



Curriculum Vitae

A. PERSONAL INFORMATION

Name: Dr. Mohammad Safdar Baloch
Father's Name: Muhammad Aslam Khan Baloch
Date of Birth: January 11, 1970
N.I.C. No: 12101-0911849-3
Religion: Islam
Nationality: Pakistani
Domicile: Dera Ismail Khan
Languages Spoken: Urdu, English
Marital Status: Married
Postal/Permanent Address: Sayeban-e-Khurshid, Mohallah Hayatullah Khan, Dera Ismail Khan
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B. EDUCATIONAL RECORD

Level of Education/ Examination Passed	Institution /Board/ University	Date of Obtaining Certificate / Degree	Marks Obtain/ Total	Division/ Grade/ Distinction	Specialized Field
SSC	Govt. High School No.1 / BISE Peshawar	1986	602/850	1 st	Science
F.Sc	Govt. College No.1 / BISE Peshawar	1988	611/1100	2 nd	Pre-Engg
B.Sc (Hons)	Faculty of Agriculture, Gomal Univ.	1992	553/850	1 st	Agriculture (Agronomy)
M.Sc (Hons)	Faculty of Agriculture, Gomal Univ.	1994	887/1000	1 st / Gold Medalist	Agriculture (Agronomy)
M.S	Faculty of Agriculture, Gomal Univ.	2004	A-Grade	1 st	Biological Resources
Ph.D.	Faculty of Agriculture, Gomal Univ.	2005	--	--	Agriculture (Agronomy)
Post-Doc	The University of Reading, UK	2009	--	--	Post-Harvest Management

Topic of M. Phil/ M.Sc (Hons): Economic acceptability of different seed rates alternates for weed control in broadcast wet-seeded rice”

Topic of PhD: Integration of some management techniques for increased productivity of rice”

C. JOB DETAILS-TEACHING AND RESEARCH EXPERIENCE

S. No.	Job Title, Period of Services and Address of Employer	Job Duties/ Responsibilities
1	Associate Professor , Chairperson, Department of Agronomy, Faculty of Agriculture, Gomal University, Dera Ismail Khan, June 01, 2011 to	Teaching, Research and Administration
2	Assistant Professor: Department of Agronomy, Faculty of Agriculture, Gomal University, Dera Ismail Khan, February 17, 2011 to May 27, 2011	Teaching and Research
3	Program Coordinator / Internal Controller of Semester	Secrecy and Conduct

	System of Examinations: Faculty of Agriculture, Gomal University, Dera Ismail Khan, May 02, 2013 to Dec 02, 2013	
4	Senior Research Officer/Agronomist: Agricultural Research System, Agriculture, Livestock and Cooperative Department, Govt. of KPK, Mar 18, 2008 to Feb 16, 2011	Research and Development
5	Research Officer: Agricultural Research System, Agriculture, Livestock and Cooperative Department, Govt. of KPK, July 16, 1999 to Mar 17, 2008	Research and Development

D. ADMINISTRATIVE EXPERIENCE

S. No.	Administrative Experience	Period Served From -To
1.	Chairperson, Department of Agronomy, Faculty of Agriculture, Gomal University, Dera Ismail Khan	May 17, 2016 to-date
2.	Convener of Board of Studies, Department of Agronomy, Faculty of Agriculture, Gomal University, Dera Ismail Khan	May 17, 2016 to –date
3.	Director Academic, Gomal University, Dera Ismail Khan	Dec 02, 2013 to Dec 16, 2014 Aug 27, 2016 to September 2017
4.	Secretary, University Affiliation Committee, Gomal University, Dera Ismail Khan	Jun 28, 2014 to Aug 27, 2015
5.	Convener/Internal Controller, Semester System Examinations, Faculty of Agriculture, Gomal University, Dera Ismail Khan	May 02, 2013 to Dec 02, 2013

E. POST PhD RESEARCH EXPERIENCE

One-year postdoctoral research based on heat/stress elicitor treatments to enhance the production of heat shock proteins and reduce water loss of agricultural commodities during storage. The aim was to provide mechanistic insights into the effects of heat treatments that can help in post-production handling problems and optimal storage conditions.

