CURRICULUM VITAE

DR. MUHAMMAD ISHFQ KHAN: PhD WeedScience-2009, [Tenured Associate Professor] Postdoc; The University of Edinburgh Scotland UK-2021				
Over 15 years post Phd Teaching and Research experience in the department of weed science & Botany, the university ofagriculture Peshawar-Pakistan				
1. <i>Associate Professor</i> (Tenured) (November 22, 2018 – November 21, 2022)				
2. Assistant Professor (TTS) (April 2010 –November 21, 2018)				
3. <i>Lecturer January</i> 2007-2010				
4. Research Associate (J an 2005 – Dec 2006), ALP Project, funded by Pakistan Agriculture Research Council,Islamabad-Pakistan				
Australia, UK, China, Saudi Arabia , Turkey , Vietnam , Thailand, Qatar, UAE, s Egypt, Indonesia, Mauritius, Sri Lanka, Nepal, Iran, Tunisia .				
24 - 05 - 1978				
1120-10314001-7				
PR4100014				
Pakistani				
English, Urdu, Pashto <u>, Arabic, (R, W, L, S)</u>				
mishfaq@aup.edu.pk				
Department of Weed Science & Botany, The University of Agriculture Peshawar, Peshawar-25130, Pakistan. Mobile WhatsApp: +92 3339167803				
Life member Weed Science Society of Pakistan (WSSP) Member Asian-Pacific Weed Science Society (APWSS) International Weed Science Society (IWSS)				
Agriculture, Biodiversity, Plant science, Weed management, Field crops, Weeds allelopathy, Exploration of bioactive compounds, Weeds ecology, Bioherbicides.				

	1. General secretary weed science society of Pakistan since 2022				
OTHER SERVICES	2. Sarhad Journal of Agriculture,				
OTHER SERVICES	3. Pak Journal of Weed Science Research,				
	4. Resident country coordinator for SAFE network (2016-2020).				
	5. Young Association of Pakistani Scientists.				
	6. Member National Academy of young Scientists/				
	7. Focal person for University Alumni association since 2013				
	8. Member of the department disciplinary committee				
	9. Seminar coordinator in the department of weed science UAP-Pakistan.				
EDITORSHIP	Managing editor Pakistan Journal of Weed Science Research (PJWSR) Member of				
	Editorial board of Journal of Research in weed science (Turkey)				
ACADEMIC QUALIFICATIONS	2021 Post doctorate (The University of Edinburgh Scotland UK)				
	2009 Ph.D. (Agriculture/Weed Science)The University of Peshawar-Pakistan and Charles Sturt University Australia)				
	2004 M.Sc. Hons. (Agriculture/WeedScience)The University of Peshawar-Pakistan				
	2002 B.Sc. Hons (Agriculture/Entomology)The University of Peshawar-Pakistan				
	1997 F.Sc Pre-Medical GHSS Serai Naurang, BISE Bannu, KPK, Pakistan				
	1996 Secondary School Certificate (Matriculation) GHSS Serai Naurang, BISE Bannu, KPK, Pakistan				

Post doctorate from Institute of Molecular Plant Science, the University of Edinburgh Scotland UK (2020-21)

6 Months Research Fellowship at EH grahm center for Agriculture Innovation at Charles Sturt University Wagga Wagga Australia (August 2007- January-2008). Faculty Development training course at the university of Agriculture Peshawar, sponsored by the Higher education commission of Pakistan (26/02/2007-27/03/2007).

2-day training course on "Climate Change and its Impact on Food Security" May19-20, 2010 at KPK Agricultural University Peshawar Pakistan.

2-day training workshop on GIS/RS, Jan 9-10 2013, organized by the Departmentof Environmental Sciences, University of Peshawar.

3 days training on Utilization of modern Agriculture Technologies in changing environmental perspective (21-23/07/2010)

7 Days training workshop for in-service teachers in botany at the university of Agriculture Peshawar Pakistan (09-14/08/2005)

3 days training course on weed management at Pakistan Academy for Rural development 19-21/12/2005.

