

CURRICULUM VITAE OF DR. ABDUL WAHID BALOCH



1. PERSONAL DATA

1. Name: ABDUL WAHIDBALOCH
2. Date of Birth: 10th July, 1981
3. Qualification: PhD
4. Present Position: Associate Professor (BPS-20) & Director Students Affairs
5. Mailing Address: Department of Plant Breeding & Genetics, FCPD, SAU, Tandojam
6. Email Address: awbaloch@sau.edu.pk; balochabdulwahid@yahoo.com

2. MOTIVATION AND RESEARCH INTEREST

My efforts are focused on the improvement of crop plants by creating crop varieties that efficiently use resources and promote sustainable production practices. Objectives of my breeding programs are to develop high-yielding crop varieties with enhanced biotic and abiotic stresses. I make use of interspecific hybridization and complex crosses of elite parents to create unique populations. I then screen and select from segregating populations for yield components, biotic and abiotic stress tolerance. Besides classical breeding approach, I also prefer to use cutting edge techniques of molecular biology and plant genetics for the improvement of crop plants.

3. EDUCATIONAL BACKGROUND

Certificates obtained	Institutions	Fields of study	Years passed
Post-Doctoral	University of Wisconsin, Madison, USA.	Vegetable Molecular Breeding	2023
Doctor of Philosophy	Northwest A&F University,	Crop Genetics &	2013

	Yangling, Shaanxi, China.	Breeding	
Master of Science (Agri.) Hons.	Sindh Agriculture University, Tandojam, Sindh, Pakistan.	Plant Breeding & Genetics	2008
Bachelor of Science (Agri.) Hons.	Sindh Agriculture University, Tandojam, Sindh, Pakistan.	Plant Breeding & Genetics	2005
Fellow of Science	BISE, Hyderabad	Pre-Medical	2000
Matriculation	BISE, Hyderabad	Science	1998

4. AWARDS

- Merit Certificate awarded By Vice Chancellor (SAU, Tandojam) on third position in B. Sc. (Agri.) Hons.
- Scholarship Awarded (On Merit Basis) in M.Sc. (Agri.) Hons., By HEC-USAID during 2006-2007.
- Scholarship Awarded for PhD by China Scholarship Council (From Sep 2009 to June 2013).
- Scholarship Awarded by Higher Education Commission for Post-Doctoral during July 2022 to April 2023.

5. PROFESSIONAL EXPERIENCE

- Associate Professor (BPS-20).** Working as Associate Professor from November 10, 2021, to date in the Department of Plant Breeding & Genetics, FCPD, SAU, Tandojam, Pakistan.
- Assistant Professor (BPS-19).** Worked as Assistant Professor from November 6, 2015 to date in the Department of Plant Breeding & Genetics, FCPD, SAU, Tandojam, Pakistan.
- Lecturer.** Worked as a lecturer from November 24, 2014, to November 6, 2015 (Ad-hoc basis) in the department of Plant Breeding & Genetics, Sindh Agriculture Tandojam, Pakistan.
- Assistant Professor.** Worked as Assistant Professor (Interim-HEC) from June 19, 2013 to June 18, 2014 in the Department of Plant Breeding & Genetics, FCPD, SAU, Tandojam, Pakistan.
- Seed Analyst.** Worked as Seed Analyst (BPS-16) in the project entitled “Establishment of seed production and development centre”, Department of Plant Breeding and Genetics, Sindh Agriculture University, Tandojam (From Dec . 2007 to Aug. 2009).

6. ADDITIONAL CHARGES

- Director Students Affairs:** 3 YEARS
- Hostel Provost:** 1YEAR

7. TEACHING AND RESEARCH EXPERIENCE

- Teaching graduate and post graduate classes i.e. B.Sc. (Agri.) Hons., M.Sc. (Agri.) Hons. and PhD students.
- Conducting research for the development of new cotton and wheat varieties at the credit of S.A.U. Tandojam.
- Guiding as Supervisor to M.Sc. and PhD students for their degree programs.

8. RESEARCH PROJECTS AS PROJECT INCHARGE

- Research project awarded by Sindh Higher Education Commission-2025 entitled “Genetic analysis of sesame genotypes grown under water stress condition in Sindh Province”

9. SCIENTIFIC SKILLS

Have an excellent background in Plant Breeding, Genetics, Population genetics, Molecular Biology and use of computer in statistical analysis and word processing softwares.

10. PUBLICATIONS & PROCEEDINGS

S.NO.	AUTHORS	PUBLICATION TITLE	JOURNAL NAME	VOL. (ISSUE), PAGE NO., YEAR	REMARKS
Section-A: Research articles (Published)					
1.	M.Y.M.K. Talpur, A.W. Baloch , M.J. Baloch, M.A. Asad	Combining ability analysis and genetic studies of stripe rust resistance in bread wheat genotypes	Journal of Applied Research in Plant Sciences	5(2), 135-148, 2024	HEC Recognized “ Y ” Category
2.	Y. Yin, A.M. Baloch, X. Chen, Y. Che, J. Lie, Y. Zhang, S. Liu, A.W. Baloch , R. Zhang	Cloning and expression profile of pdpapl3 gene in shanxin poplar (<i>Populus davidana</i> × <i>P. Alba</i> var. <i>Pyramidalis</i>) in response to stress	Pakistan Journal of Botany	53(2): 1223-1228, 2023	HEC Recognized “ W ” Category (impact factor 1 .1)
3.	S.R. Laghari, T.F. Abrq A.W. Baloch , Z.A. Soomro, N. Gandahi, A.A Soomro, S.H.	Comparative assessment of genetic diversity between brassica napus and <i>Brassica</i>	SABRAO Journal of Breeding and	55(4): 1155-1169, 2023	HEC Recognized “ W ” Category

