CURRICULUM VITAE

1. Name: Imran Ul Haq
2. Father's Name: Abdul Majeed
3. Nationality: Pakistani
4. Date of Birth: 01/20/1978
5. Marital Status: Married
6. N.I.C. No.: 3430117626569
7. Passport No. EP 1226562
8. Countries Visited: USA, ENGLAND, THAILAND, TURKEY AFGHANISTAN, CHINA
9. Permanent Address: Village Wachoki Kalan, Tehsil & Distt Hafizabad.
10. Postal Address: Department of plant pathology, UAF
11. Telephone: 03004453063; 0344445363
12. Fax: -
13. E-mail: imran_1614@yahoo.com; imran_1614@uaf.edu.pk

14. EDUCATIONAL QUALIFICATION

S#	Examination	Year	Marks/CGPA	Division	Subjects
1.	Matric	1994		1st Division	Science
2.	F.Sc.	1997		1st Division	Pre medical
3.	B.Sc. (Hons.) Agri.	2001		1st Division	Plant pathology
4.	M.Sc. (Hons.) Agri.	2003		1st Division	Plant Pathology (Bacteriology)
5.	Ph.D.	2009		Awarded	Plant Pathology (Mycology)

THESIS TITLE M. Sc. (Hons.)
Reaction of rice verities against bacterial blight and evaluation of some biocontrol agents in the control of Xanthomonas campestris pv. oryzae

Name of Supervisor: DR M. Inam Ul Haq

THESIS TITLE PhD
Biology and Molecular Characterization of *Volvariella* Spp.

Name of Supervisor: Dr. M. Aslam Khan

15. OTHER CERTIFICATES/DIPLOMAS:

S#	Name of Diploma etc.	Year	Source	Remarks
1.	Nill in the last three years.			

16. PROFESSIONAL TRAININGS:

S#	Name of Training	Year	Institute	Remarks
1.	Participated in the **"Tenth Symposium of World Data Center for Microorganisms** (WDCM), Beijing	2020.	**World Data Center for Microorganisms**	
2	Online workshop of "WFCC and WDCM Global Catalogue of Microorganisms on Global Catalogue of Microorganisms and Global Microbial Type Strain Genome and Microbiome Sequencing.	2021	Organized jointly by World Data Center of Microorganisms (WDCM)	
3	NAHE-**PhD Supervisors Capacity Building Program 2023** (Cohort-I) | Master Trainers Capacity Building (Phase-2)	2023	HEC	

18. EXPERIENCE:

ACADEMIC				
S#	**Designation/ Position**	**From (**dd.mm.yyyy)	**To** (dd.mm.yyyy)	**Total Duration** (years.months.days)
1.	Lecturer	November 2009	December 2009	One month
2.	Assistant Professor	December 2009	30 August 2020	10 years &9 months
3.	Associate Professor	31 August 2019	Till Date	
4.	Professor			
ADMINISTRATIVE				
S#				
1.	Hostel Superintendent	09-03-2021	To date	
2.	Tutor	24-11-2021	To date	

19. OTHER ASSIGNMENTS

i. Various assignments and duties assigned by administration or HOD time to time like exam invigilation, synopsis scrutiny member nd etc.

20. PUBLICATIONS

20a. List of Books published

S#	Editors	Title	Year	Publisher's Details
1.	Siddra Ijaz, Imran Ul Haq, Hayssam Mohamed Ali	Trends in Plant Biotechnology	2024	Springer Nature Singapore
2.	Imran Ul Haq and Siddra Ijaz	Trends in Plant Disease Assessment	2022	Springer, Nature. UK.
3.	Imran Ul Haq, Siddra Ijaz and Iqrar Ahmad Khan	Phytomycology and Molecular Biology of Plant Pathogen Interactions	2022	CRC Press. U.S. Taylor and Francis group
4.	Imran Ul Haq and Siddra Ijaz	Sustainable Winter Fodder; Production, Challenges, and Prospects	2021	CRC Press, Taylor and Francis group
5.	Siddra Ijaz and Imran Ul Haq	Dalbergia sissoo: Biology, Ecology and Sustainable Agroforestry. CRC Press	2021	CRC Press, Taylor and Francis group
6.	Imran Ul Haq and Siddra Ijaz	Plant Disease Management Strategies for Sustainable Agriculture through Traditional and Modern Approaches	2020	Springer, Nature. UK.
7.	Imran Ul Haq and Siddra Ijaz	Etiology and Integrated Management of Economically Important Fungal Diseases of Ornamental Palms	2020	Springer, Nature. UK.
8.	Siddra Ijaz and Imran Ul Haq	Recombinant DNA Technology	2019	Cambridge Scholar Publishing, United Kingdom (UK)

