### **CURRICULUM VITAE**

Name: Dr. Muhammad Atiq
 Father's Name: Muhammad Rafiq

Nationality: Pakistani
 Date of Birth: 10-08-1973
 Marital Status: Married

6. N.I.C. No.: 33202-1359123-7

7. Passport No.

8. Countries Visited: China, Turkey,

9. Permanent Address: House No P-6217, Street 6, Mohallah Khan Town,

Mansoorabad, Faisalabad.

10. Postal Address: Department of Plant Pathology,

University of Agriculture, Faisalabad, Pakistan

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#### 14. EDUCATIONAL QUALIFICATION

S#	Examination	Year	Marks/CG PA	Division	Subjects
1.	Ph.D.	2008	Qualified	Ist	Agriculture Plant Pathology
2.	M.Sc. (Hons.) Agri.	2003	646/900 CGPA= 3.41	Ist	Agriculture Plant Pathology
3.	B.Sc. (Hons.) Agri.	2001	2624/3980 CGPA= 3.04	Ist	Agricultural Sciences
4.	F.Sc.	1997	795	Ist	Pre-Medical
5.	Matric	1995	655	Ist	Science

Title of M.Sc. Thesis: Fungi Associated with Cotton Seed, Their Identification and Management

Name of Supervisor: Dr. Sultan Mahmood Khan

Title of Ph.D. Thesis: Prediction of Citrus Canker Disease and Its Management

Name of Supervisor: Prof. Dr. Muhammad Aslam Khan

#### 15. OTHER CERTIFICATES/DIPLOMAS: NA

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

# 16. PROFESSIONAL TRAININGS:

S#	N	ame of Training	Year	Institute	Remarks
	1.	Training Horizon Scanning Workshop:	April 29 to May 03, 2024	Prioritization of Quarantine Pests for Pakistan, organized by CABI on	Successfully Completed
	2.	Training on Data Collection	April, 15- 24, 2019	Under the Project 'Capacity Building of Agriculture Scientist in Collaboration with Govt of The Balochistan	Successfully Completed
	3.	Training on Orchard Establishment and Management	March 11- 20 2019	Under the Project Capacity Building of Agriculture Scientists in Collaboration with Govt of the Balochistan	Successfully Completed
	4.	Training on Environmental Implication of Overuse of Pesticides	March 12- 14, 2018	Under the Project Capacity Building of Agriculture Scientists in Collaboration with The Govt. of Balochistan	Successfully Completed
	5.	Two-day Training of "Presiding Officers and Sr. Assistant Presiding Officers - GE 2018"	July 7-8, 2018	Organized by the Election Commission of Pakistan and The United Nations Development Program at Govt. M. C. High School Samanabad Faisalabad	Successfully Completed
	6.	One Day Training of Presiding and Assistant Presiding Officer	9-10 July, 2018	Organized by The Election Commission of Pakistan	Successfully Completed
	7.	5 Day Training Workshop English Language Teaching Training Under Transforming English Language Skills (TELS)	January 23-2, 2017	By Higher Education Commission of Pakistan (HEC)	Successfully Completed
	8.	Twenty-days training courses for Plant Protection Technology in South & Southeast Asia in Yunnan Province P. R. China	June, 11 <sup>th</sup> to 30 <sup>th</sup> 2018	Organized by Yunnan Academy of Agricultural Sciences, Kunming China	Successfully Completed
	9.	Two weeks Training of Instructors of In- services Agricultural Training Institutes	July 10 <sup>th</sup> - August 5 <sup>th</sup> 2017	Organized at University of Agriculture Faisalabad	Successfully Completed
	10	Based Monitoring & Evaluation" under ALP	February 23-24, 2016	Organized by Pakistan Agriculture Research Council (IFPRI), at AARI, Faisalabad, Pakistan	Successfully Completed
	11	Training on horticultural nurseries (fruits, vegetables, ornamentals)	March 7- 10, 2016	Organized by ORIC, University of Agriculture, Faisalabad, Pakistan	Successfully Completed
	12	HANDS-ON TRAINING on BIOINFORMATICS (BASICS)	04-05 November, 2016	Organized by Molecular care, Department of Biochemistry, University of Agriculture Faisalabad	Successfully Completed