	Chattah, T.A. Soomro, M. Nargis, M.A. Saeed, M. N. Khan, M. N. Khan, M. N. Khan	Identifying the selection criteria for evolving high-yielding rapeseed genotypes (<i>Brassica napus</i> L.) for water stress conditions	Genetics		(impact factor 0.6)
4.	S.H. Rao, A.W. Baloch, S. Bano, H.A. Sharif, R. Akram, M. Arsal, H. Khan	Identifying the selection criteria for evolving high-yielding rapeseed genotypes (<i>Brassica napus</i> L.) for water stress conditions	Journal of Pure and Applied Biology	12(3): 1501-1509, 2023	HEC Recognized “Y” Category
5.	M.J. Mari, A.W. Baloch, S.N. Mari, L.A. Bhutto, N. Gandahi, A. Mari	Assessment of genetic variability in cotton (<i>Gossypium hirsutum</i> L.) genotypes	Abasyn Journal of Life Sciences	5(1): 7-15, 2022	HEC Recognized “Y” Category
6.	B.N. Mangan, M.S. Lashari, A.W. Baloch, M.N. Kandhro, Z.M. Bhutta	Wheat species, amylose and amylopectin ratio, availability and variability	Pakistan J. of Biochemistry & Biotechnology	3(1), 2022	HEC Recognized “Y” Category
7.	S.H. Rao, A.W. Baloch, S.A. Channa, L.A. Bhutto, S. Bano, N. Gandahi	Evaluation of rapeseed (<i>Brassica napus</i> L.) Genotypes for water stress condition	Pak-Euro Journal of Medical and Life Sciences	4(4), 188-196, 2021	HEC Recognized “Y” Category
8.	S. Bano, A.W. Baloch, S.N. Mari, M.U. Shirazi, G.H. Jatoti, N. Gandahi, S.H. Rao and M. Ali	Assessing the genetic potential of mustard genotypes for water stress through PEG-6000 treatments.	Abasyn Journal of Life Sciences	4(2): 46-58, 2021	HEC Recognized “Y” Category
9.	M.Y.M.K. Talpur, A.W. Baloch, M. A. Asad, N. Gandahi, Z. Jagirani, T. F. Abro, W.A. Jatoti, S. Mari	Estimation the extent of heterosis in elite wheat cultivars of Pakistan	Sindh University Research Journal (Sci. Ser.)	53(3): 213-220, 2021	HEC Recognized “Y” Category
10.	N. Gandahi, A.W. Baloch, M. Ali, M.U. Shirazi, T.A. Yasir, M.J. Baloch, W.A. Jatoti and M.N. Kandhro	Evaluation of bread wheat genotypes for salinity stress based on seedling traits	Pakistan Journal of Botany	53(3): 771-778, 2021.	HEC Recognized “W” Category (impact factor 0.75)
11.	N. Gandahi, G.H. Jatoti, A.W. Baloch, A. Mari, L.A. Bhutto, M.Y. Talpur, N. Fatima, T.F. Abro and R.S. Zhang.	Unveiling the genetic divergence and phenotypic association in elite Pakistani wheat (<i>T. aestivum</i> L.) genotypes	Abasyn Journal of Life Sciences	4(1): 119-126, 2021	HEC Recognized “Y” Category
12.	A Gandahi, A.A. Soomro, N. Gandahi, S. Gandahi, M.S. Kaimkhani, A.W. Baloch, S.H. Rao, M.Y.M.K. Talpur, S. Jogi, G.A. Baloch	Agro-morphological characterization of oat genotypes under climatic conditions of Tandojam	Journal of Applied Research in Plant Sciences	2(2): 142-147, 2021.	
13.	M.A. Kakar, A.W. Baloch, J.K. Soothar, N. Gandahi, M. S. Chang, G.F. Khawaja, A. Jadgal, A.L. Siyal, A. Maree and U.A. Kasi	Assessment of genetic divergence and characters association in upland cotton (<i>G. hirsutum</i> L.) genotypes.	International Journal of Biology and Biotechnology	18(2): 321-327, 2021	
14.	N. Gandahi, A.W. Baloch, S.M. Sarki, M.M. Lund and M.N. Kandhro	Correlation analysis between morphological, physiological and yield traits under salinity stress condition in wheat (<i>Triticum aestivum</i> L.) genotypes	Pak. J. Agri., Agril. Engg., Vet. Sci.,	36 (2): 129-134, 2020	HEC Recognized “Y” Category
15.	S.H. Rao, Z. Qambrani, N. Gandahi, T.A. Yasir, S.Bano, Q.A. Nahiyoan, L.A. Bhutto,	Assessment of genetic parameters in rapeseed genotypes	Pakistan Journal of Biotechnology	17(4): 183-187, 2020	HEC Recognized “Y” Category

	A.W. Baloch				
16.	A.M. Baloch, C. Jinag, R. Miao, Y. Chang, A.W. Baloch and R. Zhang	Changes of defense enzyme activity and expression levels of related enzymes encoding genes in shanxin poplar by application of <i>Trichoderma asperellum</i>	Pakistan Journal of Botany	52(4): 1223-1228, 2020	HEC Recognized “W” Category (impact factor 0.75)
17.	Y.F. Wang, A.M. Baloch, J.J. Deng, A.W. Baloch , X.U. Hou, R. Miao and R.S. Zhang	Influence of <i>Trichoderma</i> inoculation on four crucial defense-related enzymes and leaf soluble protein level of poplar	Pakistan Journal of Botany	52(3): 879-833, 2020	HEC Recognized “W” Category (impact factor 0.75)
18.	Y. Chang, R. Miao, A.M. Baloch, Z. Yao, A.W. Baloch , C. Jiang, Z. Liu and R. Zhang	Primary investigation of the diversity and distribution characteristics of <i>Trichoderma</i> spp. in the specific soil of volcanic forest park and volcano platform	Pakistan Journal of Botany	52(1): 335-343, 2020	HEC Recognized “W” Category (impact factor 0.75)
19.	T.F. Abro, M. Rafiiyusop, Z.A. Soomro, A.W. Baloch, P.A. Shar, A.A. Gilal, S.H. Chatha, N.A. Qureshi and S.A. Otho	Genome wide analysis of recurrent parent genome recovery in different backcross populations for blast resistance through SSR markers in rice	Pakistan Journal of Botany	51(6): 2111-2120, 2019	HEC Recognized “W” Category (impact factor 0.75)
20.	A. Shereen, M.A. Khanzada, A.W. Baloch , Asma, M.U. Shirazi, M.A. Khan And M. Arif	Effects of PEG induced water stress on growth and physiological responses of rice genotypes at seedling stage	Pakistan Journal of Botany	51(6): 2013-2021, 2019	HEC Recognized “W” Category (impact factor 0.75)
21.	T.F. Abro, W.D. Sipio, Z.A. Soomro, A.W. Baloch , W.A. Jatoi, G.M. Bhanbhan, A.H. Mastoi, K.A. Laghari, M. Arsal and M.A. Mastoi	Effect of heat stress on physiological and yield contributing traits in wheat (<i>Triticum aestivum</i> L.)	Journal of Pure and Applied Biology	8(4): 2343-2361, 2019	HEC Recognized “Y” Category
22.	J.A. Khyber, F. Soomro, W.D. Sipio, A.W. Baloch , J.K. Soothar, M.K. Soothar and Z. Ali	Evaluation of bread wheat (<i>Triticum aestivum</i> L.) genotypes for drought tolerance through selection indices	Journal of Horticulture and Plant Research	7: 40-52, 2019	International
23.	Azra Gandahi, M.H. Rind, Z. Khan, N. Gandahi, S. Gandahi and A.W. Baloch	Estimation the extent of inbreeding depression in F ₂ hybrids of hexaploid bread wheat	International Journal of Botany Studies	4(6): 86-88, 2019	International
24.	T.T. Zhao, U.F. Wang, A.M. Baloch, A.W. Baloch , Z.Y. Liu, C.Y. Jiang and R.S. Zhang	<i>Trichoderma asperellum</i> accc30536 inoculation differently regulates the time-course expression of five indole-3-acetic acid amido synthetase genes and the levels of IAA, SA and JA in <i>populus davidiana</i> × <i>p. Alba</i> var. <i>Pyramidalis</i>	Pakistan Journal of Botany	51(2): 689-697, 2019	HEC Recognized “W” Category (impact factor 0.75)
25.	R.A. Rind, A.W. Baloch , W.A. Jatoi, M.A. Asad, A.A. Khokhar, F.G. Nizamani, M.R. Rind, A.L. Nizamani, M.M. Nizamani	Genetic diversity analysis in Pakistani commercial and landrace genotypes of bread wheat	Asian Journal of Agriculture and Biology	7(2):251-262 2019	HEC Recognized “Z” Category

