



CURRICULUM VITAE

BAKHTIAR GUL

Home Address: Usmania Street, Lalazar Colony, University Campus Peshawar, Khyber Pakhtunkhwa Province, Pakistan

Mailing Address: Associate Professor (Tenured), Department of Weed Science and Botany, The University of Agriculture Peshawar- Pakistan

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PERSONAL DETAILS

Father's Name:	Khaista Gul	Domicile:	Mardan (KPK-Pakistan)
Date of Birth :	January 1, 1981	Religion:	Islam
N.I.C Number:	16101-2982728-5	Marital Status:	Married
Nationality:	Pakistani	Languages:	English, Urdu and Pashto
Passport No:	BJ4797281		(R, W, L, S).

ACADEMIC BACKGROUND

<i>Certificates/ Degrees</i>	<i>Year of Passing</i>	<i>Major Group / Subjects</i>	<i>Marks/CGPA Obtained</i>	<i>Division / %</i>	<i>Institution / University</i>
Ph.D.	2009	Weed Science (Agriculture)	3.91/4.00	1 st div 89.58%	The University of Agriculture Peshawar
M.Sc. (Hons)	2004	Weed Science (Agriculture)	3.97/4.00	1 st div 93.46%	//
B.Sc. (Hons)	2003	Weed Science (Agriculture)	3.77/4.00	1 st div 86.30%	//
F.Sc.	1998	Pre-Medical	728/1100	1 st div 66.18%	BISE Peshawar
S.S.C.	1996	Science	645/850	1 st div 75.88 %	//

DISTINCTIONS

1. Bronze Medal in Faculty of Crop Protection Sciences in M.Sc. (Hons).
2. 1st Position in the Department in M.Sc. (Hons)
3. Achieved Indigenous Scholarship under HEC Indigenous Scholarship Scheme in Science & Tech.
4. HEC Approved Supervisor.

FIELD OF SPECIALIZATION: Weed Science (Agriculture)

EXPERIENCE AS RESEARCH ASSOCIATE AND REPORT WRITING (Research Projects)

- Three years experience (2003-05) in the project entitled "Parasitic weeds management in rapeseed, onion and legume crops in NWFP" in Agricultural Linkages Program (ALP) funded by Pakistan Agricultural Research Council (PARC) Islamabad.
- One year experience (2006) in the project entitled "Management of weeds in wheat in NWFP" sponsored by Pakistan Science Foundation (PSF).

EXPERIENCE AS AGRICULTURE OFFICER (BPS 17)

- Served as Agriculture Officer (BPS-17) from 24/09/2008 to 30-9-2009 at Katlang District Mardan in Agriculture Extension Department, Govt. of Khyber Pakhtunkhwa. The service was resigned on 30-9-2009 for the appointment as Lecturer in the Department of Weed Science Khyber Pakhtunkhwa Agricultural University Peshawar- Pakistan.

EXPERIENCE AS LECTURER (BPS 18)

- Served as Lecturer in the Department of Weed Science, The University of Agriculture Peshawar- Pakistan from 01-10-2009 to 28-04-2010 (07 Months) i.e. till the appointment as Assistant Professor.

EXPERIENCE AS ASSISTANT PROFESSOR (TTS/ BPS 19)

- Served as Assistant Professor (TTS) in the Department of Weed Science, KPK Agricultural University Peshawar from 28-04-2010 to 22-11-2018.

EXPERIENCE AS ASSOCIATE PROFESSOR ((Tenured position) TTS/BPS 20)

- Presently serving as Associate Professor (Tenured) in the Department of Weed Science, KPK Agricultural University Peshawar from 23-11-2018 to date.

EXPERIENCE AS DEPUTY DIRECTOR TEACHING

- Working as Deputy Director Teaching/Academics from 16th August 2013- 02-01-2015 in the University of Agriculture Peshawar Pakistan.