13	HANDS-ON TRAINING on PCR	November 25-26, 2016	Organized by Molecular care, Department of Biochemistry, University of Agriculture Faisalabad	Successfully Completed
14	HANDS-ON TRAINING on Gene Expression	November 09-10, 2016	Organized by Molecular care, Department of Biochemistry, University of Agriculture Faisalabad	Successfully Completed
15	Workshop and Hands on training of TOA-MD (Trade Off Analysis for Multi- Dimensional Impact Assessment)	December 20-22, 2016	Organized by Climate Change Chair, U.SPakistan Center for Advanced Studies in Agriculture and Food Security, University of Agriculture Faisalabad	Successfully Completed
16	Training Workshop on Advanced Chemical techniques in Natural and Applied Sciences	September 10-12, 2015	Organized by Department of Chemistry and Central Hi-Tech Lab. University of Agriculture Faisalabad, Pakistan	Successfully Completed
17	Strengthening of crop estimation system in Pakistan by capacity building of the officers	October 19- 22, 2015	Organized by Govt, Pakistan, Ministry of National Food Security and Research (Economic wing) at Pakistan Bureau of Statistics, Islamabad, Pakistan	Successfully Completed
18	International training on "Enquired Based Learning (EBL)". An International Collaboration with The University of Manchester. INSPIR Translational Educational Program of British Council	March 1 <sup>st</sup> , 2014	Organized by Department of Rural Sociology and ORIC, University of Agriculture Faisalabad	Successfully Completed
19	Third National Training course on Bacterial identification and metagenomics"	March 3-7, 2014	Organized by National institute for biotechnology and genetic engineering (NIBGE), Faisalabad, Pakistan	Successfully Completed
20	Hands on training "Soil, Water and Plant analysis"	November 11-14, 2014	Organized by Nuclear Institute for Agriculture and biology (NIAB) Faisalabad, Pakistan	Successfully Completed
21	Training Workshop on Communication Skills	June 24 <sup>th</sup> , 2014	Organized by Career Development Center, University of Agriculture, Faisalabad	Successfully Completed
22	"Training Workshop on Plant Diseases and Diagnosis"	December 23 <sup>rd</sup> , 2013	Organized by Syngenta (Pvt.) Ltd. and Department of Plant Pathology, UAF	Successfully Completed
23	Training Course on Nuclear and Other Advanced Techniques in Agriculture and Biological Research	December 03-04, 2012	At Nuclear Institute for Agriculture and Biology (NIAB) Faisalabad Pakistan	Successfully Completed
24	Training Workshops on (Identification of Plant Pathogenic Fungi) Identification and demonstration of Plant Parasitic and Beneficial Nematodes	February 08-11, 2011	Organized by Department of Plant Pathology, UAF	Successfully Completed

#### **18. EXPERIENCE:**

	ACADEMIC						
S#	Designation/ Position	From (dd.mm.yyyy)	To (dd.mm.yyyy)	Total Duration (years.months.days)			
1.	Lecturer	05-11-2007	06-01-2009	1 year 2 Months 1 Day			
2.	Assistant Professor	07-01-2009	29-06-2022	13 Years 05 Months 22 Days			
3.	Associate Professor	30-06-2022	to Date	05 Months			
4.	Professor						
	ADMINISTE	RATIVE					
S#	Co-Tutor	2011	2021	10 Years			
1.	Tutor	26-4-2022	To date	7 months			
2.	Member Undergraduate Admission Secrutiny Committee	2019	2022	3 years			
	Member Judo Sub committee for admission to under and postgraduate classes	2019	2022	3years			
4.							