26.	N. Gandhai, A.W. Baloch , M.J. Baloch and M. Shirazi	Correlation and stability estimates of seedling traits in upland cotton	Journal of Pure and Applied Biology	48(1): 123-132, 2018	HEC Recognized "W" Category
27.	T.F. Abro, A.W. Baloch , Z.A. Soomro, M.A. Sial, M.N. Tareen, A.A. Lashari, M.S. Kakar, G.M. Panezai and G.A. Baloch	Impact of gamma rays on phenological, growth and yield associated characters in bread wheat genotypes	International Journal of Biology and Biotechnology	16 (1): 129-135, 2019	HEC Recognized "Y" Category
28.	A.M. Baloch, T.T. Zhao, A.W. Baloch , Z.H. Liu, X.T. Yang, C.Y. Jiang, Z.Y. Liu and R.S. Zhang	A novel native bio-control agent <i>Trichoderma brevicompactum</i> promotes growth and resistance to the powdery mildew in <i>Impatiens balsamina</i>	Pakistan Journal of Botany	51(1): 289-295, 2019	HEC Recognized "W" Category (impact factor 0.75)
29.	Y.X. Wang, Y. Hu, Y.F. Zhu, A.W. Baloch , X.M. Jia and A.X. Cuo	Transcriptional and physiological analyses of short-term Iron deficiency response in apple seedlings provide insight into the regulation involved in photosynthesis	BMC-Genomics	19: 461-472, 2018	HEC Recognized "W" Category (impact factor 3.73)
30.	T.A. Yasir, H. Ali, A. Wasaya, H.M. Aatif, M. Hussain, M. Farooq, A.W. Baloch , and Y.G. Hu	Single nucleotide polymorphism in TaER genes and their association with carbon isotope discrimination in wheat genotypes under drought	Biologia Plantarum	62(4): 703-710, 2018.	HEC Recognized "W" Category (impact factor 1.42)
31.	R. Zhang, A.M. Baloch, S. Li, Z. Liu, C. Jiang, H. Wang, A.W. Baloch and G. Diao	Improvement in biomass, IAA levels and auxin signaling-related gene expression in shanxin poplar seedlings (<i>Populus davidiana</i> × <i>P. Alba</i> var. <i>Pyramidalis</i>) induced by <i>Trichoderma asperellum</i>	Pakistan Journal of Botany	50(4): 1629-1636, 2018.	HEC Recognized "W" Category (impact factor 0.75)
32.	M.J. Baloch, R. Lochi, W.A. Jatoi, A.W. Baloch , M.A. Arain	Genetic variability, heritability and correlation studies in F ₂ populations of upland cotton	Pak. J. Sci. Ind. Res.	61(3) 136-144, 2018	HEC Recognized "X" Category
33.	H.M. Atif, T.A. Yasir, C.M.S. Hanif, A. Wasaya, M. Irfanullah, F. Azhar, K. Ali and A.W. Baloch	Response of different citrus cultivars to citrus root nematode (<i>Tylenchulus semipenetrans</i> Cobb.)	Journal of Pure and Applied Biology	7(1): 349-355 2018	HEC Recognized "Y" Category
34.	Z.U. Nisa, I.A. Mallano, Y. Yu, C. Chen, X. Duan, S. Amanullah, A. Kousar, A.W. Baloch , X. Sun, D. Tabys, Y. Zhu.	GsSNAP33, a novel Glycine soja SNAP25-type protein gene: Improvement of plant salt and drought tolerances in transgenic Arabidopsis thaliana.	Plant Physiol Biochem.	119: 9-20 2017	HEC Recognized "W" Category (impact factor 2.74)
35.	M.A. Mugheri, A.W. Baloch , M. Baloch, T.A. Yasir, N. Gandahi, G.H. Jatoi, A.M. Baloch, M. Ali, I.A. Baloch	Genetic diversity analysis through phenotypic assessment in Bt-Cotton germplasm	Sindh University Research Journal (Sci. Ser.)	48(4): 739-742, 2017	HEC Recognized "X" Category
36.	S. Memon, A.W. Baloch , N. Gandahi, T.A. Yasir, S.M. Sarki, A. Wasaya, I.A. Mallano, M. Ali, M.A. Rind,	Evaluation of genetic divergence, character associations and path analysis in upland cotton genotypes	Journal of Pure and Applied Biology	6(4): 1516-1521, 2017	HEC Recognized "Y" Category

