

Main Points of CV



Name: Iftikhar Hussain Khalil

Current Position: Professor (TTS)
Department of Plant Breeding & Genetics,
The University of Agriculture, Peshawar, Pakistan

Education: M.S. & Ph.D.(USA)

Post-Doctorates: 2 (Uni. of Sydney, Australia & Uni. of Malaya, Malaysia)

Experience: 31-Year of Teaching and Research

Students Supervised: Ph.D: 35 (Major Supervisor 10 & Co-Supervisor 25)

M.Sc.(H)/M.Phil: 114 (Major Supervisor 35 & Co-Supervisor 79)

Research Publications: 135

- i. Impact Factor Journals : 48
- ii. HEC Recognized Journals: 87

Research Projects Undertaken: Two

Professional Accomplishments and Awards:

- i. HEC-Focal Person, Uni. of Agric., Peshawar, Aug. 2013 to Date.
- ii. Director of Research Farms, Uni. of Agric., Peshawar, Jul. 2014 to Jul. 2015.
- iii. Recipient of 'Research Productivity Award' for year 2011-12 & 2003-04 from Ministry of Science and Technology, Islamabad, Pakistan.
- iv. Organized National Seminar on 'Technological Interventions for Food & Environment Security'.
- v. Member of Board of Studies in Agronomy, Horticulture and Plant Protection
- vi. Subject Expert at the Khyber Pakhtunkhwa Public Service Commission, Pakistan
- vii. Secretary & Member of HEC National Curriculum Revision Committee on PBG.
- viii. Member of HEC National Curriculum Revision Committee on PBG.
- ix. 'Visiting Outstanding Researcher' at the Uni. of Tsukuba, Japan, Feb. 23-Mar. 28, 2014.
- x. Member of International Advisory Committee for 2nd(2014) and 3rd(2016) International Plant Breeding Conf. organized by Genetics Society of Malaysia.
- xi. Invited Speaker in 2nd International Plant Breeding Conf. 2014, Malaysia.
- xii. Training on "Standardization of stem rust note-taking and evaluation of germplasm" of CIMMYT at Kenya, Oct., 2015.
- xiii. Invited Speaker on 'Field Plot Techniques' in CIMMYT training course at Faisalabad, Pakistan (Mar-May, 2015).
- xiv. General Secretary of Ag. Uni. Teachers Assoc. during 2009-10 & 2010-11 and GS of Federation of All Pakistan Uni. Acad. Staff Assoc. (FAPUASA) during 2009-10.

- xv. Recipient of ‘Sitlington Scholar Award (1998-00)’, ‘Jerry Grant Graduate Award (1999-2000)’ & ‘Dale Weibel Graduate Award (1998-99)’, OSU, USA.
- xvi. Recipient of ‘Certificate of Achievement’ from USAID for highest TOEFL score in 1990.

PERSONAL INFORMATION:

Name: IFTIKHAR HUSSAIN KHALIL

Current Designation: Chairman/Professor (TTS)

Organization: Plant Breeding and Genetics Department
The University of Agriculture, Peshawar, Pakistan
(http://aup.edu.pk/tstaff_dept_details.php?s_id=39&d_id=7&f_id=2)
(https://scholar.google.com/citations?user=cM_2LSEAAAAJ&hl=en)
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Ph. Mobile: +92-300-5989260
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Email: drihkhil@gmail.com; drihkhil@aup.edu.pk

Date of Birth: February 01, 1965

Domicile: Peshawar, Khyber Pakhtunkhwa, Pakistan

EDUCATIONAL BACKGROUND:

I. Post-Doctorate

University: **University of Sydney, Australia.**
Year: 2016

II. Post-Doctorate

University: **University of Malaya, Malaysia**
Year: 2008-09

III. Ph.D. Crop Science

(As Research Associate at Oklahoma Agricultural Experiment Station Wheat Breeding Program/USDA, 1999-2001)

University: **Oklahoma State University, USA.**
Year: August 2001
CGPA: **3.87/4.0**
Dissertation Title: Genetic Improvement for Winter Wheat Yield and Quality Under Dual-purpose and Grain-only Management System.

IV. M.S. Plant Science

(Scholarship recipient from USAID for MS on basis of highest TOEFL score in 1990)

University: **Oklahoma State University, USA.**
Year: December 1993
CGPA: **3.95/4.0**

Thesis Title: Long-term Genetic Gains Derived from the Oklahoma Agricultural Experiment Station Wheat Breeding Program

V. M.Sc. (Hons). Plant Breeding & Genetics

University: **NWFP Agricultural University, Peshawar.**
Year: May 1988
Marks/Position: **767/900 (85%), Ist position in PBG Department**
Thesis Title: Environmental Influence on the Gamma Radiation Induced Genetic Parameters of Wheat in M₂.

VI. B.Sc. (Hons). Plant Breeding & Genetics

University: **NWFP Agricultural University, Peshawar.**
Year: June 1986
Marks/Position: **839/1050 (80%), Ist position in PBG Department**

VII. Diploma in 'Project Planning & Evaluation'

University: Dept. of Economics, Uni. of Peshawar, Pakistan
Year: 1996

PROFESSIONAL EXPERIENCE AND POSITIONS HELD:

31-Year Research and Teaching Experience

- i. Professor on Tenure Track System (TTS)
(Feb. 2013 to date)**
Plant Breeding & Genetics Department
The University of Agriculture, Peshawar, Pakistan
- ii. Professor on Basic Pay Scale (BPS)
(Jan. 2009 to Jan. 2013)**
Plant Breeding & Genetics Department
The University of Agriculture, Peshawar, Pakistan
- iii. Associate Professor
(Jan. 2005 to Jan. 2009)**
Plant Breeding & Genetics Department
The University of Agriculture, Peshawar, Pakistan
- iv. Lecturer
(Feb. 2003 to Dec. 2004)**
Plant Breeding & Genetics Department
The University of Agriculture, Peshawar, Pakistan
- v. Research Officer (Cereal/Sugar Crops)
(Mar. 1989 to Jan. 2003)**
Khyber Pakhtunkhwa Agric. Research System, Pakistan.

COURSES TAUGHT/BEING TAUGHT (at B.Sc., M.Sc. & Ph.D. degree levels):

Taught/am teaching two of the following courses each in Spring and Fall semesters of a year to students of B.Sc.(Hons), M.Sc.(Hons) and Ph.D. degrees program. Since 2004, I have also served as Incharge of graduate and post-graduate seminars at Plant Breeding & Genetics Department.

<u>Course No & Title</u>	<u>Degree program</u>
PBG704 (Advanced Methods in Plant Breeding)	Ph.D.
PBG713 (Biometrical Techniques in Plant Breeding)	MSc/(Hons)/Ph.D.
PBG798 (Post-graduate Seminar), Incharge	M.Sc.(Hons)
PBG613 (Experimentation in Plant Breeding)	B.Sc.(Hons)
PBG603 (Breeding Pulse, Sugar and Oilseed Crops)	B.Sc.(Hons)
PBG507 (Morphology and Reproductive Systems of Crop Plants)	B.Sc.(Hons)
PBG695 (Special Research Problem)	B.Sc.(Hons)
PBG699 (Graduate Seminar), Incharge	B.Sc.(Hons)

STUDENTS SUPERVISED:

I. Ph.D : 35 (Major Supervisor: 10 & Co-Supervisor: 25)

i. Major Academic Supervisor of Ph.D.: Completed 6 & In-progress 4

S.#	Ph.D. Thesis title	Student & Regis. No.	Degree & Notification No.	Year
1.	Combining ability and heritability in wheat under irrigated vs rainfed environments using line \times tester analysis	Muhammad Saeed (HEC sponsored) 2002-Agr-U-8594	Ph.D. PBG, Not. No.9856/Exams/S-I/(R), dtd. 21-2-17	2017
2.	Genetic divergence, traits association and selection indices in sugarcane	Muhammad Tahir (Self sponsored) 88-Agr-U-3276	Ph.D. PBG, Not. No.2424/Exams/S-I/(R), dtd. 15-5-15	2015
3.	Genetic analysis and heterotic studies for yield and protein quality parameters in maize	Ikramullah (HEC sponsored) 98-Agr-U-5731	Ph.D. PBG, Not. No. 1217-11 /Exams/S-I/(R), dtd. 16-9-2011	2011
4.	Genotype \times environment interaction,	Hidayat Ullah	Ph.D. PBG, Not.	2011

	heritability and selection response for morpho-physiological and yield traits in mungbean	(HEC sponsored) 98-Agr-U-5855	No. 1200-11 /Exams/S-I/(R), dtd. 19-7-2011	
5.	Stability analysis and genetic improvement in wheat under different environments.	Latafat Parveen (Self sponsored) 2000-Agr-U-6728	Ph.D. PBG, Not No. 958-10 /Exams/S-I/(R), dtd. 11-10-2010	2010
6.	Inheritance and gene action for yield and yield components in bread wheat under normal and late plantings.	Bashir Ahmad (Self sponsored) 81-Agr-U-26	Ph.D. PBG, Not No. 773-09 /Exams/S-I/(R), dtd. 24-12-2009	2009
7.	Combining ability, heterosis and heritability estimates in synthetically derived wheat populations under normal and late planting conditions.	Durr-e-Nayab (HEC sponsored)	Ph.D. PBG	Final thesis defense seminar held; Degree notification awaited.
8.	Genetic analysis for yield and quality parameters in sweet corn (<i>Z. mays Saccharata</i>)	Tahir Nadeem (HEC sponsored)	Ph.D. PBG	BASAR approved foreign evaluation reports. Thesis defense awaited.
9.	Combining ability, gene action and heterosis for seed yield, quality and Powdery Mildew in Pea (<i>Pisum sativum</i>)	Muhammad Ali (HEC sponsored)	Ph.D. PBG	Research completed; Thesis write-up in progress
10.	Stability analysis of winter wheat across unclipped and clipped treatments (tentative title)	Ata Ullah	Ph.D. PBG	Synopsis under process

ii. Co-Supervisor/Member Research Supervisory Committee of Ph.D.: 25

S.#	Ph.D. Thesis title	Student	Dept	Year
1.	Influence of Pre and Post-Harvest Calcium Treatments on Morphological, Phenological and Biochemical Attributes of Gladiolus	Masood Ahmad	Ph.D. Hort.	2019
2.	Stability analysis of rice recombinant inbred lines	Aziz ur Rahman	Ph.D. PBG	2019
3.	Stability analysis for production traits in bread wheat	Malak Atiq Ullah Khan	Ph.D. PBG	2018
4.	Prevalence, genetic diversity of the pathogen and management of Bacterial wilt of tomato	Muhammad Junaid	Ph.D. Plant Path.	2016
5.	Line x tester analysis for various parameters in bread wheat	Sheraz Ahmad	Ph.D. PBG	2016
6.	Genetic diversity in indigenous Buckwheat germplasm based on SSR.	Zakir Hussain	Ph.D. PBG	2016