F. PROJECTS EXECUTED/ COMPLETED

S #	Name of project	Source of funding	Remarks
1.	Ethnobotanical, biological and phytochemical studies of selected medicinal plants of Dera Ismail Khan.	Higher Education Commission Islamabad	Completed
2.	Response of nitrogen and zinc on physiological and agronomic traits of wheat under agro-ecology of Dera Ismail Khan.	-do-	Approved/ In progress
3.	Evaluation of morpho-physiological, biochemical	-do-	In the process of

	and metabolic response mechanisms for modern bread wheat cultivars contrasting in tolerance strategies to drought.		approval
4.	Optimizing cotton-wheat system productivity through resource conserving techniques.	-do-	Approved/ In progress

G. INTERNATIONAL CONFERENCE/ FESTIVAL/ SYMPOSIUM

1. Morimoto, T, Y. Ouchi, **M. S. Baloch**, K. Hatou and Y. Hashimoto. 2005. Dynamic optimization of watering for qualitative improvement of Satsuma mandarin using intelligent control techniques. **16th Intl. Fed. Automatic Cont. World Congress, Prague, July 4-8, 2005, 1-6 in CD.**
2. Hatou, K, K. Hisaeda, **M. S. Baloch**, T. Morimoto and H. Nishina. 2005. A technique for building a leaf area measurement simulation model of tomato. **Soc. Instrument and Control Engineering (SICE), Okayama, Japan, August 8-10, 2005, 2375-2380.**
3. Hatou, K, K. Hisaeda, **M. S. Baloch**, T. Morimoto and H. Nishina. 2006. The model for non-destructive measurement of tomato leaf area. **Intl. Seminar for Image Processing on Bio-production Systems, Osaka, Japan, March 10, 2006, 25-34.**
4. Awan, I. U, I. Wazir, M. Sadiq, **M. S. Baloch**, I. H. Shah, M. A. Nadim, E. A. Khan, A. A. Khakwani and I. Bakhsh. 2011. Potential application of a crop extract for weed suppression as an alternative for chemical weed control in rice. **23rd Asian-Pacific Weed Sci. Soc. Conference, the Sebel Cairns, Queensland, Australia, September 26-29, 2011, 19-27.**

H. WORKSHOP/ SEMINAR/ CONFERENCE/BUSINESS FORUM/ JOB FAIR

1. 36th all Pakistan Science Conference on National Prosperity Through Livestock & Poultry Development at Gomal University, Dera Ismail Khan, **Pakistan** from November 12-13, 2012.
2. World Rice Research Conference at Tokyo and Tsukuba, **Japan** from November 4-7, 2004.
3. International Conference on Instrument and Control Engineering (SICE) at Okayama University, **Japan** from August 8-10, 2005.
4. International Conference on Research Highlights and Vanguard Technology on Environmental Engineering in Agricultural Systems at Kanazawa University, **Japan** from September 12-15, 2005.
5. International Seminar on Crop Wild Relatives Genetic Resource of Pakistan and their Utilization at National Agricultural Research Centre Islamabad, **Pakistan** on November 14, 2018.

I. FORMAL TRAINING

Name & Place	Type of Training	Duration From-To
NA	NA	NA

J. DISTINCT/ AWARD/ ACHIEVEMENT

Title of Award/ Certificate	Year	Awarded/ Nomination/ Presented by
Gold Medal in M.Sc (Hons) Agriculture	1994	Gomal University, Dera Ismail Khan
International Scholarship funded by Japan international Cooperation Agency (JICA) Scholarship	2004	Ehime University, Matsuyama, Japan
Post-Doctoral Research Scholarship at University of Reading, Reading, UK	2007	Higher Education Commission (HEC), Govt. of Pakistan
Research Productivity Award, PCST, Islamabad	2009	Pakistan Council for Science and Technology (PCST)
Accredited Ph.D. Supervisor	2007	Higher Education Commission Pakistan
Productive Scientist of Pakistan	2007	Pakistan Council for Science and Technology (PCST)

K. MEMBERSHIP OF ORGANIZATIONS

1. **Member** of Intellectual Body for Agriculture Development (**IBAD**), Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan, during 1992-1994.
2. **Member** of Students Activities Forum (**SAF**), Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan, during 1992-1994.
3. **Life Member** of Weed Science Society of Pakistan (**WSSP**), Weed Science Department, the University of Agriculture, Peshawar, Pakistan.
4. **Life Member** of Pakistan Society of Agronomy (**PSA**), Department of Agronomy, University of Agriculture, Faisalabad, Pakistan.
5. **Life Member** of JICA Alumni Association of Pakistan (**JAAP**), Islamabad, Pakistan.
6. **Member** of Board of Study (**BoS**), Department of Agronomy, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan from 2011 to-date.
7. **Member** of Board of Faculty (**BoF**) of Agriculture, Gomal University, Dera Ismail Khan, Pakistan from 2011 to-date.
8. **Member** of Academic Council, Gomal University, Dera Ismail Khan, Pakistan from 2011 to-date.
9. **Member** of Admissions Committee, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan, from 2012 to-date.