	A.M. Baloch, A.S. Khetran				
37.	T.A. Yasir, A. Wassaya, Z.M. Bhutto, H.M. Atif, Om Farooq, M. Ijaz, S. Hussain, A.W. Baloch, and M. Muzammil	Seed bio-priming approach to amplify production potential of mungbean (<i>Vigna radiata</i> L.) in sandy soils	Journal of Pure and Applied Biology	6(4): 1410-1416, 2017	HEC Recognized “Y” Category
38.	U. Shahzad, S. Rasheed. T.A. Yasir, M.S. Jahan, Z. Hassan, A. Wasaya and A.W. Baloch	Effect of growth media and foliar application of macro nutrients on agronomic performance of strawberry	Journal of Pure and Applied Biology	6(4): 1457-1463, 2017	HEC Recognized “Y” Category
39.	A.W. Baloch , M.A. Kumbhar, I.A. Mallano, A.M. Baloch, T.A. Yasir, S.M. Sarki, G.S. Nizamani, F. Nizamani, and I.A Baloch	Genetic diversity analysis in commercial sugarcane (<i>Saccharum officinarum</i> L.) genotypes	Pakistan Journal of Biotechnology	14 (2) 169-173, 2017	HEC Recognized “Z” Category
40.	H.M. Atif, T.A. Yasir, C.M.S. Latif, T. Abbas, A.W. Baloch , A. Wasaya, S.K. Abbas and S. Pervaiz.	Evaluation of prevalence and incidence of citrus slow decline disease in citrus orchards in district Layyah	Journal of Pure and Applied Biology	6(2): 664-668, 2017	HEC Recognized “Y” Category
41.	A.A. Kaleri, S.N. Mari, A.A. Kaleri, S.H. Kaleri, A.W. Baloch , M.K. Kaleri, J.K. Soothar, A.L. Laghari and M.K. Soothar	Heritability estimation for morpho yield traits in commercial varieties of spring wheat (<i>Triticum aestivum</i> L.)	Journal of Pure and Applied Biology	6(2): 614-618, 2017	HEC Recognized “Y” Category
42.	N. Gandahi, A.A. Mahar, A.W. Baloch , S.A. Ansari, T.A. Yasir, M. Baloch, L.A. Bhutto, A. Mari and T.F. Abro	Assessment of genetic diversity for quantitative traits in sunflower germplasm	Journal of Pure and Applied Biology	6(1): 261-266, 2017	HEC Recognized “Y” Category
43.	S. H. Kaleri, A.A. Kaleri, A.W. Baloch , S. N. Mari, S. H. Kaleri, N. Gandahi, W. A. Jatoi, T. F. Abro, M. Khan	Genetic studies in upland cotton (<i>Gossypium hirsutum</i> L.) for earliness and yield contributing traits	Journal of Pure and Applied Biology	6(1): 153-158, 2017	HEC Recognized “Y” Category
44.	F. Nizamani, M.J. Baloch, A.W. Baloch , M. Buriro, G.S. Nizamani, M. R. Nizamani, I.A. Baloch	Genetic distance, heritability and correlation analysis for yield and fibre quality traits in upland cotton genotypes	Pakistan Journal of Biotechnology	14 (1) 29-36, 2017	HEC Recognized “Y” Category
45.	M. Solangi, A.A. Soomro, M.J. Sheikh, A.W. Baloch , S.I. Abro	Effect of sowing methods on yield and growth of spinach	Pakistan Journal of Science	69 (1) 12-16, 2017	HEC Recognized “X” Category
46.	S.K. Kaleri, A.A. Kaleri, A.W. Baloch , N.F. Veasar, H. Ning, T.F. Abro, S.H. Kaleri and M. Khan	Performance of some wheat varieties on the basis of yield and yield contributing characters	International Journal of Biology and Biotechnology	13(4): 571-574, 2016	HEC Recognized “Y” Category
47.	A.W. Baloch , M.S. Bhatti, M. Baloch, Q.D. Jogi, M.N. Kandhro	Correlation analysis of various metric traits with grain yield and heritability estimation in rice (<i>Oryza sativa</i> L.) genotypes	Pakistan Journal of Agriculture, Agri. Engineering and Vet. Sciences	32 (2): 136-142, 2016	HEC Recognized “Y” Category
48.	B.N. Mangan, M.S. Lashari, L. Hui, M. Ali, A.W. Baloch , S. Weining	Comparative analysis of the selenium concentration in grains of wheat and barley species	Pakistan Journal of Botany	48(6): 2289-2296, 2016	HEC Recognized “W” Category (impact factor 0.75)

	S.M. Bhatti, N.N. Memon and A.W. Baloch	Wild Barley of barley (<i>Hordeum vulgare</i>) in Pakistan	Journal of Arid Environments	2016	Agro-Engineer Recognized "X" Category
62.	J.H. Sahito, S. Gao, S.H. Rao, S. Abro, S.A. Channa, A.W. Baloch , N.A. Wahocho	Association of quantitative traits in upland cotton (<i>Gossypium hirsutum</i> L.)	Journal of Applied Environmental and Biological Sciences	6(6): 8-12, 2016	International
63.	A.W. Baloch , M.J. Baloch, M. Ali, M. Baloch, Q.D. Jogi, A.M. Baloch, I.A. Baloch, S. Weining	Genetic diversity and structure analysis of wild and landrace barleys in Jordan revealed by ISJ markers	Pakistan Journal of Botany	48(2): 637-644, 2016	HEC Recognized "W" Category (impact factor 0.75)
64.	A.W. Baloch , M. Baloch, M.J. Baloch, R.A. Kandhro, M.N. Kandhro, N. Gandahi, G.M. Baloch, I.A. Baloch, M. Ali, A.M. Baloch	Evaluation of exotic bread wheat genotypes for yield and its associated traits	International Journal of Biology and Biotechnology	13(1): 107-10, 2016	HEC Recognized "Y" Category
65.	M. Baloch, A.W. Baloch , Z.A. Shaikh, S. Arain, M.J. Baloch, M.A. Asad, G.M. Baloch, M. Ali, A.M. Baloch	Assessment of elite wheat genotypes for heat stress on the basis of yield contributing traits	International Journal of Biology and Biotechnology	13(1): 101-106, 2016	HEC Recognized "Y" Category
66.	A.W. Baloch , M. Baloch, R. Baloch, M.N. Kandhro, I. Odhano, H.R. Bughio, N. Gandahi, A.M. Baloch, A.S. Rajput	Evaluation of genetic diversity in rice (<i>Oryza sativa</i> L.) genotypes	Sindh University Research Journal (Sci. Ser.)	48(1): 29-32, 2016	HEC Recognized "X" Category
67.	M. Baloch, A.W. Baloch , M.J. Baloch, R.A. Kandhro, M.N. Kandhro, D.K. Mandan, G.M. Baloch, N. Gandahi, A.M. Baloch, N.A. Baloch	Analysis of genetic divergence in exotic bread wheat genotypes	Journal of Pure and Applied Biology	5(1): 26-30, 2016	HEC Recognized "Y" Category
68.	A.R. Baloch, A.W. Baloch , B.J. Sutton, X. Zhang	Antibody Mimetics: Promising complementary agents to animal-sourced antibodies	Critical Review in Biotechnology	36(2): 268-275, 2016	HEC Recognized "W" Category (impact factor 7.51 SCI)
69.	A.W. Baloch , A.M. Solangi, M. Baloch, G.M. Baloch, S. Abro	Estimation of heterosis and heterobeltiosis for yield and fiber traits in upland cotton (<i>Gossypium hirsutum</i> L.)	Pakistan Journal of Agriculture, Agri. Engineering and Vet. Sciences	31(2): 221-228, 2015	HEC Recognized "Y" Category
70.	A.W. Baloch , M. Baloch, F.J. Depar, M.J. Baloch, G.M. Baloch, A.M. Baloch, M.S. Depar, N. Gandahi, T.A. Baloch, I.A. Baloch	Inbreeding depression analysis in F ₂ segregating population of bread wheat	Journal of Pure and Applied Biology	4(4): 620-627, 2015	HEC Recognized "Y" Category
71.	M. Baloch, A.W. Baloch , D.R. Shaikh, M.A. Asad, N. Gandahi, G.M. Baloch, G.H. Baloch, A.M. Baloch, M. Ali	Inheritance studies for leaf rust resistance and different economic traits in F ₂ generation through introgression of functional genes in bread wheat genotypes	Sindh University Research Journal (Sci. Ser.)	47(4): 783-786, 2015	HEC Recognized "X" Category
72.	B.N. Mangan, C.L. Cao, L. Hui, A.W. Baloch , M. Ali, M.S. Lashari, S. Weining	Assessment of amylose and amylopectin variation in barley germplasm.	Pakistan Journal of Botany	47(6): 2239-2246, 2015	HEC Recognized "W" Category