OTHER SERVICES

1. Life Member Weed Science Society of Pakistan
2. Referee Pakistan Journal of Weed Science Research
3. Curator/ Incharge Special Herbarium for weeds and medicinal plants Department of Weed Science, the University of Agriculture Peshawar.

COURSES TAUGHT

Serial no.	Course No.	Credit Hours	Course Title	Class
1	WS-301	03	Introductory Botany	B. Sc. (H)-I
2	WS-401	03	Introduction to Weed Science	B. Sc. (H)-II
3	WS-501	03	Plant Anatomy	B. Sc. (H)-III
4	WS-503	03	Introduction to Taxonomy of Angiosperms	B. Sc. (H)-III
5	WS-504	03	Weed Identification-1	B. Sc. (H)-III
6	WS-507	03	Perennial and Parasitic weeds and their management	B. Sc. (H)-III
7	WS-511	03	Weed management in field crops	B. Sc. (H)-III
8	WS-601	03	Introduction to Applied Ethnobotany	B. Sc. (H)-IV
9	WS-603	03	Weed Physiology	B. Sc. (H)-IV
10	WS-605	03	Introduction to herbicide chemistry	B. Sc. (H)-IV
11	WS-611	03	Introduction to Aquatic weeds and their management	B. Sc. (H)-IV
12	WS-703	03	Advance Weed Ecology	M. Sc. (H)-I
13	Bot-501	03	Diversity of Vascular Plants	M Sc. Botany
14	BOT-706	03	Environmental Biology	M. Phil. Botany
15	WS-709	03	Invasive Weeds	PhD

16	WS-714	03	Herbicide Chemistry	PhD
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COURSES DEVELOPED

Course No.	Credit Hours	Course Title
WS-605	03	Introduction to Herbicide Chemistry
WS-507	03	Perennial and Parasitic weeds and their management

STUDENTS SUPERVISED

S. No.	Student Name	Title of Thesis/Internship	Class	Year
1.	Ijaz Ali Khan	Impact of soil solarization in combination with other weed management strategies on weed control in onion nurseries (Internship)	B.Sc.(H)	2010
2.	Ijaz Ahmad	Exploring wild /weed flora of the greater campus of Peshawar Universities	B.Sc.(H)	2012
3.	Arsalan Khan	Impact of various allelochemicals on the germination of various members of cucurbitaceae family	B.Sc.(H)	2012
4.	Muhammad Fawad	Study and collection of the hydrophytes of the District Swabi	B.Sc.(H)	2012
5.	Muhammad Kashif	Impact of soil moisture and various soil depths on the re-sprouting ability of Johnson grass (<i>Sorghum halepense</i> L.) rhizome fragments.	B.Sc.(H)	2013
6.	Sakina Bibi	Distribution, ecology, physiology, utilization and management of <i>Lemna minor</i> in various fresh water bodies	MSc Botany	2014
7.	Bilal Khan	Study and collection of amphiphytes and limnophytes in various fresh water bodies of Charasadda District	MSc Botany	2014
8.	Malaika Qazi	Distribution, ecology, physiology, utilization and management of <i>Nastartium officinale</i> in various fresh water bodies of Pakistan	MSc Botany	2014
9.	Shafaq Javed	Distribution, ecology, physiology, utilization and management of <i>Typha</i> species in various fresh water bodies	MSc Botany	2014
10.	Maryam Saeed	Impact of water hyacinth and water lettuce water extracts on growth and germination of wheat and its associated troublesome weeds	MSc Botany	2014
11.	Amina Zaib	Distribution, ecology, physiology, utilization and management of <i>Phragmites australis</i>	MSc Botany	2014
12.	Aisha Kamal	Ecology, distribution, utilization and management of Lotus IN fresh water bodies of KP Province	MSc Botany	2014
13.	Sohail Ijaz	To study the aallelopathic effect of lotus and arrowhvae weed on the germination and growth of wheat and its associated wees	MSc Botany	2014
14.	Muhammad Fawad	Management of <i>Echhornia crassipes</i> in the drainage ditches of the District Swabi	M.Sc.(H)	2015
15.	Afaq Khan	Management of <i>Typha latifolia</i> in stagnant water ponds along irrigation channel of village Hund, District Swabi.	M.Sc.(H)	2016
16.	Saleetha Rabial	Effect of water quality and herbicides on the management of duck weed	M. Phil (Botany)	2017
17.	Hafiz Ullah	Effect of pH, salinity and nutrients on proximate analysis of duckweed	M.Phil (Botany)	2017