7.	Effect of Nitrogen, Phosphorus and Zinc on maize hybrid and their carry over effect on Faba Bean	Imranuddin	Ph.D. Agronomy	2015
8.	Genetic analysis for desirable attributes in Popcorn	Muhammad Noor	Ph.D. PBG	2015
9.	Genetic analysis and genotype by environment studies in maize	Sardar Ali	Ph.D. PBG	2015
10.	Genetic analysis for morpho-yield and seed quality traits in Rapseed (<i>Brassica napus</i> L.).	Muhammad Ishaq	Ph.D. PBG	2015
11.	Optimizing wheat yield and quality by using various N,K levels and application methods.	Asad Ali Khan	Ph.D. Agronomy	2014
12.	Characterization of landraces of sweet corn and optimizing its yield through planting dates, plant density and nitrogen.	Zafar Hayat	Ph.D. Agronomy	2011
13.	Characterization and inheritance studies of desirable attributes in tomato.	Rahmane Gul	Ph.D. PBG	2011
14.	Response of two maize populations to S1 line recurrent selection for grain yield and Southern Corn Leaf Blight resistance	Durri Shehwar	Ph.D. PBG	2010
15.	Genetic and morphological analysis of nodulations in chickpea (<i>Cicer arietinum</i> L.)	Rozina Gul	Ph.D. PBG	2010
16.	Molecular mechanism of methionine differentiation in high and low methionine maize lines	Muhammad Ali	Ph.D. B&GE	2010
17.	Effect of osmopriming sources and moisture stress on wheat	Roohul Amin	Ph.D. Agronomy	2010
18.	Genetic analysis of maturity and yield attributes in subtropical maize	Muhammad Iqbal	Ph.D. PBG	2009
19.	Morphological, molecular and resistance (Bacterial blight and Leaf folder) characterization of wild species of rice and F ₁ hybrids	Syed Mehar Ali Shah	Ph.D. PBG	2008
20.	Effect of planting dates and storage on yield and quality of indigenous land races and improved varieties of soybean	Muhammad Asim	PhD Agronomy	2008
21.	Enhancing wheat productivity through micro watershed, organic and inorganic fertilizers under rainfed condition.	Saad-ur-Rahman	PhD Agronomy	2007
22.	Comparison of recurrent and mass selection for improving maize population for dual-purpose.	Sardar Ali	Ph.D. PBG	2006
23.	Recurrent selection for Maydis Leaf Blight resistance and grain yield improvement in maize.	Syed Salim Shah	Ph.D. PBG	2006
24.	Stability and G x E studies for important traits in wheat	Fakhar-ud-Din	Ph.D. PBG	Synopsis approved
25.	Line by tester analysis in bread wheat using F1	Sana Saeed	Ph.D.	Synopsis

	and F2 populations		PBG	s approve d
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II. M.Sc.(Hons)/M.Phil: 114
(Major Supervisor: 35 & Co-Supervisor: 79)

i. Major Supervisor of M.Sc.(Hons): 35

S.#	M.Sc. (Hons)/M.Phil. Thesis title	Student	Degree	Year
1.	Heritability, selection response and correlation among traits of mungbean under two planting environments	Sadia Mukhtair	M.Sc.(H) PBG	2019
2.	Association between stress tolerance indices and yield components in Durum wheat (<i>Triticum turgidum</i> ssp. Durum L.)	Saima Sher Ghani	M.Sc.(H) PBG	2019
3.	Genotype \times location interaction and traits association in winter wheat	Naeem Ahmad	M.Sc.(H) PBG	2019
4.	Impact of forage clipping on yield component traits and heritability in facultative winter wheat	Maria Jan	M.Sc.(H) PBG	2019
5.	Selection response for yield traits in wheat under two environments	Saddam Hussain	M.Sc.(H) PBG	2018
6.	Genetic advance and traits association in normal vs late planted wheat	Attaullah	M.Sc.(H) PBG	2018
7.	Heritability and selection response in wheat under two test environments.	Abaidullah	M.Sc.(H) PBG	2018
8.	Genetic parameters and yield assessment of wheat genotypes under fertilizer and no-fertilizer conditions	Jawad Ulah Khan	M.Sc.(H) PBG	2017
9.	Genetic improvement in yield and associated traits of wheat cultivars in Khyber Pakhtunkhwa	Ijaz Ahmad	M.Sc.(H) PBG	2016
10.	Genetic variability and traits association in bead wheat	Junaid Rafiq	M.Sc.(H) PBG	2015
11.	Heritability and election response for grain yield and associated traits in F3 wheat populations	Tariq Aziz	M.Sc.(H) PBG	2015
12.	Broad-sense heritability and expected selection response for grain yield and related traits in F3 segregating spring wheat populations	Fawad Ali	M.Sc.(H) PBG	2015
13.	Genotype \times location effects, heritability and selection response for maturity and yield traits in wheat under rainfed conditions	Shoaib Khan	M.Sc.(H) PBG	2014
14.	Heritability and traits association in mungbean at two locations	Alia	M.Sc.(H) PBG	2013
15.	Genetic variability, heritability and phenotypic correlation in wheat under Nitrogen and No-Nitrogen conditions	Sadia Shoukat	M.Sc.(H) PBG	2013

16.	Heritability and selection response for morphological and yield traits in normal and late planted wheat	Aziz-ul-Wahab	M.Sc.(H) PBG	2013
17.	Genotype x year interaction and its implications on heritability and association of traits in mungbean genotypes.	Muhammad Amir	M.Sc.(H) PBG	2012
18.	Identification of superior wheat genotypes under irrigated and rainfed conditions using stress selection indices.	Hizar Subthain	M.Sc.(H) PBG	2012
19.	Heritability for leaf and quality characteristics in Tobacco.	Muhammad Abbas	M.Sc.(H) PBG	2012
20.	Stress selection indices and heritability of yield contributing traits of wheat under irrigated and rainfed production systems	Ihteramullah	M.Sc.(H) PBG	2011
21.	Environmental influence on heritability and selection response of yield contributing traits in wheat.	Muhammad Sajjad	M.Sc.(H) PBG	2011
22.	Relationship of stress selection indices with yield related traits in Normal and Late planted Wheat.	Tahir Nadeem	M.Sc.(H) PBG	2010
23.	Heritability and genetic association of yield and its components in winter wheat under two environments	Muhammad Saeed	M.Sc.(H) PBG	2008
24.	Heritability and selection response for yield traits in winter wheat under unclipped and clipped treatments at two locations in NWFP.	Nazia	M.Sc.(H) PBG	2008
25.	Genetic correlation among yield contributing traits in wheat under two environments	Farhan Ullah Khan	M.Sc.(H) PBG	2008
26.	Genetic variability and correlation for yield components and oil content in Upland cotton	Aisha Parveen	M.Sc.(H) PBG	2008
27.	Genetic parameter estimates for yield traits in wheat (<i>Triticum aestivum</i> L.) as influenced by normal and late sowing.	Mohd Abbas Khan	M.Sc.(H) PBG	2007
28.	Heritability and selection response for yield traits in wheat under irrigated and rainfed environments	Tabinda Ghaffar Mir	M.Sc.(H) PBG	2006
29.	Genetic variation for and correlation among yield traits in wheat under irrigated and rainfed environments	Amjad Ali	M.Sc.(H) PBG	2006
30.	Genetic gains for yield related traits in wheat under irrigated and rainfed environments	Nadia Afridi	M.Sc. PBG	2006
31.	Selection response for yield and related traits in bread wheat	Imran Khan	M.Sc. PBG	2006
32.	Genetic variability in wheat for salt tolerance under hydroponic and field conditions.	Ikramullah	M.Sc. PBG	2005
33.	Genetic variability for yield and quality parameter of exotic sugar beet genotypes over environments	Saifullah Khan	M.Sc. PBG	2005

34.	Genetic variability for yield and quality traits in sugar beet	Shah Minhas	M.Sc. PBG	2004
35.	Heterosis and combining ability of flue cured Virginia tobacco hybrids for yield related traits.	Aamir Shams	M.Sc. PBG	2004

ii. Co-Supervisor/Member Res. Sup. Committee of M.Sc.(Hons)/M.Phil: 79

S.#	M.Sc. (Hons)/M.Phil. Thesis title	Student	Degree	Year
1.	Genetic variability and heritability studies in F ₈ populations of upland cotton	Hammad Ud Din	M.Sc.(H) PBG	2020
2.	Evaluation of winter wheat genotypes for yield and yield related traits across locations	Bashrat Hussain	M.Sc.(H) PBG	2020
3.	Genotype by environment interaction for yield and resistance to pod borer in chickpea	Adnan Ahmad	M.Sc.(H) PBG	2020
4.	Genetic parameters in wheat under different planting and moisture environments	Arbab Sarfaraz	M.Sc.(H) PBG	2020
5.	Genetic divergence among various wheat genotypes under stress selection indices	Iqra Tahir	M.Sc.(H) PBG	2020
6.	Estimates of genetic parameters for some production traits in wheat under two environments	Shuja-ur-Rehman	M.Sc.(H) PBG	2020
7.	Genetic variability, heritability and genetic advance in soybean land races of Pakistan	Syed Shah Huzaifa	M.Sc.(H) PBG	2020
8.	Study of introgression in F ₈ populations of Brassica species.	Nadia Khan	M.Sc.(H) PBG	2019
9.	Influence of Maleic Hydrazide and its time of foliar application on growth and production of local Dahlia.	Sumbal Ayaz	M.Sc.(H) Hort.	2019
10.	Effect of different levels of Nitrogen and Phosphorus on yield and yield components of exotic oat varieties	Suleman Hameed	M.Sc.(H) SES.	2019
11.	Genetic variability in rice genotypes using gamma irradiation	Farhan Ahmad Shah	M.Sc.(H) PBG	2019
12.	Genetic diversity and correlation studies in segregating wheat populations	Omer Mumtaz	M.Sc.(H) PBG	2019
13.	Genetic variability for morpho-yield traits of wheat across different environments.	Syed Ali Zuhair	M.Sc.(H) PBG	2019
14.	Genetic divergence for production traits in segregating populations of bread wheat	M. Manzoor ul Haq	M.Sc.(H) PBG	2018
15.	Genotype by Environment interaction and stability studies for yield and resistance to yellow rust (<i>Puccinia striiformis</i> F. Sp. <i>Tritici</i>) in wheat	Imranullah Khan	M.Sc.(H) PBG	2018