					(impact factor 0.75)
73.	A.W. Baloch, M. Baloch, S. H. Jatoi, M.J. Baloch, G.M. Baloch, M.A. Mugheri, M.S. Depar, I.A. Mallano, A.M. Baloch, N. Gandahi, I. A. Baloch, M. Ali	Genetic diversity analysis in genetically modified cotton (<i>Gossypium hirsutum</i> L.) genotypes	Sindh University Research Journal (Sci. Ser.)	47(3): 527-530, 2015	HEC Recognized "X" Category
74.	M. Baloch, A.W. Baloch, M.Z. Shaikh, M.J. Baloch, M.A. Asad, M.S. Depar, G. M. Baloch, N. Gandahi, I.A. Mallano, A.M. Baloch, A. Baloch, M. Ali	Evaluation of wheat genotypes for earliness and growth traits exposed to high temperature through delayed planting.	Sindh University Research Journal (Sci. Ser.)	47(3): 441-446, 2015	HEC Recognized "X" Category
75.	M. Baloch, A.W. Baloch, M.K. Baloch, I.A. Mallano, A.M. Baloch, N.J. Baloch, S. Abro	Association and heritability analysis for yield and fiber traits in promising genotypes (<i>Gossypium hirsutum</i> L.)	Sindh University Research Journal (Sci. Ser.)	47(2): 303-306, 2015	HEC Recognized "X" Category
76.	M. Baloch, W.A. Soomro, A.W. Baloch, S.N. Marri	Identification of high yielding and genetically potential safflower genotypes on the basis of field performance	International Journal of Biology and Biotechnology	12(1): 91-95, 2015	HEC Recognized "Y" Category
77.	S.C. Huang, S.K. Baloch, Y.G. Shu, M. Ali, A.W. Boloch, A.A. Rajper A.R. Liu	Identification and analysis of differentially expressed genes associated with Aluminium response in two Soybean cultivars by cDNA-RAPD	Pakistan Journal of Botany	47(2): 711-715, 2015	HEC Recognized "W" Category (impact factor 0.75)
78.	M. Baloch, A.W. Baloch, S.N. Mari, N.N. Memon	Exploration of combining ability in upland cotton	Sindh University Research Journal (Sci. Ser.)	47(1): 170-130, 2015	HEC Recognized "X" Category
79.	T.F. Miano, M.G. Rabbani, A.W. Baloch, N.N. Memon, T.F. Miano	Character association and path analysis in orchids	Science International	27(4): 3297-3300, 2015	HEC Recognized "Y" Category
80.	A.W. Baloch, J.H. Sahito, M. Ali, G.A. Baloch, S. Abro, S.A. Channa, A.M. Baloch, G.H. Baloch, G.M. Baloch	Association analysis of yield and fiber traits in advance Pakistani upland cotton cultivars	Acta Advances in Agricultural Sciences	2(12): 73-80, 2014	International
81.	A.W. Baloch, S.K. Baloch, S.A. Channa, A.M. Baloch, M. Ali, M.A. Junejo, G.M. Baloch	Character association and heritability analysis in Pakistani elite cultivars	International Journal of Applied Biology and Pharmaceutical Technology	5(4): 5-8, 2014	International
82.	M. Baloch, A. Memon, S.N. Mari, A.W. Baloch, S. Abro, S.A. Abro	Genetic studies on some quantitative traits in upland cotton (<i>Gossypium hirsutum</i> L.)	Sindh University Research Journal (Sci. Ser.)	46(3): 369-372, 2014	HEC Recognized "X" Category
83.	A.W. Baloch, M. Baloch, I.A. Baloch, S.N. Mari, D.K. Mandan, S.A. Abro	Association and path analysis in advance Pakistani bread wheat genotypes	Journal of Pure and Applied Biology	3(3): 115-120, 2014	HEC Recognized "Y" Category
84.	A.W. Baloch, M. Ali, A.M. Baloch, B.N. Mangan, S.	Genetic diversity and structure analysis based on hordein	Pakistan Journal of	46(4):1397-1402, 2014	HEC Recognized

	Weining	protein polymorphism in barley landraces populations from Jordan			“W” Category (impact factor 0.75)
85.	S.A. Channa, A.W. Baloch , M.J. Baloch, I. Ahmad, H. Wasila	Genetic analysis of fibre characters of upland cotton (<i>Gossypium hirsutum</i> L.)	Global Journal of Biodiversity Science and Management	3(2): 264-268, 2013	International
86.	A.W. Baloch , G.A. Baloch, B.N. Mangan, I. Ahmad, S. Weining	The effect of Ppd-H1 gene's SNP 48 marker on heading dates in natural populations of barley from Middle East	Global Journal of Biodiversity Science and Management	3(2): 233-236, 2013	International
87.	A.W. Baloch , M. Ejaz, I. Ahmad, H. Wasila, M.J. Baloch, G.A. Baloch, T.A. Yasir, S.U. Rehman, S. Hayat, S.N.M. Shah, M.A. Khan	Development of superior F ₁ hybrids: Design-II analysis for estimating combining ability for fiber and earliness traits in upland cotton	Global Journal of Biodiversity Science and Management	2(1): 38-42, 2012	International
88.	M.J. Baloch, I.A. Mallano, A.W. Baloch , W.A. Jatoti and N.F. Veesar	Efficient methods of choosing potential parents and hybrids: Line x Tester analysis of spring wheat (<i>Triticum aestivum</i> L.) cultivars.	Pakistan Journal of Scientific and Industrial Research	54:117-121, 2011	HEC Recognized “X” Category
89.	A.W. Baloch , M. J. Baloch, W. A. Jatoti and N. F. Veesar	Production of superior F ₁ hybrids: Genetic analysis for estimating combining ability in upland cotton (<i>Gossypium hirsutum</i> L.)	Journal of Agriculture Research	48(4): 419-428, 2010	HEC Recognized “X” Category

11. MAJOR SUPERVISOR OF PHD STUDENTS

S. NO.	Title of Thesis work for PhD	WORKED AS	DURATION	Student name
1.	Genetic analysis for physiological and yield parameters of salinity tolerant bread wheat genotypes	Major Supervisor	Completed (2020)	Dr. Naila Gandahi
2.	Screening and genetic analysis of rapeseed (<i>Brassica napus</i> L.) under water stress conditions.	Major Supervisor	Completed (2022)	Dr. Sajid Hussain Rao
3.	Identification and genetic analysis of potentially tolerant mustard (<i>Brassica juncea</i> L.) genotypes for water stress condition	Major Supervisor	Completed (2022)	Dr. Saima Bano
4.	Genetic studies of stripe rust resistance in bread wheat genotypes	Major Supervisor	Completed (2023)	Dr. Mir Yar Muhammad Khan
5.	Genetic studies in mustard (<i>Brassica juncea</i> L.) genotypes for quantitative and qualitative traits under normal and heat stress conditions	Major Supervisor	Completed (2024)	Dr. Kamran Hasham Jamili
6.	Genetic analysis for earliness and yield traits in bread wheat genotypes under different environments	Major Supervisor	5 years completed	Running as a Ph.D project by Mr. Asghar Ali Baloch
7.	Genetic analysis quantitative and qualitative traits of rapeseed (<i>Brassica napus</i> L.) under heat stress conditions	Major Supervisor	5 years completed	Running as a Ph.D project by Mr. Nawab Jan Baloch