20b. List of Book Chapters published

S#	Authors	Title	Year	Publisher's Details
	Siddra Ijaz**, Imran Ul Haq**, Zakia Habib & Hayssam Mohamed Ali	Genomics. In: Trends in Plant Biotechnology.	2024	Springer Nature
	Imran Ul Haq, Maria Babar, Hayssam Mohamed Ali, Nasir Ahmad Khan, Amer Habib, Muhammad Waris	Plant System Biology.	2024	Springer Nature
1	**Imran Ul Haq** and Siddra Ijaz	Phytopathometry: A trans-disciplinary concept	2022	Springer Nature
2	Siddra Ijaz, **Imran Ul Haq**, Maria Babar & Bukhtawer Nasir	Disease Resistance Genes' Identification, Cloning, and Characterization in Plants	2022	Springer Nature
3	Siddra Ijaz, **Imran Ul Haq** and Maria Babar	Fluorescent imaging system-based plant phenotyping for disease recognition	2022	Springer Nature
4	**Imran Ul Haq**, Siddra Ijaz, Shehla Riaz, Muhammad Kaleem Sarwar, and Hayssam M. Ali.	Application of Biosensors in Plant Disease Detection	2022	Springer Nature
5	Siddra Ijaz, **Imran Ul Haq**, Samara Mukhtar, and Zakia Habib	Molecular Phytopathometry	2022	Springer Nature
6	Imran Ul Haq, **Siddra Ijaz** and Iqrar Ahmad Khan	A Journey from Koch's Postulates to Molecular System Biology	2022	CRC Press, Taylor & Francis Group
	Muhammad Kaleem Sarwar, Imran Ul Haq, **Siddra Ijaz**, Iqrar Ahmad Khan and Askim Hediye Sekmen Cetinel	Pathogenicity Genes	2022	CRC Press, Taylor & Francis Group
7	Siddra Ijaz, **Imran Ul Haq**, Nabeeha Aslam	Molecular Identification and Detection of Phytofungi	2022	CRC Press, Taylor & Francis Group

	Khan and Bukhtawer Nasir			
8	Siddra Ijaz, **Imran Ul Haq**, Zakia Habib, Samara Mukhtar, and Bukhtawer Nasir	Biotechnological Applications for Developing Resistance Against Biotic and Abiotic Stresses and Other Quality Traits in Fodder Crops	2021	CRC Press, Taylor & Francis Group
9	Nabeeha Aslam Khan, **Imran Ul Haq**, Siddra Ijaz, and Barboras Cetinel	Medicago sativa: Diseases, Etiology, and Management	2021	CRC Press, Taylor & Francis Group
10	Anjum Faraz, **Imran Ul Haq**, Siddra Ijaz, and Muhammad Zunair Latif	Trifolium Species: Diseases, Etiology, and Management	2021	CRC Press, Taylor & Francis Group
11	Muhammad Zunair Latif, **Imran Ul Haq**, Siddra Ijaz, and Anjum Faraz	Rapeseed and Mustard: Diseases, Etiology, and Management	2021	CRC Press, Taylor & Francis Group
12	Muhammad Kaleem Sarwar, Imran Ul Haq, Siddra Ijaz, and Nabeeha Aslam Khan	Application of Precision Agriculture: Mitigating the effect of Climate Change on Winter Fodders	2021	CRC Press, Taylor & Francis Group
13	**Imran Ul Haq**, Muhammad Kaleem Sarwar, and Zia Mohyuddin	Microbial Determinants in Silage Rotting	2021	CRC Press, Taylor & Francis Group
14	Siddra Ijaz, **Imran Ul Haq**, and Maria Babar	Reproductive Biology, Botany, and Taxonomical Description of Dalbergia sissoo	2021	CRC Press, Taylor & Francis Group
15	**Imran Ul Haq**, Siddra Ijaz, and Muhammad Zunair Latif	Diseases of Dalbergia sissoo: Etiology and Integrated Management of Economically Important Diseases	2021	CRC Press, Taylor & Francis Group
16	**Imran Ul Haq**, Siddra Ijaz, and Nabeeha Aslam Khan	Environmental Influences and Productivity of Dalbergia sissoo	2021	CRC Press, Taylor & Francis Group
17	**Imran Ul Haq**, Muhammad Kaleem	Socio- economic Preview of Dalbergia sissoo in the Indian Subcontinent	2021	CRC Press, Taylor & Francis Group

	Sarwar, and Anjum Faraz			
18	**Imran Ul Haq** and Siddra Ijaz	History and Recent Trends in Plant Disease Control: An Overview	2020	Springer Nature
19	**Imran Ul Haq**, Muhammad Kaleem Sarwar, Anjum Faraz, and Muhammad Zunair Latif	Synthetic Chemicals: Major Component of Plant Disease Management	2020	Springer Nature
20	**Imran Ul Haq**, Siddra Ijaz and Nabeeha Aslam Khan	Application of Nanotechnology for Integrated Plant Disease Management	2020	Springer Nature
21	Siddra Ijaz and **Imran Ul Haq**	Genome Editing Technologies for Resistance Against Phytopathogens: Principles, Applications and Future Prospects	2020	Springer Nature
22	**Imran Ul Haq**, Siddra Ijaz, Qaiser Shakeel, Guoqing Li, Long Yang, Ifrah Rashid	Fungi: Cynosure of Ornamental Palms Diseases	2020	Springer Nature
23	**Imran Ul Haq**, and Nabeeha Aslam Khan	Fungal Disease of Date Palm (Phoenix dactylifera): Etiology and Management	2020	Springer Nature
24	Muhammad Kaleem Sarwar, Rashda Naheed, Siddra Ijaz, **Imran Ul Haq**	Fungal Diseases of Lady Palm (Rhapis excelsa) and Fishtail Palm (Caryota mitis)	2020	Springer Nature
25	**Imran Ul Haq** and Siddra Ijaz	Use of Metallic Nanoparticles and Nanoformulations as Nanofungicides for sustainable disease management in plants	2019	Springer Nature