16.	Genotype by Environment study for grain yield and incidence of Barley Yellow Dwarf Virus (BIDV) in wheat	Muhammad Jameel Khan	M.Sc.(H) PBG	2018
17.	Genetic variability and correlation studies for morphological traits in cucumber	Jawad Khan	M.Sc.(H) PBG	2018
18.	Genetic divergence among wheat genotypes across planting environments	Zeeshan Ahmad	M.Sc.(H) PBG	2018
19.	Heritability estimates for yield and related traits under different environments in wheat	M. Yousaf Malik	M.Sc.(H) PBG	2018
20.	Genetic divergence for production traits in segregating populations of bread wheat	M. Manzoor ul Haq	M.Sc.(H) PBG	2018
21.	Effect of different concentrations of Naphthalene Acetic Aid on rooting of various olive varieties	Saifullah	M.Sc.(H) Hort.	2017
22.	Cloning and analysis of rice (<i>Oryza sativa</i>) H ⁺ -Pyrophosphatase 1 (<i>O_sOVPI</i>) gene responsive to salt stress	S. Usman Ali Shah	M.Phil. Biotech	2017
23.	Genotype × environment interaction and correlation studies in bread wheat genotypes	Hayat Mustafa	M.Sc.(H) PBG	2017
24.	Genetic analysis in white maize using 6×6 diallel mating design	Nazir Ahmad	M.Sc.(H) PBG	2015
25.	Heritability of morphological and biochemical traits in F ₂ populations of <i>Brassica carinata</i> L.	Muhammad Nauman	M.Sc.(H) PBG	2015
26.	Evaluation of yellow maize inbred lines for grain yield and related traits using line × tester analysis	Syed Farman Ullah	M.Sc.(H) PBG	2015
27.	Heritability and selection response for yield and yield associated traits in rice.	Mujahid Ali	M.Sc.(H) PBG	2015
28.	Pathogenicity of <i>Puccinia striiformis</i> Westend. f. sp. <i>tritici</i> to the field crown yellow rust differentials and candidate wheat varieties	Ahmad Ali	M.Sc.(H) Plant Pathology	2015
29.	Genetic variability, heritability and correlation in F ₄ populations of <i>Brassica napus</i> L.	Tahir Khan	M.Sc.(H) PBG	2015
30.	Heritability estimates for important traits of <i>Brassica napus</i> under irrigated and rainfed conditions.	Sehrish Javaid	M.Sc.(H) PBG	2015
31.	Response of various isolates of <i>Alternaria porri</i> L. to different fungicides and its effect on onion seed production.	Afaq Ahmad	M.Sc.(H) Plant Pathology	2015
32.	Heritability, genetic advance and correlation for various traits in F ₂ wheat populations.	Beena Imran	M.Sc.(H) PBG	2014
33.	Genetic variability and G×E interaction in bread wheat (<i>Triticum aestivum</i> L.) segregating populations.	Muhammad Hamayun	M.Sc.(H) PBG	2014
34.	Introgression in F ₃ heterospecific crosses of Brassica	Nadia Khan	M.Sc.(H) PBG	2014
35.	Genotype by environment interaction for morpho-yield traits in upland cotton.	Samrin Gul	M.Sc.(H) PBG	2013
36.	Genotype × environment interaction and	Abid Ali	M.Sc.(H)	2013

	heritability estimates in oats (<i>Avena sativa</i> L.)		PBG	
37.	Correlation and heritability estimates in mungbean	Zaheer Abbas	M.Sc.(H) PBG	2012
38.	Test cross performance of S ₂ lines for yield and yield related attributes in maize variety Azam.	Irfan Ahmad Shah	M.Sc.(H) PBG	2011
39.	Genetic improvement in Khyber Pakhtunkhwa wheat since release of cultivar Mexi-Pak in 1965.	Naheed Noor	M.Sc.(H) PBG	2011
40.	Heterotic effects for yield and yield associated traits in bread wheat.	Wahida Sandal	M.Sc.(H) PBG	2011
41.	Heritability estimates in F ₂ populations for various traits in bread wheat	Abdul Sattar	M.Sc.(H) PBG	2011
42.	Genetic diversity among rice genotypes for qualitative and quantitative parameters	Nazma Naeem	M.Sc.(H) PBG	2010
43.	Morpho-physiological and biochemical characterization of double haploid Brassica napus L.	Mahwish Ajmal Paracha	M.Sc.(H) PBG	2010
44.	Heritability and correlation for morpho-chemical traits in double haploids of Brassica napus L.	Durr-e-Nayab	M.Sc.(H) PBG	2010
45.	Effect of fertilizers on Phytophthora Crown and Root Rot of squash under natural field conditions	Haseena Naz	M.Sc.(H) Plant Path	2009
46.	Performance and evaluation of test cross progenies derived from maize variety Azam	Iffat Nawaz	M.Sc.(H) PBG	2008
47.	Evaluation of maize S ₁ lines for yield and agronomic traits based on testcross progeny performance	Mareeya Munir	M.Sc.(H) PBG	2008
48.	Genetic improvement for Maydis Leaf Blight resistance using S ₁ recurrent selection in maize variety Sarhad White	Farhan Ali	M.Sc.(H) PBG	2008
49.	Characterization of different wheat (<i>T. aestivum</i> L.) cultivars for high molecular weight gluten subunits using SDS-PAGE analysis.	Shaista Zeb	M.Phil. Biotech	2008
50.	Effect of Zinc Levels on the Yield and Yield Components of Corn Hybrids	Abdur Rehman	M.Sc.(H) Agron	2007
51.	Comparative performance of backcrossed and F ₁ generations in Brassica species	Mohd Yasir Khan	M.Sc.(H) PBG	2007
52.	Magnitude of variability for yield and morphological parameters in maize hybrids	S. Majid Rasheed	M.Sc.(H) PBG	2007
53.	Temperature dependent development for immature stages of the predatory ladybird beetle, <i>Stethorus pauperculus</i> Weise.	Aftab Hussain	M.Sc.(H) Plant Protection	2007
54.	Inheritance pattern of genes controlling morphological markers in Brassica	Khalid Khan	M.Sc.(H) PBG	2007
55.	Response of maize variety Azam to S ₁ line recurrent selection for grain yield under	Ibni Amin Khalil	M.Sc.(H) PBG	2007

	maydis leaf blight stress environment			
56.	Development of RAPD based molecular markers for high grain protein gene in wheat.	Sardar Bacha	M.Phil. Biotech	2007
57.	Study on genetic diversity at DNA level in Pakistani wheat varieties using simple sequence repeat (SSR) primer sets.	Bahadar Zeb	M.Phil. Biotech	2007
58.	An evaluation of callus induction and osmotic stress resistance in rice cultivars	S.M. Usman Shah	M.Phil. Biotech	2007
59.	Genetic variability for fodder yield and morphological parameters in Pearl Millet.	M. Fawad Qaiser	M.Sc.(H) PBG	2006
60.	Genetic variability and heritability for yield and quality characteristics in F _{3:4} populations of <i>Brassica</i>	Sajid Khan	M.Sc.(H) PBG	2006
61.	Stability analysis of maize hybrids across different locations of NWFP	Fatima Iftikhar	M.Sc.(H) PBG	2006
62.	Genetic diversity among advanced wheat lines selected for agronomically important traits	Arifa Farooqi	M.Phil Biotech	2006
63.	Development of molecular markers for rust resistant genes incorporated into wheat from <i>T. speltoids</i> and <i>T. verticosum</i>	Humera Ihsan	M.Phil Biotech	2006
64.	Molecular characterization of advanced generation wheat lines resistant to leaf and stripe rust.	Aisha Naz	M.Phil Biotech	2006
65.	Genetic variability for Phytic acid and yield associated parameters in bread wheat and triticale.	Humera Gul	M.Sc.(H) PBG	2005
66.	Cytomorphological characterization of tea cultivars	Zareen Taj Khanzada	M.Sc.(H) PBG	2005
67.	Multiple traits selection in a maize population derived from maize variety Dehqan	Noor Islam	M.Sc.(H) PBG	2005
68.	Effect of organic and inorganic fertilizer on nutrient contents and some properties of eroded land using maize as a test crop.	Shiasta Noreen	M.Sc.(H) Soil Science	2005
69.	Management of brackish tubewell water for wheat production	Baseer Muhammad	M.Sc.(H) Soil Sci	2005
70.	Screening different sugarcane genotypes for ratooning ability.	Zahid Iqbal	M.Sc.(H) PBG	2005
71.	Evaluation and screening of F ₁ maize hybrids under across environments	Iltafullah	M.Sc.(H) PBG	2004
72.	Evaluation of hybrids in white maize.	Khalid N. Babar	M.Sc.(H) PBG	2004
73.	Development and characterization of elite local and exotic maize (<i>Zea mays</i> L.) inbred lines	Hidayat Ullah	M.Sc.(H) PBG	2004
74.	Heterosis for yield associated traits in sunflower (<i>Helianthus annuus</i> L)	Durrishaha wr	M.Sc.(H) PBG	2004
75.	General combining ability studies in yellow maize	Syed Aziz Anwar	M.Sc.(H) PBG	2004
76.	Evaluation of Diallel crosses in maize	M. Fahim Durrani	M.Sc.(H) PBG	2004

77.	Genetic divergence and association analysis for yield and its related traits in some Mash bean (<i>Vigna radiata</i> (L.) Hepper) genotypes	Muhammad Daud Khan	M.Sc.(H) PBG	2003
78.	Heterosis in spring wheat (<i>Triticum aestivum</i>)	Tariq Shehzad	M.Sc.(H) PBG	2003
79.	Inbreeding depression for yield and various genetic traits in S ₁ lines of maize (<i>Zea mays</i>)	Taj Ali Khan	M.Sc.(H) PBG	2003