18.	Muhammad Ibrahim	Impact of water levels and herbicides on the re-sprouting ability of common reed rhizomes fragments	B.Sc. (H)	2017
19.	Bilal Khan	Chemical weed management of Alligator weed (<i>Alternanthera philoxeroides</i>) in drainage ditches of District Peshawar, Khyber Pakhtunkhwa	B.Sc. (H)	2018
20	Waqar Ahmad (As Major Member)	Assessment of heavy metals accumulation by aquatic macrophytes in natural habitat and artificially spiked Hoagland solution	M.Sc. (H)	2019
21	Sardar Alam	Ethnomedicines and traditional plant based remedies used in District Shangla	B.Sc. (H)	2019
22	Muhammad Saddique	Review of weed management in lawns	B.Sc. (H)	2021
23	Maqsood Ali	Non-chemical weed management in summer vegetables in Pakistan	B.Sc. (H)	2021
24.	Alma Ghayasuddin	Impact of water quality, rhizome size, and water depth on the re-sprouting ability of commoncattail (<i>Typha latifolia</i>) rhizomes	M.Phil (Botany)	2021
STUDENTS RESEARCH IN PROGRESS				
25.	Ijaz Ahmad	Management of various aquatic weeds in streams and canal system of KPK	PhD	Foreign evaluation reports received
26.	Huzaiifa Hammad	Evaluation of various types of mulches for weed management and productivity of maize	M.Sc. (H)	Research in progress
27	Muhammad Ilyas		M.Sc. (H)	Synopsis in progress

INTERNATIONAL CONFERENCES AND WORKSHOPS/TRAININGS ATTENDED

- 1st International Weed Science Conference 23-26 October, 2003 at Department of Weed Science, NWFP Agricultural University Peshawar.
- 2nd International Weed Science Conference 20-22 March 2006 held at University of Arid Agriculture, Rawalpindi.
- 22nd Asian Pacific Weed Science Society (APWSS) Conference held at GC University Lahore, Pakistan, 8-12 March 2010.
- International Symposium on Institutional Linkages for Agriculture Development in Pakistan held at KPK Agricultural University Peshawar, Dec 20-21, 2010
- 3rd International Weed Science Conference. April 18-20, 2011 held at Khyber Pakhtunkhwa Agricultural University Peshawar.
- International day on biological diversity “ Forest Biological Diversity” 25th May 2011, presenting poster and celebrating the international day on biological diversity at KPK Agricultural University Peshawar.
- International conference on Climate change: A challenge for agriculturists. May 28-30, 2012 at Khyber Pakhtunkhwa Agricultural University Peshawar.
- 4th International Weed Science Conference “Vegetation management in 21st century”. September 06-08, 2012 held at Khyber Pakhtunkhwa Agricultural University Peshawar.
- 4th International and 13th National conference of Botany. August 27- 30, 2014 held at Shaheed Benazir Bhutto University Sheringal, Upper Dir.
- 5th International and 12th National Weed Science Conference, 12 to 14 June 2015 held at Shaheed Benazir Bhutto University Sheringal, Upper Dir.
- International conference on “climate change threats to agriculture and food security, THINK-ADAPT, 2017. November, 22-24, 2017. Climate change center, the University of Agriculture Peshawar, Pakistan.
- Two days training of presiding officers and senior presiding officers General Election 2018, organized by the Election Commission of Pakistan on 14-15 July 2018 in Cantonment School no. 3 Peshawar Saddar.
- Two days International conference, 23-24 October, 2019, on ‘Strategies for ensuring food security in the changing climate’ at the University of Agriculture, Peshawar- Pakistan.