20c. List of BookS Edited

S#	Editors	Title	Year	Publisher's Details
1	Imran Ul Haq and Siddra Ijaz	Trends in Plant Disease Assessment	2022	Springer, Nature. UK.
2	Imran Ul Haq, Siddra Ijaz and Iqrar Ahmad Khan	Phytomycology and Molecular Biology of Plant Pathogen Interactions	2022	CRC Press. U.S. Taylor and Francis group
3	Imran Ul Haq and Siddra Ijaz	Sustainable Winter Fodder; Production, Challenges, and Prospects	2021	CRC Press, Taylor and Francis group
4	Siddra Ijaz and Imran Ul Haq	Dalbergia sissoo: Biology, Ecology and Sustainable Agroforestry. CRC Press	2021	CRC Press, Taylor and Francis group
5	Imran Ul Haq and Siddra Ijaz	Plant Disease Management Strategies for Sustainable Agriculture through Traditional and Modern Approaches	2020	Springer, Nature. UK.
6	Imran Ul Haq and Siddra Ijaz	Etiology and Integrated Management of Economically Important Fungal Diseases of Ornamental Palms	2020	Springer, Nature. UK.

20d. List of Research Papers Published in HEC Recognized Foreign Journals of W Category (HJRS)

S #	Authors	Title	Year	Journal Detail	Impact Factor
1	Habib Z, Ijaz S, Haq IU, Hashem A, Avila-Quezada GD, Abd_Allah EF and Khan NA	Empirical phenotyping and genome-wide association study reveal the association of panicle architecture with yield in *Chenopodium quinoa*.	2024	*Front. Microbiol.* 15:1349239.	4.658
2	Siddra Ijaz Imran Ul Haq Zakia Habib Muti-Ullah Irfan Afzal Nasir Ahmad Khan, Abdullah	Genome-wide identification, and gene expression analysis of NBS-LRR domain containing R genes in *Chenopodium quinoa* for unveiling the dynamic contribution in plant immunity against *Cercospora* cf. *Chenopodii.*	2024	Physiology and Molecular Biology of Plants. 30(7):1129–1144	3.4

3	H. A Razzaq, S Ijaz, Imran Ul Haq, FS Awan	In silico Prediction and Analysis of Potential Off-Targets and Off-Target Mutation Detection in StERF3-Gene Edited Potato Plants	2023	Phyton-international journal of experimental botany	1.407
4	Siddra Ijaz, **Imran Ul Haq**, Riffat Malik , Ghalia Nadeem , Hayssam M. Ali and Sukhwinder Kaur	In silico characterization of differentially expressed short-read nucleotide sequences identified in dieback stress-induced transcriptomic analysis reveals their role as antimicrobial peptides	2023	Frontiers in Plant Science 14:1168221 DOI 10.3389/fpls.2023.1168221	6.627
5	**Imran Ul Haq** , Siddra Ijaz , Muhammad Zunair Latif , Iqrar Ahmad Khan , Hayssam M. Ali and Sukhwinder Kaur	Phylogenomics resolves the etiology of dieback disease and deciphers *Ceratocystis dalbergicans* sp. nov., causal agent of *Dalbergia sissoo* decline	2023	Frontiers in Genetics, 14:1136688 DOI 10.3389/fgene.2023.1136688	4.772
6	Maria Babar, Siddra Ijaz, **Imran Ul Haq**, and Muhammad Sarwar Khan	Development of Molecular Marker Linked with Cercospora Leaf Spot (CLS) Disease Resistance in Vigna radiata, Cloning, and Expression for Evaluating Antifungal Activity against Cercospora canescens	2023	Phyton-International Journal of Experimental Botany, 92(4), 1289-1300 https://doi.org/10.32604/phyton.2023.026469	1.407
7	Bukhtawer Nasir, Siddra Ijaz, **Imran Ul Haq**, Nasir Ahmad Khan, Amer Habib	Identification, in silico characterization, and expression analysis of NBS-LRR class of R genes against stem and crown rot disease in Trifolium alexandrinum L	2023	SCIENCEASIA 49 (1) : 85–93	0.995
8	**Imran Ul Haq**, Siddra Ijaz, and Hafiza Arooj Razzaq	Mutation introduced in DDTFR10/A gene of ethylene response element-binding protein (EREBP) family through CRISPR/ Cas9 genome editing confers	2023	Physiol Mol Biol Plants https://doi.org/10.1007/s12298-022-01273-6	3.023

		increased Fusarium wilt tolerance in tomato			
9	**Imran Ul Haq**, Siddra Ijaz, Nabeeha Aslam Khan, Anjum Faraz, and Muhammad Kaleem Sarwar	Neopestalotiopsis guajavicola sp. nov. causing a new leaf spot on Psidium guajava in Pakistan	2023	Journal of Plant Pathology https://doi.org/10.1007/s42161-022-01294-w	2.643
10	**Imran Ul Haq,** Siddra Ijaz, Nabeeha Aslam Khan, Iqrar Ahmad Khan, Hayssam M. Ali, and Ernesto A. Moya-Elizondo	Integrative Pathogenicity Assay and Operational Taxonomy-Based Detection of New Forma Specialis of Fusarium oxysporum Causing Datepalm Wilt	2022	Plants, 11, no. 19: 2643	**4.658**
11	Siddra Ijaz, **Imran Ul Haq,** Iqrar Ahmad Khan, Hayssam M. Ali, Sukhwinder Kaur, Hafiza Arooj Razzaq	Identification of resistance gene analogs of the NBS-LRR family through transcriptome probing and in silico prediction of the expressome of Dalbergia sissoo under dieback disease stress	2022	Frontiers in Genetics, 7;13:1036029	**4.772**
12	Hafiza Arooj Razzaq, Siddra Ijaz, **Imran Ul Haq**, Iqrar Ahmad Khan	Functional inhibition of the StERF3 gene by dual targeting through CRISPR/Cas9 enhances resistance to the late blight disease in Solanum tuberosum L	2022	Molecular Biology Reports, https://doi.org/10.1007/s11033-022-07958-1	**2.742**
13	Siddra Ijaz, **Imran Ul Haq** and Bukhtawer Nasir	In silico identification of expressed sequence tags based simple sequence repeats (EST-SSRs) markers in Trifolium species	2020	SCIENCEASIA, 46: 6-10	**0.615**
14	**Imran Ul Haq** and Siddra Ijaz	Assessment of genetic diversity based on ISSR markers in neopestalotiopsis species collected from guava (Psidium guajava l.) Plants	2019	Appl. Ecol. Environ. Res. 17:11803-11811	**0.712**