3 days training workshop training of trainers in plant biodiversity at the department of botany university of Peshawar (23-25/11/2006)

7 days training course of biodiversity and weed sciences at the university of Agriculture Peshawar Pakistan (11-16/12/2006)

10.2 days talent research exchange programme sustainable research network at the university of Agriculture Peshawar Pakistan (10-11/11/2010)

11.3 days International training workshop on water shed management and land rehabilitation at Pakistan Academy of Sciences Islamabad (6-8/12/2010)

12.2 Weeks training course on incorporating technologies in education at the university of Agriculture Peshawar Pakistan sponsored by HEC (2-13/7/2012)

13.2 days training workshop on exploitation of plant oil direct use a biodiesel in the changing climate in Pakistan (19-20/06/2014).

14.3 days' workshop on Innovative technologies sustainable development in Agriculture at summer campus Bara Galli organized by UAP (19-22/08/2014).

15.3 days training course on ICT's effectiveness of for good governance at Pakistan academy of rural development (4-6/08/2015).

Organized two days workshop on weed interference, sprayer calibration, herbicides calculation and herbicides safety June 24-26, 2019.

Organized two days international conference of food security in the changing climate October 24-26, 2019.

PROFESSIONAL TRAINING

First International Weed science conference held at the University of Agriculture Peshawar-Pakistan (23-26/10/2003). Paper Presentations 2nd International Weed Science Conference 20-22 March 2006 held at Universityof INTERNATIONAL CONFERENCES Arid Agriculture, Rawalpindi. ATTENDED INSIDE THE COUNTRY 22nd Asian Pacific Weed Science Society (APWSS) Conference held in 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 18-20 April, 2011 at Department of Weed Science, KP Agricultural University Peshawar. First international conference on poverty alleviation through sustainable management of biodiversity at Bara galli summar campus Pakistan (6-8/9/2012). International Conference on "Climate Change: A Challenge for Agriculturists (May 28-30, 2012) at KP Agricultural University Peshawar. The 4th International Weed Science Conference at KPK Agricultural University Peshawar, Pakistan (September 6-8, 2012) First international Kashmir Science conference (20-21/09/2005) 17th Iranian Plant protection congress (University of Tehran Karai-**Iran**, 01-Paper Presentations 06/09/2006) 8th African Crop Science Society Conference Minia University **Egypt** (25-30/11/2007) 12th International Conference on diffuse pollution management **Thailand** (22-International conferences attended 30/8/2008) outside country 16th Asian Agriculture and First ISAT symposium "sufficiency Agriculture at KMITLBankok **Thailand** (25-27/08/2010) Wild flower/cut flower production technologies and herbal medicine training at Fujian **China** (15/04/2012-30/05/2012). 24th Asia Pacific Weed Science Society Conference Bandung-**Indonesia**(22-25/10/2013). First African Allelopathy Congress sousse **Tunisia** (06-09/02/2014). International Conference on advances in Agricultural and Biological Sciences

Holiday Inn hotel **Dubai** (14-19/10/2014).

Second International allelopathy Congress Sousse-**Tunisia** (16-19/11/2016).

Third International SAFE network conference Ho Chi Minh City-Vietnam (17-20/11/2015)

International conference on Advances in natural and biological sciences (ICAN's-2016) Antalya-Turkey (21-23/04/2016)

International Conference on emerging trend in Science and Technology Universityof

Mauritius (11-17/05/2017).

International E-Conference on Emerging Trends and Challenges in life Sciences,18-19 June,2020-Department of Botany, Dist Aurangabad, INDIA [Online]

International conference on Agriculture and Fisheries Colombo Sri Lanka (8-9/12/2017).

International conference on Biodiversity and bioprospecting **Kathmandu-Nepal,** organized by the department of plant resources June, 2022.

Two days international conference on recent trend in agriculture and bioscience, computer applications, environment and humanities (RTABCE2020) August 18-19, 2020 in Kashmir-India.[Online]

26.6 months online training on "management of Agriculture economy regulation of Agricultural production environment organized by Chinese government..[Online]
27.Attended Elsevier – HEC workshop in Journal indexing in Scopus January, 21, 2021..[Online]

CONFERENCES /WORKSHOPS ORGANIZED

Poster Competition on Wild Flowers (April 25, 2013) at Department of WeedScience, the University of Agriculture Peshawar.