NATIONAL CONFERENCES AND WORKSHOPS/TRAININGS ATTENDED

1. 6th National Weed Science Conference 28-30 March 2005 at Department of Weed Science, NWFP Agricultural University Peshawar.
2. 7-day "Workshop for In-Service Teachers of Botany" Aug 9-14, 2005 at NWFP Agricultural Univ Peshawar.
3. HEC 2nd workshop on "Training of trainers in conservation strategies for plant biodiversity of Pakistan" Aug 20-21, 2007, organized by Centre of Plant Biodiversity (University of Peshawar Botanical Garden).
4. 2 days training course on "Climate Change and its Impact on Food Security" May 19-20, 2010 at KPK Agricultural University Peshawar Pakistan.
5. Talented Researcher Exchange Program (Sustainable Research Networks Workshop), December 22-23, 2010- at Department of Agricultural Chemistry, Khyber Pakhtunkhwa Agricultural University Peshawar.
6. International day on biological biodiversity 2011 "Forest Biological Diversity" 25th May, 2011. Organized by the University of Agriculture Peshawar.
7. One day training workshop on "Higher Education Quality Assessment" held on December 13, 2011. Organized by Quality Enhancement Cell of The University of Agriculture Peshawar.
8. Cascading of AIT Based Training Program "Ensuring Training Effectiveness" from July 04-06, 2012 at Khyber Pakhtunkhwa Agricultural University Peshawar.
9. Training on "Incorporating Technology in Education (ITE)" from July 02-13, 2012, held at IBMS, Khyber Pakhtunkhwa Agricultural University Peshawar.
10. 3rd Bio-safety Training Workshop for Young scientists. January 28, 2014 at the University of Agriculture Peshawar- Pakistan.
11. Training on "Data analysis techniques for crops, animal and social sciences." February 6, 2014. Organized by AUTA (Agricultural University Teachers Association) at The University of Agriculture Peshawar.
12. Training/Seminar on "Scientific Writing and Publication in Journals". By Dr Robert Edward Gurmbe from Kunming Institute of Botany Chinese Academy of Science Kunming, China, from 14th May, 2014. At Climate Change Centre (CCC), the University of Agriculture Peshawar Pakistan.
13. 13th National Conference of Weed Science on "Vegetation management in the Era of Climate Change for sustainability at Shaheed Benazir Bhutto University, Sheringal on August 19-21, 2016.
14. A three days National conference on "Thinking climate change adaptation in water and farming; THINK-ADAPT, 2016 from November 28-30, 2016 at climate change center, the University of Agriculture Peshawar, Pakistan.
15. One day Workshop on "Intellectual Property Rights" regarding drafting & filing of patent application, December 16, 2016, at the University of Agriculture Peshawar- Pakistan.
16. Two days training on "Data exploration, visualization and analysis using Statistical Software" on 09-10 January 2018. Organized by Department of Mathematics, Statistics and Computer Science, the University of Agriculture Peshawar- Pakistan.
17. Certification of recognition for providing admirable services as a member of organizing committee of the one day workshop on "Data presentation and interpretation for effective publication" at Abdul Wali Khan University Mardan' on 20th March, 2018.
18. Participation in one day National workshop on "Data presentation and interpretation for effective publication" at Abdul Wali Khan University Mardan' on 20th March, 2018 organized by members of Journal editorial board of International Journal Agricultural and Environmental Research.
19. Two days national conference on "Climate Smart Agriculture and crop modeling" on 18-19 April 2018 at Department of Agronomy, The University of Agriculture Peshawar.
20. Four days national conference on "Agricultural problems & food security in the changing climate" on 14-17 November, 2018 at the University of Agriculture Peshawar.
21. Two days seminar on "Challenges in dry land agriculture in light of climate change and recommendations" and 2nd consultative meeting of SLM Network, on 11-12th December, 2019. Organized by Planning and Development Department Govt. of KPK SLMP-II and Climate change center, the University of Agriculture Peshawar.
22. Two days National conference on "Beneficial Microbes & sustainable crop production" Feb. 19-20, 2020 at the department of Agronomy, The University of Agriculture Peshawar in collaboration with American Society of Microbiology (ASM).
23. Two days conference on "Sustainable farming through intervention of agricultural mechanization and renewable energy technologies" on June 30 & July 01, 2021 at the Department of Agricultural Mechanization and Renewable Energy Technologies, the University of Agriculture Peshawar- Pakistan.