		affected with canker disease in Pakistan			
15	**Imran Ul Haq**, Siddra Ijaz, and M. Z. Latif	Multilocus sequence typing (MLST) based genetic variation analysis of shisham dieback associated strains of Ceratocystis fimbriata sensu lato species complex in Pakistan.	2019	Appl. Ecol. Environ. Res. 17:12573-12582.	**0.712**
16	Siddra Ijaz, **Imran Ul Haq**, Hafiza Arooj Razzaq, Bukhtawer Nasir, and Maria Babar	ISSR-based population genetics study for tagging a diverse population of shisham (Dalbergia sissoo) in Pakistan	2019	Appl. Ecol. Environ. Res. 17: 5851-5861	**0.712**
17	Siddra Ijaz, **Imran Ul Haq**, and M. Babar	Jukes-cantor evolutionary model based phylogenetic relationship of economically important ornamental palms using maximum likelihood approach	2019	Appl. Ecol. Environ. Res. 17: 14859-14865.	**0.712**

20e. List of Research papers Published in HEC Recognized Foreign Journals of X Category (HJRS)

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Riaz, S., I.U. Haq, A. Abbas and S. Majeed. .	Investigation of Pathogenic Potential of Native Isolates of *Beauveria bassiana* for the Management of Guava Fruit Fly (*Bacterocera zonata)*.	2024	Pakistan Journal of Agricultural Sciences. 61: 1023-1031.	0.856
2	Sarwar, M.K., I.U. Haq, S. Ijaz, N. Javed and N. Akbar.	Molecular and Analytical Approaches Based Characterization of Aflatoxins Producing *Aspergillus* Species Affecting Groundnut.	2024	Pakistan Journal of Agricultural Sciences 61:931-940.	0.856

3	Muhammad Zunair Latif, Imran Ul Haq, Siddra Ijaz, Amer Habib and Iqrar Ahmad Khan	Etiology and management of shisham die-back disease in Pakistan forests	2023	Pak. J. Agri. Sci.10.21162/PAKJAS/23.103 - 2023-08-11	0.856
4	Muhammad Zunair Latif, Imran ul Haq, Siddra Ijaz and Muhammad Kaleem Sarwar	Morphology, pathogenicity and physiology of Ceratocystis fimbriata causing black rot disease of Colocasia esculenta	2023	Pak. J. Agri. Sci. Volume 60 (Issue 2);10.21162/PAKJAS/23.635	0.856
5	Nabeeha Aslam Khan, Abdul Rehman, Imran Ul 6Haq and Iqrar hmad Khan	Traditional pathology and phylogenetic networking confirm the pathogen causing date palm wilt	2023	Pak. J. Agri. Sci. Volume 60(Issue 2); 10.21162/PAKJAS/23.2	0.856
6	Shamim Akhtar, Muhammad Jalal Arif, Muhammad Dildar Gogi & **Imran ul Haq**	Impact of various oviposition substrates on biology of pink bollworm Pectinophora gossypiella (Lepidoptera: Gelechiidae) under laboratory conditions	2022	International Journal of Tropical Insect Science, https://doi.org/10.1007/s42690-022-00829-z	**1.020**
7	Maria Babar, Siddra Ijaz, **Imran Ul Haq**, Iqrar Ahmad Khan	Morpho-functional characterization, in vitro study, and tripartite interaction assay evaluate the potential of biosynthesized silver nanoparticles to manage Cercospora leaf spot disease in Vigna radiata	2022	Journal of Plant Pathology	**2.643**
8	Bukhtawer Nasir, Siddra Ijaz, **Imran Ul Haq**, Nasir Ahmad Khan, Amer Habib	Identification, in silico characterization, and expression analysis of NBS-LRR class of R genes against stem and crown rot disease in Trifolium alexandrinum L	2022	SCIENCEASIA	**0.995**
9	Yasin,O., Imran Ul Haq, Siddra Ijaz, A. Habib, R. W. K. Qadri.	The role of different intercrops in guava orchards for dieback disease development	2022	Xi'an Shiyou Daxue Xuebao (Ziran Kexue Ban)/Journal of Xi'an Shiyou University,	