First International Weed science conference (23-26/10/2003).

6th National Weed Science Conference (28-30/03/2005).

Second International Weed Science Conference (20-22/03/2006)

8th National Weed science conference (25-27/06/2007).

9th National Weed Science Conference 28-30/06/2009)

22nd Asia Pacific Weed science conference (8-12/2/2010)

4th International Weed Science Conference (6-8/09/2012)

Awareness, teaching and training on weed management techniques for farmers, faculty, students and researchers and extension workers across the province KP Pakistan held at the University of Agriculture Peshawar-Pakistan (11-12/10/2014). National workshop on awareness on weed management practices for better yield help at the university of Agriculture Peshawar Pakistan (30-31-12/2015). Developing a winning research proposal held at the university of Agriculture Peshawar Pakistan (26/12/2018).

Weed Interference, Sprayer Calibration, Herbicide Calculation and Herbicide Safety, Organized by Weed Science Society of Pakistan during June 24-25, 2019 Weed Interference, Sprayer Calibration, Herbicide Calculation and Herbicide Safety, Organized by Weed Science Society of Pakistan during June 24-25,2019 Integration of ICT in agriculture and applied Research, Organized by Colleagues,

The University of Agriculture Peshawar during 21st February 2019.

8th International and 15th National Weed Science Conference, organized by Weed Science Society of Pakistan, during March 02-03, 2020 at Abdul Wali Khan University Mardan-Pakistan

17th National Weed Science Congress, Punjab University Lahore (27-28 Oct 2022) Lahore-Pakistan in 2022.

Food security in wake of climate change, biodiversity, non-timber forest products and weeds, SBBU KP Pakistan August 9-12, 2023.

Food security through sustainable agriculture August 27-31, 2023 at Baragalli summer campus university of Peshawar Pakistan.

Workshop In the wake of climate change, biodiversity, non-timber forest and weeds at SBBU Sheringal KP Pakistan, August 09-11, 2023

9th International 18th National conference on Biodiversity and Medicial plants Arid Agriculture university Rawalpindi Pakistan December 14-16, 2023

COURSES TAUGHT	B.Sc. (Hons)						
Assistant Professor	WS-401: Introduction to Weed Science						
	WS-513: Weed Identification-II: (Kharif weeds)						
	WS-604: Weed Management in Fruits and VegetablesWS-505: Allelopathy in weed						
	management						
	WS-515: Introductory Agrostology						
	M.Sc. (Hons)						
	WS-702: Research Methods in Weed Science						
	MSc Botany						
	Bot-606: Environmental Biology						
	PhD						
	WS-708: Biodiversity in Ecosystem						
	WS-711: Perennial and parasitic weeds and their management						
HEC Approved Supervisor	Yes						
DISTINCTIONS/ AWARDS/ HONORS	1 St Position in the Department of Weed Science in MSc (Hons)						
	Awarded best paper oral presentation award at InternationalConference Universit						
	of Mauritius ST Loius 2017.						
	Awarded best researcher and best academician award by Bionan frontier						
	organization of India at International Conference University of Mauritius ST Loius						
	2017.						
EELLOWCHIDE	1. International Research Support Initiative Program (IRSIP) Fellowship by HEC to						
FELLOWSHIPS	Charles Sturt university Australia (August 2007-january-2008)						
Grants Received	Received 15 travel grants from HEC, PSF, ECOSAF, HUC, KIRKHOUSE TRUST,						
	IDB, International Allelopathy Society and USDA						

STUDENTS SUPERVISED

PHD

- 1. Adbullah (In progress 2024)
- 2. Dr. Abdul Majid Khan 2021)
- 3. Dr. Tamanna Bakht (completed in 2016)
- 4. Dr. Umm e Kulsoon (completed 2017)

