

## CURRICULUM VITAE

1. Name: Dr. Muhammad Amjad Ali
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4. Date of Birth: 01-04-1983
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8. Countries Visited: Austria, Hungary, Czech Republic, Germany, Turkey, Switzerland, Belgium, Netherlands, South Korea, Italy,
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### 14. EDUCATIONAL QUALIFICATION

S#	Examination	Year	Division	Subjects
1.	Matric	1999	1 <sup>st</sup>	Science
2.	F.Sc.	2001	1 <sup>st</sup>	Pre-medical
3.	B.Sc. (Hons.) Agri.	2005	1 <sup>st</sup>	Agriculture-Plant Breeding and Genetics
4.	M.Sc. (Hons.) Agri.	2007	1 <sup>st</sup>	Plant Breeding and Genetics
5.	Ph.D.	2012	Passed with Distinction	Molecular Plant Pathology

**Title of M.Sc. Thesis:** Evaluation of gene action involved in the inheritance of some agronomic traits in upland cotton

**Name of Supervisor:** Dr. Iftikhar Ahmed Khan

**Title of Ph.D. Thesis:** Induction of resistance against cyst nematodes by modifying gene expression in syncytia

**Name of Supervisor:** Assoc. Prof. Dr. Holger Bohlmann

### 15. OTHER CERTIFICATES/DIPLOMAS:

S#	Name of Diploma etc.	Year	Source	Remarks
1.				
2.				
3.				

#### 16. PROFESSIONAL TRAININGS:

S#	Name of Training	Year	Institute
	One-day training workshop of NAEAC program evaluations	January 01, 2024	National Agricultural Education Accreditation Council (NAEAC), HEC, Pakistan
	3 Days hands on Training workshop on “NGS Data Analysis: Basics and Advances”	13-15 December 2022.	Department of Bioinformatics and Biotechnology, GC University, Faisalabad
1	Two-day workshop on “Promoting Research Excellence in Academics across Pakistan” (1st and 2nd February, 2022)	2022	Higher Education Commission, Pakistan in Collaboration with Elsevier Researcher Academy
2	One day workshop on “Empowering knowledge on ethical, on Wednesday 08 June,	2022	APAC Customer Success Hub, Elsevier Researcher Academy On Campus
3	One day Workshop on Laboratory Biosafety	2019	Department of Plant Pathology, University of Agriculture, Faisalabad in collaboration with Pakistan Biological Safety Association (PBSA) on February 11.
4	Four-day workshop on Hybrid Course Design & Development	2016	U.S-Pakistan Centre for Advanced Studies in Agriculture and Food Security on October 18-21 at UAF
5	One day international seminar on “Prospects of Bulbous Flower Production in Pakistan”	2016	Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan in collaboration with Greenworks, Lahore
6	Two days workshop on “SPS Compliance through the fresh produce supply chain”	2016	Phytosanitary risk management program in Pakistan CAB international, Central and West Asia on 3 & 4 August at UAF

#### 18. EXPERIENCE:

RESEARCH				
S#	Designation/ Position	From (dd.mm.yyyy)	To (dd.mm.yyyy)	Total Duration (years.months.days)
1.	National Internee (Vegetable Research Institute AARI)	June 2007	November 2007	6 months
2.	Assistant Research Officer (Barani Agricultural Research Station, Fatehjang, Attock)	11-10-2007	14-11-2008	1y1m3d

3.	Assistant Research Officer (Wheat Research Institute AARI)	15-11-2008	31-10-2009	11m16d
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ACADEMIC				
S#	Designation/ Position	From (dd.mm.yyyy)	To (dd.mm.yyyy)	Total Duration (years.months.days)
1.	Assistant Professor (Department of Bioinformatics and Biotechnology, GC University, Faisalabad)	18-02-2013	13-06-2014	1y3m25d
2.	Assistant Professor (Jointly at the Department of Plant Pathology and CABB, University of Agriculture, Faisalabad)	14-06-2014	27-10-2021	7y4m13d
3.	Associate Professor (Department of Plant Pathology, University of Agriculture, Faisalabad)	28-10-2021	The date (28-04-2025)	3y6m
ADMINISTRATIVE				
S#	Designation/ Position	From (dd.mm.yyyy)	To (dd.mm.yyyy)	Total Duration (years.months.days)
1.	In charge Fruit and Vegetable Project at BARS, Fatehjang, Attock	11-10-2007	14-11-2008	1y1m3d
2.	In charge Departmental Library, Department of Plant Pathology	2015	2023	8 years
	Co-Tutor of Tutorial Group- Rashid Minhas Shaheed III	2014	2022	8 years
	Superintendent of Livestock Assistant Diploma Annual Examinations in 2019 at Toba Tek Singh	25-09-2019	04-10-2019	10 days
	Subject Editor, International Journal of Agriculture and Biology	2020	To date	6 years
	Tutor of Tutorial Group TGM-145	October 2022	to date	2 years 6 months
	Convenor, Departmental QEC Committee			3 years
	Department Focal Person University website			2 years
	Academic Editor, PLoS One			3 years

## 19. OTHER ASSIGNMENTS

1. **Academic Advisor and Co-advisor for the admission** of B.Sc. (Hons) Agriculture in faculty of Agriculture, UAF
2. **Advisor for Interview in Punjab Public Service Commission**, Lahore
3. **Member of Faculty QEC Committee**, Faculty of Agriculture
4. **Facilitated the Annual study tour** of the students of B.Sc. (Hons) Agriculture, from Blochistan Agriculture College, Quetta
5. Received appreciation being the part of **survey team** constituted by Vice Chancellor, UAF to figure out the factors involved in **“Cotton Decline 2015”** and submitted a report on Cotton Decline 2015 to VC office.
6. Member of **Accreditation report committee, 2017** of Department of Plant Pathology
7. Member of **Graduate Group and Curriculum Committee** of MS Seed Science and Technology
8. Was the part of Committee to finalize the **“SEED RULES, 2016”**
9. Member of **synopsis scrutiny committee** of Department of Plant Pathology
10. **Reviewer** of projects from HEC and PSF
11. **Paper setting and Member of Board of Examiners of Ph.D. Comprehensive Examiner** for department of Plant Pathology and Centre of Agricultural Biochemistry and Biotechnology, UAF