		and inoculum buildup in Pakistan.		Natural Sciences Edition. 65: 181-198.	
10	Iqra, Imran Ul Haq, R. W. K. Qadri, L. Amrao and Siddra Ijaz.	Effect of environmental conditions (temperature and precipitation) on severity of guava die-back caused by Colletotrichum spp. under climatic conditions of Pakistan	2021	Journal of Plant Pathology, 45:1-12	**2.643**
11	**Imran Ul Haq**, S. Ijaz, A. Faraz, M. K. Sarwar and N. A. Khan	First report of Curvularia leaf spot of Chamaedorea seifrizii caused by Curvularia lunata in Pakistan	2021	Journal of Plant Pathology, 103, 2: 713-713.	**2.643**
12	**Imran Ul Haq**, Siddra Ijaz, Anjum Faraz, and Nabeeha Aslam Khan	Characterization of Curvularia buchloes causing leaf spots on Medicago sativa L. (alfalfa) and its management through fungicides	2021	J. Plant Dis. Prot. 128:493-500.	**1.928**
13	**Imran Ul Haq**, Siddra Ijaz, Anjum Faraz, and Nabeeha Aslam Khan	First report of Curvularia lunata leaf spot on Trifolium alexandrinum in Pakistan	2021	Journal of Plant Pathology, 103:373-373	**2.643**
14	Anjum Faraz, **Imran Ul Haq** and Siddra Ijaz	First report of Sclerotinia trifoliorum stem and crown rot on Trifolium alexandrinum in Pakistan	2021	Journal of Plant Pathology, 103:735-736	**2.643**
15	Bukhtawer Nasir, Siddra Ijaz, Faisal Saeed Awan and **Imran Ul Haq**	Genome-wide probing of NBS-LRR encoding genes in red clover (Trifolium pratense L) for the identification of resistance gene analogs in Trifolium alexandrinum L.	2021	SCIENCEASIA 47: 425-433.	**0.995**
16	Abbas, W., N. Javed, Imran Ul Haq and S. Ahmed	Virulence potential of two entomopathogenic nematodes, their associated bacteria, and	2021	Int. J. Trop. Insect Sci.2021:1-7. doi: 10.1007/s42690-021-00571-y	**1.020**

		its metabolites to larvae of Pieris brassicae L. (Lepidoptera, Pieridae) in cabbage under greenhouse and field bioassays			
17	Abbas, W., N. Javed, **Imran Ul Haq** and S. Ahmed	Pathogenicity of Entomopathogenic nematodes against cabbage butterfly (Pieris brassicae) Linnaeus (Lepidoptera: Pieridae) in laboratory conditions.	2021	Int. J. Trop. Insect Sci. 41: 525-531	**1.020**
18	**Imran Ul Haq**, Siddra Ijaz, A. Faraz, and N. A. Khan	First report of Curvularia tuberculata leaf spot on Archontophoenix alexandrae in Pakistan	2020	Journal of Plant Pathology, 102:1329-1329	**1.729**
19	**Imran Ul Haq**, Siddra Ijaz, A. Faraz, and N. A. Khan	Potted ornamental Chamaedorea seifrizii, Chamaedorea cataractarum and Rhapis excels palm species: hosts for the opportunistic fungal pathogen	2020	Pak. J. Agri. Sci. 57:433-437	**0.748**
20	**Imran Ul Haq**, Siddra Ijaz, A. Faraz, M. K. Sarwar, M. Z. Latif and N. A. Khan	First report of leaf spots in Caryota mitis L. caused by Alternaria alstroemeriae in Pakistan.	2020	Journal of Plant Pathology, 1	**1.729**
21	Imran Ul Haq, S. Ijaz, A. Faraz, N. A. Khan, M. Z. Latif, M. K. Sarwar and B. Nasir	First report of Chamaedorea cataractarum (Cat palm) wilt caused by Fusarium solani in Pakistan	2020	Journal of Plant Pathology, 102: 243-243	**1.729**
22	Anjum, F., **Imran Ul Haq**, Siddra Ijaz, F. Mubeen, A. Habib, R. W. K. Qadri and N. A. Khan	Morphgenomics based identification of Fusarium proliferatum causing Syagrus romanzoffiana wilt and exploitation of antifungal potential of	2020	Journal of Plant Pathology, 102: 1097-1105	**1.729**

		Trichoderma species against this pathogen			
23	Naeem, A. K., **Imran Ul Haq**, Siddra Ijaz, S. A. Khan, R. Waseem and K. Qadri	Unveiling the Fusarium proliferatum association with Ficus dieback from Punjab, Pakistan	2020	Pak. J. Agric. Sci. 57:1337-1344	**0.748**

20f. List of Research papers Published in HEC Recognized Foreign Journals of Y Category (HJRS)

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	-	-	-	-	-

20g. List of Research papers Published in HEC Recognized Local Journals of W Category (HJRS)

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	-	-	-	-	-

20h. List of Research papers Published in HEC Recognized Local Journals of X Category (HJRS)

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Anjum Faraz A., **Imran Ul Haq**, Siddra Ijaz, S. T. Sahi and I. Khan	Phylogenomic appraisal of morpho-pathogenicity try-out based identified pathogen causing stem and crown rot in Trifolium alexandrinum L.	2022	Pak. J. Agri. Sci. 59(3), 493-501	**0.856**
2	Hafiza Arooj Razzaq, Siddra Ijaz, F. S. Awan and **Imran Ul Haq**	Establishment of in vitro regeneration system for genome editing in potato cv. Lady Rosetta	2021	Pak. J. Agri. Sci. 58(6):1795-1804	**0.856**
3	Latif M. Z., **Imran Ul Haq**, Siddra Ijaz, A. Habib and Iqrar Ahmad Khan.	Assessment of the distribution, incidence, and severity of Shisham (Dalbergia sissoo) dieback disease in Pakistan	2021	Pak. J. Agri. Sci. 58(6): 1825-1532.	**0.856**