MSc (Hons) Agriculture/M Phil BotanyMajor Supervision

- Mr. Muhammad Kashif (completed 2015)
- Mr. Inayat Ur Rehman M.Phil Botnay (Completed 2016)
- Mr. Muhammad Ibrahim (in progress)

Member major field in MSc (Hons) Theses

- MS Tamana Bakht (completed)
- Mr Sirajuddin (completed)
- Mr Muhammad Imran (completed)
- Mr Muhammad Ibrahim (completed)
- Mr Hidayat Ullah (completed)
- Mr. Ijaz Ahmad (completed)
- Mr Muhammad Kabir (completed)
- Ms Nadia Khan (completed)
- Mr Muhammad Tahir M.phil botany (Completed)
- Mr Muhammad Luqman (completed)
- Mr Ijaz Ahmad (completed)

UNDER GRADUATES B.SC. (HONS)

Major supervision

- Mr. Khalid Khan (2011 completed)
- Mr Shah Fahad (2012 completed)
- Mr Muhammad Wagas (2011 completed)
- Mr Ishaq Khan (2014 completed)
- MS Sundas Malik (2016 completed)

	Abdullah (2017 completed)					
	Written comprehensive					
EXAMINER OF PHD STUDENTS	MS Umme Kulsoom (2015)					
STODENTS	Mr.Zahoor Ahmad (2017)					
	Mr. Abdul Majid Khan (2017)					
	Oral Comprehensive					
	Mr. Abdul Majid Khan (2017)					
	Mr. Zahoor Ahmad (2017)					
AUTHOR OF MONOGRAPHS /	Book published as a main author on Biology and Management of Asphodelus					
	tenuifolius (2009) as a main author. Publishers (VDM verlog Germany)					
BOOK CHAPTERS	2. Book chapter published on Response of wild oat biotypes to different oat killer					
	andits impact on wheat; as a co-author in 2012. Publishers (Springer Link).					
	3. Implications of Mulching on Weed Management in Crops and Vegetable. Spring					
	nature. Published as corresponding author in 2022.					
	4. Improvement of plant production in the ear of climate change. Taylor and Francis					
	(CRC) Published as co-author in 2022.					
	1. Elected as a President of All Pakistan Tenure Track Faculty Association for the					
	session 2019-20.					
Community Services	2. Elected as a Joint Secretary of All Pakistan Tenure Track Faculty Association for the					
Community Services	session 2018-19.					
	3. Elected as a Joint Secretary/General Secretary for Agriculture University teacher					
	Association (AUTA) for the session 2018.					
	4. Elected as a Finance Secretary for Agriculture University teacher Association					
	(AUTA) for the session 2015.					
	5. Volunteer teaching at Agricultural university school and college for the session2019.					
	6. Currently working as a country coordinator for SAFE Network, elected in Vietnam					
	in a conference in 2015-2020.					

	7. General Secretary Agricultural University teachers association 2023.		
COMPUTER KNOWLED	Sigma Plot. Statistix, Office automation Programming, Windows (All types), Internet Statistical software's, Operating computer software's in applied research		
	Approved Research Projects		
RESEARCH PROJECTS	As Principal Investigator		
(Completed)	1. Title: Weeds Allelopathy		
	Project No. 20-2158/NRPU/R&D/HEC/12-4758		
	Total approved amount: Rs. 3.81millions PKR = (40,000 USD)		
	Funding Agency: Higher Education Commission PakistanProject start: August 2013		
	Current status: CompletedAs Co-Principal Investigator		
	Title: Weed seed bank studies in wheat and maize growing areas of KP for		
	sustainable weed management and soil fertility		
	Project No. 20-5142/NRPU/R&D/HEC/14 Total approved amount: Rs. 3.9417		
	millions		
	Funding Agency: Higher Education Commission PakistanCurrent status: Research		
	work completed		
	Title: Management studies of noxious weed (Asphodelus tenuifolius-Wildonion) in		
	chickpea growing areas of District Karak, Khyber Pakhtunkhwa, Pakistan		
	Grant No. PSF/NSLP/KP-UAP(932)		
	Total approved amount: Rs. 3.053 million Funding Agency: Pakistan Science		
	Foundation		
	Status: In progress		
	Publications		

Publications Over 71 Articles Published

Muhammad Ishfaq Khan, Rifat Ara Begum, Lenka Franková, Stephen C Fry. 2024. Allelochemical root-growth inhibitors in low-molecular-weight cress-seed exudate. Annals of Botany, 133(3): 447-458.