WORKSHOPS/TRAININGS IMPARTED AS RESOURCE PERSON

1. Delivered lectures in a 3 days' Workshop for officers, field assistants, field workers and farmers (January 25-27, 2010) on "Weed management in vegetables" at ATI Peshawar funded by Govt. of Khyber Pakhtunkhwa.
2. Delivered lectures in a HEC funded 3 days' Training Workshop on "Awareness, teaching and training on Weed management techniques for " farmers, faculty members, students, researchers and extension workers September 11-12, 2014 at the University of Agriculture Peshawar.
3. Delivered lectures on awareness about aquatic weed problems in National Workshop on "Awareness on weed management practices for better yield, funded by Pakistan Science Foundation, from December 30-31, 2015 at the University of Agriculture Peshawar.

CONFERENCES / WORKSHOPS/TRAININGS ORGANIZED

1. Organized 4-days national conference on "Agricultural problems and food security in the changing climate" on 14-17 November 2018, at the University of Agriculture, Peshawar Pakistan.
2. Organized one day National workshop on "Data presentation and interpretation for effective publication" at Abdul Wali Khan University Mardan' on 20th March, 2018 organized by members of Journal editorial board of International Journal Agricultural and Environmental Research.
3. Organized two days National workshop on "Developing research skills and data management" at Abdul Wali Khan University Mardan' on 04-05, March, 2019 under the auspices of the editorial board of International Journal of Agricultural and Environmental Research.
4. Organized two days International conference, 23-24 October, 2019, on 'Strategies for ensuring food security in the changing climate' at the University of Agriculture, Peshawar- Pakistan.
5. 16th National Weed Science Congress of Weed Science Society of Pakistan on "Vegetation Management and Agro - Biodiversity: Trends and Implications" was held on 8-10 July, 2021 in the University of Agriculture Peshawar.

Membership

1. Weed Science Society of Pakistan
2. Member of Program Team for preparing Self Assessment Report of the Department of Weed Science Agricultural University Peshawar.
3. Member Board of Studies in Department of Weed Science Agricultural University Peshawar

RESEARCH PROJECTS COMPLETED

1. **Starting Date and Duration:** June 2011 for three years duration.

Title: An approach to non-chemical and eco-friendly weed management in maize (*Zea mays* L.)

Agency/Organization: Higher Education commission of Pakistan.

Total Amount: Rs. 2.996066 millions

Designation: As Co-Principal Investigator.

2. **Starting Date and Duration:** June 2013 for three years duration.

Title: Management of aquatic weeds in various fresh water bodies of the irrigated plains of Khyber Pakhtunkhwa

Agency/Organization: Higher Education commission of Pakistan.

Total Amount: Rs. 3.256860 (million)

Designation: As Principal Investigator.