4	Maria Babar, Siddra Ijaz, M. S. Khan and **Imran Ul Haq**	Computational genomics based probing of resistance gene analogs (RGAs) in mungbean under cercospora leaf spot disease challenge	2021	Pak. J. Agri. Sci. 58(5): 1523-1536.	**0.856**
5	**Imran Ul Haq**, Siddra Ijaz and N. A. Khan.	Genealogical concordance of phylogenetic species recognition based delimitation of Neopestalotiopsis species associated with leaf spots and fruit canker disease affected guava plants	2021	Pak. J. Agri. Sci. 58(4),1301-1313;2021	**0.856**

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	-	-	-	-	-

20i. List of Research papers Published in HEC Recognized Local Journals of Y Category (HJRS)

S#	Authors	Title	Year	Journal Detail	Impact Factor
1					

21. List of Seminars/Conferences attended

S#	Organizers	Conference Title/Theme	Year	Presentation (oral/poster)	Other Details
1	Department of Forestry and range Management, University of Agriculture Faisalabad, Pakistan	Agroforestry on Problematic Soil in Faisalabad and Adjoining District.	March 28, 2019		
2	Department of Entomology and Pakistan Entomological Society, University of Agriculture	International Entomological Congress-2019	April 08-10, 2019		

	Faisalabad, Pakistan				
3	Institute of Pharmacy, Physiology and Pharmacology, University of Agriculture Faisalabad, Pakistan	One-day symposium on Nanomedicine: Current scenario and Future Perspectives	August 6, **2019**		
4	University of the Poonch, Rawalakot, Pakistan	6th International Conference on Sustainable Agriculture in Changing Climate: Strategies and Management	June 19-21, **2019**		
5	Pakistan Phytopathological Society, November 21-23, 2021.	7th International Conference "Phytopathology: Current Scenario and Future Prospects"	2021		
6	World Data Center of Microorganisms (WDCM), and supported by World Federation for Culture Collections (WFCC). Held on 16 December 2021.	Online workshop of "WFCC and WDCM of Microorganisms on Global Catalogue of Microorganisms and Global Microbial Type Strain Genome and Microbiome Sequencing.	2021		
7	World Data Center for Microorganisms (WDCM), Beijing, April 15-17, 2020.	Participated in the "Tenth Symposium of World Data Center for Microorganisms (WDCM), Beijing, April 15-17, 2020.			

8	Institute of Microbiology, Chinese Academy of Sciences (IMCAS) and World Data Center of Microorganisms (WDCM), and supported by Chinese Academy of Sciences and World Federation for Culture Collections (WFCC).	online workshop on "Resources for helping culture collections during COVID-19 epidemic"	2020		

22. List of Seminars/Conferences/Trainings arranged

S#	Organizers	Role	Year	Other Details
1	University filed staff training on plant diseases	Trainer/resource person	2022	
2	Wheat sowing campaign	District coordinator	2021&22	

23. List of Graduate Students Supervised

23a. List of Ph.D. Students Supervised as Major Supervisor

S. #	Name of Student	Year	Deptt.	Title	Supervisory Committee
1	Muhmmad Kaleem Sarwar	**2023**	Plant Pathology	Molecular and analytical approaches based characterization of aflatoxins producing *Aspergillus* species affecting groundnut and their management	Supervisor
2	Zunair Latif	**2023**	Plant Pathology	Shisham dieback disease; operational taxonomy of fungal pathogen(s) and disease management	Supervisor
3	Anjum Faraz	2022	Plant Pathology	Management of Stem and crow rot of Berseem Clover (*Trifolium alexandrinum)* in Pakistan	Supervisor
4	Owais Yasin	2022	Plant Pathology	Development of integrated disease management plan for guava die back in Pakistan	Supervisor

5	Iqra	2022	Plant Pathology	Characterization of *Colletotrichum spp*. associated with guava dieback in Pakistan using pathological and molecular approaches	Supervisor
6	Aisha Naeem Khalid	2019	Plant Pathology	Molecular characterization of fungal pathogen associated with Ficus Anthracnose and its integrated management.	Supervisor

23b. List of Ph.D. Students Supervised as Member Supervisory Committee

S. #	Name of Student	Year	Deptt.	Title	Supervisory Committee
1	Bukhtawer Nasir	2022	CABB	Functional characterization and expression analysis of NBS-LRR class of R genes against stem and crown rot disease in Trifolium alexandrinum L	Member

23c. List of M.Sc. (Hons.)/M.Phil. Students Supervised as Major Supervisor

S. #	Name of Student	Year	Deptt.	Title	Supervisory Committee
1	Usama Ahmad (2013-ag-3571)	2019	PP	Molecular profiling and synergism assessment of Colletotrichum and Neopestalotiopsis species in Guava fruit canker disease prognosis and nanotechnology based anti-fungal therapy	Supervisor
2	Umar Muaz 2011-ag-2149	2019	PP	Polyphasic taxonomy of Fusarium causing wilt in cut flower crops and its chemical management.	Supervisor
3	Abdul Wahid 2017-ag-5443	2019	PP	Phylogenetic signals based genomic characterization of Fusarium spp, associated with the wilt of gladiolus and its biological management	Supervisor
4	Rabia Tahir Bajwa 2017-ag-171	2019	PP	DNA barcoding of selected Trichoderma species and assessment of their antagonistic potential against Fusarium species causing wilt in Chrysanthemum and marigold.	Supervisor
5	M. shaoor Yaseen 2013-ag-2809	2019	PP	Post-harvest rotting of bell pepper caused by Colletotrichum Spp. Its physiology and chemical management	Supervisor
6	Tanzeela Irshad 2014-ag-6080	2020	PP	Microbial synthesis of nanoparticles using trichoderma spp and evaluation of their antifungal potential against fusarium spp causing wilt in cut flower	supervisor