#### 19. OTHER ASSIGNMENTS

- i. Member of synopsis scrutiny committee of Department of Plant Pathology.
- ii. Duty during new entry test for new admission.
- iii. Invigilation duty during Mid and final Examination of Winter and Spring Semesters.
- iv. Edited and upgraded Data for annual report
- v. Member of Board of Studies of Department of Plant Pathology
- vi. Performed as Co-Advisor in academic spring semester to sign UG-1 form
- vii. Participate in meeting for arrangement of Agricultural Exhibition at UAF
- viii. Paper setter of written Ph.D. Comprehensive Examination for Department of Plant Pathology for the students
- ix. Member of Board of Examiners in Oral part Ph.D. Comprehensive Examination
- x. Provide advisory services in identification and management of citrus, potato, Chilli, Sugarcane and guava
- xi. Develop Month wise Citrus management Calendar for Farmers.
- xii. Provide consultancy to citrus growers (Mian Chunnu, Sargodha, Multan, Rahim Yar Khan, Bhakar, Toba Tek Singh, Mandi Baha Uddin, Sargodha and Faisalabad).
- xiii. Provide consultancy to Potato, Tomato, Chilli and Onion growers.

#### 20. PUBLICATIONS

### 20a. List of Books published $\,NA\,$

S#	Authors	Title	Year	Publisher's Details
1				
2				
3				

# 20b. List of Book Chapters published

S#	Authors	Title	Year	Publisher's Details
1	Ali, F, A. Rehman, A. Hameed, S. Sarfraz, N.A. Rajput and <b>M. Atiq</b>	Climate change impact on Plant Pathogen Emergence: Artificial intelligence approach. In: Plant Quarantine Challenges under Climate Change Anxiety.	2024	Springer Nature, Switzerland.
2	Nasir A. Rajput, <b>M. Atiq</b> , M. Baig, N. Jamal, M. Wahab and F. Ali.	Analyzing pest risk in the context of climate change. Plant Quarantine Challenges under Climate Change Anxiety.	2024	Springer Nature, Switzerland
3	Nasir A. Rajput, <b>M. Atiq,</b> Ghalib A. Kachelo, Azeem Akram, Nuzhat Jamal and Muniza Baig.	Biofungicides: Antifungal Biomaterials and Mechanisms.	2023	CRC, Press Taylor and Francis Group
4	Ali, F, A. Hameed, A. Rehman, S. Sarfraz, N.A. Rajput and <b>M. Atiq</b>	CRISPER system discovery, history and future perspectives. In: Omics based technology for global food security.	2023	John Wiley and Sons, Ltd. Hoboken. NJ, USA
5	Muhammad Atiq and Nasir Ahmed Rajput	Extension Plant Pathology	2022	Publisher: Springer Singapore
6	Ali, M.A., Abbas. A, <b>M.Atiq</b> , N.A.Rajput, K. Naveed , N. Javed.	Plant diseases of major crops and the way forward for their management	2018	CRC, Press Taylor and Francis Group
7	Ali, S., M.A. Khan, S.T. Sahi, <b>M. Atiq</b> and A. Hannan.	Cotton Leaf Curl Virus Disease Predictive Model Based on Environmental Variables <i>In</i> : Improvement of Crops in the Era of Climatic Change.	2014	Springer, New York, USA.