LIST OF PUBLICATIONS

Impact Factor Journals

1. **Bakhtiar Gul**, K. B. Marwat, G. Hassan, M. Azim Khan, S. Hashim and I.A. Khan. 2009. Impact of tillage, plant population and mulches on biological yield of maize. Pak. J. Botany. 41 (5): 2243-2249. (IF= 0.947)

2. **Bakhtiar Gul**, K.B. Marwat, M. Saeed and Z. Hussain. 2011. Impact of tillage, plant population and mulches on weed management and grain yield of maize. *Pak. J. Botany*. 43 (3): 1603-1606. (*Impact factor* = 0.947)
3. Saeed, M., M. Ashfaq and **Bakhtiar Gul**. 2011. Effect of different allelochemicals on germination and growth of horse purslane. *Pak. J. Botany*. 43 (4): 2113-2114. (*Impact factor* = 0.947).
4. Zahid Hussain, Khan Bahadar Marwat, **Bakhtiar Gul**, Muhammad Saeed and Shahida Bibi. 2012. Effect of common cocklebur density on biological yield of maize at varying populations. *Pak. J. Botany*. 44 (5): 1627-1632.
5. Haidar Ali, Habib Ahmad, K.B. Marwat, M. Yousaf, **Bakhtiar Gul** and Ikramullah Khan. 2012. Trade potential and conservation issues of medicinal plants in district Swat, Pakistan. *Pak. J. Botany*. 44 (6): 1905-1912.
6. Muhammad Saeed, Khan Bahadar Marwat, **Bakhtiar Gul** and Zahid Hussain. 2012. Effect of weed density on leaf area index and biological yield of maize. *Pak. J. Botany*. 44 (6): 1939-1942.
7. **Bakhtiar Gul**, Khan Bahadar Marwat, Muhammad Azim Khan and Haroon Khan. 2014. Impact of tillage, plant population and mulches on the phenological characters of maize. *Pak. J. Botany*. 46 (2): 549-554.
8. Khan, M. A., K. B. Marwat, **Bakhtiar Gul**, F. Wahid, H. Khan & S. Hashim. 2014. *Pistia Stratiotes* L. (Araceae): phytochemistry, use in medicines, phytoremediation, biogas and management options. *Pak. J. Bot*, 46(3): 851-860.
9. Haroon Khan, Adil, **Bakhtiar Gul**, Khalid Nawab and Muhammad Azim Khan. 2015. Efficacy of aqueous extracts of different allelopathic plants on germination and growth of wheat and wild oat. *Pak J. Bot.* 47(SI): 181-185.
10. Khan, M. A., F. Wahid, Umme-Kulsoom, K. B. Marwat, **Bakhtiar Gul** et al., 2015. Evaluating the threshold levels of *Neslia apiculata* in wheat and its effects on crop yield losses in Swat Valley of Khyber Pakhtunkhwa. *Pak. J. Bot.*, 47(SI): 87-91.
11. Khan, M. I, Khan, I., KHAN, N., **Gul, B.**, Khan, R., Hashmatullah, Ahmad, I., Khan, I. A., Iqbal, M. and Bibi, H. 2016. Varietal response of maize (*Zea mays* L.) against weeds aqueous extracts. *Applied Ecol. Envir. Res.* 14(4): 569-576.
12. **Bakhtiar Gul**, Maryam Saeed, Haroon Khan, Hamayoon Khan, Muhammad Ishfaq Khan and Imtiaz Khan. 2017. Impact of water hyacinth and water lettuce aqueous extracts on growth and germination of wheat and its associated troublesome weeds. *Applied Ecol. Envir. Res.* 15(3): 939-950.
13. **Bakhtiar Gul**, Afaq Khan and Haroon Khan. 2018. Management of cattails in standing water of District Swabi, KPK- Pakistan. *J. Aquat. Plant Manag.* 56: 31–34.
14. Khan, I., MI Khan, Hashmatullah, M. Haroon and **Bakhtiar Gul**. 2018. Assessment of integrated weed management approaches on *Asphodelus tenuifolius* in chickpea. *Planta Daninha*. 36:1-10.
15. **BAKHTIAR Gul**, Ijaz, S. and Khan, H. 2019. Allelopathic Effect of Lotus and Arrowhead Weed on Wheat, Wild Oat and Milkthistle Germination. *Planta Daninha*, 37:1-7 e019184290.
16. Muhammad Azim Khan, Shaheen Kashmir, Hafiz Haider Ali, **Bakhtiar Gul**, Ali Raza, Umm-E-Kulsoom, Omer Suha Uslu And Hasnain Waheed. 2019. Environmental factors can affect the germination and growth of *Parthenium hysterophorus* and *Rumex crispus*. *Pak. J. Bot.*, 51(6): 1-8, DOI: [http://dx.doi.org/10.30848/PJB2019-6\(7\)](http://dx.doi.org/10.30848/PJB2019-6(7))