10. **Convener** for Frontier Education Foundation Scholarships, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan, during 2013.
11. **Member** of University Admissions Appellate Committee (**UAAC**), Gomal University, Dera Ismail Khan, Pakistan, during 2013-2014.
12. **Member** of Advisory Committee for strengthening Distance Learning Program, Gomal University, Dera Ismail Khan, Pakistan in 2014.
13. **Member** of University Committee for devising semester system of examinations regulations, Gomal University, Dera Ismail Khan, Pakistan, during 2015-2016.
14. **Member** of University Committee for devising statutes and regulations for MS/M.Phil/MCS/M.Sc (Hons) and Ph.D. degree programs, Gomal University, Dera Ismail Khan, Pakistan, during 2015-2016.
15. **Member** of University Committee for establishing Center / Faculty of Languages for various academic programs in Gomal University, Dera Ismail Khan, Pakistan, during 2015-2016.
16. **Member** of Advanced Studies and Research Board (**ASRB**), Gomal University, Dera Ismail Khan, Pakistan from February 2012 to September 2015 and from February 2018 to-date.
17. **Member** of Senate, Gomal University, Dera Ismail Khan, Pakistan from January 2016 to-date.

L. INTERNATIONAL PUBLICATION OF BOOKS

Author of Book “Heat elicitor treatment reduces water loss of fruits during storage” (ISBN: 978-3-639-33541-5), published by VDM Verlag Dr. Muller GmbH & Co. KG (**Germany**).

M. NATIONAL PUBLICATION OF BOOKS/ ANNUAL REPORT/NEWSLETTERS

Co-author of “Hand Book of Production Technology” (ISBN: 969-8787-00-3), published by Directorate of Outreach, KPK Agricultural University, Peshawar (**Pakistan**).

N. ACADEMIC AND RESEARCH ACHIEVEMENTS

Co-Breeder of wheat varieties “Zam-04”, “Hashim-8” and “Gomal-8” (approved by Provincial Seed Council for rain-fed and irrigated areas of KPK Province), during 2004-2009.

O. SCHOLARLY/ HONORARY AND UNIVERSITY EXTENSION LECTURES

NA

P. EDITORIAL AND VETTING OF INTERNATIONAL/ HEC RECOGNIZED JOURNALS

1. **Editor** of Urdu and Saraiki sections of Tooba magazine, Faculty of Agriculture, Gomal University, Dera Ismail Khan, during 1992-1994.

2. **Associate Editor** of Pakistan Journal of Biological Sciences, during 1998-2002.
3. **Technical Editor** of Pakistan Journal of Agronomy, during 2003-2004.
4. **Member** of Technical Editorial Board of Gomal University Journal of Research in 2016.
5. **Editor** of Pakistan Journal of Weed Science Research from 2016 to-date
6. **Reviewer** of Emirates Journal of Agricultural Sciences (**UAE**)
7. **Reviewer** of Philippine Journal of Science (**Philippine**)
8. **Reviewer** of Journal of Stored Products and Postharvest Research (**Africa**)
9. **Reviewer** of African Journal of Environmental Science and Technology (**Africa**)
10. **Reviewer** of Journal of Agricultural Extension and Rural Development (**Africa**)
11. **Reviewer** of African Journal of Agricultural Research (**Africa**)
12. **Reviewer** of Weed Biology and Management (**Japan**)
13. **Reviewer** of Journal of Food Engineering (**USA**)
14. **Reviewer** of American Journal of Experimental Agriculture (**USA**)
15. **Reviewer** of Indian Journal of Science and Technology (**India**)
16. **Reviewer** of Journal of Agricultural Science and Technology (**Iran**)
17. **Reviewer** of Pakistan Journal of Weed Science Research (**Pakistan**)
18. **Reviewer** of Pakistan Journal of Biological Sciences (**Pakistan**)
19. **Reviewer** of Pakistan Journal of Scientific and Industrial Research (**Pakistan**)
20. **Reviewer** of Sarhad Journal of Agriculture (**Pakistan**)
21. **Reviewer** of Gomal University Journal of Research (**Pakistan**)
22. **Reviewer** of Journal of Agriculture Research (**Pakistan**)
23. **Reviewer** of Journal of Science and Technology (**Pakistan**)
24. **Reviewer** of Journal of Applied Sciences (**Pakistan**)
25. **Reviewer** of Pakistan Journal of Agricultural Sciences (**Pakistan**)