III. Major Supervisor of B.Sc.(H) for Internship Research from 2014-2019: 14

S.No.	Internship Project Title	Student	Degree	Year
1.	Comparative genetic variability and correlation analysis in durum and bread wheat genotypes	Ayman Saeed	B.Sc.(H) PBG	2014
2.	Genetic variability and correlation analysis in wheat and triticale genotypes	Haleema Bibi	B.Sc.(H) PBG	2014
3.	Genetic variability and correlation analysis in barley and spring wheat genotypes	Umair	B.Sc.(H) PBG	2014
4.	Comparative Genetic variability and correlation analysis in Durum and Bread wheat genotypes.	Ajmal	B.Sc.(H) PBG	2015
5.	Heritability and correlation analysis in spring wheat genotypes.	Arshad Iqbal	B.Sc.(H) PBG	2015
6.	Comparative Genetic variability in Durum and Bread wheat genotypes	Ata Ullah	B.Sc.(H) PBG	2015
7.	Genetic variability and correlation among important traits of wheat genotypes	Wasif Ali	B.Sc.(H) PBG	2017
8.	Performance of Australian spring wheat genotypes under Peshawar conditions	Iqra Tahir	B.Sc.(H) PBG	2017
9.	Heritability and correlation among important traits of Australian wheat (<i>Triticum aestivum</i> L.)	Saira Khan	B.Sc.(H) PBG	2017
10.	Heritability estimates for yield component traits derived from 21 st IWWYT-IR	Abdul Wahid	B.Sc.(H) PBG	2018
11.	Heritability and selection response for morphological and yield traits of winter wheat at Kalam (Swat)	Tufail Ahmad	B.Sc.(H) PBG	2018
12.	Genetic variability for production traits of winter wheat at Miandam (Swat)	Aizaz Ali	B.Sc.(H) PBG	2018
13.	Heritability for yield related traits in Australian wheat	M. Nasir Iqbal	B.Sc.(H) PBG	2019
14.	Heritability and selection response for morpho-yield traits in winter wheat	M. Yousaf Afridi	B.Sc.(H) PBG	2019

RESEARCH PUBLICATIONS: 135

i. Impact Factor Journals: 48

iii. HEC Recognized Journals: 87

I. Publications in Impact Factor Journals: 48

S. No.	Author (s)	Journal Name, ISSN & IF	Title of Publication	Vol. & Page nos.	Year Published
1.	Iftikhar H. Khalil , B.F. Carver, & E.L. Smith	Plant Breeding. ISSN: 01799541. IF 2016: 2.84	Genetic gains in two selection phases of a wheat breeding program	114: 117- 120	1995
2.	B.F. Carver, Iftikhar Khalil , E.G. Krenzer, & C.T. MacKown	Euphytica ISSN: 0014-2336 IF 2016: 1.62	Breeding winter wheat for a dual-purpose management system	119: 231- 234	2001
3.	Iftikhar H. Khalil , B.F. Carver, E.G. Krenzer, C.T. Mackown, & G.W. Horn	Crop Science ISSN: 0011-183X IF 2016: 1.70	Genetic trends in winter wheat grain yield and test weight under dual-purpose and grain-only management systems.	42: 710- 715	2002
4.	Iftikhar H. Khalil , B.F. Carver, E.G. Krenzer, C.T. MacKown, G.W. Horn, & P. Rayas-Duarte	Crop Science ISSN: 0011-183X IF 2016: 1.70	Genetic trends in winter wheat grain quality with dual-purpose and grain-only management systems	42: 1112- 1116	2002
5.	S. Ahmad, M.S. Khan, M.S. Swati, G.S. Shah & Iftikhar H. Khalil	Songklanakarin J. of Science & Technology ISSN: 0125-3395 IF 2016: 0.31	A study on heterosis and inbreeding depression in sunflower (<i>Helianthus annuus</i> L.)	27(1): 1-8	2005
6.	A. Muhammad,	Pakistan Journal	Nutritional quality and	41(2):	2009

	S.K. Khalil, K.B. Marwat, A.Z. Khan, Iftikhar H. Khalil , Amanullah & S. Arifullah	of Botany. ISSN: 0556-3321 IF 2016: 0.69	production of soybean land races and improved varieties as affected by planting dates.	683-689	
7.	S. Ali, S.J.A. Shah, I.H. Khalil , H. Rahman, K. Maqbool & W. Ullah	Australian Journal of Crop Science. ISSN: 1835-2693 IF 2016: 1.02	Partial resistance to yellow rust in introduced winter wheat germplasm at the north of Pakistan	3(1): 37-43.	2009
8.	S. K. Khalil, J. G. Mexal, A. Rehman, A.Z. Khan, , S. Wahab, M. Zubair, Iftikhar H. Khali & F. Mohammad	Pakistan Journal of Botany. ISSN: 0556-3321 IF 2016: 0.69	Soybean mother plant exposure to temperature stress and its effect on germination under osmotic stress	42(1): 213-225	2010
9.	H. Rahman, Iftikhar H. Khalil , F.M. Abbasi, Z.T. Khanzada, S.M.A. Shah, Z. Shah, & H. Ahmad	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Cytomorphological characterization of tea cultivars	42(1): 485-495	2010
10.	S.K. Khalil, T. Mehmood, A. Rehman, S. Wahab, A.Z. Khan, M. Zubair & Iftikhar H. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Utilization of allelopathy and planting geometry for weed management and dry matter production of maize	42(2): 791-803	2010
11.	H. Rahman, Durreshawar, S. Ali, F. Iftikhar, Iftikhar H. Khalil & S.M.A. Shah	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Stability analysis of maize hybrids across north west of Pakistan	42(2): 1083-1091	2010

12.	R. Gul, H. Rahman, Iftikhar H. Khalil , S.M.A. Shah & A. Ghafoor	African Journal of Biotechnology ISSN: 1684-5315 IF 2016: 0.44	Heterosis for flower and fruit traits in tomato (<i>Lycopersicon esculentum</i> Mill.)	9(27): 4144-4151	2010
13.	Iftikhar H. Khalil , S.K. Khalil, B. Ahmad, S. Rahman & F. Subhan	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Genetic gains for grain yield in two selection phases of a wheat breeding program	42(3): 1595-1600	2010
14.	L. Parveen, Iftikhar H. Khalil , & S.K. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Stability parameters for tillers, grain weight and yield of wheat cultivars in North-West of Pakistan	42(3): 1613-1617	2010
15.	H. Rahman, Arifuddin, Z. Shah, S.M.A. Shah, M. Iqbal & Iftikhar H. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Evaluation of Maize S ₂ lines in test cross combinations 1: Flowering and morphological traits	42(3): 1619-1627	2010
16.	S.K. Khalil, S.Khan, A. Rehman, A.Z. Khan, Iftikhar H. Khalil , Amanullah, S.Wahab, F. Muhammad, S. Nigar, M. Zubair, S. Parveen. & A. Khan	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Seed priming and phosphorus application enhance phenology and dry matter production of wheat	42(3): 1849-1856	2010
17.	K. Usman, S.K. Khalil, A.Z. Khan, Iftikhar H. Khalil , M.Z. Khan & Amanullah	Soil & Tillage Research ISSN: 0167-1987 IF 2016: 3.47	Tillage and herbicides impact on weed control and wheat yield under rice-wheat cropping system in Northwestern Pakistan	110: 101-107	2010

18.	Iftikhar H. Khalil , B.F. Carver & S.K. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Genetic parameter estimation for agronomic traits in grain-only and forage-plus-grain winter wheat systems	42(4): 2839-2845	2010
19.	M. Iqbal, K. Khan, H. Rahman, Iftikhar H. Khalil , H. Sher & J. Bakht	Maydica ISSN: 0025-6153 IF 2016: 0.64	Heterosis for morphological traits in subtropical maize (<i>Zea mays</i> L.)	55: 41-48	2010
20.	S.K. Khalil, A. Wahab, A. Rehman, F. Muhammad, S. Wahab, A.Z. Khan, M. Zubair, Mir Kalan Shah, Iftikhar H. Khalil & R. Amin	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Density and planting date influence phenological development assimilate partitioning and dry matter production of Faba bean	42(6): 3831-3838	2010
21.	F. Mohammad, O.S. Abdalla, S. Rajaram, A. Yaljarouka, S. K. Khalil, N.U. Khan, Iftikhar H. Khalil & I. Ahmad	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Yield of synthetic-derived bread wheat under varying moisture regimes	42(6): 4103-4112	2010
22.	Rehman, S., S.K. Khalil, F. Muhammad, A. Rehman, A.Z. Khan, Amanullah, A.R. Saljoki, M. Zubair and Iftikhar H. Khalil .	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Phenology, leaf area index and grain yield of rainfed wheat influenced by organic and inorganic fertilizer.	42(5): 3671-3685	2010

23.	H. Ullah, Iftikhar H. Khalil , H. Rahman. F. Mohammad, I.A. Khalil, & S.K. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Environmental influence on heritability and selection response of morpho-physiological traits in mungbean	43(1): 301-310	2011
24.	S.K. Khalil, F. Khan, A. Rehman, F. Muhammad, Amanullah, A.Z. Khan, S. Wahab, S. Akhtar, M. Zubair, I.H. Khalil , M. K. Shah, & H. Khan	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Dual purpose wheat for forage and grain yield in response to cutting, seed rate and nitrogen	43(2): 937-947	2011
25.	F. Mohammad, O.S. Abdalla, S. Rajaram, A. Yaljarouka, N.U. Khan, A.Z. Khan, S. K. Khalil, , Iftikhar H. Khalil & I. Ahmad & S.A. Jadoon	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Additive main effect and multiplicative analysis of synthetic-derived bread wheat under varying moisture regimes	43(2): 1205-1210	2011
26.	Ikramullah, Iftikhar H. Khalil , H. Rahman, F. Mohammad, H. Ullah And S. K. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Magnitude of heritability and selection response for yield traits in wheat under two different environments.	43(5): 2359-2363	2011
27.	M. Khalid, Iftikhar H. Khalil , Farhatullah, A. Bari, M. Tahir, S. Ali, S. Anwar, A. Ali & M Ismail	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Assessment of heritability estimates for some yield traits in winter wheat (<i>Triticum aestivum</i>)	43(6): 2733-2736	2011

28.	R. Amin, A.Z. Khan, S.K. Khalil and Iftikhar H. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Effect of osmopriming sources and moisture stress on wheat	44(3): 867- 871	2012
29.	H. Ullah, Iftikhar H. Khalil , and D.A. Lightfoot.	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Selecting mungbean genotypes for fodder production on the basis of degree of indeterminacy and biomass.	44(2): 697- 703	2012
30.	H. Ullah, Iftikhar H. Khalil , Durrishahwar, Iltafullah, I.A. Khalil, M. Fayaz, J. Yan and F. Ali	Canadian J. Plant Science ISSN: 0008-4220 1918-1833 IF 2016: 0.69	Selecting high yielding and stable mungbean (<i>Vigna radiata</i> L. Wilezek) genotypes using GGE biplot.	92(5): 951- 960	2012
31.	H. Rahman, S. Shah, M. Shah, and Iftikhar H. Khalil	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Evaluation of S2 lines in test crosses combinations. II: Yield and yield components	44(1): 187- 192	2012
32.	H. Ullah, H. Subthain, Iftikhar H. Khalil , W.U. Khan, Y. Jamal, and M. Alam	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Stress selection indices an acceptable tool to screen superior wheat genotypes under irrigated and rain-fed conditions	46(2): 627- 638	2014
33.	N. Khan, Farhatullah, Iftikhar. H.	Pakistan Journal of Botany ISSN: 0556-3321	Heritability and genetic advance studies for biochemical traits in	47(3): 883- 888	2015