## 20. PUBLICATIONS

### 20a. List of Books published

S#	Authors	Title	Year	Publisher's Details
1				
2				

### 20b. List of Book Chapters published

S#	Authors	Title	Year	Publisher's Details
	Faiz, A., A. Parvaiz, G. Mustafa, I. A. Rana, M. A. Ali, M. S. Khan and F. A. Joyia. .	Enhancing Abiotic Stress Tolerance in Tomato: CRISPR-Based Interventions	2025	Springer, Singapore
	<b>Ali, M. A.</b> , A. Zahoor, Z. Niaz, H. Seo, M. Jabran, M. Anas, I. Shafique, M. Usama, A. Abbas.	Bioinformatics and Computation Biology. In “Trends in Plant Biotechnology”	2024	Springer Verlag GMBH, Germany.
	Abbas, A., M. Jabran, A. Zahoor, A. I. M. Hawamda, A. Habib, S. Jamil, M. H. Tanveer, <b>M. A. Ali</b> .	. Plant Proteomic Approaches, Expression of Simple Peptides to Complex Proteins. In “Trends in Plant Biotechnology”	2024	Springer Verlag GMBH, Germany.
	Bakhsh, A., R. Zainab, <b>M. A. Ali</b> , G. Chung, K. S. Golokhvast, M.A. Nawaz,	Genetically modified organisms in Europe: state of affairs, birth, research, and the regulatory process(es).	2023	Academic Press
1	Nawaz, M. A., <b>M. A. Ali</b> , K. S. Golokhvast, A. M. Tsatsakis, M. Chung.	GMOs: History, Economic Status, Risks, and Socio-Economic Regulatory Frameworks	2023	Elsevier Inc
2	Ahmad, H.M., M. Ijaz, F. Azeem, <b>M. A. Ali</b> , S. I. Awan, O. Aziz, M. Abdullah and Mahmood-Ur-Rahman.	The Application of Databases and Bioinformatics for the Genome Editing of Crops	2022	Springer
3	Dababat, A.A., <b>M.A. Ali</b> , R. Singh.	The need for integrated management of the cereal cyst nematodes, Heterodera spp. in Central Western Asia and North Africa	2021	CAB International Publishing
4	Razzaq, A., G. Mustafa, <b>M. A. Ali</b> , M. S. Khan and F. A. Joyia.	CRISPR-mediated genome editing in maize for improved abiotic stress tolerance	2021	CAB International Publishing
5	Azeem, F., F. Rashid, M. Shahzadi, A. Abbas, R. Batool, H. Nadeem, A. Moosa, M. H. Siddique, S. Hussain, <b>M. A. Ali</b> .	Endophytes as guardians of plants against diseases	2020	Springer Nature
6	Saeed, F., M. H. hashmi, M. J. Hosain, <b>M. A. Ali</b> , A. Bakhsh.	Transgenic technologies for efficient insect pest management in crop plants	2020	Academic Press, Elsevier Inc.

7	Ijaz, U., <b>Ali, M.A.</b> , Nadeem, H., Tan, L. and Azeem, F.	RNA World and Heat Stress Tolerance in Plants	2020	John Wiley & Sons, Inc.
8	<b>Ali, M.A.</b> , J. Farooq, A. Batool, A. Zahoor, F. Azeem, A. Mahmood, K. Jabran.	Cotton Production in Pakistan	2019	John Wiley & Sons publishers

#### 20c. List of Books Edited

S#	Editors	Title	Year	Publisher's Details
1				

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
	Arshad, U., Y. Feng, M. Raheel, W. Ashraf, <b>M. A. Ali</b> , I. Naeem, K. Liu.	Elucidating the synergistic activity of biocontrol agents in combating <i>Xanthomonas citri</i> pv. <i>malvacearum</i> and promoting of physio-chemical responses in cotton. (ISI Web of Science IF=2.8)	2025	Physiological and Molecular Plant Pathology, <a href="https://doi.org/10.1016/j.pmpp.2025.102696">https://doi.org/10.1016/j.pmpp.2025.102696</a>	2.8
	Zahoor, A., Z. Niaz, M. Jabran, H. Anwar, A. Abbas, A. Haseeb, G. Mustafa, S. Sun, S.H. Yang, and <b>M.A. Ali</b> .	Assessment of tomato germplasms for <i>Mi-1.2</i> -mediated resistance to <i>Meloidogyne incognita</i> : Integrating in-silico dynamics and bioinformatic approaches.	2025	Physiological and Molecular Plant Pathology, 102714.	2.8
	<b>Ali, M. A.</b> and K. Wiczorek.	2025. Image-Based Lignin Detection in Nematode-Induced Feeding Sites in Arabidopsis Roots.	2025	Bio-protocol 15(9): e5301	1.0
	Anjum, M.N., F.A. Joyia, M.S. Khan and <b>M.A. Ali</b> .	2025. Direct in vitro Multiple Shoot Regeneration of Local Berseem ( <i>Trifolium alexandrinum</i> L.) Cultivars.	2025	Pakistan Journal of Agricultural Sciences. 62: 69-77.	0.856
	Jabran, M., <b>M.A. Ali</b> , T. Acet, A. Zahoor, A. Abbas, U. Arshad, M. Mubashar, M. Naveed, A. Ghafoor & L. Gao.	Growth regulation in bread wheat via novel bioinoculant formulation.	2024	BMC Plant Biology 24, 1039.	4.3
	Batool, A., Farooq, J., Jabran, M., A. Abbas, <b>M.A. Ali</b> .	Exploring Host Resistance and Character Association in Diverse Cotton Germplasm to Manage Cotton Leaf Curl	2024	Journal of Crop Health (Gesunde Pflanzen) 76, 769–782.	2.4

