogenous Application of Growth Enhancers.Int. J. Agric. Biol., 15: 1307–1312 (HEC Y category)
30. **Yasmeen, A**. S.M.A. Basra, A. Wahid, W. Nouman and H.U. Rehman.2013. Exploring the potential of moringa (*Moringa oleifera*) leaf extract (MLE) as a seed priming agent in improving wheat performance.Turk J Bot, 37:1205-19 (Impact factor: 1.429)
31. Afzal, I., S.M.A. Basra, M.A. Cheema, M. Farooq, M.Z. Jafar, M. Shahid and **A. Yasmeen**, 2013. Seed priming: A shotgun approach for alleviation of salt stress in wheat. Int. J. Agric. Biol., 15: 1199–1203 (HEC Y category)
32. Hussain, I., M. Nawaz, R. Rasheed, A. Perveen, M. Iqbal, S. Mahmood, **A. Yasmeen** and A. Wahid, 2013. Effect of sugar mill effluent on growth and antioxidative potential of maize seedling. Int. J. Agric. Biol., 15: 1227–1235. (HEC Y category)
33. Nawaz, A., M. Farooq, S.A. Cheema, **A. Yasmeen** and A. Wahid, 2013. Stay green character at grain filling ensures resistance against terminal drought in wheat. Int. J. Agric. Biol., 15: 1272–1276. (HEC Y category)

2012

34. Yasmeen A, S.M.A. Basra, R. Ahmad and A. Wahid. 2012. Performance of late sown wheat in response to foliar application of *moringaoleifera*lam. leaf extract. Chilean Journal of Agricultural Research 72: 92–97. (Impact factor: 1.917)

B. Referred Journals

1. M. W. Nasir, **A. Yasmeen**, M. Imran, T. Zoltan1 2019, Seed Priming to Alleviate Drought Stress in Cotton, J Environ Agric Sci (ISSN: 2313-8629) 21: 14-22.

2. H. Nawaz, N. Hussain, M. I. A. Rehmani, **A. Yasmeen**, M. Arif. 2016. Comparative performance of cotton cultivars under conventional and ultra-narrow row (UNR) spacing Pure Appl. Biol., 5(1): 15-25.

3. Nawaz H., N.Hussain, **A. Yasmeen**, M.Arif, M.Hussain, M. I. A.Rehmani, M. B.Chattha and A. Ahmad. 2015. J Environ Agric Sci (ISSN: 2313-8629) 2(1): 1-7

4. Hamid Nawaz, Nazim Hussain*, Azra Yasmeen 2013, Screening Faisalabad Flora For Allelopathic Potential, Journal of Research (Science), Vol. 24-25, Nos. 1-4, pp. 01-23 ISSN 1021-1012

5. Khan, M.A., M.B. Khan, M. Rasool and **A. Yasmeen**. 2005. Effect of soil applied copper, manganese and zinc on growth and yield of maize. Indus Journal of Plant Sci. 2(4): 456-460.

6. **Yasmeen, A**., M.A. Khan and M.I. Ahmad. 2005. Effect of different levels of potassium on growth and yield of wheat. Indus Journal of Biological Sci. 2(4): 461-467.

7. Khan, M.A. and **A. Yasmeen**. 2005. Effect of different planting geometries on growth and yield of maize. Indus Journal of Plant Sci. 4(4): 553-556.

8. Khan, M.A., **A. Yasmeen**and H.A. Durrani. 2005. Foliar application for increasing salt tolerance in cotton. Indus Journal of Plant Sci. 4(4): 561-569.

9. Hussain,N., **A. Yasmeen** and S. Hanif. 2004. Screening of different wheat genotypes under natural saline conditions. Indus J. Plant Sci. 3(3).270-275.

10. Hussain, N., M.B. Khan and **A. Yasmeen**. 2004. Response of cotton cultivars to different planting densities. The Indus Cotton. 1(2): 24-28.

11. **Yasmeen, A**. and S.H. Shah. 2000. Quantitative and qualitative response of three wheat varieties to nitrogen application. Pak. J. Biological Sci. 3(10): 1545-1546.

C. Publications Under Process

1. "Growth promoters modulates the antioxidant system to mitigate the water stress in quinoa" Pakistan Journal of Botany

INTERNATIONAL/ NATIONAL CONFERENCES

Sr. No.	Conference	Date	Venue
INTERNATIONAL			
1.	1st Aus-Pak International Conference "Pulses for Food Security Science for Growers and Entrepreneurs"	27 March , 2019	MNS-University of Agriculture, Multan
2	2nd SINO-PAK International conference "Innovations in Cotton Breeding & Biotechnology"	Nov 26-27, 2018	MNS University of Agriculture, Multan, Biotechnology Research Institute, CAAS, China, BZU, Multan