HEC RECOGNIZED JOURNALS

1. Marwat, K. B., **Bakhtiar Gul**, I. A. Khan and Z. Hussain. 2003. Efficacy of different herbicides for controlling weeds in onion. *Pak. J. Weed Sci. Res.* 9(3-4): 225-228.
1. Marwat, K. B., Z. Hussain, I. A. Khan and **Bakhtiar Gul**. 2003. Impact of weed management on rapeseed. *Pak. J. Weed Sci. Res.* 9 (3-4): 209-214.
3. Marwat, K.B., M. Saeed, Z. Hussain, and **Bakhtiar Gul**. 2005. Chemical weed management in wheat in rainfed areas-I. *Pak. J. Weed Sci. Res.* 11(1-2): 31-36.
4. Marwat, K. B., **Bakhtiar Gul**, M. Saeed and Z. Hussain. 2005. Efficacy of different herbicides for controlling weeds in onion in higher altitudes. *Pak. J. Weed Sci. Res.* 11(1-2): 61-68.
5. Marwat, K.B., Z. Hussain, M. Saeed, **B.Gul** and Sahib Noor. 2005. Chemical weed management in wheat at higher altitudes-I. *Pak. J. Weed Sci. Res.* 11(3-4): 103-108.
6. Marwat, K.B., M. Saeed, **Bakhtiar Gul**, Z. Hussain and N. I. Khan. 2005. Efficacy of different herbicides for weed management in canola in higher altitudes. *Pak. J. Weed Sci. Res.* 11(3-4): 165-170.
7. Marwat, K.B., Z. Hussain, **Bakhtiar Gul** and M. Saeed. 2006. Chemical weed management in wheat Intercropped with sugarcane. *Pak. J. Weed Sci. Res.* 12(3): 145-150.
8. Marwat, K.B., M. Saeed, **B. Gul** and Z. Hussain. 2006. Performance of different herbicides in wheat (*Triticum aestivum* L.) under rainfed conditions of Kohat, Pakistan. *Pak. J. Weed Sci. Res.* 12(3):163-168.
9. Marwat, K.B., Z. Hussain, **Bakhtiar Gul**, M. Saeed and S. Din. 2006. Survey on weed problems in wheat crop in District Mardan. *Pak. J. Weed Sci. Res.* 12(4): 353-358.