		Disease (CLCuD) at Two Hotspots in Punjab, Pakistan.			
	Hajjaji, A., G. Ibnchekh, T. Chouati, B. Rached, <b>M. A. Ali</b> , N. Rhallabi, R. A. Mhand and F. Mellouki.	. Nematicidal Potential of Enzymatic Extracts of <i>Pseudomonas aeruginosa</i> and <i>Bacillus cereus</i> on Different Stages of Potato Cyst Nematode <i>Globodera pallida</i> .	2024	Journal of Crop Health (Gesunde Pflanzen) 76, 1063–1072.	2.4
	Jabran, M., <b>M.A. Ali</b> , S. Muzammil, A. Zahoor, F. Ali, S. Hussain, G. Muhae-Ud-Din, M. Ijaz, and L. Gao.	Exploring the potential of nanomaterials (NMs) as diagnostic tools and disease resistance for crop pathogens.	2024	Chemical and Biological Technologies in Agriculture, 11, Article 75.	5.2
	Rahman, S., A.R. Ikram, L. AlHusnain, S. Fiaz, M. U. Rafique, <b>M. A. Ali</b> , M. D. F. AlKahtani, K. A. Attia and F. Azeem.	Genome-wide profiling of bZIP transcription factors in <i>Camelina sativa</i> : implications for development and stress response.	2024	BMC Genomic Data 25: 88.	1.9
	Nawaz, M.A, H. K. Khalil, F. Azeem, <b>M.A. Ali</b> , I. E. Pamirsky, K. S. Golokhvast, S. H. Yang, R. M. Atif and G. Chung.	In Silico Comparison of WRKY Transcription Factors in Wild and Cultivated Soybean and Their Co-expression Network Arbitrating Disease Resistance.	2024	Biochemical Genetics.	2.1
	Jabran, M., <b>M.A. Ali</b> , A. Zahoor, G. Muhae-Ud-Din, T. Liu, W. Chen and L. Gao.	Intelligent reprogramming of wheat for enhancement of fungal and nematode disease resistance using advanced molecular techniques.	2023	Frontiers in Plant Sciences. 14:1132699.	4.1
1	Hawamda, A.I.M., S. Reichert, <b>M.A. Ali</b> , M.A. Nawaz, T. Austerlitz, P. Schekahn, A. Abbas, R. Tenhaken, H. Bohlmann	Characterization of an Arabidopsis Defensin-like Gene Conferring Resistance against Nematodes.	2022	Plants	4.67
2	Azeem, F., U. Ijaz, <b>M.A. Ali</b> , S. Hussain, M. Zubair, H. Manzoor, M. Abid, R. Zameer, D.-S. Kim, K. S. Golokhvast, G.	Genome-wide identification and expression profiling of potassium transport related genes in <i>Vigna radiata</i> under abiotic stresses	2021	Plants	4.658

	Chung, G. S. Sun, M.A. Nawaz.				
3	Azeem, F., R. Zameer, M. A. R. Rashid, I. Rasul, S. Ul-Allah, M. H. Siddique, S. Fiaz, A. Raza, A. Younas, A. Rasool, <b>M. A. Ali</b> , S. Anwar, M. H. Siddiqui.	Genome-wide analysis of potassium transport genes in cotton ( <i>Gossypium raimondii</i> ) revealed the role of GrHAK/KUP/KT8, GrAKT2.1 and GrAKT1.1 in response to abiotic stress.	2022	Plant Physiology and Biochemistry	4.27
4	Azeem, F., U. Ijaz, <b>M.A. Ali</b> , S. Hussain, M. Zubair, H. Manzoor, M. Abid, R. Zameer, D.-S. Kim, K. S. Golokhvast, G. Chung, G. S. Sun, M.A. Nawaz	Genome-wide identification and expression profiling of potassium transport related genes in <i>Vigna radiata</i> under abiotic stresses	2021	Plants	4.67
5	Munawar, S., M. Sagir, G. Mustafa, <b>M. A. Ali</b> , A. K. Niazi, A. Parvaiz, F. Yasmin, F. Mansoor, S. Kanwal, M. Rasheed, H. Kehfulvaraa, H. Ali, S. Ullah, A. G.Al-Sehemi, M. Sarwar, F. A. Joyia.	In silico analyses of predicted substitutions in fibrinolytic protein 'Lumbrokinase-6' suggest enhanced activity.	2021	Process Biochemistry	4.78
6	Parvaiz, A., G. Mustafa, M.S. Khan, <b>M.A. Ali</b> .	Over-Expression of Endogenous SUGARWIN Genes Exalted Tolerance against Colletotrichum Infection in Sugarcane.	2021	Plants	4.658
7	Nawaz, M.A., X. Lin, T. Chan, H. Lam, F.S. Baloch, <b>M.A. Ali</b> , K.S. Golokhvast, S.H. Yang, G. Chung.	Genetic Architecture of Wild Soybean Populations ( <i>Glycine soja</i> Sieb. and Zucc.) Originating from Different East Asian Regions	2020	Genetic Resources and Crop Evolution	1.071
8	Goher, F. S. Khan, S. Saeed, M.Z. Ahmed, S. Ghuffar, M.A. Asif, H.A. Anwaar, M.S. Shafique, K. Razzaq, and <b>M.A. Ali</b> .	First Report of <i>Aspergillus niger</i> Causing Preharvest Ear Rot Infection of Maize in Pakistan	2021	Plant Disease	4.438

9	<b>Ali, M.A., A.</b> Abbas, F. Azeem, M. Shahzadi, H. Bohlmann	The Arabidopsis GPI-Anchored LTPg5 Encoded by At3g22600 Has a Role in Resistance against a Diverse Range of Pathogens.	2020	International Journal of Molecular Sciences	4.556
	Hawamda, A.I.M., A. Zahoor, A. Abbas, M.A. Ali, Bohlmann, H. The	Arabidopsis RboHB Encoded by At1g09090 Is Important for Resistance against Nematodes.		International Journal of Molecular Sciences	4.556
10	Ikram, A., H. M. U. Aslam, A. Fayyaz, M. W. Alam, A. Moosa, M. Z. Mansha, A. Abbas, M. A. Ali and S. Kanakala.	First Report of Leaf Spot of Pumpkin caused by Curvularia hawaiiensis in Pakistan	2020	Plant Disease	4.438
11	Ahmad, B., F. Azeem, <b>M.A. Ali</b> , M.A. Nawaz, H. Nadeem, A. Abbas, R. Batool, R.M. Atif, U. Ijaz, M. N. Cordone, G. Chung	Genome-wide identification and expression analysis of two component system genes in Cicer arietinum	2019	Genomics	4.31
12	Nawaz, M.A., A.M. Zakharenko, I.V. Zemchenko, M.S. Haider, <b>M.A. Ali</b> , M. Imtiaz, G. Chung, A. Tsatsakis, S. Sun, and K.S Golokhvas	Phytolith Formation in Plants: From Soil to Cell.	2019	Plants	2.632
13	Almaghrabi, B., <b>M. A. Ali</b> , A. Zahoor, K.H. Shah, H. Bohlmann	Arabidopsis thionin-like genes are involved in resistance against beet-cyst nematode ( <i>Heterodera schachtii</i> ).	2019	Plant Physiology and Biochemistry	4.14
14	Moosa, A., T. Ahmad, S.A. Khan, M. L. Gleason, A. Farzand, H. Safdar, <b>M. A. Ali</b> .	First Report of Alternaria Alternata causing post-harvest brown spot plums (Prunus domestica) in Pakistan	2019	Plant Disease	3.809
15	Aslam, S., H.M.U. Aslam, A. Abbas, <b>M. A. Ali</b> , M. W. Alam, L. Amrao, M. Gleason.	First Report of Leaf Spot of Spinach caused by Alternaria Alternata in Pakistan.	2019	Plant Disease	3.809