3	International Seminar "Biochar use in changing climate"	October 5,2018	Dept Soil Sci and Agronomy BZU Multan
4	International Conference" Climate Smart Agriculture: The Way of Farming for 21st Century	October 8-9, 2018	MNS University of Agriculture Multan,
5	6th International Conference of Pakistan Phytopathological Society"Plant Health for Sustainable Agriculture" Afocused approach for food security under changing climate	November 20-22 , 2017	Department of Plant Pathology, BZU, Multan and Central Cotton Reserarch Institute, Multan, Pakistan
6	Two Days International Conference "MALNUTRITION KILLS!! Can we see the writing on the wall?"	2016	Faculty of , Agricultural Sciences and Technology, BZU
7	International Conference on " Stress Biology and Biotechnology: Challenges & Management	May 21-23, 2014	Institute of Agricultural Sciences, Punjab University, Lahore
8	International Conference "Sustainable Crop Productivity: Threats and Option" **Title of paper presented:** *Moringa oleifera:* A sustainable option for crop productivity under abiotic stresses	April 11-12, 2013	Ayub Agricultural Research Institute, Faisalabad
9.	International Conference "Crop Management in Changing Climate" **Title of paper presented:** Improving drought resistance in wheat (*Triticumaestivum*) by exogenous application of growth enhancers	February 11-13, 2013	University of Agriculture, Faisalabad
10	International seminar on " Challenges and new trends in vegetable production" **Title of paper presented:** Seed priming and its impacts on vegetable production	December 18, 2012	Ayub Agricultural Research Institute, Faisalabad
11	The 1st World Congress on the use of " Biostimulants in Agriculture **Poster presentation entitled "**Evaluating the role of moringa leaf extract as natural growth stimulant to improve growth, yield and quality in tomato (*Lycopersicum esculentuem* L.)	November 26-29 2012	Strasbourg Congress Centre, France
12	12th National & 3rd International Conference of Botany **Poster presentation entitled "**Effect of exogenous application of natural nd synthetic growth enhancers on Quantitative and qualitative attributes of tomato"	September 1-3, 2012	Quaid-e-Azam University IslamabadPakistan
13	The 6th World Congress on Allelopathy **Paper entitled** "Improved performance by foliar application of *Moringa oleifera L.* leaf extract (MLE) is related to extended leaf area duration and yield traits in late sown wheat".	December 15-19, 2011	Guangzhou, China

14	International Seminar on Crop Management: Issues and Options, Golden Jubilee Celebrations (1961- 2011)	2011	University of Agriculture Faisalabad
15	International Symposium on "Modern approaches and techniques in agriculture to ensure food security in Pakistan"	7-9 September 2009	PARC Islamabad
16	International Conference of plant scientist [10th National Meeting of Plant Scientists] **Poster presented entitled:** Comparative performance of two mung bean (*Vigna radiata*) cultivars as influenced by varying levels of humic acid solution	April 21 to 24, 2008	University of Agriculture, Faisalabad-
17	International symposium on medicinal plants: Linkages beyond national boundaries	April 21 to 24, 2008	University of Agriculture, Faisalabad-
18	International Conference on "*Sustainable Food Grain Production: Challenges and Opportunities*". **Paper entitled** "Productivity and grain yield as influenced by pure and blend planting of different wheat cultivars".	October 26-27, 2009	University of Agriculture, Faisalabad
NATIONAL			
1.	Awareness Seminar" Technology Development Fund (TDF)"	May 15th,2018	HEC and ORIC BZU Multan
2.	Seminar "Smog Pollution: Causes, Effects and Solutions"	April 28, 2018	Dept Soil and Environmental Sciences. MNS University of Agriculture, Multan,
3.	Challenges and Opportunities to Boost Agriculture in Changing Climate	March 29-30,2017	College of Agriculture, BZU Bahadur Sub-Campus, Layyah.
4.	National Workshop " Sustainable Production of Pulses' Situation analysis	August 11,2015	International Potash Institute, and BZU Bahadur Sub-Campus, Layyah.
5.	One Day Seminar "Mango Diseases And Their Management"	May 14th ,2015	Department of Plant Pathology, Bahauddin Zakariya University, Multan
6.	One Day Seminar "Food Safety and Health Challenges and Solutions"	June 11th 2014	HEC, Department of Food Science, Bahauddin Zakariya University, Multan

7.	First National Seminar of Pakistan Allelopathy Society "*Allelopathy Research in Pakistan: Experiences and Opportunities"* **Title of paper presented:** Allelopathic role of *Moringa oleifera*leaf extract (MLE) in crop growth and development under normal and stressed conditions	December 12, 2013	University of Agric. Faisalabad, Pakistan
8.	"Asm-workshop on scientific writing and publishing"	October 2,2013	Dept. of Food Science, Bahauddin Zakariya University, Multan
9.	Two days workshop on simulation modelling: A decision support system for Agro-technology transfer for improving the standards of research.	March 4,5, 2013	Dept. of Agronomy, Bahauddin Zakariya University, Multan, Pakistan
10.	1st National Conference on Advancement in Sciences & Research **Title of paper presented:** improving salinity resistance in wheat through exogenous applications of natural and synthetic growth stimulators	February 27, 2012	COMSATS Institute of Information Technology Vehari, Pakistan
11.	Recent Development in edible oil production and processing with special reference to Pakistan	March 12-13, 2012	Dept. of Food Science, Bahauddin Zakariya University, Multan, Pakistan