	Khalil, H. Naheed and S. Abid	IF 2016: 0.69	F2:3 introgressed families of Brassica		
34.	Aziz-ur-Rahman, S.M.A. Shah, H. Rahman, Iftikhar H. Khalil , M. Ismaeel, M.A. Raza and I.A. Khan	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Genetic variability for morphological parameter in F2 segregating populations of rice.	47(5): 1759- 1764.	2015
35.	Nausheen, Farhatullah, Iftikhar H. Khalil , and Amanullah	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Heritability and heterobeltiotic studies of F1 hybrids in <i>Brassica carinata</i> .	47(5): 1831- 1837	2015
36.	M. Saeed, Iftikhar H. Khalil , D. Nayab, S.A. Anjum and M. Tanveer	Pakistan Journal of Agricultural Sciences ISSN: 0552-9034 IF 2016: 0.71	Combining ability and heritability for yield traits in wheat (<i>Triticum aestivum</i>)	53(3): 577- 583	2016
37.	Ullah, H., W.U. Khan, M. Alam, Iftikhar H. Khalil , K.N. Adhikari, D. Shahwar, Y. Jamal, I. Jan, and M. Adnan	Canadian Journal of Plant Science ISSN: 0008-4220 1918-1833 IF 2016: 0.69	Assessment of G×E interaction and heritability for simplification of selection in spring wheat genotypes	Publishe d on the web 27 May 2016, 10.1139/ CJPS- 2016- 0117	2016
38.	Z.H. Facho, Iftikhar H. Khalil , Farhatullah, N.U. Khan, and S. Ali.	Pakistan Journal of Botany ISSN: 0556-3321 IF 2016: 0.69	Morphological characterization and estimation of genotype × environment interaction of indigenous buckwheat germplasm collected	48(6): 2391- 2398	2016

			from Gilgit Baltistan, Pakistan.		
39.	Khalil, S.K., J.G. Mexal, Iftikhar H. Khalil , S. Wahab, A. Rehman, Z. Hussain, A. Khan, A.Z. Khan, and M.K. Khattak	The Pharmaceutical and Chemical Journal ISSN: 2349-7092 IF 2015: 0.54	Foliar Ethephon fruit thinning improves nut quality and could manage alternate bearing in Pecan.	3(4):15 0-156	2016
40.	Rahman, M.M., M.S.N. Mendel, M.A. Alam, S. Rahman, N. Begum, and Iftikhar H. Khalil	SABRAO J. Plant Breeding & Genetics ISSN: 2016-7073 IF 2016: 0.54	Identification of drought tolerant spring wheat genotypes based on some of the physiological traits	49(1): 104- 115	2017
41.	Afsar, M.A., S.K. Khalil, S. Wahab, Iftikhar H. Khalil , A.Z. Khan, and M.K. Khattak	Communication in Soil Sci. & Plant Analysis ISSN: 0010-3624 IF 2016: 0.58	Impact of various ratios of Nitrogen and Sulfur on maize and soil pH in semi-arid region	48(3): 1-10	2017
42.	A. Sadeque, A., M. Turner, H.S. Bariana, U.K. Bansal, Iftikhar H. Khalil and K. Adhikari	SABRAO J. Plant Breeding & Genetics ISSN: 2016-7073 IF 2016: 0.54	Molecular mapping of rust resistance genes in a doubled haploid population of wheat.	49(3): 258- 269	2017
43.	Afsar, M.A., S.K. Khalil, Imranuddin, A. Khan, and Iftikhar H. Khalil	Intl. J. Bio. Sci. ISSN: 1449-2288 IF: 3.873	Days to silking, stover yield and soil electrical conductivity of maize hybrid-Babar as affected by Nitrogen and Sulfur applied in different combinations	10(3): 199- 208	2017

44.	Ali, S., N.U. Khan, Iftikhar H. Khalil , M. Iqbal, S. Gul, S. Ahmed, N. Ali, M. Sajjad, K. Afridi, I. Ali and S. M. Khan	J. Sci. Food Agric. ISSN: 1097-0010 IF: 2.463	Environment effects for earliness and grain yield traits in F1 diallel populations of maize (<i>Zea mays</i> L.)	97: 4408–4418	2017
45.	Sohail, A., M.Y. Khan, T. Burni, Farhatullah, Iftikhar H. Khalil and S.M.A Shah	APRN Journal of Agricultural and Biological Science. ISSN 1990-6145	A study on molecular surveillance of <i>Theileria</i> Spp. infection and its impact on hematological and biochemical changes in naturally infected small ruminants at Multan, Pakistan	13(1): 1-7	2018
46.	Ali, F., M.A. Nadeem, E. Habyarimana, A. Yilmaz, M.A. Nawaz, Iftikhar H. Khalil , S. Ercisli, G. Chung, H.A. Chaudhary and F.S. Baloch	Brazilian Journal of Botany. ISSN: 1806-9959. IF: 0.958	Molecular characterization of genetic diversity and similarity centers of safflower accessions with ISSR markers,	https://doi.org/10.1007/s40417/s40415-019-00574-7	Published online: 30 Jan., 2020
47.	Ali, S., N.U. Khan, S. Gul, S.U. Khan, I. Tahir, Z. Bibi, Iftikhar H. Khalil , N. Ali, S.A. Khan, I.Hussain, I. Ali & S.M. Khan	International Journal of Agriculture & Biology ISSN:1560-8530. EISSN:1814-9596. IF: 0.902	Genotype by environment interactions affecting heterotic effects in maize for earliness traits and grain yield	23(5): 983-993	2020
48.	Ali, I., N.U. Khan, S. Gul, S.U. Khan, I. Tahir, Z. Bibi, I.H. Khalil , M. Rahman, S. Ahmed, K. Aslam, G. Shabir, H.A. Haq, A. Din & S. Fahad	International Journal of Agriculture & Biology ISSN:1560-8530. EISSN:1814-9596, IF: 0.902	Association Mapping of QTLs with Yield and Lint Traits in Elite Upland Cotton Germplasm	24(1): 17–28	2020

II. Publications in HEC Recognized Journals: 87

S. No.	Author (s)	Journal	Title of Publication	Vol. & Page no.	Year Publish ed
1.	I. Haq & Iftikhar H. Khalil.	Pak. J. of Agric, Agril Eng & Vet Sci	Effect of gypsum application on the yield of crops on normal soils	19(2): 35-38	2003
2.	M. Sayyar, M.S. Swati, Iftikhar H. Khalil , & A. Iqbal	Asian Journal of Plant Science	Heterotic studies for various characters in sunflower (<i>Helianthus annus</i> L.)	2(14): 1010-1014	2003
3.	I. Jan, M. Usman, Iftikhar H. Khalil , & T. Jan	Asian Journal of Plant Science	Performance of recently released wheat cultivars.	2(8): 627-632	2003
4.	S.K. Khalil, A. Rehman, A.Z. Khan, Iftikhar H. Khalil & S. Rehman.	Pakistan Journal of Seed Techn.	Osmoconditioning seed of mungbean varieties improve germination.	1(3): 13-22.	2003
5.	I. H. Khalil , A. Farooqi, H. Rahman & F. Subhan	Sarhad Journal of Agric.	Selection differential and genetic gain for grain yield in wheat	20(4): 517-522.	2004
6.	T. Shehzad, I. H. Khalil , M.S. Swati, & S.M.A. Shah	Sarhad Journal of Agric.	Heterosis for yield and related traits in spring wheat	20(4): 537-542	2004
7.	M.Y. Kakakhel, I. H. Khalil , H. Rahman & K. Khan	Sarhad Journal of Agric.	Influence of reciprocal crosses on vegetative traits in maize	20(4): 543-547	2004
8.	M.D. Khan, Iftikhar H. Khalil , A. Khan & Ikramullah	Sarhad Journal of Agric.	Genetic divergence and association analysis for yield and its related traits in some mash bean genotypes	20(4): 555-561	2004
9.	Iftikhar H. Khalil & N. Afridi	Sarhad Journal of Agric.	Heritabilities and selection responses for yield and yield associated traits in spring wheat	20(3): 401-404.	2004
10.	I. Alam, S.K. Khalil, M.M. Shafi, Iftikhar H. Khalil & F. Karim	Sarhad Journal of Agric.	Effect of plant density and nitrogen on leaf appearance rate, maturity and yield of barley	20(2): 343-346.	2004
11.	M.S. Khan, Iftikhar H.	Asian Journal of Plant	Heterosis for yield components in sunflower	3(2): 207-	2004

	Khalil & M.S. Swati	Science	(helianthus annuus L)	210.	
12.	F. Subhan, S. Rahman, N. Ahmad, I. Ahmad, M. Siddiq, M. Anwar, Iftikhar H. Khalil , B. Ahmad, I. Ali & N. Uddin	Journal of Biological Sciences	A new wheat variety Haider-2000 for rainfed areas of NWFP	4(1): 47-49	2004
13.	F. Subhan, S. Rahman, N. Ahmad, I. Ahmad, M. Siddiq, M. Anwar, Iftikhar H. Khalil , B. Ahmad, I. Ali & N. Uddin	Journal of Biological Sciences	Saleem-2000: A new wheat variety for normal/late planting in irrigated areas of NWFP	7(1): 32-35	2004
14.	H. Ihsan, Iftikhar H. Khalil , H. Rahman & M. Iqbal	Sarhad Journal of Agric.	Genotypic variability for morphological and reproductive traits among exotic maize hybrids	21(4): 599-602	2005
15.	Ikramullah, Iftikhar H. Khalil , G. Hassan & B. Ahmad	Sarhad Journal of Agric.	Genetic variability for salt tolerance in spring wheat.	21(4): 623-628	2005
16.	Iltafullah, Iftikhar H. Khalil , H. Ullah & J. Khan	Sarhad Journal of Agric.	Comparative performance of F ₁ maize hybrid across seasons.	21(3): 395-402	2005
17.	Iftikhar H. Khalil , H. Rahman, K. Khan & M. Y. Kakakhel	Sarhad Journal of Agric.	Performance of normal vs reciprocal crosses for yield and yield components in maize	21(2): 215-219	2005
18.	Iftikhar H. Khalil , Aftab, T. Shehzad & F. Subhan.	Sarhad Journal of Agric.	Genotype × location interaction for yield and its associated traits in spring wheat.	21(1): 29-32	2005
19.	T. Shehzad, I. H. Khalil , S.M.A. Shah, H. Ihsan & M.S. Swati	Sarhad Journal of Agric.	Heterosis estimates for some morphological traits in spring wheat crosses	21(1): 33-39	2005
20.	S.K. Khalil, S. Akhtar, A. Rehman, I.H. Khalil, A.Z. Khan, and S. Rehman	The Nucleus	Morphological and agronomic traits of wheat genotypes influenced by planting dates	42(3-4): 225-230	2005