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
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1	Arshad, U., M. Raheel, W. Ashraf, A. Rehman, M. S. Zahid, M. Moustafa, <b>M.A. Ali</b> .	Influence of biochar application on morpho-physiological attributes of tomato ( <i>Lycopersicum esculentum</i> Mill) and soil properties.	2022	Communications in Soil Science and Plant Analysis	1.327
2	Ahmad, H.M., X. Wang, M. Ijaz, Mahmood-ur-Rehman, S. Oranab, M. A. Ali, S. Fiaz.	Crosstalk of MicroRNAs and Phytohormonal Signaling in Response to Drought	2022	Current Issues in Molecular Biology	2.695
3	Arshad, U., M. Raheel, Q. Shakeel, M. Jabran, S. Ahmed, A. Abbas, A. Jabbar, M. S. Zahid, <b>M. A. Ali</b> .	Seed-priming: A novel approach for improving growth performance and induce resistance against root-knot nematode ( <i>Meloidogyne incognita</i> ) in bread wheat ( <i>Triticum aestivum</i> L.).	2022	Gesunde Pflazen (Healthy Plants)	2.09
	Arshad, U., F. Azeem, G. Mustafa, Allah Bakhsh, H. Toktay, M. McGiffen, M.A. Nawaz, M. Naveed, <b>M. A. Ali</b>	Combined application of biochar and biocontrol agents enhances plant growth and activates resistance against <i>Meloidogyne incognita</i> in tomato.	2021	Gesunde Pflazen (Healthy Plants)	1.2
4	Batool, A., N. Javed, R. M. Abbas, M. Z. Iqbal and <b>M. A. Ali</b> .	Assessment of cotton germplasm against CLCuD at different locations and determination of inheritance patterns for resistance.	2021	Pakistan Journal of Agricultural Sciences	1.00
5	Sabar, G., M. Jabran, A. Hussain, S. Hussain, W. Sabir, M. Zulkiffal, M.S. Ahmed, F.A. Joyia and <b>M.A. Ali</b> .	Field-based assessment of genetic diversity for leaf rust resistance and yield attributes in the locally developed wheat cultivars using multivariate analysis.	2021	Pakistan Journal of Agricultural Sciences	1.00
6	Jabran, M., U. Arshad, H.M.U. Aslam, A. Abbas, A. Haseeb, A. Hussain, S. Hussain, W. Sabir, A. Jabbar and <b>M.A. Ali</b> .	Multivariate analysis of morpho-physiological and grain yield traits in advance lines of bread wheat under different leaf rust disease regimes.	2021	Pakistan Journal of Agricultural Sciences	1.00
7	Usman, H. M., K. Naveed, S. Aslam, <b>M. A. Ali</b> , H. A. Khan, Y. Zhai, M. Gleason.	First report of leaf spot of bottle gourd ( <i>Lagenaria siceraria</i> ) caused by <i>Fusarium equiseti</i> in Punjab, Pakistan.	2021	Journal of Plant Pathology	0.818
8	Nawaz, H., <b>M.A. Ali</b> , R.M. Atif, A. Nawaz and A. Abbas.	Incidence of fusarium wilt in major tomato growing areas of Punjab.	2021	Pakistan Journal of Agricultural Sciences	0.663
9	Azeem, F., M. Hussain, S. Hussain, M. Zubair, H. Nadeem, <b>M.A. Ali</b> , M. Afzal and M.H.Siddique.	Genome-wide analysis and expression profiling of potassium transport related genes in <i>Solanum tuberosum</i> .	2021	Pakistan Journal of Agricultural Sciences	0.663
10	Jabbar, A., N. Javed, A. Munir, S. A. Khan, A. Moosa, M. Jabran, B. J. Adams, <b>M. A. Ali</b> .	Occurrence and molecular characterization of <i>Meloidogyne graminicola</i> on rice in Central Punjab, Pakistan.	2020	Journal of Nematology	1.47
	Chernyshuk, D.K., L. Y. Ivachenko , H. Doğan , G. Raza, M.A. Ali, K.S. Golokhvast, M.A. Nawaz..	Dihydroquercetin increases the adaptive potential of wild soybean against copper sulfate and cadmium sulfate toxicity.	2020	Turkish Journal of Agriculture and Forestry	2.669
11	Azeem, F., B. Ahmad, R. M. Atif, <b>M.A. Ali</b> , H. Nadeem, S. Hussain, S. Rasul, H.	Drought affects aquaporins gene expression in important pulse legume chickpea ( <i>Cicer arietinum</i> L.)	2019	Pakistan Journal of Botany	0.75

	Manzoor, U. Ahmad and M. Afzal.				
12	Anwar, S., <b>M.A. Ali</b> , A. Abbas, K. Wiczorek	Arabidopsis Argininosuccinate Lyase and Argininosuccinate Synthase are important for resistance against <i>Pseudomonas syringae</i> .	2019	Advancements in Life Sciences	0.00
13	Toktay, H., E. Evlice, M. Imren, G. Özer, <b>M.A. Ali</b> , A. A. Dababat.	Characterization of Potato Golden Cyst Nematode Populations ( <i>Globodera rostochiensis</i> ) in Turkey.	2020	Turkish Journal of Agriculture and Forestry	2.585
14	Toktay, H., E. Evlice, M. Imren, G. Özer, <b>M.A. Ali</b> , A. A. Dababat.	Characterization of Potato Golden Cyst Nematode Populations ( <i>Globodera rostochiensis</i> ) in Turkey.	2020	International Journal of Agriculture and Biology.	0.89
15	Abbas, W., F.A. Joyia, G. Mustafa, <b>M.A. Ali</b> , M.Y. Ashraf.	Sucrose-induced enhancement of nitrate reductase activity promotes in vitro growth of potato.	2020	Pakistan Journal of Agricultural Sciences.	0.276
16	Moosa, A., A. Farzand, S. T. Sahi, S.A. Khan, A. U. Malik, M. L. Gleason, B. Rana, <b>M.A. Ali</b> .	First report of post-harvest rot of Citrus reticulata cv. 'Kinnow' caused by Rhizopus arrhizus in Pakistan.	2019	Journal of Plant Pathology	0.818