Imtiaz Khan, *Muhammad Ishfaq Khan*, Saima Hashim, Muhammad Fawad, Aftab Jamal Mahmoud F. Seleiman, Haroon Khan, Bakhtiar Gul, Zahid Hussain, Muhammad Farhan Saeed and Aurelio Scavo. 2023. Managing Weed–Crop Interactions Enhances Chickpea (*Cicer arietinum* L.) Chemical Components." Plants 12(17): 3073.

Muhammad Ather Nadeem, Bilal Ahmad Khan, Asim Riaz Chadar, Rizwan Maqbool, Ali Raza, Muhammad Mansoor Javaid, Athar Mahmood, *Muhammad Ishfaq Khan*, Masood Ahmad, and Muhammad Irfan. 2022. Weed control and sustainable rice production through rice intensification system and conventional practices of weed competition periods and age of transplanted seedlings." Semina: Ciências Agrárias 43(5): 2271-2292.

Bilal Ahmad Khan, Aneela Nijabat, *Muhammad Ishfaq Khan*, Imtiaz Khan, Saima Hashim, Muhammad Athar Nadeem, Muhammad Ikram. 2022. Implications of mulching on weed management in crops and vegetable. Mulching in Agroecosystems: Plants, Soil & Environment. Singapore: Springer Nature Singapore p. 199–213.

Begum N, Wang L, Ahmad H, Akhtar K, Roy R, *Muhammad Ishfaq Khan*, Zhao T. 2022. Co-inoculation of *arbuscular mycorrhizal* fungi and the plant growth-promoting rhizobacteria improve growth and photosynthesis in tobacco under drought stress by up-regulating antioxidant and mineral nutrition metabolism. Microb Ecol. 83:971–988, 2022.

ALHaithloul, Haifa Abdulaziz Sakit, *Muhammad Ishfaq Khan*, Arafa Musa, Mohammed M. Ghoneim, Ayshah Aysh ALrashidi, Imtiaz Khan, Ehab Azab, Adil A. Gobouri, Mahmoud R. Sofy, Mohamed El-Sherbiny, and Mona H. Soliman. 2022. Phytotoxic effects of *Acacia saligna* dry leachates on germination, seedling growth, photosynthetic performance, and gene expression of economically important crops." Peer J 10: 13623.

Razdan, Imtiaz Khan and *Muhammad Ishfaq Khan*. 2022. Impact of various organic and cultural practices on yield and weed management in okra (*Abelmoschus esculanta* L.). Pak. J. Weed Sci. Res., 28(1): 53-61.

Hamida Bibi, Mudassar Iqbal, Hassan Wahab, Mehmet Öztürk, Fei Ke, Zafar Iqbal, *Muhammad Ishfaq Khan* & Suliman Mohammed Alghanem. 2022. Green synthesis of multifunctional carbon coated copper oxide nanosheets and their photocatalytic and antibacterial activities. Scientific Reports11(1):10781. https://doi.org/10.1038/s41598-021-90207-5.

Abdul Majid Khan Dawar, Imtiaz Khan, *Muhammad Ishfaq Khan*, Zahid Hussain. 2021. Effect of tillage implements and weed management techniques on nutritive values of wheat grains Gesunde Pflanzen, 74: pp. 133-139.

Imtiaz Khan, Khalid Iqbal, Sadar Uddin Siddiqui and *Muhammad Ishfaq Khan*. 2021. Influence of Varieties, Irrigation and Weed Control Measures On Nutritional Status of Chickpea Grains. Gesunde Pflanzen 73, 367–373. https://doi.org/10.1007/s10343-021-00563-5.