Q. LIST OF RESEARCH PUBLICATIONS (IMPACT FACTOR/ HEC RECOGNIZED)

a. Research Publications in 2018

1. Din, B., M. Afzal, M. B. Khan, Y. Ihtesham, M. Sadiq, **M. S. Baloch**, E. A. Khan, M. I. Khan, J. Akhtar and N. Ullah. 2018. Antimalarial potential of leaves crude extract of *Monothecha buxifolia*. **Intl. J. Biosci.**, 12 (1): 27-34.
2. Nadim, M. A, **M. S. Baloch**, M. Sadiq, Y. Ihtesham, K. Waseem and M. Kiran. 2018. Wheat yield enhancement through balanced nutritional management. **Intl. J. Biosci.**, 12 (4): 8-15.

3. Shah, R. H, **M. S. Baloch**, M. Zubair and M. Ijaz and A. A. Khan. 2018. Bioherbicide assessment of aqueous extracts of mesquite (*Prosopis juliflora*) on weeds control and growth, yield and quality of wheat. **Planta Daninha**, v36:e018169995. (IF: 0.461)
4. Ullah, N, A. A. Khakwani, N. U. Khan, **M. S. Baloch** and E. A. Khan. 2018. Effect of irrigation intervals on the yield and fibre characteristics of different cotton genotypes. **Sarhad J. Agric.**, 34(2): 342-348.
5. Bari, A, **M. S. Baloch**, A. A. Khakwani, I. Hussain, J. Iqbal and A. N. Shah. 2018. Application of various herbicides on controlling large and narrow leaf weeds and their effects on physiological and agronomic traits of wheat. **Accepted** in *Planta Daninha*. (IF: 0.461)
6. Abdullah, Y, **M. S. Baloch**, M. M. Hashim, M. A. Nadim, G. Ullah, A. A. Khan and A. N. Shah. 2018. Weed management in wheat by cuscute (*Cuscuta reflexa* L.) alone and in combination with commercial weedicides allymax and axial. **Accepted** in *Planta Daninha*. (IF: 0.461)
7. Aman, A, **M. S. Baloch**, Q. U. Khan, A. A. Khan, M. A. Nadim and A. N. Shah. 2018. Impact of full vs. deficit irrigations on various phenological stages of wheat. **Submitted** to *Planta Daninha*.
8. **Baloch, M. S**, K. Niranjan, M. M. Hashim, M. Munir, M. I. Haq, A. N. Shah, A. A. Khan and C. Wagstaff. 2018. Quality and shelf life of tomato as affected by hot water and hot air treatments. **Submitted** to *Plos ONE*.
9. Ullah, N, I. Bakhsh, E. A. Khan, **M. S. Baloch**, I. Hussain, S. Sahar and A. A. Khakwani. 2018. To investigate the developmental and metabolic networks for determining mature bread wheat seed composition using systems biology approach. **Submitted** to *Frontiers in Pl. Sci.*
10. Ullah, N, I. Bakhsh, E. A. Khan, **M. S. Baloch**, I. Hussain, S. Sahar and A. A. Khakwani. 2018. Evaluation of morpho-physiological, biochemical and metabolic response mechanism for modern bread wheat cultivars contrasting in tolerance strategies to drought. **Submitted** to *Frontiers in Pl. Sci.*
11. Bakhsh, I, E. A. Khan, **M. S. Baloch**, I. Hussain, A. A. Khakwani and N. Ullah. 2018. Effect of plant growth regulator on bio-economic efficiency of coarse rice. **Submitted** to *Turkish J. Biol.*
12. Khan, S, M. Zubair, W. Nouman, I. Haq, U. Farooq, **M. S. Baloch** and S. A. Manzoor. 2016. Ethnobotanical study of southern Punjab tehsil of Dunyapur. **Submitted** to *J. Life and Pl. Sci.*
13. Zuhaib, M, A. Hussain, F. Khan, M. Zubair, **M. S. Baloch**, S. A. Manzoor and I. Haq. 2017. Investigation on population dynamics and threats to Francolin (*Francolinus pondicerianus*). **Submitted** to *Res. J. Biotech.*