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Arshad, U., H. Butt, <b>M. A. Ali</b> , M. Jabran, M. S. Zahid, S. Sarfraz	Exploring the nematocidal activity of plant extracts for management of <i>Meloidogyne incognita</i> in local cultivars of eggplant ( <i>Solanum melongena</i> L.) in Pakistan	2021	Archives of Phytopathology and Plant Protection	<b>0.735</b>
	Pervaiz, A., G. Mustafa, M. S. Khan, <b>M. A. Ali</b>	Characterization and Expression Analysis of Resistance Gene Analogues in Elite Sugarcane Genotypes.	2021	Protein & Peptide Letters	<b>0.432</b>
2	Nawaz, M.A., X. A. Lin, T. Chan, M. Imtiaz, H. M. Rehman, <b>M.A. Ali</b> , F. S. Baloch, R. M. Atif, S. H. Yang, G. Chung	Characterization of cellulose synthase A (CESA) gene family in Eudicots.	2019	Biochemical Genetics	<b>0.544</b>
3	Anjum, M. N., F. A. Joyia, G. Mustafa, R. Ishtiaq, <b>M. A. Ali</b> , S. Munawar, M. S. Khan	Direct in vitro Regeneration and Transient Gus Assay: Towards Stable Genetic Transformation in <i>Trifolium alexandrinum</i> L.	2018	Yuzuncu Yil University Journal of Agricultural Sciences	<b>0.117</b>
4	Naveed, K., <b>M. A. Ali</b> , S. A. Khan, A. Abbas, L. Amrao.	Global status and future prospects of research in cotton leaf curl disease.	2018	Archives of Phytopathology and Plant Protection	<b>0.735</b>

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
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
4	Batool, A., N. Javed, R. M. Abbas, M. Z. Iqbal and <b>M. A. Ali.</b>	Assessment of cotton germplasm against CLCuD at different locations and determination of inheritance patterns for resistance.	2021	Pakistan Journal of Agricultural Sciences	1.00
5	Sabar, G., M. Jabran, A. Hussain, S. Hussain, W. Sabir, M. Zulkiffal, M.S. Ahmed, F.A. Joyia and <b>M.A. Ali.</b>	Field-based assessment of genetic diversity for leaf rust resistance and yield attributes in the locally developed wheat cultivars using multivariate analysis.	2021	Pakistan Journal of Agricultural Sciences	1.00
6	Jabran, M., U. Arshad, H.M.U. Aslam, A. Abbas, A. Haseeb, A. Hussain, S. Hussain, W. Sabir, A. Jabbar and <b>M.A. Ali.</b>	Multivariate analysis of morpho-physiological and grain yield traits in advance lines of bread wheat under different leaf rust disease regimes.	2021	Pakistan Journal of Agricultural Sciences	1.00
8	Nawaz, H., <b>M.A. Ali</b> , R.M. Atif, A. Nawaz and A. Abbas.	Incidence of fusarium wilt in major tomato growing areas of Punjab.	2021	Pakistan Journal of Agricultural Sciences	0.663
9	Azeem, F., M. Hussain, S. Hussain, M. Zubair, H. Nadeem, <b>M.A. Ali</b> , M. Afzal and M.H.Siddique.	Genome-wide analysis and expression profiling of potassium transport related genes in <i>Solanum tuberosum</i> .	2021	Pakistan Journal of Agricultural Sciences	0.663
10	Jabbar, A., N. Javed, A. Munir, S. A. Khan, A. Moosa, M. Jabran, B. J. Adams, <b>M. A. Ali.</b>	Occurrence and molecular characterization of <i>Meloidogyne graminicola</i> on rice in Central Punjab, Pakistan.	2020	Journal of Nematology	1.47
11	Azeem, F., B. Ahmad, R. M. Atif, <b>M.A. Ali</b> , H. Nadeem, S. Hussain, S. Rasul, H. Manzoor, U. Ahmad and M. Afzal.	Drought affects aquaporins gene expression in important pulse legume chickpea ( <i>Cicer arietinum</i> L.)	2019	Pakistan Journal of Botany	0.75
12	Anwar, S., <b>M.A. Ali</b> , A. Abbas, K. Wiczorek	Arabidopsis Argininosuccinate Lyase and Argininosuccinate Synthase are important for resistance against <i>Pseudomonas syringae</i> .	2019	Advancements in Life Sciences	0.00
14	Toktay, H., E. Evlice, M. Imren, G. Özer, <b>M.A. Ali</b> , A. A. Dababat.	Characterization of Potato Golden Cyst Nematode Populations ( <i>Globodera rostochiensis</i> ) in Turkey.	2020	International Journal of Agriculture and Biology.	0.89

15	Abbas, W., F.A. Joyia, G. Mustafa, <b>M.A. Ali</b> , M.Y. Ashraf.	Sucrose-induced enhancement of nitrate reductase activity promotes in vitro growth of potato.	2020	Pakistan Journal of Agricultural Sciences.	0.276
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**20i. List of Research papers Published in HEC Recognized Local Journals of Y Category (HJRS)**

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Arshad, U., M. Naveed, N. Javed, M. D. Gogi & M. A. Ali.	Biochar application from different feedstocks enhances plant growth and resistance against <i>Meloidogyne incognita</i> in tomato.	2020	<b>International Journal of Agriculture and Biology</b>	<b>0.89</b>
2	Azeem, F., A. Mumtaz, K. Aliya, F. Maqbool, T. Rehan, S. Rasul, B. Ahmad, <b>M.A. Ali</b> .	NTDBPlant; Nutrient Transporters Database for Plants.	2019	<b>International Journal of Agriculture and Biology</b>	<b>0.802</b>
3	Sarfraz, S., S.T. Sahi, <b>M.A. Ali</b> , S. H. Khan, D. Faure	Antagonistic potential of NAHL degrading Bacillus sp. for controlling Pectobacterium based infections in potato	2019	<b>International Journal of Agriculture and Biology</b>	<b>0.802</b>
4	Rasul, I., F. Zafar, <b>M.A. Ali</b> , H. Nadeem, M.H. Siddique, M. Shahid, U.A. Ashfaq, F. Azeem	Genetic Basis for Biotic Stress Resistance of Solanaceae Family: A Review.	2019	<b>International  Journal of Agriculture and Biology</b>	<b>0.802</b>