7	Sidra Saleem 2014-ag-5516	2020	PP	Assessing the effect of integrated management on temporal dynamics of curvularia buchloes in alfalfa using chemo, bio, & nanoparticles based therapeutic control	supervisor
8	Honey Arooj 2014-ag-5451	2020	PP	Etiological description of sclerotinia sclerotium causing stem and crown rot in alfalfa using constellation of morphological, cultural and genetic attributes and screening against pathogen	supervisor
9	Saher Ijaz 2018-ag-3656	2020	PP	Integrated management using biological and chemical control measures for curvularia leaf spot in trifolium alexandrinum	supervisor
10	Iqra Iqbal 2014-ag-5377	2020	PP	Morpho-cultural and genomics based etiology determination and screening of curvularia leaf spot in Berseem	supervisor
11	Muhammad Amir 2018-ag-148	2020	PP	Isolation and identification of aflatoxins from maiz (Zea mays L.) and their biocontrol	Supervisor
12	Abdul Manan 2013-ag-2406	2021	PP	Trade/mode strategies for integrated management of fusarium wilt disease in cut-flowers	Supervisor
13	Muhammad Awais Tariq 2015-ag-6692	2021	PP	Survival and viability analysis of sclerotinia trifoiorum isolates associated with stem and crown rot of berseem under various environmental conditions and management through nanoparticles	Supervisor
14	Suleman Khan 2019-ag-3557	2021	PP	Morpho-pathological and genomics-based identification of the Aspergillus species infecting pomegranate with nano-driven solution	Supervisor
15	Muhammad Farooq Haider 2019-ag-167	2021	PP	Assessment of antagonoistic potential of trichoderma spp. against neopestalotiopsis spp. causing guava scab in psidium guajava L. and the development of trichoderma formulations for its management	Supervisor
16	Mehreen Munir 2015-ag-6346	2021	PP	Exploration of date palm fruit associated fungal community and nanotechnology-based management	Supervisor
17	Shehla Riaz 2019-ag-156	2021	PP	In-vitro pathogenicity test, virulence and aggressiveness analysis of fusarium isolates associated with date palm wilt in pakistan	Supervisor
18	Muhammad Ashfaq	2022	PP	Etiology and chemical management of powdery mildew of guava (psidium guajava)	Supervisor

	Yousaf 2016-ag-6427				
19	Hafiz Muhammad Younis	2022	PP	Morphological and molecular taxonomic study of graphiola spp. causing leaf spot on date palm	Supervisor
20	Muhammad Madni 2020-ag-173	2022	PP	Graphiola leaf spot disease assessment on date palm in Punjab and its management	Supervisor
21	Muhammad Shahid Shazab Khan 2016-ag-6494	2022	PP	Gray mold management on hydroponics wheat seed sprouting's for safe and healthy animal feed production	Supervisor
22	Salahuddin 2016-ag-6234	2022	PP	Chemical management of gray mould (Botrytis cinerea) in Pomegranate	Supervisor
23	Usama Amin 2020-ag-184	2022	PP	Preparation and assessment of trichoderma longibrachiatum formulation based against stem and crown rot of berseem	Supervisor
24	Zainab malik 2020-ag-180	2022	PP	Testing of trichoderma harzianum based formulation as biocontrol agent for wilt inducing fusarium spp.	Supervisor

23d. List of M.Sc. (Hons.)/M.Phil. Students Supervised as Member Supervisory Committee

S. #	Name of Student	Year	Deptt.	Title	Supervisory Committee
1	Ali Haider 2020-ag-178	2022	PP	Management of sunflower charcoal rot disease problem through novel fungicides and its impact on plant attribute	Member
2	Zakia Habib 2018-ag-4445	2020	CABB	Genome wide analysis of DNA binding one zinc finger (DOF) Family in *VIGNA* species.	Member
3	Samara Mukhtar 2018-ag-4444	2020	CABB	Marker assisted screening of F3 (Segregating Material II) population of Mungbean for Yellow Mosaic Virus Disease (MYMVD) resistance.	Member
4	Gohar Azeem 2018-ag-4044	2020	CABB	Marker assisted screening of F4 (Segregating Material I) population of Mungbean for Yellow Mosaic Virus Disease (MYMVD) resistance genotypes.	Member