14. Khan, N, A. H. Shah, M. Sadiq, E. A. Khan, Y. Ihtesham, **M. S. Baloch**, J. Akhtar, A. N. Khan. 2017. Antimalarial potential and phytochemical screening of stem bark crude extract of *Jatropha curcas* L. 2017. **Submitted** to Intl. J. Biosci.
- b. Research publications in 2017**
1. Khan, M. B, M. Afzal, Y. Ihtesham, M. Sadiq, E. A. Khan, M. Fiaz, B. Din, M. I. Khan, **M. S. Baloch** and N. Ullah. 2017. Antimalarial potential of leaves crude extract of *Callistemon lanceolatus* D.C. **Intl. J. Biosci.**, 11 (5): 11-20.
 2. Khan, S. M, F. Rehman, E. A. Khan, **M. S. Baloch**, M. Sadiq, I. Ullah, S. Javaria and S. Shaheen. 2017. *Ricinus cmmunis*: Ethnomedicinal uses and pharmacological activities - Review. **Pak. J. Pharm. Sci.**, 30 (5): 1815-1827. (IF: 0.804)
 3. Akhtar, S. J, **M. S. Baloch** and A. A. Khan. 2017. Clipping in wheat: Impact of varieties and stage of harvest on green fodder, crop growth and yield of wheat. **Gomal Univ. J. Res.**, 33 (1): 13-24.
 4. Khattak, S. I, **M. S. Baloch**, K. Naveed and E. A. Khan. 2017. Improving farmers' income and nitrogen use efficiency of dry land wheat through soil and foliar application of N-fertilizer. **Sarhad J. Agric.**, 3 (3): 344-349.
 5. Shah, R. H, **M. S. Baloch**, M. Zubair and E. A. Khan. 2017. Phytotoxic effect of aqueous extracts of different plant parts of milkweed on weeds and growth and yield of wheat. **Planta Daninha**, v35:e017168160. (IF: 0.461)
- c. Research publications in 2016**
1. Shah, R. H, **M. S. Baloch**, M. Zubair, E. A. Khan, M. Ahmad and G. Abbas. 2016. Phytotoxicity of different aqueous extract concentrations of mesquite (*Prosopis juliflora*) on germination and seedling growth of wheat. **Asian J. Agric. Biol.**, 4 (2): 25-32.
 2. Khakwani, A. A, U. K. Saddozai, I. U. Awan, **M. S. Baloch**, Q. U. Khan, M. Munir, G. U. Saddozai and I. Bakhsh. 2016. Effect of organic and inorganic inputs on soil parameters and productivity of coarse rice (*Oryza sativa* L.) cv. IR-9. **J. Agric. Res.**, 54 (2): 195-206.
 3. Khattak, S. I, M. A. Nadim, **M. S. Baloch**, K. Wasim and M. Sohail. 2016. Impact of variable seeding dates on cereals performance under agro-ecological conditions of Dera Ismail Khan. **Pak. J. Agric. Res.**, 29 (3): 236-243.
 4. Nadim, M. A, **M. S. Baloch**, E. A. Khan, A. A. Khakwani and K. Wasim. 2016. Integration of organic, synthetic fertilizers and micronutrients for higher growth and yield of wheat. **Sarhad J. Agric.**, 32 (1): 9-16.
- d. Research publications in 2015**

1. Naveed, K, M. A. Khan, **M. S. Baloch**, M. Arif, S. A. Naqvi, J. Khan and S. Ali. 2015. Early planting date can compensate the reduction in wheat yield due to fodder cutting in dual purpose wheat. **Pak. J. Agric. Sci.**, 52 (2): 467-475. (IF: 0.690)
2. Khan, S. U, **M. S. Baloch**, Q. U. Khan, E. A. Khan, M. A. Nadim and A. A. Khan. 2015. Phyto-accumulation of Cu, Cd and Pb in maize crop grown under domestic and industrial waste water. **Carpathian J. Earth & Environ. Sci.**, Romania, 10 (2): 209-217. (IF: 0.880)
3. **Baloch, M. S**, I. H. Shah, A. A. Khakwani, K. Naveed, M. A. Nadim, M. H. Malik and N. Hussain. 2015. Growth and yield of wheat varieties under the agro-ecology of Dera Ismail Khan. **Gomal Univ. J. Res.**, 31 (2): 18-28.