**20j. List of Conference Proceeding Papers/Abstracts etc.**

S#	Authors	Title	Year	Publishing Details
1	<b>Ali, M.A.</b> , A. Zahoor, B. Almaghrabi and H. Bohlmann	Role of Arabidopsis Thionin-like genes in resistance against beet-cyst nematode ( <i>Heterodera schachtii</i> ).	2019	Abstract book, 6 <sup>th</sup> Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 274.
2	Niaz, Z., A. Zahoor, <b>M.A. Ali</b>	Characterizing and predicting the evolution of programmed cell death (PCD) regulating metacaspase proteases in <i>Triticum aestivum</i> from its progenitors through various in silico approaches.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 274
3	Zahoor, A. and <b>M.A. Ali</b>	Receptor-Effector model: An approach to resolve the dilemma of nonhost resistance in plants. 6 <sup>th</sup> Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 274
	Zahoor, A., M.M. ul Hassan, A. Naz, A. Latif and <b>M.A. Ali</b>	Genome-wide comparative analysis of Papain-like cysteine proteases from Arabidopsis and Soybean. 6 <sup>th</sup> Inter. Conf. on Sustain. Agric. in	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and

		changing climate: strategies and management.		management.. Rawalakot, Pakistan. pp. 275
	Afzal, A., <b>M.A. Ali</b> , A. Zahoor, <b>A. Abbas</b> and M. Naveed	Application of different endophytic bacteria in different combinations to control <i>Meloidogyne incognita</i> in tomato ( <i>Lycopersicum esculentum</i> L.).	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 276
	Asif, H.M., A. Zahoor, A. Jabbar, H. Anwar, M. Shahzadi and <b>M.A. Ali</b>	Prevalence of root knot nematodes associated with strawberry plant in strawberry growing districts of Punjab and insecticide based <i>in-vitro</i> management.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 276
	Anwar, H., M. Shahzadi, A. Zahoor, N. Riaz, M. Naveed and <b>M.A. Ali</b>	Inducing host resistance through consortium application of bacterial and fungal endophytes to control the <i>M. incognita</i> colonization in Okra.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 276
	Azmat, M.A., <b>M.A. Ali</b> , M. Tahir, A. Khan, U. Qamar, A. Zahoor	Novel soil amendments to enhance resistance against <i>Meloidogyne incognita</i> in chilies.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 276-277
	Jabran, M., <b>A. Abbas</b> , G. Sabir, M. Naveed, <b>G. Mustafa</b> , <b>F.A. Joyia</b> , A. Jabbar and <b>M.A. Ali</b>	Agro-ecological prevalence, incidence and severity of brown spot of Rice in major rice growing districts of Punjab, Pakistan.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 277
	Tahir, M., <b>M.A. Ali</b> , <b>M.A. Azmat</b> , A. Khan, A. Zahoor and <b>A. Abbas</b>	Consortium application of bacterial and fungal endophytes to control <i>M. incognita</i> in cucumber.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 277
	Shahzadi, M., <b>M.A. Ali</b> , A. Zahoor, H. Anwar and N. Riaz	Identification and computational characterization of lycosylphosphatidylinositol-anchored lipid transfer proteins (LTPGs) gene family in <i>Arabidopsis thaliana</i> .	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 278
	Riaz, N., <b>M.A. Ali</b> , <b>G. Mustafa</b> and A. Zahoor	<i>In silico</i> identification and characterization of WRKY transcription factors from sugarcane genome.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 278
	Riaz, N., <b>M.A. Ali</b> , M. Shahzadi, H. Anwar, <b>F.A. Joyia</b> and A. Zahoor	Varietal response and control of root knot nematodes through endophytic microbes to induce host resistance in soybean.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and

				management.. Rawalakot, Pakistan. pp. 278-279
	Farroqui, S.H., <b>A. Abbas</b> , A. Jabbar, A. Zahoor and <b>M.A. Ali</b>	Management of Meloidogyne graminicola using different sowing methods and plant host resistance in rice under field conditions.	2019	Abstract book, Inter. Conf. on Sustain. Agric. in changing climate: strategies and management.. Rawalakot, Pakistan. pp. 279

## 21. List of Seminars/Conferences attended

S#	Organizers	Conference Title/Theme	Year	Presentation (oral/poster)	Other Details
1	Institute of Microbiology, Government College University Faisalabad, Punjab, Pakistan Workshops/Seminars/Webinars	International Symposium on Nanobiology: Integrating Nanotechnology & Microbiology for a Sustainable Future	February 28-29, 2024	Oral	“Invited Speaker” . ‘Title of the Talk’ “Exploring the potential of nanomaterials as diagnostic tools and resistance enhancement against plant pathogens”
2	Turkish Journal of Agriculture - Food Science and Technology (TURJAF) at Gazimağusa, Turkey	International Congress of the Turkish Journal of Agriculture - Food Science and Technology (TURJAF)	2021	Keynote Speaker ‘Oral presentation	‘Title of the Talk’ Biochar in combination with antagonistic microbes leads to enhanced nematode resistance in tomato
3	Bayer Crop Science and Department of Plant Pathology	1st Virtual Bayer Safe Use Ambassador conference	2020	participant	held on 8th September, 2020
	University of Poonch, Rawalakot, AJK, Pakistan	International Conf. on Sustainable Agriculture in changing climate: strategies and management.	June 19-21, 2019.	‘Oral presentation	Role of Arabidopsis Thionin-like genes in resistance against beet-cyst nematode (Heterodera schachtii).

## 22. List of Seminars/Conferences/Trainings arranged

S#	Organizers	Role	Year	Other Details
	University of Agriculture Faisalabad, Pakistan	Member of Publication Committee	April, 28-	3rd Pakistan Seed Congress,

			30, 2024	
1	Webinars organized By Dr. Muhammad Amjad Ali and Amjad Abbas from University of Agriculture, Faisalabad in collaboration with DICE Analytics	Organizer and moderator	01-03-2021	“Introduction to Emerging Technologies like AI, Big data and their possible use in Agriculture field”
2	Engineering and Natural Sciences in Gumushane University, Turkey	Member Scientific Committee	2021	International Conference “Genetics and Bioengineering” Section in International Online Conferences on Engineering And Natural Sciences
3	Department of Plant Pathology, University of Agriculture Faisalabad, Pakistan	Member Local Organizing Committee	2021	7th International Conference of Pakistan Phytopathological Society “Phytopathology: Current Scenario and Future Prospects”
	Department of Plant Pathology, University of Agriculture Faisalabad, Pakistan	Member Organizing Committee	2019	One Day Workshop on Laboratory Biosafety” jointly by Department of Plant Pathology and Pakistan Biological Safety Association at University of Agriculture, Faisalabad on 11 February, 2019

## 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	Asia Batool	2022	Plant Pathology	Diversity, stability and inheritance pattern of begomovirus tolerance and fiber quality in <i>Gossypium hirsutum</i> L.	Supervisor
2	Usman Arshad	2021	Plant Pathology	Exploring the potential of biochar for management of root-knot nematode in tomato and its effect on the activation of defense related genes	Supervisor