21.	M. Jan, Farhatullah, I. Begum, G. Hassan & Iftikhar Khalil	Pakistan Journal of Biological Sciences	Magnitude of heterosis for achene yield and oil content in sunflower (<i>Helianthus Annuus L.</i>)	8(11): 1557-1560	2005
22.	M. Jan, G. Hassan, Iftikhar Khalil & Raziuddin	Pakistan Journal of Biological Sciences	Estimates of heterosis and heterobeltiosis for morphological traits in wheat (<i>Triticum aestivum L.</i>)	8(9): 1261-1264	2005
23.	S.K. Khalil, A. Rehman, A.Z. Khan, I. H. khalil , & S. Rehman.	Pakistan Journal of Seed Tech.	Osmopriming improve germination of soybean varieties	1(8&9): 63-70	2006
24.	Farhatullah, F. Azam, & Iftikhar H. Khalil	International Journal of Agril Biology	Path analysis of the coefficients of sunflower (<i>Helianthus annuus L.</i>) hybrids.	8(5): 621-625	2006
25.	H. Khan, H. Rahman, & Iftikhar H. Khalil	Pakistan Journal of Plant Sci.	Genotype × environment interactions in sunflower.	12(2): 183-191	2006
26.	Durrishahwar, H. Rahman, Iftikhar H. Khalil , A. Farooqi, & R. Habib	Pakistan Journal of Plant Science	Magnitude of heterosis for morphological and yield traits in sunflower.	12(1): 55-64.	2006
27.	H. Ullah, Iftikhar H. Khalil , G. Hassan, I. Ullah, & H. Rahman	Sarhad Journal of Agric.	Performance of local and exotic inbred lines of maize under agro-ecological conditions of Peshawar.	22(3): 409-414	2006
28.	G. Hassan, F. Mohammad, Iftikhar H. Khalil , R. Din, & M. Jan	Sarhad Journal of Agric.	Combining ability analysis through diallel crosses in bread wheat	22(3): 419-425	2006
29.	M. Jan, G. Hassan, Iftikhar H. Khalil & R. Din.	Pakistan Journal of Biological Sciences	Combining ability analysis of yield and yield components in sunflower	9(12): 2328-2332	2006
30.	S.S. Shah, H. Rahman, Iftikhar H. Khalil & A. Rafi	Sarhad Journal of Agric.	Reaction of two maize synthetics to Maydis Leaf Blight following recurrent selection for grain yield	22(2): 263-269.	2006
31.	G. Hassan, F. Muhammad, Iftikhar H. Khalil &	Sarhad Journal of Agric.	Heterosis and heterobeltiosis studies for morphological traits in bread wheat	22(1): 51-54	2006

	Raziuddin				
32.	Farhatullah, N. Akhtar & Iftikhar H. Khalil.	Research on Crops, India	Genetic analysis for qualitative and quantitative characters in <i>Helianthus annuus</i> L.	7(2): 464-470	2006
33.	N. Afridi & Iftikhar H. Khalil	Sarhad Journal of Agric.	Genetic improvement in yield related traits of wheat under irrigated and rainfed environments	23(4): 965-972	2007
34.	G. Hassan, F. Muhammad, S.S. Afridi & Iftikhar H. Khalil.	Sarhad Journal of Agric.	Combining ability in the F1 generation of diallel cross for yield and yield components in wheat	23(4): 937-942	2007
35.	Z. Shah, S.M.A. Shah, A. Hassnain, S. Ali, Iftikhar H. Khalil, & I. Munir.	Sarhad Journal of Agric.	Genotypic variation for yield and yield related traits and their correlation studies in wheat	23(3): 633-636	2007
36.	H. Rahman, N. Islam, Iftikhar H. Khalil, Durrishahwar & A. Rafi	Sarhad Journal of Agric.	Multiple traits selection in a maize population derived from maize variety Dehqan.	23(3): 637-640	2007
37.	H. Rahman, I.H. Khalil, N. Islam, Durrishahwar & A. Rafi.	Sarhad Journal of Agric.	Comparison of original and selected maize populations for grain yield traits.	23(3): 641-644	2007
38.	S. Ali, H. Rahman, S.S. Shah, I.A. Khalil & Iftikhar H. Khalil	Sarhad Journal of Agric.	Evaluation of outcrossed maize progeny for grain yield traits.	23(3): 629-632	2007
39.	S.S. Shah, H. Rahman, Iftikhar H. Khalil & M. Iqbal	Pakistan Journal of Biological Sciences	Recurrent selection for Maydis leaf blight resistance and grain yield improvement in maize.	10(20): 3632-3637	2007
40.	R. Ullah, Z. Mohammad, Iftikhar H. Khalil, & A. Ullah	Pakistan Journal of Plant Sciences	Heritability for heading, maturity, plant height, spike length and tillers production in winter wheat	13(1): 65-72.	2007
41.	Shah, S.S., Iftikhar H. Khalil, and H. Rahman.	Pak. J. of Biological Sci.	Grain yield improvement in maize.	10(20): 3632-3637	2007
42.	Khan, I, and Iftikhar H. Khalil	Sarhad J.of Agric.	Genetic parameters for yield traits in wheat under irrigated and rainfed environments.		2007

43.	Iftikhar H. Khalil , S. Khan, and Farhatullah.	J. Agric. and Bio. Sci.	Phenotypic correlation analysis of elite F _{3:4} Brassica populations for quantitative and qualitative traits.	3: 38-42	2008
44.	Iftikhar H. Khalil , S.A. Jadoon and G. Hassan.	Sarhad Journal of Agric.	Effect of forage clipping on grain yield and associated traits of winter wheat in Northern Pakistan	24(3): 423-427	2008
45.	S. Khan, Farhatullah, Iftikhar H. Khalil , I. Munir, M.Y. Khan, & N. Ali	Sarhad Journal of Agric.	Genetic variability for morphological traits in F _{3:4} Brassica Populations.	24 (2): 217-222.	2008
46.	S. Khan, Farhatullah, Iftikhar H. Khalil , M.Y. Khan, & N. Ali	Sarhad Journal of Agric.	Genetic variability, heritability and correlation for some quality traits in F _{3:4} Brassica populations	24 (2): 223-231	2008
47.	S.M.A. Shah, H. Rahman, A. Rehman, F.M. Abbasi, Iftikhar H. Khalil , & A. Ali.	Sarhad Journal of Agric.	Characterization of wild rice species in response to leaf folder <i>Cnaphalocrocis medinalis</i> .	24(1): 69-74.	2008
48.	S.A. Khan, A.S. Qureshi, A. Ashraf, S.M. Khan, S. Ajmal & Iftikhar H. Khalil	Sarhad Journal of Agric.	Estimates of heterosis for seed yield and oil content in sunflower (<i>Helianthus annuus</i>)	24(1): 43-48	2008
49.	Jamal, Iftikhar H. Khalil , A. Bari, S. Khan and I. Zada	J. of Agric. & Biological Sci.	Genetic variation for yield and yield components in rice.	4(6): 60-64	2009
50.	Z.H. Khan, S.K. Khalil, S. Nigar, Iftikhar H. Khalil , I. Haq, I. Ahmad, A. Ali, and M.Y. Khan	Sarhad Journal of Agric.	Phenology and yield of sweet corn landraces influenced by planting dates.	25(2): 153-157	2009
51.	Ullah, H., Iftikhar H. Khalil , D.A. Lightfoot and Iltafullah	Biological Diversity and Conservation	Estimation of genetic divergence among elite mungbean (<i>Vigna radiata</i>) genotypes by RAPD analysis.	3(1): 75-82	2010

52.	Shuja, M.N., D. Nayab, A. Iqbal and Iftikhar H. Khalil	Intl. J. Agric. Biol.	Evaluating the response of wheat genotypes to forage clipping.	12(1): 111-114	2010
53.	Z. Shamim, A. Bakhsh, A. Hussain, K.S. Ahmad, M.K. Mehmood and Iftikhar H. Khalil	World Applied Sciences Journal	Genetic variability among maize genotypes under agro-climatic conditions of Kotli (Azad Kashmir)	8(11): 1359-1365	2010
54.	Ahmad, B., Iftikhar H. Khalil, M. Iqbal, and H. Rahman.	Sarhad J. of Agric.	Genotypic and phenotypic correlation among yield components in bread wheat under normal and late plantings.	26(2): 259-262	2010
55.	F.U. Khan, and Iftikhar H. Khalil	Sarhad J. of Agric.	Environmental effect on wheat phenology and yields.	??	2011
56.	Parveen, L., and Iftikhar H. Khalil	Sarhad J. of Agric.	Improvement of agronomic traits in spring wheat cultivars released in NWFP during 1958 to 2000.	27(1): 51-57	2011
57.	Ikramullah and Iftikhar H. Khalil	Sarhad Journal of Agric.	Heterotic effects for yield and protein content in white quality protein maize.	27(3): 403-409	2011
58.	Khalil, I.A., H. Rahman, N.U. Rehman, M. Arif, Iftikhar H. Khalil , M. Iqbal, and H. Ullah	Sarhad J. of Agric.	Evaluation of maize hybrids for grain yield stability in north-west of Pakistan.	27(2): 213-218	2011
59.	Iftikhar H. Khalil	Egyptian Academic J. of Biological Sci.	Environmental influence on heritability and selection response of vegetative and maturity traits in mungbean.	2(1): 1-10	2011
60.	H. Ullah, Iftikhar H. Khalil , Iltafullah, H. Rahman & I. Amin	African Journal of Biotechnology	Genotype \times environment interaction, heritability and selection response for yield and yield contributing traits in mungbean	4(10): 475-483	2011
61.	Ullah, H., Iftikhar H. Khalil , I.A. Khalil, and G.S.S. Khattak	Atlas J. Biotech.	Performance of mungbean genotypes evaluated in multi-environmental trials using GGE biplot method	1(1): 1-8	2011