Khan I, Kabir M, Khan *Muhammad Ishfaq Khan*, H, Hashim S, Khan M. A. 2021. Effect of sowing pattern and herbicides application on weed management in wheat crop. Pak J Weed Sci Resh 27(1):67–78.

Iqbal, K., S. U. Siddiqui, I. Khan, A. Ghafoor and *Muhammad Ishfaq Khan*. 2021. Chickpea varietal response to integrated weed management under different irrigation regimes. Acta Ecologica Sinica, 41(2), 164-169.

Muhammad, Asim, Ishaq Ahmad Mian, Dost Muhammad, Haroon Khan, Imtiaz Khan, *Muhammad Ishfaq Khan*, and Abdullah Jalal. 2020. Management of weeds through planting dates alteration and using selected maize cultivars under changing climate." Mitteilungen Klosterneuburg, 70(2): 108.

Begum N, Qin C, Ahanger MA, Raza S, *Muhammad Ishfaq Khan*, Ashraf M, Ahmed N and Zhang L. 2019. Role of Arbuscular Mycorrhizal Fungi in Plant Growth Regulation: Implications in Abiotic Stress Tolerance. Front. Plant Sci. 10:1068. doi: 10.3389/fpls.2019.01068.

Imtiaz Khan and *Muhammad Ishfaq Khan*. 2019. Integration of allelopathy and herbicide to control Asphodelus tenuifolius in chickpea crop. Acta Ecol. Sin., 39(3): 257-260. https://doi.org/10.1016/j.chnaes.2018.09.012 Long Yang, Hongjuan Huang, Muhammad Saeed, Zhaofeng Huang, Cuilan Jiang, Chaoxian Zhang,

Muhammad Ishfaq Khan, Imtiaz Khan and Shouhui Wei. 2019. Anatomical study of seed and fruit morphology of an invasive weed buffalobur (*Solanum rostratum* Dunal). Pak. J. Bot., 51(1): 241-246. DOI: 10.30848/PJB2019-1(12).

Imtiaz Khan, *Muhammad Ishfaq Khan*, H. Ullah, M. Haroon and Bakhtiar Gul. 2018. Assessment of integrated weed management approaches on *Asphodelus tenuifolius* in chickpea. Planta Daninha. Doi: 10.1590/S0100-83582018360100101.

Iqbal, M., R. Ullah, H. Bibi, Z. Iqbal, M. Numan, S.R. Awan, Z. Din, I. Khan and *Muhammad Ishfaq Khan*. 2018. Mycelial extract of Acremonium sp.: A potent target specific bio herbecide against Echinochloa crus-galli and Asphodelus tenuifolius. Fresenius Environ. Bull. 27: 1778-1785.

Bakhtiar Gul., Muhammad Saeed, Haron 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 Ecology & Environmental Research 15(3): 939-950 (2017).

Ijaz Ahmad, Imtiaz Khan, Shah Zareen, *Muhammad Ishfaq Khan*, Rahamdad Khan and Muhammad Haroon. 2017. Yield and yield attributes of tomato (*Lycopersicon esculentum* Mill) cultivars influenced by weed management techniques. Pak. J. Weed Sci. Res., 23(4): 431-438.

Imtiaz Khan, Muhammad Ashfaq Khan, *Muhammad Ishfaq Khan*, Muhammad Saeed, Zahid Hanif, Shah Masaud Khan and Murad Ali. 2016. Weed management in maize (*Zea mays* L.) through different control strategies. Pak. J. Weed Sci. Res., 22(1): 25-35.

Muhammad Ishfaq Khan. I., I. Khan, N. Khan, B. Gul, R. Khan, A. Hashmatullah, L. Ahmed, I. A. Khan, M. Iqbal, and H. Bibi. 2016. Varietal response of Maize (*Zea mays* L.) against weeds aqueous extracts." Applied Ecology and Environmental Research 14, (4): 569-576.

Zahid Hussain, Muhammad Ilyas, Ijaz Ahmad Khan, Imtiaz Khan, *Muhammad Ishfaq Khan*, Bushra Khan. 2016. Effect of sowing direction, plant spacing and weed control treatments on tomato yield and its weeds. Pakistan Journal of Weed Science Research, 22(1).