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

S. #	Name of Student	Year	Deptt.	Title	Supervisory Committee
1	Aqsa Parvaiz	2021	CABB	Characterization and manipulation of defense related sugarcane genes for enhanced pathogen resistance	Member of supervisory committee
2	Hira Nawaz	2022	Plant Pathology	Virulence determination and management Fusarium oxysporum involved in tomato wilt	Member of supervisory committee
3	Muhammad Zeshan Ahmed	2021	Plant Pathology	Molecular Characterization of Pathogens Associated with Citrus Gummosis form Major Citrus Growing Areas of Punjab	Member of supervisory committee

4	Sohaib Sarfraz	2019	Plant Pathology	Controlling pectobacterium based infections through quorum quenching	Member of supervisory committee
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### 23c. List of M.Sc. (Hons.)/M.Phil. Students Supervised as Major Supervisor

S. #	Name of Student	Year	Deptt.	Title	Supervisory Committee
	Sohaib Nasir	2024	M.Sc. (Hons) Plant Pathology	Effect of bacterial and fungal endophytes on the growth parameters of <i>Triticum aestivum</i> L. against leaf rust disease	Major Supervisor
	Ikhlas Shafique	2024	M.Sc. (Hons) Plant Pathology	Evaluation of plant extracts at different growth stages of wheat to manage leaf rust under field conditions	Major Supervisor
	Imran Karim	2024	M.Sc. (Hons) Plant Pathology	Combination of soil amendments and foliar application of BCAs to manage leaf rust in bread wheat	Major Supervisor
	Muhammad Usman Razzaq	2024	M.Sc. (Hons) Plant Pathology	Seed application of bacterial and fungal BCA to manage brown rust disease in bread wheat	Major Supervisor
	Muhammad Anas	2024	M.Sc. (Hons) Plant Pathology	Exploring Jasmonic Acid's Impact on Brinjal Resilience to Nematode Assault and Cadmium Stress	Major Supervisor
1	Muhammad Zeeshan Mansoor	2022	Plant Pathology	Exploring the potential of host resistance and different management strategies to control <i>Meloidogyne graminicola</i> in <i>Sorghum bicolor</i> L.	Major Supervisor
2	Usama Mahboob	2022	Plant Pathology	Management of root knot nematode ( <i>Meloidogyne incognita</i> ) in soybean through host resistance & novel soil amendments	Major Supervisor
3	Usman Ahmad	2022	Plant Pathology	Identification and characterization of pathogen associated with stem cracking disease in <i>Psidium guajava</i> L.	Major Supervisor
4	Junaid Asghar	2022	Plant Pathology	Seed application of different antagonistic microbes to manage root-knot nematodes in garden pea ( <i>Pisum sativum</i> L.)	Major Supervisor
5	Aqsa Muazzam	2022	Plant Pathology	Identification and chemical management of fungal pathogens of maize seed under storage conditions	Major Supervisor
6	Abdul Qadeer	2022	Plant Pathology	Management of leaf rust of wheat caused by <i>Puccinia triticina</i> through nutritional amendments and biocontrol agents	Major Supervisor
7	Ali Raza	2021	Plant Pathology	Genome wide identification and Expressional analysis of GST gene family in Tobacco Against Biotic and Abiotic stresses.	Major Supervisor
8	Saman Shehzadi	2021	Plant Pathology	Efficacy of biochar application from different feed stocks on plant growth and resistance against root-knot nematodes in tomato	Major Supervisor
9	Muhammad Jalil Khan	2021	Plant Pathology	Varietal Diversity of Wheat Germplasm for Metric Traits and Leaf Rust Resistance	Major Supervisor
10	Abdul Nasir	2021	Plant Pathology	Using biochar in combination with low pH product and bacterial antagonist for growth promotion and management of root-knot nematode in chili	Major Supervisor
11	Samraiz Ashraf	2021	Plant Pathology	Morpho-physiological response of chilli genotypes under different applications of endophytes	Major Supervisor



12	Muhammad Arslan Azmat	2020	Plant Pathology	Effect of novel soil amendments on plant growth and morpho-physiological traits in chillies	Major Supervisor
13	Hira Anwar	2020	Plant Pathology	Exploring the biocontrol potential of different Bacillus strains and their consortium to control Meloidogyne incognita in okra (Abelmoschus esculentus)	Major Supervisor
14	Abdul Haseeb	2020	Plant Pathology	Deciphering the biocontrol potential of antagonists (Bacteria, Fungus) and low pH product to combat Alternaria leaf spot in Broccoli	Major Supervisor
16	Ujala Qamar	2020	Plant Pathology	Novel soil amendments to control Meloidogyne incognita in okra	Major Supervisor
17	Hafiza Fakhar-e-Fatima	2020	Botany	Exploring the potential of novel Bacillus spp. for biological control of Meloidogyne incognita in cultivated soybean	Major Supervisor
18	Naveed Riaz	2020	Plant Pathology	Varietal response and control of Meloidogyne incognita through consortium application of antagonistic bacterium and fungus in soybean	Major Supervisor
19	Mehwish Hussain	2020	M. Phil. Botany	Correlated response of various morpho-physiological characteristics of wheat using correlation and path analysis under the rust disease.	Major Supervisor
20	Adil Zahoor	2019	MSc (Hons) Plant Pathology	Assessment of various tomato germplasm for Mi- 1 gene mediated resistant against Meloidogyne incognita in tomato and in silico dynamics of this gene using different bioinformatics approaches.	Major Supervisor
21	Hafiz Muhammad Asif	2019	MSc (Hons) Plant Pathology	Prevalence of root knot nematodes associated with strawberry plant in strawberry growing districts of Punjab and insecticide based in-vitro management	Major Supervisor
22	Sabir Hussain Farroqui	2019	MSc (Hons) Plant Pathology	Management of Meloidogyne graminicola using different sowing methods and plant host resistant in rice under field conditions.	Major Supervisor
23	Fazal Rehman	2019	MSc (Hons) Plant Pathology	Rice root knot nematode management through host resistance and soil amendments.	Major Supervisor
24	Asim Afzal	2019	MSc (Hons) Plant Pathology	Application of different Endophytic bacteria in different combination to control Meloidogyne incognita in tomato (Lycopersicon esculentum).	Major Supervisor
25	Shabir Ahmed	2019	MSc (Hons) Seed Science and Technology	Seed priming for disease resistance in wheat against nematode (Meloidogyne incognita)	Major Supervisor
26	Hassan Nisar	2019	MSc (Hons) Seed Science	Application of different antagonistic bacteria by using various carrier material to the chickpea seeds to	Major Supervisor