5	Aqsa Latif 2015-ag-7056	2021	CABB	Marker-assisted selection of M4 population (segregating material I) of mungbean for Yellow Mosaic Virus Disease (MYMVD) resistance.	Member
6	Hira Khalid 2013-ag-2374	2021	CABB	Cloning of sgRNA expression cassette of DDTFR10/A gene of *Solanum lycopersicum* for CRISPR/Cas9 guided genome editing.	Member
7	Bilal Mujtaba 2019-ag-2510	2021	CABB	DNA profiling of mungbean population (M4) of segregating material I based on SCAR and RGAS markers linked to mungbean yellow mosaic virus (MYMVD) resistance.	Member
8	Ayesha Javaid 2019-ag-3576	2021	CABB	Fingerprint identification and analysis of berseem germplasm using expressed sequence tags based simple sequence repeats (EST-SSRs) molecular markers.	Member
9	Hafsa Ahmad Nawaz 2015-ag-5446	2021	CABB	Marker-assisted selection of M3 population (segregating material II) of mungbean for Yellow Mosaic Virus Disease (MYMVD) resistance.	Member
10	Mahwish Mustafa 2015-ag-5458	2021	CABB	DNA profiling of mungbean population (M3) of segregating material II based on SCAR and RGAs markers linked to mungbean yellow mosaic virus (MYMVD) resistance.	Member
11	Sadia Ali 2020-ag-1459	2022	CABB	DNA barcoding of an endangered plant species, *Salvadora oleoides*.	Member
12	Maham Farid 2016-ag-6214	2022	CABB	ISSR based DNA profiling of *Skimmia laureola* population in Pakistan.	Member
13	Muhammad Asif 2020-ag-1476	2022	CABB	Assessing the geographic intraspecific variation of endangered plant species, *Fagonia cretica* and *Tecomella undulata*.	Member

24. Research Projects

24a. Research Projects completed

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1	Integrated Pest Management Approach to Mitigate the Fruit Flies Issue in Vegetables and Fruits through Biocontrol Agents	Team Leader/ Principal Investigator	2021-2024	32.360 Million Rs	PARB

2	Evaluation and management of indigenous date palm genetic resources for economic traits, Fusarium wilt and red palm weevil	Team Leader/ Principal Investigator	2019-2022	38.553 Million Rs	PARB
3	Etiology and integrated management of declining perennial evergreen ornamental plants in Pakistan	Principal Investigator	2015-2017	6.67 Million Rs	Higher Education Commission (HEC), Pakistan
4	Improvement of Berseem clover (Trifolium alexandrinum) seed quality by managing fungal seed infections and infestations with a special emphasis on stem and crown rot	Principal Investigator	2016-2018	$USD75000 and 5.303 Million Rs	USPCAS-AFS and PARB
5	Establishment of a low cost fungal culture bank	Principal Investigator	2017	1.67 Million Rs	ORIC, UAF
6	Fusarium wilt of cut flower crops (Gladiolus, Mari Gold and Chrysanthemum): selection for resistance and sustainable control	Principal Investigator	2017-2020	1.8 Million Rs	Higher Education Commission (HEC), Pakistan
7	Resistance gene analogues based molecular identification for dieback disease resistance in Shisham	CO-Principal Investigator		$USD75000 and 6.373 Million Rs	USPCAS-AFS and PARB
8	Integrated management of Guava (Psidium guajava L.) Dieback in Pakistan	CO-Principal Investigator	2016-2018	$USD75000 and 4.882 Million Rs	USPCAS-AFS and PARB
9	Transcriptomics based understanding of Cercospora Leaf Spot Resistance in mungbean and disease management through nanotechnology	CO-Principal Investigator	2018-2021	2.21 Million Rs	Higher Education Commission (HEC), Pakistan

10	Facility of thermalcycler for the molecular identification of fungal pathogens	CO-Principal Investigator	2017	1.00 Million Rs	ORIC, UAF

24b. Research Projects Ongoing

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1.	Evaluation and management of indigenous date palm genetic resources for economic traits, Fusarium wilt and red palm weevil	Team Leader/ Principal Investigator	2019-2022	38.553 Million Rs	PARB
2.	Integrated Pest Management Approach to Mitigate the Fruit Flies Issue in Vegetables and Fruits through Biocontrol Agents	Team Leader/ Principal Investigator	2021-2024	32.360 Million Rs	PARB
3	Combined application of microbial antagonists and chemicals to avoid Clogging of emitters in drip irrigation system	Principal Investigator	2023-2026	6.9 million Rs	ALP-PARC -NR282
4	Biological control of Potato diseases, including Fusarium Dry rot, scab, and disease caused by Phoma spp	Principal Investigator	2024-2025	4.88 million Rs.	Pepsi Cola International (Pvt.) Ltd. Lahore
5.	Population dynamics studies and Management of Fall army worm on maize crop	Team Leader/ Principal Investigator	2022-2025	41.000 Million Rs	PARB
6	DNA barcoding of Quinoa (Chenopodium quinoa) germplasm and its associated pathogens for taxonomic identification to improve crop diversification	CO-Principal Investigator	2022-2024	10.010 Million Rs	ALP PARC

24c. Research Projects in pipeline

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1.					

25. Awards/Distinctions

S. #	Name of Award/Distinction	Year	Details
1.			

26. Academic/Professional collaboration

S#	Collaborating agencies	Nature of Collaboration
National		
1.	Rafhan Maize products company	PARB funded research project
2.	KAnzo-ag	-do- (third party evaluation of bioproduct)
3.	Bayer	-do-
International		
1.	Pepsi Cola International	Collaborator

27. Outreach/Advisory Services (Farmers' field days, Zari mella, Farmers' moot meetings, Farmers' requests/problems, Agricultural exhibitions, and campaigns)

S. #	Name of Activity	Place	Date	Details
1.	Wheat campaign	Hafizabad	2021-24	
3.	Academic co-advisor Spring semester 2019-2020	UAF	20192020	