Muhammad Ishfaq Khan, Imtiaz Khan, Rahamdad Khan, Ijaz Ahmad and Hashmat Ullah. 2016. Response of wheat (*Triticum aestivum* L.) biotypes towards weeds allelopathy. J. Agric. Res., 54(1):35-41.

I. Ahmad and Hasmatullah *Muhammad Ishfaq Khan*, Imtiaz Khan, R. Khan. 2016. Response of wheat (Triticum eastivum L.) biotypes towards weeds allelopathy. Journal of Agriculture Research, 54(1): 35, 2016.

Muhammad Ishfaq Khan, H. Alim, M. Afaq, I. Khan, I. Munir, G. Mustafa, I. Ullah, M.N. Ahmad, M. Yasinzai. 2016. Effect of different concentrations of fluoride on growth and nutritional value of two elite genotypes of *Triticum aestivum*. Fluride, 50(2): 143.

Muhammad Tahir Khan, Imtiaz Khan, *Muhammad Ishfaq Khan*, Zahid Hussain, Shahida Ayub, Naeem Khan, Muhammad Shuaib, And Ijaz Ahmad Khan. 2016. Ethnobotanical study of wild flora in the remote areas of Nothern Pakistan." Wulfenia Journal (23) 10.

Imtiaz Khan, and M. I. Khan. 2015. Environment friendly (allelopathic extract) weed control techniques in wheat crop. 1307-1316.

Chaâbani, Ghaya, Jessica Tabart, Claire Kevers, Jacques Dommes, Muhammad Ishfaq Khan, Sonia Zaoui,

Lotfi Chebchoub, Mokhtar Lachaâl, and Najoua Karray-Bouraoui. 2015. Effects of 2, 4-dichlorophenoxyacetic acid combined to 6-Benzylaminopurine on callus induction, total phenolic and ascorbic acid production, and antioxidant activities in leaf tissue cultures of *Crataegus azarolus* L. var. aronia." Acta physiologiae plantarum (37): 1-9

Muhammad Ishfaq Khan, I., Khan, R., Ahmad, I., & Hashmatullah. 2015. Allelopathic effect of aqueous extract of four weed species on germination of some crops, The Philippine Journal of agricultural scientist. 98 (3): 328–332.

Imtiaz Khan, Zafar Ali, *Muhammad Ishfaq Khan*, Zahid Hussain, Shahida Bibi, Muhammad Waqas, Rahamdad Khan, Sohail Khan and Murad Ali. 2014. Allelopathic effects of some weeds on chickpea crop. Pak. J. Weed Sci. Res., 20(2): 207-211.

Nawab, K., A. Rab, I. Khan, *Muhammad Ishfaq Khan*, M. Idrees, A. Saljoqi, and M. A. Khan. 2013. Effect of irrigation regimes on chickpea varieties sown on different dates on irrigated fields of Karak, Khyber Pakhtunkhwa, Pakistan. 175-180.

Ijaz Ahmad Khan, *Muhammad Ishfaq Khan*, Imtiaz Khan, M. Imran, M. Idrees, and S. Bibi. 2013. Effect of different herbicides and plant extracts on yield and yield components of wheat (*Triticum aestivum* L.)." Pakistan Journal of Botany (45)3: 981-985.

Hidayatullah Hidayat, Gul Hassan, Imtiaz Khan, *Muhammad Ishfaq Khan* and Ijaz Ahmad Khan. 2013. Effect of different mulches and herbicides on potato and associated weeds. Pak. J. Weed Sci. Res., 19(2): 191-200.

Muhammad Ishfaq Khan and Muhammad Kabir. 2013. Allelopathic effects of different weeds on the seeds

germination of wheat and chickpea. Proc. 24th Pacific weed science society conference, Indonetia.

Muhammad Ibrahim, Mohammad Gul Hassan, *Muhammad Ishfaq Khan*, Imtiaz khan, Ijaz Ahmad Khan and Shahida Bibi. 2012. The impact of chemical and non-chemical weed control methods on weeds dynamics and on the yield of onion (Allium cepa L.). Pakistan Journal of Weed Science Research, 8(2): 255.