RESEARCH PROJECT

	Research project title	**Duration (Years)**	**Amount Rs/.Funding Agency**	**Worked as**	**Status**
1.	Technology Development Fund MLE30: A miracle Bio stimulant	3	Rs 13.85 million / Higher Education Commission Pakistan	Principal Investigator (PI)	Ongoing Started from 1st July 2019 Completed 1st July 2022
2.	Evaluation and Modulation of Chickpea (*Cicerarientinum* L.) Productivity Under Terminal Heat Stress	2	Rs. 251920/- Directorate of Research and External Linkages Bahauddin Zakariya University, Multan	Principal Investigator (PI)	Awarded 2017 completed 2019
3.	"Sewage water: Promoter or Inhibiter for Growth and Yield in Maize (*Zea mays*)	1	Rs. 170,000/ - Directorate of Research and External Linkages Bahauddin Zakariya University, Multan	Principal Investigator (PI)	Awarded 2016 Completed 2017

4.	Evaluation of moringa leaf extract (MLE) as a natural plant growth enhancer in wheat under drought stress conditions	1	Rs.123,726/- Directorate of Research and External Linkages B. Z. Univ. Multan	Principal Investigator (PI)	Awarded 2013 Completed 2015
5.	Growing degree days and yield relationship in wheat (*Triticumaestivum*) as influenced by sowing dates	1	Rs. 700,00/- Directorate of Research and External Linkages B. Z. Univ. Multan	Principal Investigator (PI)	Awarded 2007 Completed 2008
6.	Pakistan Community Development Project for Rehabilitation of Saline and Waterlogged Land	3	Jointly funded by UNDP, AusAID and GOP	Female Agriculture Extension Officer (FAEO)	Completed
7.	Nature Farming Research Project	2	Nature Farming Research and Development Foundation (NFRDF)	Research Assistant (Student fellowship)	Completed

SEMINARS/ WORKSHOP/ CONFERENCES

Sr. No.	Conference	Date	Venue
INTERNATIONAL			
1	International Conference on "Malnutrition" and food expo.	April 7-8, 2016	Bahauddin Zakariya University Multan-Pakistan
2	International Conference on "Stress Biology and Biotechnology: Challenges and Management"	May 21-23, 2014	Institute of Agricultural Sciences, University of the Punjab, Lahore
3	International workshop on Biochar in Pakistan: Opportunities and Potential	March 24-27, 2014	University of Agriculture , Faislabad
4	International Conference "Sustainable Crop Productivity: Threats and Option" **Title ofpaper presented:***Moringa oleifera:* A sustainable option for crop productivity under abiotic stresses	April 11-12, 2013	Ayub Agricultural Research Institute, Faisalabad
5	International Conference "Crop Management in Changing Climate" **Title of paper presented:** Improving drought resistance in wheat (*Triticumaestivum*) by exogenous application of growth enhancers	February 11-13, 2013	University of Agriculture, Faisalabad

6	International seminar on " Challenges and new trends in vegetable production" **Title of paper presented:** Seed priming and its impacts on vegetable production	December 18, 2012	Ayub Agricultural Research Institute, Faisalabad
7	The 6th World Congress on Allelopathy" **Title of paper presented:** Improved performance by foliar application of *Moringa oleifera L.* leaf extract (MLE) is related to extended leaf area duration and yield traits in late sown wheat	December 15-19, 2011	Guangzhou, China
8	International Conference on "*Sustainable Food Grain Production: Challenges and Opportunities* **Title of paper presented:** Productivity and grain yield as influenced by pure and blend planting of different wheat cultivars	October 26-27, 2009	University of Agriculture, Faisalabad
NATIONAL.			
1	Workshop on "intellectual property Rights and Patent drafting" A joiny Venture of PASTIC-PSF, FVS-BZU AND IPO	MAY 11, 2016	Bahauddin Zakiriya University Multan
2	First National Seminar of Pakistan Allelopathy Society "*Allelopathy Research in Pakistan: Experiences and Opportunities"***Title of paper presented:** Allelopathic role of *Moringa oleifera*leaf extract (MLE) in crop growth and development under normal and stressed conditions	December 12, 2013	University of Agric. Faisalabad, Pakistan
3	1st National Conference on Advancement in Sciences & Research **Title of paper presented:** improving salinity resistance in wheat through exogenous applications of natural and synthetic growth stimulators	February 27, 2012	COMSATS Institute of Information Technology Vehari,

POPULAR ARTICLES

Sr. No.	Title	Subject/ Description	Publisherifany
1.	Potassium and stress tolerance.	Agriculture	The Nation MONEY PLUS (May, 11, 2009.pp 19-20. pp.19)
2.	Cotton: a rich source of lint, oil and by-products	Agriculture	The Nation MONEY PLUS: January 26, 11, 2009 pp. 22-23
2.	Ley farming for enhancing soil fertility	Agriculture	DAWN ECONOMIC AND BUSINESS REVIEW: March 31-April 6, 2008. pp. III
3.	Building strategic wheat reserves	Agriculture	Money plus June 9, 2008. pp. 17
4.	Organic crop requirements	Agriculture	Money plus November 17, 2008. pp. 26