62.	S. Nawab, I. Ullah, Iftikhar H. Khalil , S. Suleman, A.M. Khan and N.M. Nasir	Pure & Applied Biology	Comparative study of wheat genotypes under optimum and water deficit conditions.	1(3): 72-75	2012
63.	Khan, F.U., Iftikhar H. Khalil , Inamullah, S. Khan and I. Munir	Sarhad J. of Agric.	Yield stability, genotypic and phenotypic correlations among yield contributing traits in spring wheat under two environments.	28(1): 27-36	2012
64.	Khan, A., F. Mohammad, G. Hassan, and Iftikhar H. Khalil	Sarhad J. of Agric.	Genotypic competition among elite wheat breeding lines under irrigated and rainfed conditions.	28(1): 47-52	2012
65.	Ilyas, M., F. Mohammad, Iftikhar H. Khalil , M. Arif, W. Khan, Saifullah and S.M. Azam	International J. Basic & Applied Sciences	Yield potential of F _{4:7} bread wheat (<i>Triticum aestivum</i> . L) lines under normal and late plantings.	13(5): 7-11	2013
66.	Ullah, H., Iftikhar H. Khalil , H. Badshah, and D.A. Lightfoot	African J. Biotechnology	Location effect on heritability estimates of yield traits in mungbean derived from F ₂ population	10(83): 19309-19317	2013
67.	Ullah, I., Iftikhar H. Khalil , I.A. Shah, W. Murad, N. Mehmood, M. Amin and M. Noor	Pakistan J. Weed Science Research	Germplasm diversity of wheat under different water stress and weedy conditions	19(3): 315-325.	2013
68.	Jadoon, S.A., H. Ullah, F. Mohammad, Iftikhar H. Khalil , M. Alam and D. Shahwar	Genetics and Molecular Research	Impact of forage clipping treatments on performance of winter wheat	12(4): 5283-5288	2013
69.	Jadoon, S.A., F. Mohammad, H. Ullah, and Iftikhar H. Khalil	QScience Connect.	Gene action for pre and post harvest traits in F ₂ wheat populations.	11	2013
70.	Azam, S.M., F.	International	Divergence in F ₃	13(3):	2013

	Mohammad, I. Ahmad, Iftikhar H. Khalil, S.A. Jadoon and A. Nasim	J. Basic & Applied Sciences	segregating bread wheat populations	94-99	
71.	Khan, F., Raziuddin, I.A. Khalil, Iftikhar H. Khalil and Iltafullah	American-Eurasian J. Agric.& Envirtl. Sciences	Heritability and genetic potential of <i>Brassica napus</i> genotypes for yield and yield components.	13(6): 802-806	2013
72.	Tahir, M., Iftikhar H. Khalil , P.H. McCord, and B. Glaz.	American J. Experimental Agriculture	Sugarcane genotype performance in three environments (based on crop cycle) at Mardan, Pakistan.	4(3): 362-375	2014
73.	Tahir, M., Iftikhar H. Khalil , P. H. McCord, B. Glaz and J. Todd	American Journal of Sugarcane Technologists	Stability of genotypes and sources of variability in the canal point sugarcane cultivar selection program.	34(4): 1-20	2014
74.	Tahir, M., Iftikhar H. Khalil , P.H. McCord, and B. Glaz	American J. Experimental Agriculture	Character association and selection indices in sugarcane	4(3): 336-348	2014
75.	Tahir, M., Iftikhar H. Khalil and H.Rahman	Sarhad Journal of Agriculture	Evaluation of important characters for improving cane yield in Sugarcane (<i>Saccharum Sp.</i>)	30(3): 319-323	2014
76.	Iftikhar H. Khalil , A. Ahmad, H. Raza, S. A. Khan, I. Hussain, A. Khan and M. Saeed	American-Eurasian J. Agric & Environ. Sciences	Performance of winter wheat under Peshawar conditions	15(2): 205-209	2015
77.	Khalil, S. K., J. Mexal, A. Rehman, S. Wahab, Amanullah, Iftikhar H. Khalil , Z. Hussain and A.Z.Khan.	2nd Intl. Conf. on Sus. Agric. & Envir. Sep 30 – Oct 03, 2015, Konya, Turkey. Proc. Vol. I & II Pp.834-842	Management of alternate bearing dilemma in pecan through foliar ethephon thinning in New Mexico, USA	2nd ICSAE Proc. Book Vol. I & II Pp.834-842	2015
78.	Iftikhar H. Khalil , A.	Advances in Environatl.	Heritability and selection response for	10(9): 172-	2016

	Wahab, D. Nayab, S.S. Ghani and H. Ullah	Biology	morphological and yield traits in normal and late planted wheat	179	
79.	Alia, Iftikhar H. Khalil , S.M.A. Shah, Durrishahwar, and M. Noor	J. Pure & Applied Biology	Grouping rice genotypes in different clusters based on their similarity index	5(3): 386-391	2016
80.	Khan, A., Iftikhar H. Khalil , F. Ahmad, and M. Noor	J. Pure and Applied Biology	Heritability and correlation for yield attributes in Sunflower	5(3): 588-593	2016
81.	Ali. M., Raziuddin, Iftikhar H. Khalil , I.A. Khalil, A. Haq, R. Khan, Ghulamullah, M. Rehman, and S. Khan	J. Pure. Appl. Biol.	Genetics of seed quality attributes in Brassica napus L.	Pure and Applied Biology · http://dx.doi.org/10.19045/bspab.2016.50148	2016
82.	Saeed, M., and Iftikhar H. Khalil	Sarhad J. Agric.	Combining ability and narrow-sense heritability in wheat (<i>T. aestivum</i> L.) under rainfed environment.	33(1): 22-29	2017
83.	Iqbal, A., Iftikhar H. Khalil , S.m.A. Shah, and M.S. Kakar	Sarhad J Agric.	Estimation of heritability, genetic advance and correlation for morphological traits in spring wheat.	33(4): 674-679	2017
84.	Saeed, M., and Iftikhar H. Khalil	Sarhad J. Agric.	Combining ability and narrow-sense heritability in wheat (<i>T. aestivum</i> L.) under rainfed environment.	33(1): 22-29	2017
85.	Aziz, T., Iftikhar H. Khalil , Q. Hussain, T. Shah,	Sarhad Journal of Agriculture	Heritability and selection response for grain Yield and associated traits in F3 wheat	34(4): 767-774	2018

	N. Ahmad and A. Sohail		populations.		
86.	Rehman, M., H. Rahman, M. Iqbal, Iftikhar H. Khalil and Z. Shah	Sarhad Journal of Agriculture	Line × Tester Analysis of early generation inbred lines for some agronomic traits in maize	34(4): 932-940	2018
87.	Nayab, D., Iftikhar H. Khalil , F. Mohammad & S.K. Khalil	Sarhad Journal of Agriculture	Performance of synthetically developed wheat (<i>Triticum aestivum</i> L.) hybrids for yield traits under normal and late planting	35(3): 864-873	2019

CONFERENCE PAPERS: 3

1. **Iftikhar H. Khalil**, H. Rahman and I. Khan. **2007**. Genetic parameters and selection response for yield traits in bread wheat under irrigated and rainfed environments. CP971. *In* International Conference on Mathematical Biology-ICMB07, Malaysia. Atan, K.A.M. (Ed.) ©2008 American Institute of Physics
2. B.F. Carver, W. Whitmore, and **Iftikhar H. Khalil**. **2002**. The fine color line between hard red winter and hard white wheat. **National Wheat Industry Research Forum Proceeding, Orlando, Florida, 2002** (<http://www.wheatimprovement.org/forum/5/carver.html>)
3. **Iftikhar Khalil**, Brett F. Carver, and Eugene G. Krenzer. **1999**. Genetic gains in hard winter wheat: influence of grazing pressure. Southwestern Wheat Research & Education Consortium (SWREC) Annual Meeting. Texas A&M Research and Extension Center, Amarillo, TX. March 24-25, 1999 (<http://www.amarillo2.tamu.edu/swrec/99meet.html>)

POSTER PAPERS: 3

1. **Iftikhar H. Khalil**, and B.F. Carver. **2000**. Is a dual-purpose management system detrimental to winter wheat grain quality? **CSSA-ASA meeting at Denver, Colorado**. Agronomy Abstracts, Madison, WI, USA.
2. **Iftikhar H. Khalil**, B.F. Carver, and E.G. Krenzer. **1999**. Correlation of performance for winter wheat managed for grain-only and forage-plus-grain. **CSSA-ASA meeting at Salt Lake City, Utah**. Agronomy Abstracts, Madison, WI, USA.
3. **Iftikhar H. Khalil**, B.F. Carver, and E.G. Krenzer. **1999**. Genetic gains in hard red winter wheat under a dual-purpose management system. **CSSA-ASA Southern Branch meeting at Memphis, Tennessee**. Agronomy Abstracts, Madison, WI, USA.

RESEARCH PROJECTS COMPLETED: 2

Project No. 1

Title: Developing Forage-plus-Grain Winter Wheat Production System for Northern Area (2004-07)

Duration: 3-Years (2004 to 2007)

Total Amt: Rs. 1.458 million

PI: Dr. Iftikhar Hussain Khalil

Funding Agency: Pakistan Agricultural Research Council (PARC), Islamabad, Pakistan under the Agricultural Linkages Program of USAID.

Project No. 2

Title: Evaluation and Identification of High Yielding Winter Wheat Genotypes

Duration: 2-Years (Oct. 2017 to Nov. 2019)

Total Amt: Rs. 3.00 million

PI: Dr. Iftikhar Hussain Khalil

Co-PI: Meri. Prof. Dr. Fida Muhammad

Funding Agency: USAID-CIMMYT/PARC, Islamabad under Agricultural Innovation Program (AIP).

PROFESSIONAL ACCOMPLISHMENTS AND AWARDS:

1. Served/serving as **HEC-Focal Person** (additional duty) of the University of Agriculture, Peshawar for HEC sponsored Ph.D. Indigenous Fellowship Program from **2013 till to date**.
2. Served as **Director of Research Farms** (additional duty) of the University of Agriculture, Peshawar from **July 2014-July 2015** to manage and supervise 'Crop Improvement', 'Crop Production', 'Horticulture' and 'Dairy Farm' components of University Farm.
3. Served/serving as **Member of Board of Studies** in Agronomy, Horticulture and Plant Protection Departments at the University of Agriculture, Peshawar.
4. Served/serving as **Subject Expert** at the Khyber Pakhtunkhwa Public Service Commission for recruitments/selection of Research Officers and Senior Research Officers for Khyber Pakhtunkhwa Agricultural Research System.
5. Served as **Secretary/Member of National Curriculum Revision Committee (NCRC) on Plant Breeding and Genetics of HEC**, Islamabad in September **2013** at University of Agriculture, Peshawar and May **2014** at University of Karachi to develop and revise curricula for B.Sc.(Hons), MSc.(Hons) and Ph.D degree programs. Also served as Secretary/Member of NCRC of HEC, Islamabad on Plant Breeding & Genetics in 2004.
6. **Developed and approved a new course** titled 'Experimentation in Plant Breeding' for teaching at B.Sc.(Hons) degree level of Plant Breeding and Genetics during HEC NCRC meeting at Karachi in **2014**.
7. Served as "**Visiting Outstanding Researcher under the University of Tsukuba (Japan) Program for Promoting the Enhancement of Research**" University of Tsukuba, Japan, Feb. 23-Mar. 28, **2014**.