Muhammad Waqas, *Muhammad Ishfaq Khan*, Imtiaz Khan, Rahamdad Khan and A. M. Khan. 2012. Efficiency of weeds extracts through their priming effects on the seed germination of wheat and chickpea.21-30.

Muhammad Ishfaq Khan, Gul Hassan and Imtiaz Khan, Muhammad Saeed, A. A. Khakwani, M. Idrees and K. Nawab. 2011. Factors influencing seed germination of wild onion and chickpea cultivars. Pak. J. Bot., 43(6): 2787-2792.

Muhammad Ishfaq Khan and F. Shah. 2011. Effect of potassium nitrate and thiourea on seed germination of crops and weeds." African Crop Science Conference Proceedings, (10). pp. 461 - 463.

Khan I., Hassan G., *Muhammad Ishfaq Khan*., Gul M. 2011. Tolerance of Different Wild Oats Biotypes to Different Oat Killers and Their Impact on Wheat. Survival and Sustainability Part 1, p. 129-136.

Imtiaz Khan, Gul Hassan, *Muhammad Ishfaq Khan*, Naqib Ullah Khan and Khan Bahader Marwat. 2010. Agronomic and polymorphism study of wild oat (*Avena fatua* l.) Biotypes at DNA level. Pak. J. Bot., 42(3): 1841-1848.

Muhammad Ishfaq Khan, Gul Hassan and Imtiaz Khan. 2010. Herbicides and their doses effects on wild onion (Asphodelus tenuifolius Cav.) in chickpea." Pak. J. Weed Sci. Res. 16(3): 299-308.

Khlid Iqbal, Muhammad Sukaiman, Imtiaz Khan, Ijaz Ahmad Khan, *Muhammad Ishfaq Khan* and Zahid Hanif. 2010. The effect and cost benefit ratio of different weeding methods on the yield of chickpea under agroclimatic conditions of district Karak. Pak. J. Weed Sci. Res 16(4): 431-442.

Imtiaz, Khan, Hassan Gul, Munir Muhammad, and *Muhammad Ishfaq Khan*. 2009. Evaluation of wild oats biotypes against different oat killers in wheat crop." Herbologia 10(1): 59-70.

Bakht, Tamana, I. Ahmad Khan, *Muhammad Ishfaq Khan*, Imtiaz Khan, and A. Mateen Khattak. 2009. Weed control in pea (Pisum sativum L.) through mulching." Pak. J. Weed Sci. Res 15(1): 83-89.

Zahid Hanif, Zahoor Ahmad Swati, Imtiaz Khan, Gul Hassan, Khan Bahader Marwat, Sabz Ali and *Muhammad Ishfaq Khan*. 2008. RAPD and SSR analysis of wild oats (Avena species) from North West frontier Province of Pakistan. African Journal of Plant Science, 2(11): 133-139.

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Professional Contacts/References

Name of Referee	Designation	Affiliation/Address	Contact Number	Email ID
Prof. Dr. Gul Hassan	Supervisor [Professor]	Chairman Department Environmental Science Shaheed Benazir Bhutto Uni Shringal, Dir (Upper) hyb Pakhtunkhwa, Pakista naging Editor, Pakistan Jo Weed Science Researc	+923339181219	hassanpk_2000pk@yahoo.com gulhassan@aup.edu.pk
Prof. Dr. Stephen S. Fry	My Postodc supervisor	Institute of Molecular Plant Science, the University of Edinbrugh Scotland UK	(+44) (0)131 650 5320	s.fry@ed.ac.uk
Prof. Dr. Muhammad Azim Khan		Department of Weed Science The University of AgriculturePeshawar Peshawar 25130 Pakistan	+923339107658	azim@aup.edu.pk
Dr. Imtiaz Khan	ociate Professor	Department of Weed Science The University of AgriculturePeshawar Peshawar 25130 Pakistan	+92 333 9245603	imtiazkhan@aup.edu.pk

15