12. MAJOR SUPERVISOR OF M. SC. (AGRI.) HONS.

S. NO.	Title of Thesis work for M.Sc. (Agri.) Hons.	WORKED AS	DURATION	Student name
1.	Exploring the genetic variations in bread wheat genotypes for enhanced adaptation to global warming	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Danish Ali (2025)
2.	Unlocking the genetic diversity in intra-specific of carrot (<i>Daucus carota</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Nawal Naz Baloch (2025)
3.	Identification of selection criteria through phenotypic correlation and determination of heritability in carrot (<i>Daucus carota</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Ghazal Murtaza (2025)
4.	Evaluation of exotic wheat (<i>Triticum aestivum</i> L.) germplasm against water stress for agronomical characters	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Naila Pathan (2022)
5.	Genetic and agronomical characterization of exotic bread wheat genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Farah Arain (2022)
6.	Assessing the impact of heat stress through different sowing dates on yield and other important traits in bread wheat genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Faiza Munawar (2022)
7.	Evaluation of genetic variability in F ₂ generation of wheat (<i>Triticum aestivum</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Marvi Nargis (2021)
8.	Evaluation of new cotton (<i>Gossypium hirsutum</i> L.) genotypes for yield and fiber traits	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Khan Muhammad Mari (2021)
9.	Quantifying the genetic diversity in newly evolved cotton (<i>Gossypium hirsutum</i> L.) genotypes through phenotypic assessment	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Muhammad Junaid Mari (2021)
10.	Assessment of genetic variability in F ₂ progenies of wheat (<i>Triticum aestivum</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Amna Warraich (2021)
11.	Evaluation of new cotton genotype for yield and its attributed traits	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Saba Lashari (2020)
12.	Inheritance studies for seed cotton yield and fiber traits in F ₂ population cotton (<i>Gossypium hirsutum</i> L.)	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Muhammad Saleem Bugti (2020)
13.	Evaluation of genetic variability in F ₂ populations of wheat (<i>Triticum aestivum</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Sanobar Gandahi (2020)
14.	Uncovering the genetic potential of cotton (<i>Gossypium hirsutum</i> L.) genotypes for heat stress	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Muhammad Shoaib Kaimkhani (2020)
15.	Combining ability and heritability estimates for seed yield and its related traits of rapeseed (<i>Brassica napus</i> L.)	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Ameena Baloch (2019)

	genotypes			
16.	Heterosis and correlation analysis in F ₁ hybrids of rapeseed (<i>Brassica napus</i> L.)	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Abdul Wahab Jamali (2019)
17.	Heritability estimation in F ₃ progenies of upland cotton (<i>Gossypium hirsutum</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Gul Naz Aslam Bhatti (2019)
18.	Inheritance studies for seed cotton yield and fiber traits in F ₂ progenies of upland cotton genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Saba Muneer (2019)
19.	Assessment of genetic divergence and character association in upland cotton genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Muhammad Ashraf Kakar (2019)
20.	Heritability and genetic advance estimates in F ₂ populations of bread wheat genotypes for yield traits	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Mazhar Hussain Rind (2019)
21.	Assessment of genetic variability, heritability and genetic advance in F ₂ populations of upland cotton (<i>Gossypium hirsutum</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Majeedullah Marri (2018)
22.	Evaluation of bread wheat (<i>Triticum aestivum</i> L.) genotypes for higher grain yield under salt stress	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Muhammad Waseem Waseer (2018)
23.	Estimation of combining ability and heterotic effects in F ₁ intra-specific crosses of bread wheat	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Falak Naz Khanzada (2018)
24.	Evaluation of bread wheat genotypes for drought tolerance through selection indices	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Javed Aslam Khyber (2018)
25.	Evaluation of genetic variability and heritability in F ₃ populations of bread wheat (<i>Triticum aestivum</i> L.)	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Reena Gaddi Pathan (2018)
26.	Genetic analysis in F ₁ hybrids of upland cotton genotypes through line × tester analysis	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Abdul Majeed Baloch (2018)
27.	Genetic divergence and interrelationship analysis of seed cotton yield and its associated traits in commercial upland cotton genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Abdul Jabbar Mirjut (2018)
28.	Estimation of heterotic effects in intra-hirsutum F ₁ hybrids	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Asif Raza Baloch (2018)
29.	Genetic divergence, phenotypic association and heritability analysis in elite Pakistani bread wheat (<i>Triticum aestivum</i> L.) genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Abdul Hameed Baloch (2017)
30.	Assessment of genetic diversity in bread wheat genotypes based on physiological, growth, yield and its related traits	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Najeeb Ahmed Mangi (2017)
31.	Identification of drought tolerance rice genotypes by analyzing physiological parameters at early seedling stage	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Muhammad Awais Khanzada (2016)

32.	Genetic diversity analysis in commercial sugarcane (<i>Euphorbia officinarum</i> L.)	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Manan Koondhar (2016)
33.	Assessment of genetic diversity based on agro-physiological traits in bread wheat genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Sanum Leghari (2017)
34.	Evaluation of yield, its related traits and interrelationship of characters in Mexican wheat lines	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Murad Rasool Baloch (2017)
35.	Evaluation of genetic divergence, character association and path analysis in upland cotton genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Sajida Memon (2017)
36.	Genetic diversity analysis in Pakistani commercial and landrace genotypes of bread wheat	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Raza Ali Rind (2016)
37.	Genetic dissimilarity, phenotypic correlation and heritability analysis in sunflower (<i>Helianthus annuus</i> L.) germplasm	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Majid Hussain Kaleri (2015)
38.	Inheritance studies in F ₂ populations of bread wheat genotypes	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Abdul Manan Koondhar (2015)
39.	Evaluation of advanced mutant genotypes for yield and yield associated traits in bread wheat (<i>Triticum aestivum</i> L.)	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Naimatullah Mangi (2016)
40.	Phenotypic diversity assessment in rice cultivars and mutant lines through multivariate analysis	Major Supervisor	2 years	M. Sc. Thesis submitted to SAU, Tandojam by Rehmatullah Baloch (2016)