8. Member of **International Advisory Committee** for “**2nd International Plant Breeding Conference: Advanced Strategies in Crop Improvement**” organized by Genetics Society of Malaysia at University Putra Malaysia, Malaysia (Oct 14-15, **2014**).
9. Presented paper as **Invited Speaker** in “**2nd International Plant Breeding Conference: Advanced Strategies in Crop Improvement**” Oct 14-15, **2014** at University Putra Malaysia, Malaysia.
10. Attended **Training Course** on “**Standardization of Stem Rust note-taking and evaluation of germplasm**” organized by International Center for Maize and Wheat Improvement (CIMMYT) at Kenya Agricultural and Livestock Research Organization (KALRO), Njoro, Kenya, Oct. 12-18, **2015**.
11. Delivered lectures as **Invited Speaker** on ‘**Field Plot Techniques**’ during CIMMYT (Pakistan) sponsored “**Wheat Improvement Training Course**” at Wheat Research Institute, Faisalabad (**March-May, 2015**).
12. Attended **7th Workshop** on ‘**Significance of Bioinformatics in Life Sciences**’, in **May 2016** at **Capital University of Science & Technology (CUST), Islamabad, Pakistan**.
13. Member of **International Advisory Committee** for “**3rd International Plant Breeding Conference: Strengthening Plant Breeding and Future Perspectives**” organized by Genetics Society of Malaysia at Putrajaya, Malaysia (Nov 15-16, **2016**).
14. Received **Research Productivity Award** for year **2011-12** from **Pakistan Council for Science and Technology** (Ministry of Science and Technology), **Islamabad**.
15. **Organized National Seminar** “**Technological Interventions for Food & Environment Security**” Jun 28-July 02, 2010 at Bara Gali, Abbottabad, Pakistan.
16. Served as **General Secretary (elected)** of Agriculture University Teachers Association (AUTA) during **2009-10** and **2010-11** and **General Secretary (elected)** of **Khyber Pakhtunkhwa Chapter** of Federation of All Pakistan Universities Academic Staff Association (FAPUASA) for year 2009-10.
17. Received **Research Productivity Allowance** for year **2003-04** from **Pakistan Council for Science and Technology** (Ministry of Science and Technology), **Islamabad**.
18. **Member of Editorial Board** of **Iranian Journal of Crop Physiology** (ISSN-printed 2155-8222, ISSN-online 2322-2808), **Islamic Azad University, Iran**.
19. Recipient of **Sitlington Scholar Award. 1998-2000**. College of Agricultural Sciences & Natural Resources, **Oklahoma State University, USA**.
20. Received **Jerry Grant Graduate Award. 1999-2000**. College of Agricultural Sciences & Natural Resources, **Oklahoma State University, USA**.
21. Received **Dale Weibel Graduate Award. 1998-1999**. Department of Plant & Soil Sciences, **Oklahoma State University, USA**.
22. Got ‘**Certificate of Achievement**’ from **USAID Academy for Educational Development, Islamabad** for obtaining the highest TOEFL score in **1990**.
23. Got **1st position** in Plant Breeding & Genetics Department both in M.Sc.(Hons) & B.Sc.(Hons) degrees and **3rd position** in University of Agriculture, Peshawar during M.Sc.(Hons) in 1988.

MAJOR ACHIEVEMENTS AS RESEARCH OFFICER (KP Agric. Res. System)

- i. Evaluated wheat germplasm from CIMMYT, ICARDA, etc., across years and locations for selection as cultivars for different agro-ecological zones of Khyber Pakhtunkhwa (KP) Province of Pakistan.

- ii. Statistical analysis of data about different Wheat Trials/Nurseries of CCRI Wheat Breeding Program across years/locations using MStat-C, SAS and Excel.
- iii. Technically assisted DG, ARI Tarnab (Peshawar) and Director General Research, KP Agricultural Research System.
- iv. Prepared and evaluated research proposals, PC-Is and Annual Developmental Program (ADP) for KP Agricultural Research System for funding by Provincial and Federal Governments.
- v. Prepared (quarter and annual) progress reports of developmental projects funded by Provincial and Federal Governments.
- vi. Served as Counterpart with the International Consultants of the World Bank sponsored Agricultural Research Project-II (ARP-II) for KP in developing 'Research Budgeting', 'Monitoring and Evaluation' packages for the KP Agricultural Research System.
- vii. Assisted International Consultants in developing Provincial Research Master Plan for KP under World Bank funded ARP-II.
- viii. Completed Economic Evaluation Case-studies on 'Sugarcane Variety (Mardan-92) Development' and 'Fruit Fly Control Project in NWFP' under World Bank funded ARP-II.

PC-Is PREPARED: 2

1. **"Production of High Value Added Food Products and Food Ingredients in Dir Districts, NWFP".**
Approved by PDWP and published in 'Annual Developmental Program 1995-96 (ADP serial # 1564)'. Govt. of NWFP, Food Agric. Livestock and Coop. Dept., Peshawar.
2. **" Reconstruction and Rehabilitation of Existing Buildings at ARI, Tarnab, Peshawar".**
Approved by PDWP and published in 'Annual Developmental Program 1995-96 (ADP serial # 1560)'. Govt. of NWFP, Food Agric. Livestock and Coop. Dept., Peshawar.

TRAINING COURSES UNDERTAKEN:

1. Certificate in 'Quality University Instruction: A Teaching Effectiveness Training Program (1999)', OSU, USA.
2. Workshops on 'Micro-Computer Skills (Aug. 10-20, 1992)', 'Re-Entry & Professional Integration (Aug. 9-11, 1993)', 'Strengthening Communication Skills (Aug. 12-19, 1993)' Southern Illinois University, Carbondale, USA.

3. **‘Training of Training Coordinators’ at Oklahoma, USA** (June 30-Aug. 10, 1991), **Faisalabad, Pakistan** (January 5-18, 1991), and **Islamabad, Pakistan** (March 11-27, 1990) under MART Project of USAID.
4. Course in **‘Developing, Writing and Marketing Grant Proposals** (July 8-12, 1991)’ **Winrock International Institute for Agricultural Development, Arkansas, USA.**
5. Training workshop on **‘Research Monitoring and Evaluation** (June 10-14, 1995)’ **ARI, Tarnab, Peshawar, Pakistan.**
6. Training Course on **‘Scientific Report Writing for Researchers** (Oct. 1-3, 1995)’ **Pakistan Academy for Rural Development, Peshawar, Pakistan.**
7. Training Course on **‘Project Formulation & Appraisal** (Sept. 15-Oct. 3, 1996)’ **Pakistan Academy for Rural Development, Peshawar, Pakistan.**
8. Training Course on **‘Scheme Monitoring & Evaluation System, PC-1 Appraisal Checklist and Gender Development** (May 1997)’ **PE & D Department, Peshawar, Pakistan.**

CURRENT RESEARCH FOCUS:

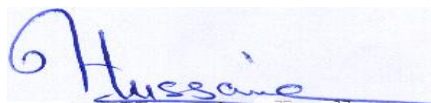
Hybridization among elite wheat cultivars released by provincial (Khyber Pakhtunkhwa, Punjab, Sindh) and national (NARC) wheat breeding programs is underway using B.Sc.(Hons), M.Sc.(Hons) and Ph.D. students specializing in Plant Breeding and Genetics for use in academic studies (M.Sc. and Ph.D. thesis) and possible release as new wheat cultivars. Likewise, different wheat nurseries and germplasm from CIMMYT and ACARDA are also evaluated for identification of promising lines. Participation of B.Sc.(Hons) and M.Sc.(Hons) students specializing in Plant Breeding is encouraged to train them in field evaluation and selection process. Currently, field testing of several advanced wheat lines derived from Synthetic and other elite cultivars of spring wheat is in progress under irrigated and rainfed production regions of Khyber Pakhtunkhwa. Likewise, field trials are also conducted under other contrasting test environments like normal vs. late planting and full-fertilizer and no-fertilizer conditions. A set of 25 advanced wheat lines (F₇/F₈ generation) is being evaluated at six locations of Khyber Pakhtunkhwa (KP) Province for 2nd consecutive year by a Ph.D. student (Ms Sadia Shoukat) in collaboration with the KP Agricultural Research System. The potential candidate lines (high yielding & rust resistant) will be submitted for extensive testing in Khyber Pakhtunkhwa Wheat Yield Trials (KPWYT) and subsequently to National Uniform Yield Trials (NUYT) being conducted by National Agricultural Research Centre (NARC), Islamabad at 25-30 locations of Pakistan. Likewise, several lines of durum wheat obtained from NARC, Islamabad, CIMMYT (Mexico) and Iran are being tested in preliminary trials to meet emerging market demands for making products like noodles, macaroni and spaghetti.

A project ‘Development and identification of potential inbred lines of sweet corn with enhanced sweetness and cooking quality’ is also underway in collaboration with the Maize

Breeding Section of Cereal Crops Research Institute (CCRI), Pirsabak, Nowshera, Khyber Pakhtunkhwa. Preliminary results obtained from two location (Swat and CCRI) testing have identified several inbred lines with good combining ability and heterotic effects for desirable cob and grain characteristics. Multi-location testing of newly developed sweet corn hybrids is being undertaken by Mr. Tahir Nadeem (HEC sponsored Ph.D. scholar) as a component of his Ph.D thesis research.

Likewise about 35 accessions, lines and exotic cultivars of green peas are being evaluated by another HEC sponsored Ph.D. student (Mr Muhammad Ali) for identification of Powdery Mildew Resistance using field and laboratory techniques. The identified resistance genes to Powdery Mildew are being transferred to adapted pea cultivars using diallel mating design. Shuttle breeding approach (through courtesy of Vegetable Section of KP Agricultural Research System) is being used to develop homozygous pea lines in shortest period of time.

Certified that above information is correct to the best of my records and can be verified from concerned organizations.



Dr. Iftikhar Hussain Khalil
Professor (TTS)
PBG Department
University of Agriculture, Peshawar