e. **Research publications in 2014**

1. Naveed, K, M. A. Khan, **M. S. Baloch**, K. Ali, M. A. Nadim, E. A. Khan, S. Shah and M. Arif. 2014. Effect of different seeding rates on yield attributes of dual-purpose wheat. **Sarhad J. Agric.**, 30 (1): 83-91.
2. Khakwani, A. A, S. Noor, M. Sadiq, I. U. Awan, M. Munir, **M. S. Baloch**, G. Ullah and I. Bakhsh. 2014. Impact of plant densities and NPK fertilization on growth and optimum economic return of sunflower. **Sarhad J. Agric.**, 30 (2): 157-163.
3. Zubair, M, D. M. Zahid, S. B. Hussain, W. Nouman, **M. S. Baloch**, A. Hussain, M. I. Mehmood and M. I. Manzoor. 2014. Comparative efficacy of HEIS in growing commercially important forest hardwoods. **J. Food Agric. & Environ.**, Finland, 12 (2): 886-888. (IF: 0.260)

f. **Research publications in 2013**

1. Nadim, M. A, I. U. Awan, **M. S. Baloch**, N. Khan and K. Naveed. 2013. Micronutrients use efficiency in wheat as affected by different application methods. **Pak. J. Bot.**, 45(3): 887-892. (IF: 0.690)
2. Ullah, G, E. A. Khan, I. U. Awan, M. A. Khan, A. A. Khakwani, **M. S. Baloch**, Q. U. Khan, M. S. Jilani, K. Wasim, S. Javeria and G. Jilani. 2013. Wheat response to application methods and levels of nitrogen fertilizer: I. Phenology, growth indices and protein content. **Pak. J. Nutr.**, 12 (4): 365-370.
3. Qadir, J, I. U. Awan, **M. S. Baloch**, I. H. Shah, M. A. Nadim, N. Saba and A. A. Khakwani. 2013. Application of micronutrients for yield enhancement in rice. **Gomal Univ. J. Res.**, 29 (2): 9-16.
4. Khan, S, I. U. Awan, **M. S. Baloch**, E. A. Khan, A. A. Khakwani and N. Hussain. 2013. Performance of maize varieties under irrigated conditions of Dera Ismail Khan. **Gomal Univ. J. Res.**, 29 (2): 26-31.

5. Saba, N, I. U. Awan, **M. S. Baloch**, I. H. Shah, M. A. Nadim and J. Qadir. 2013. Improving synthetic fertilizer use efficiency through bio-fertilizer in rice. **Gomal Univ. J. Res.**, 29 (2): 32-38.
6. Naveed, K, M. A. Khan, **M. S. Baloch**, N. Khan and M. A. Nadim. 2013. Effect of time of nitrogen application on morphological and physiological attributes of dual purpose wheat. **Pak. J. Bot.**, 45 (4): 1299-1305. (IF: 0.690)
7. Sadozai, G. U, M. Farhad, M. A. Khan, E. A. Khan, M. Niamatullah, **M. S. Baloch**, A. A. Khakwani and K. Wasim. 2013. Effect of different phosphorous levels on growth, yield and quality of spring planted sunflower. **Pak. J. Nutr.**, 12 (12): 1070-1074.
8. Zakariya, M. I, I. U. Awan, **M. S. Baloch**, A. A. Khakwani and M. Sadiq. 2013. Integrated weed management strategies in wheat. **Pak. J. Weed Sci. Res.**, 19 (2): 217-230.
9. Baloch, A. A, M. Saqib, **M. S. Baloch**, M. Sadiq and M. Zubair. 2013. Efficacy of different weedicides as affected by their mode of application in wheat crop. **Pak. J. Weed Sci. Res.**, 19 (4): 419-425.