13. ABSTRACT PUBLISHED IN CONFERENCES

1.	N. Gandahi, A. Gandahi, S. Gandahi, A.W. Baloch , M.U. Shirazi and N. Fatima	Exploring the wheat genetic resources for morphological and yield traits against salinity stress under glass house condition	1 st International Conference On “Agricultural And Biological Sciences” Focusing Food Security and Climate Change which was held at The University of Haripur, Haripur-Pakistan from 27-30 March, 2019
2.	T.A. Yasir, M. Muzammil, A. Wassaya and A.W. Baloch	Biofortification of iron in chickpea genotypes through different application methods	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
3.	N. Gandahi, A.W. Baloch , M.U. Shirazi, T.A. Yasir, T.A. Baloch M.A. Khan, T.F. Abro, and P.A. Shar	Correlation and heritability estimates of seedling traits under salt stress conditions of bread wheat genotypes	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
4.	N. Gandahi, A.W. Baloch , M.U. Shirazi, T.A. Yasir, T.A. Yasir, T.A. Ahmed, M.A. Khan and W.A. Jatoti	Evaluation of bread wheat genotypes for salinity stress based on seedling traits	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)

5.	A.J. Mirjut, A.W. Baloch , A.M. Baloch, A.R. Baloch and Gandahi, T.A. Wasaya and A.W. Baloch	Estimation of combining ability in F_1 hybrids of upland cotton genotypes through line $\times$ tester analysis	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
6.	A.M. Baloch, A.W. Baloch , T.A. Yasir, N. Gandahi, A.J. Mirjut, A.R. Baloch and M.Y.M.K. Talpur	Estimation of heterotic effects in intra-hirsutum F_1 hybrids	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
7.	A.R. Baloch, A.W. Baloch , N. Gandahi, F.M. Halo, T.A. Yasir, A.M. Baloch and A.J. Mirjut	Evaluation of bread wheat genotypes for drought tolerance through selection indices	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
8.	J.A. Khyber, A.W. Baloch , A.W. Baloch, N. Gandahi, T.A. Yasir, W.A. Jatoi, P.A. Shar, and T.F. Abro	Estimation the extent of genetic divergence based on agro-physiological traits in bread wheat genotypes.	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
9.	S. Leghari, A.W. Baloch , F. Nizamani, N. Gandahi, T.A. Yasir, Y.M.K. Talpur, T.F. Abro, M.R. Nizamani and A.M. Baloch	Assessment of genetic diversity in bread wheat genotypes based on physiological, growth, yield and its related traits	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
10.	J.A.K. Mangi, A.W. Baloch , S.A. Channa, T.A. Yasir, W.A. Jatoi, T.F. Abro, N. Gandahi and I.A. Baloch	Exploring wheat (<i>Triticum aestivum</i> L.) genotypes for heat stress tolerance	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
11.	P. Baloch, M. Baloch, A.W. Baloch , B.N. Mangan, N. Gandahi, T.A. Yaisr, E.G. Gadahi	Genetic divergence and heritability analysis in elite Pakistani bread wheat (<i>Triticum aestivum</i> L.) genotypes	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
12.	A.H. Baloch, A.W. Baloch , G.A. Baloch, T.F. Abro, W.A. Jatoi, T.A. Yasir, and I.A. Baloch	Assessment of genetic variability, heritability and genetic advance in F_2 populations of upland cotton (<i>Gossypium hirsutum</i> L.) genotypes	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
13.	M. Marri, A.W. Baloch , F.N. Khanzada, Reena, S. Abro, N. Gandahi, Q. Jogi and A.A. Soomro	Evaluation of genetic variability and heritability in F_3 populations of bread wheat (<i>Triticum aestivum</i> L.)	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
14.	Reena, A.W. Baloch , F.N. Khanzada, T.A. Yasir, N. Gandahi, F. Rattar, I.A. Baloch	Assessment of bread wheat (<i>Triticum aestivum</i> L.) genotypes for drought tolerance	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
15.	E.G. Gadahi, M. Baloch, A.W. Baloch , B.N. Mangan, N. Gandahi, T.A. Yasir, and P. Baloch	Interrelationship analysis of quantitative traits in bread wheat genotypes	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
16.	F. Rattar, M. Baloch, A.W. Baloch , B.N. Mangan, N. Gandahi, T.A. Yaisr, S.H. Rao and S. Bano	Biofortification of iron in chickpea genotypes through different application methods	4 th International conference on Agriculture, Food and Animal Sciences held at Sindh Agriculture University, Tandojam, Pakistan (January 21-22, 2019)
17.	T.A. Yasir, M. Muzammil, A. Wasaya and A.W. Baloch		

18.	M.M. Nizamani, M.J. Rind, A.W. Baloch, M.A. Asad, W.A. Jatoy, R.A. Rind, M.M. Nizamani, and F.G. Nizamani	Genetic variability and heritability in 6 x 6 half diallel crosses of bread wheat (<i>Triticum aestivum</i> L.)	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
19.	A.A. Khokhar, M.J. Rind, A.W. Baloch, M.A. Asad, W.A. Jatoy, R.A. Rind, M.M. Nizamani, and F.G. Nizamani	Heterosis and combining ability estimates in 6 x 6 half diallel crosses of bread wheat (<i>Triticum aestivum</i> L.)	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
20.	A.W. Baloch, M.A. Mugheri, N. Gandahi, M.M. Nizamani, T.F. Abro, I.A. Baloch, G.H. Baloch and M. Ali	Genetic diversity analysis through phenotypic assessment in BT-Cotton germplasm	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
21.	T.A. Baloch, A.W. Baloch, A.A. Jatoy, N. Gandahi, F. Nizamani, A.A. Khokhar and T.F. Abro	Study of heritability in F ₂ population of hexaploid wheat (<i>Triticum aestivum</i> L.)	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
22.	R.A. Rind, A.W. Baloch, M.J. Rind, M.A. Asad, F.G. Nizamani, A.A. Khokhar, M.M. Nizamani and N. Gandahi	Genetic diversity analysis in Pakistani commercial and landrace genotypes of bread wheat	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
23.	N. Gandahi, A.W. Baloch, M.J. Baloch, M. Baloch, L.A. Bhutto, T.F. Abro, R.A. Rind and N.J. Baloch	Assessment of genetic divergence for agronomic traits in sunflower germplasm	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
24.	F.G. Nizamani, M.J. Baloch, A.W. Baloch, M.A. Asad, W.A. Jatoy, A.A. Khokhar, M.M. Nizamani, R.A. Rind and N. Gandahi	Response of wheat genotypes for terminal heat stress tolerance under earlier and later sowing dates	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
25.	A.A. Kaleri, A.W. Baloch, M.J. Baloch, M. Baloch, T.F. Abro, N. Gandahi, M.M. Nizamani and M. Ali	Estimation of heritability and correlation analysis in Bt and non-Bt cotton (<i>Gossypium hirsutum</i> L.)	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
26.	M.M. Nizamani, M.A. Asad, A.W. Baloch, R.A. Rind, F.G. Nizamani, A.A. Khokhar and S. Kumar	Correlation and genetic studies of some agronomic traits associated with grain yield in wheat (<i>Triticum aestivum</i> L.)	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
27.	S. Memon, A.W. Baloch, S. Memon, S. Baloch, N. Gandahi, A. Baloch and W.A. Jatoy	Evaluation of genetic divergence, character association and path analysis in upland cotton genotypes	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
28.	N.J. Baloch, A.W. Baloch, M.J. Baloch, N. Gandahi, I.A. Baloch, T.F. Abro, M. Ali	Genetic variability, heritability and genetic advance in F ₃ population of upland cotton (<i>Gossypium hirsutum</i> L.)	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
29.	F. Nizamani, M.J. Baloch, A.W. Baloch, M. Buriro, M.R. Nizamani and I.A. Mallano	Genetic distance, heritability and correlation analysis for yield and fiber quality traits in upland cotton genotypes	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017), Sindh Agriculture University, Tandojam.
30.	A.G. Baloch, H.R. Memon, A.W. Baloch, G.H. Baloch, T.A. Yasir, G.A. Baloch and M. Ali	Effect of different levels of soil applied zinc and boron on the growth and yield of wheat (<i>Triticum aestivum</i> L.)	National Conference on “Challenges and opportunities to boost agriculture in changing climate” held at college of Agriculture, BZU, Bahadur Sub-Campus, Layyah (March 29-30, 2017)
31.	A.W. Baloch, B.K. Khetran,	Heritability analysis of F ₂	National Conference on “Challenges and