			and Technology	enhance disease resistance against Fusarium Oxysporum .sp. Ciceris	
27	Ilyas Ahmed	2019	MSc (Hons) Seed Science and Technology	Assessment and management of fungal pathogens associated with chick pea ( <i>Cicer arietinum</i> L.) grain stored under different controlled conditions	Major Supervisor
28	Mehvish Mukhtar	2019	M.Phil. Botany	Application of different carrier materials to introduce endophytic bacteria for growth promotion in bread wheat	Major Supervisor
29	Anum Maqsood	2019	M.Phil. Botany	Study of Fusarium wilt in chilli and its management through botanical extracts.	Major Supervisor
30	Izwa Shafique	2019	M.Phil. Botany	Multivariate analysis of morpho-physiological traits and leaf rust resistance in bread wheat	Major 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	Syada Sana Fatima	2022	Plant Pathology	Use Of Antagonistic Microbes In The Management Of Wilt Disease Of Okra	Member of supervisory committee
2	Abdul Rehman	2022	Plant Pathology	Environmental Friendly Management Of Peas Wilt With Selected Bacterial Bio-Control Agents	Member of supervisory committee
	Muhammad Talha Ahsraf	2022	Plant Pathology	In-vitro and in-vivo management of purple blotch disease of onion caused by alternaria porri	Member of supervisory committee
	Numaad Ihsan	2022	Plant Pathology	Biological management of alternaria leaf spot disease of spinach by the application of trichoderma and bacillus	Member of supervisory committee
	Muhammad Ziad	2021	Plant Pathology	Molecular identification and in-vitro chemical management of pathogen related to red rot of sugarcane	Member of supervisory committee
	Ahsan Shabir	2021	Plant Pathology	Characterization of fungal pathogen associated with wilt disease of Chili and management through fungicides	Member of supervisory committee
	Kinza Ahsan	2021	Plant Pathology	ITS based characterisation of Fusarium isolates collected from chickpea core areas and screening for resistant plant genotypes	Member of supervisory committee
	Rafia Tanveer	2021	Plant Pathology	Characterisation and management of novel pathogen associated with fig leaf spot diseases	Member of supervisory committee
	Iram Khalid	2021	Plant Pathology	Isolation, identification and management of fungal pathogen responsible for chili leaf spot disease	Member of supervisory committee
	M. Nabeel Afzal	2021	Plant Pathology	Identification of pathogens associated with Convolvulus arvensis and Chenopodium album weeds in wheat crop and control through microbial metabolite	Member of supervisory committee

## 24. Research Projects

### 24a. Research Projects completed

<b>S #</b>	<b>Title of the research project</b>	<b>Position</b>	<b>Duration</b>	<b>Amount (Million Rs)</b>	<b>Donor</b>
1	Environment Friendly nematode management in tomato and wheat	PI	3 years (Completed)	1.67	Mevlana Exchange Program, <b>Turkey</b> and HEC, Pakistan
2	Biochar application to combat root-knot nematodes in tomato with emphasis on activation of defense related genes	PI	3 years (Completed)	3.00	NRPU (HEC)
3	Molecular characterization of an Arabidopsis lipid transfer protein At3g22600 for nematode resistance in plants	Grantee	3 Months Completed	4450 Euro	OeAD, Austrian agency for international mobility and cooperation in education, science and research, Vienna, Austria
4	Enablement of Plant Defense against Pathogenic Nematodes through the Overexpression of Disease Resistance Responsive Genes involved in Lignin Biosynthesis	Grantee	3 Months Completed	Euros 4,750 (equiv. to 1.45 million PKR)	OeAD, Austrian agency for international mobility and cooperation in education, science and research, Vienna, Austria
5	Molecular characterization of rice root-knot nematode ( <i>Meloidogyne graminicola</i> ) in rice-wheat cropping system in central Punjab for its management	Co-PI	3 years (Completed)	2.37	NRPU (HEC)
6	Weed suppression in wheat through weed specific microbial pathogens and their active metabolites	Co-PI	2 years (Completed)	2.451	NRPU (HEC)
7	Ecological impact of transgenic Bt cotton hybrids on soil biological attributes of varying agricultural soils in Pakistan	Co-PI	1 year (Completed)	US\$ 15,700	The ILSI Research Foundation (USA)
8	Metagenomics and whole genome sequencing for characterizing indigenous chickpea root associated rhizobia from Thal region of Pakistan for diversity analysis and bio-inoculant development	Team scientist	3 years (Completed)	3.5 Million PKR	USPCAS-AFS, UAF
9	Prevalence and economic impact of sugarcane rust in Punjab: Farmers' awareness and coping strategies	Team scientist	6 months Completed	0.5 Million PKR	PARB

#### 24b. Research Projects Ongoing

<b>S. #</b>	<b>Title of the research project</b>	<b>Position</b>	<b>Duration (From-To)</b>	<b>Amount (Million Rs)</b>	<b>Donor</b>
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1.	Quality seed production and supply to the farming community for ensuring food security in Pakistan	PI (Seed Health domain)	2022-ongoing	4500	MoST
2.	Accelerating genetic gain in wheat through hybrid breeding in Bangladesh, Ethiopia and Pakistan	Co-PI	2022-ongoing	-	ACIAR, Australia

#### 24c. Research Projects in pipeline

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1.	Bio-management of Okra Root-Knot Disease via Biochar Fortified Fungal-Bacterial Consortium	PI	Concept note submitted		NRPU (HEC)
2.					

#### 25. Awards/Distinctions

S. #	Name of Award/Distinction	Year	Details
1.			
2.			

#### 26. Academic/Professional collaboration

S#	Collaborating agencies	Nature of Collaboration
<b>National</b>		
1.	Wheat Research Institute, AARI, Faisalabad	Exchange of germplasm for research work
2.	Maize and Millet Research Institute, Sahiwal	Germplasm acquisition
<b>International</b>		
1.	Mevlana Exchange Program, Nigde University Turkey and University of Agriculture Faisalabad	Collaborative project titled "Environment Friendly nematode management in tomato and wheat" under Pak-Turk Mobility Grant
2.	Prof. Dr. Gyuhwa Chung from Chonnam National University, Chonnam Province, South Korea and Dr. Muhammad Amjad Ali, Plant Pathology, UAF	Exchange of wild soybean germplasm for nematode resistance assessment and publication of research together
3.		

#### 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.	Exhibition of Plant Pathology stall at Agricultural Expo	UAF Expo Centre	14-03-2022 to 16-03-2022	Almost every year there is an expo to aware the common people about agriculture, its problems and solutions

2.	Wheat Campaign to aware the farming community for high yield in wheat	Faisalabad District (Thikriwala Markaz)	28-10-2022 to 06-11-2022	This was 2 <sup>nd</sup> year to launch this campaign in collaboration with Agri Extension Department of Punjab
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