g. **Research publications in 2012**

1. Nadim, M. A, I. U. Awan, **M. S. Baloch**, E. A. Khan, K. Naveed and M. A. Khan. 2012. Response of wheat to different micronutrients and their application methods. **J. Anim. Pl. Sci.**, 22 (1): 113-119. (IF: 0.407)
2. Javaid, T, I. U. Awan, **M. S. Baloch**, I. H. Shah, M. A. Nadim, E. A. Khan, A. A. Khakwani and M. R. Abuzar. 2012. Effect of planting methods on the growth and yield of coarse rice. **J. Anim. Pl. Sci.**, 22 (2): 358-362. (IF: 0.407)
3. Khan, M. H, N. Din, A. A. Khakwani, **M. S. Baloch**, M. Zubair and A. W. Khan. 2012. Gomal-8, a high yielding, disease tolerant wheat variety for irrigated areas. **J. Anim. Pl. Sci.**, 22 (2): 403-407. (IF: 0.407)
4. Khan, A. A, I. U. Awan, M. Mansoor, E. A. Khan, A. A. Khakwani and **M. S. Baloch**. 2012. Use of concentrated aqueous plant exudates as weed control measure in wheat crop. **Pak. J. Weed Sci. Res.**, 18 (1): 99-105.
5. Khakwani, A. A, M. D. Dannett, M. Munir and **M. S. Baloch**. 2012. Wheat yield response to physiological limitations under water stress condition. **J. Anim. Pl. Sci.**, 22 (3): 773-780. (IF: 0.407)
6. Raza, M. H, G. U. Sadozai, **M. S. Baloch**, E. A. Khan, I. Din and K. Wasim. 2012. Effect of irrigation levels on growth and yield of mungbean. **Pak. J. Nutr.**, 11 (10): 876-879.
7. Bakhsh, I, I. U. Awan, **M. S. Baloch**, E. A. Khan and A. A. Khakwani. 2012. Effect of plant growth regulator (NAA) and irrigation regimes on yield of transplanted coarse rice. **Sarhad J. Agric.**, 28 (1): 539-544.
8. Noor, K, E. A. Khan, **M. S. Baloch**, M. A. Khan, I. U. Awan, M. Sadiq and M. Aslam. 2012. Allelopathic effect of congress grass on weeds and yield of wheat. **Pak. J. Weed Sci. Res.**, 18 (3): 307-318.

9. Awan, I. U, S. Ali, E. A. Khan, **M. S. Baloch**, I. Bakhsh, A. A. Khakwani and M. Sadiq. 2012. Evaluation of wheat varieties under water stressed conditions. **Crop & Environ.**, 3 (1-2): 9-12.
10. **Baloch, M. S**, M. Zubair and M. A. Nadim. 2012. Evaluation of wheat under normal and late sowing conditions. **Pak. J. Bot.**, 44 (5): 1727-1732. (IF: 0.690)

h. **Research publications in 2011**

1. **Baloch, M. S.** and K. Abdullah. 2011. Effect of planting techniques on incidence of stem borers (*Scirpophaga* spp.) in transplanted and direct wet-seeded rice. **Pak. J. Zool.**, 43 (1): 9-14. (IF: 0.310)
2. Zubair, M., C. Garforth, S. B. Hussain, D. M. Zahid, **M. S. Baloch**, F. R. Shah, I. U. Awan, M. A. Ullah and N. Hussain. 2011. Farm forestry in Pakistan: an application of theory of planned behaviour by probing into the measurement issues. **Pak. J. Bot.**, 43 (1): 705-714. (IF: 0.690)
3. Khan, M. H, N. U. Din, A. A. Khakwani, **M. S. Baloch**, M. Zubair, S. Khan and A. W. Khan. 2011. Hashim-8: a short duration, high yielding and disease resistant wheat variety for rain-fed areas of Pakistan. **Intl. J. Agric. Biol.**, 13 (6): 956-960. (IF: 0.930)
4. Nadim, M. A, I. U. Awan, **M. S. Baloch**, E. A. Khan, K. Naveed, M. A. Khan, M. Zubair and N. Hussain. 2011. Effect of micronutrients on growth and yield of wheat. **Pak. J. Agri. Sci.**, 48 (3): 191-196. (IF: 0.690)
5. Abuzar, M. R, G. U. Sadozai, **M. S. Baloch**, A. A. Baloch, I. H. Shah, T. Javaid and N. Hussain. 2011. Effect of plant population densities on yield of maize. **J. Anim. Pl. Sci.**, 21 (4): 692-695. (IF: 0.407)
6. Hussain, N, M. Y. Khan and **M. S. Baloch**. 2011. Screening of maize varieties for grain yield at Dera Ismail Khan. **J. Anim. Pl. Sci.**, 21 (3): 626-628. (IF: 0.407)
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