	N. Gandahi, T.A. Yasir, I.A. Mallapragada, S. Abro, M.Y.M. Khan, A.W. Baloch	popul. for bread wheat (<i>Triticum aestivum</i> L.)	opportunities to boost agriculture in changing climate” held
32.	J.A. Khyber, A.W. Baloch , M.R. Baloch, N. Gandahi, T.A. Y and W.A. Jatoi	Evaluation of yield, its related traits and interrelationship of characters in Mexican wheat lines	National Conference on “Challenges and opportunities to boost agriculture in changing climate” held at college of Agriculture, BZU, Bahadur Sub-Campus, Layyah (March 29-30, 2017)
33.	M.A. Kumbhar, A.W. Baloch , I.A. Khan, N. Gandahi, T.A. Yasir, M.Y.M. Khan, M. Ali and I.A. Baloch	Genetic diversity analysis in commercial sugarcane (<i>Saccharum officinarum</i> L.) genotypes	National Conference on “Challenges and opportunities to boost agriculture in changing climate” held at college of Agriculture, BZU, Bahadur Sub-Campus, Layyah (March 29-30, 2017)
34.	N. Gandahi, N.A. Mangi, R.A. Mengal, A.W. Baloch , W.A. Jatoi, R. Baloch, T.A. Yasir and M. Ali	Inbreeding depression for some quantitative traits in F ₂ segregating populations of bread wheat	National Conference on “Challenges and opportunities to boost agriculture in changing climate” held at college of Agriculture, BZU, Bahadur Sub-Campus, Layyah (March 29-30, 2017)
35.	A.W. Baloch , M.J. Baloch, M. Baloch, M.A. Arain, T.A. Yasir, A.M. Baloch, I.A. Baloch, N. Gandahi, T.A. Baloch, S. Weining	Evaluation of genetic diversity in cultivated and wild barley populations collected from Jordan based on quantitative traits	14 th national and 5 th international conference of Botany entitled “ Climate change and phytodiversity: Challenges and opportunities (January, 15-18, 2016)
36.	N. Gandahi, R.A. Kandhro, A.W. Baloch , M.J. Baloch, M. Baloch, T.A. Yasir, G.M. Baloch, A.M. Baloch, M. Ali	Mean performance, heritability and genetic diversity analysis in Mexican bread wheat genotypes	14 th national and 5 th international conference of Botany entitled “ Climate change and phytodiversity: Challenges and opportunities (January, 15-18, 2016)
37.	M.J. Baloch, M.A. Arain, A.W. Baloch , A. Baloch, N. Iqbal	Evaluation of drought tolerance indices in spring wheat genotypes under water stress conditions	14 th national and 5 th international conference of Botany entitled “ Climate change and phytodiversity: Challenges and opportunities (January, 15-18, 2016)
38.	T.A. Yasir, Y.G. Hu, H. Ali, A. Wahid , M. Ijaz	Identification of SNPs in TaER genes and their association with CID related traits in Chinese bread wheat genotypes under water stress condition	14 th national and 5 th international conference of Botany entitled “ Climate change and phytodiversity: Challenges and opportunities (January, 15-18, 2016)
39.	A.W. Baloch , A.M. Solangi, G.M. Baloch, S. Abro, M. Baloch	Heterosis analysis for yield and fiber traits in upland cotton (<i>Gossypium hirsutum</i> L.)	2 nd International conference on agriculture food and animal sciences (February, 25-26, 2015)
40.	S. Memon, W.A. Jatoi, A.W. Baloch	Line x tester analysis for earliness and yield traits in <i>Gossypium hirsutum</i> L.	2 nd International conference on agriculture food and animal sciences (February, 25-26, 2015)

14. ORAL PRESENTATIONS IN CONFERENCES

1.	A.W. Baloch	Genetic diversity analysis through phenotypic assessment in Bt-Cotton germplasm	3 rd International conference on Agriculture, Food and Animal Sciences (January 10-11, 2017)

2.	A.W. Baloch	Evaluation of genetic diversity in cultivated and wild <i>Gossypium</i> populations collected from	4 th and 5 th International conference on Botany and
3.	A.W. Baloch	Heterosis analysis for yield and fiber traits in upland cotton (<i>Gossypium hirsutum</i> L.)	2 nd International conference on agriculture food and animal sciences (February, 25-26, 2015)

15. TRAININGS

S. NO.	NATURE OF WORK	DURATION	NAME/PLACE OF INSTITUTION
1.	Student Services Leadership Development	January 13-16, 2025	USAID'S Higher Education System Strengthening Activity
2.	Wheat breeding for stress tolerance (Biotic & Abiotic)	March 3-5, 2016	Nuclear Institute of Agriculture, Tandojam, Pakistan
3.	Nutrient Management for Better Crop Production	December 30-31, 2015	Nuclear Institute of Agriculture, Tandojam, Pakistan
4.	Novel Approaches used in Transgenic Breeding	December 9, 2015	Department of Plant Breeding and Genetics, SAU, Tandojam, Pakistan
5.	Career Orientation workshop	September, 16-18, 2015	Sindh Agriculture University in collaboration with HEC.
6.	Identifying morpho-physiological traits as selection criteria for drought tolerance breeding	August 12, 2015	Department of Plant Breeding and Genetics, SAU, Tandojam, Pakistan
7.	Hybrid seed production techniques in cotton and other crops	August 5, 2015	Department of Plant Breeding and Genetics, SAU, Tandojam, Pakistan
8.	Breeding for short duration and insect-pest resistant in cotton	July 29, 2015	Department of Plant Breeding and Genetics, SAU, Tandojam, Pakistan