10. Khan, M. A., K. Nawab, Siraj-ud-Din, N. Hussain and **Bakhtiar Gul**. 2006. Allelopathic proclivities of tree leaf extracts on seed germination and growth of wheat and wild oats. *Pak. J. Weed Sci. Res.* 12 (4):265-269.
11. Hussain, Z., K.B. Marwat, M. Saeed, **Bakhtiar Gul** and M.R. Khalil. 2007. Survey on weed problems in wheat crop in District Chitral (A higher altitude area) of NWFP-Pakistan. *Pak. J. Weed Sci. Res.* 13(1-2): 121-127.
12. Marwat, K.B., Z. Hussain, M. Saeed, **Bakhtiar Gul** and Haroon-ur-Rashid. 2007. Study of different chemicals for weed management in two wheat varieties in Chitral. *Pak. J. Weed Sci. Res.* 13(3-4): 157-165.
13. Marwat, K.B., M. Saeed, Z. Hussain, **Bakhtiar Gul** and H. Rashid. 2008. Study of various herbicides for weed control in wheat under irrigated conditions. *Pak. J. Weed Sci. Res.*14(1-2): 1-8.
14. Saeed, M., K.B. Marwat, and **Bakhtiar Gul**. 2011. Occurrence of different weeds in Canola: A survey of farmers in District Swat- Pakistan. *Pak. J. Weed Sci. Res.*17(1): 25-31.
15. Zahid Hussain, Fazal Munsif, Syed Ishfaq Ali Shah, **Bakhtiar Gul**, Naeem Khan, Siraj ud Din Kakar and Akhlaq Ahmad. 2012. Assessment of weed problems in wheat crop of Peshawar Pakistan. *Pak. J. Weed Sci. Res.* 18(3): 357-366.
16. Muhammad Arsalan Khan, Haidar Ali and **Bakhtiar Gul**. 2012. Assessment of allelopathic effects of *Parthenium* and *Populus* leaf extracts on germination of some cereals, Brassica, Trifolium and cucurbits. Proceeding of the 1st National Conference on "Poverty alleviation through sustainable management of biodiversity" from Sep. 29-30, 2012, held at Bara Gali Summer Campus of Peshawar University and organized by Institute of Plant Sciences and Biodiversity, University of Swat. *Proc. 1st Nat. Conf.* Pp. 125-132.
17. **Bakhtiar Gul**, Ijaz Ali Khan, Zahid Hussain and Muhammad Saeed. 2013. Impact of soil solarization in combination with other weed control strategies on weed management in onion nurseries. *Pak. J. Weed Sci. Res.* 19(1): 101-108.
18. Ali, K. M. Arif, Z. Khan, M. Tariq, M. Waqas, **Bakhtiar Gul**, S. Bibi, Zia-ud-Din, M. Ali, B. Shafi and M. Adnan. 2013. Effect of cutting on productivity and associated weeds of canola. *Pak. J. Weed Sci. Res.*, 19(4): 393-401.
19. Fawad, M., **Bakhtiar Gul**, H. Khan and Z. Khan. 2013. Study and collection of hydrophytes of the District Swabi, Pakistan. *Pak. J. Weed Sci. Res.*, 19(4): 513-522.
20. Ali, K., **Bakhtiar Gul**, F. Hussain, H. Khan, M. Ali, S. Ali, S. Ali and K. Junaid. 2015. The study of algae: the non-vascular aquatic weeds from various fresh water bodies of Peshawar Pakistan. *Pak. J. Weed Sci. Res.* 21(1): 111-122.
21. Kashif, M., **Bakhtiar Gul**, H. Khan, S. Hidayat and M. Amin. 2015. Impact of soil moisture and soil depths on resprouting ability of Johnson grass (*Sorghum halepense* L.) rhizomes. *Pak. J. Weed Sci. Res.* 21(2): 327-334.
22. Fawad, M., H. Khan, **Bakhtiar Gul**, M.A. Khan and K.B. Marwat. 2015. Comparative effect of herbicidal and non-chemical control methods against water hyacinth. *Pak. J. Weed Sci. Res.* 21(4): 593- 605.
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RESEARCH INTERESTS

1. Aquatic weeds and their management
2. Plant taxonomy and plant Identification
3. Plant Biodiversity and conservation
4. Organic Farming
5. Weed Ecology in weed management
6. Organic wastes utilization for field crops
7. Weed Seed Identification and Biology
8. Integrated Weed Management
9. Medicinal plants and Ethnobotany

HOBBIES

1. Plant Collection and Identification
2. Ethnobotanical case studies
3. Teaching and applied research
4. Social ethics and religious studies
5. Travelling and Sports (Badminton)

REFERENCES:

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