#### 20c. List of Books Edited NA

S#	Editors	Title	Year	Publisher's Details
1				
2				
3				

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Usman, M., M. Atiq, N.A. Rajpuut, M. Sagheer and Y. Xia	Computational and experimental approaches to explore defense related enzymes conferring resistance in Fusarium infected chilli plants by regulating plant metabolism through nutritional products.	2025	PLoS ONE	2.9
2	Rajput, M., M.S. Sajid, N.A. Rajput, D.R. George, M. Usman, M. Zeeshan, O. Iqbal, B. Bhutto, <b>M. Atiq,</b> H.M. Rizwan, I.K. Daniel and O.A. Sparagano	Entomopathogenic Fungi as Alternatives to Chemical Acaricides: Challenges, Opportunities and Prospects for Sustainable Tick Control	2024	Insects	2.7
3	Iqbal, S., <b>M. Atiq</b> , S.T. Sahi, N. Akbar and N.A. Rajput.	Progressive alterations in mineral contents in citrus genotypes toward <i>Alternaria citri</i> causing brown spot of citrus.	2024	PLoS ONE	2.9
4	Iqbal, O., R.N. Syed, N.A. Rajput, Y. Wang, A.M. Lodhi, R. Khan, S.M. Jibril, <b>M. Atiq</b> and C. Li.	Antagonistic activity of two Bacillus strains against Fusarium oxysporum f. sp. capsici (FOC-1) causing Fusarium. wilt and growth promotion activity of chili plant.	2024	Frontiers in Microbiology	4.0
5	Khan, M.A., M. Azam, S. Ahmad, <b>M. Atiq</b>	Improvement of physicochemicals, antioxidant system and softening enzymes by postharvest L-arginine application leads to maintain persimmon fruit quality under low temperature storage	2023	Journal of Food Measurement and Characterization	3.4
6	Asif, M., Z. Li-Qun, Q. Zeng, <b>M. Atiq</b> , K. Ahmad, A. Tariq, N. Al- Ansari, J. Blom, L. Fenske, H. A. Alodaini, A.A. Hatamleh	Comprehensive genomic analysis of <i>Bacillus</i> paralicheniformis strain BP9, pan-genomic and genetic basis of biocontrol mechanism.	2023	Computational and Structural Biotechnology Journal	4.4
7	Ali, S., A. Hameed, G.M.U. Din, M. Ikhlaq, M. Ashfaq, <b>M. Atiq</b> , F. Ali, Z.U. Zia, S.A.H. Naqvi, Y. Wang.	A Persistent Threat to the Worldwide Citrus Industry— An Analysis.	2023	Agronomy	3.3
8	Muhammad Imran, Sabin Khanal, Xin-Gen Zhou, Sanjay Antony-Babu, and <b>Muhammad Atiq</b>	First Report of Brown Leaf Spot of Rice Caused by Curvularia hawaiiensis in the United States	2022	Plant Disease 106, no. 9: 2527	4.614
9	Muhammad Imran, Sabin Khanal2, Xin-Gen Zhou,	First Report of Fusarium Sheath Rot of Rice Caused by	2022	Plant Disease	4.614

	Sanjay Antony-Babu, and <b>Muhammad Atiq</b>	Fusarium incarnatum-equiseti Species Complex in the United States			
10	Imran, M., S. Khanal, X.G.S. Zhou, S. Antony-Babu, <b>M. Atiq</b>	First Report of Leaf Spot of Rice Caused by <i>Epicoccum</i> sorghinum in the United States	2022	Plant disease doi: 10.1094/PDIS-10-21- 2177-PDN	4.614
11	Hameed, A., Atiq, M., Ahmed, Z., Rajput, N.A., Younas, M., Rehman, A., Alam, M.W., Sarfaraz, S., Liaqat, N., Fatima, K. and Tariq, K.	Predicting the impact of environmental factors on citrus canker through multiple regression	2022	PLoS ONE 17(4): e0260746.	3.752
12	Alam, M.W., A. Malik, A. Rehman, M. Sarwar, T. Shafeeq, A. Hameed, N. A. Rajput and M. Atiq	First Report of Lasiodiplodia pseudotheobromae Causing Stem End Rot of Mango Fruit in Pakistan	2021	Plant Disease, 105(8), 2249	4.614
13	Sarfraz, S., Sahi, S.T., Oulghazi, S., Riaz, K., Rajput, N.A., Atiq, M., Tufail, M.R., Hameed, A. and Faure, D.,	Species diversity of Dickeya and Pectobacterium causing potato blackleg disease in Pakistan.	2020	Plant Disease, 104(5), pp.1492-1499.	4.614

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Kachelo, G.A. S.T. Sahi, N.A. Rajput, M.A. Khan and M. Atiq.	Impacts of copper hydroxide on leaf biochemical changes and on induction of resistance in chilli plants against bacterial wilt.	2024	Archives of Phytopathology and Plant Protection	1.0
2	Ahmad, I., K. Mazhar, M. Atiq, A.K. Khalaf, M.H.U. Rashid, M. Asif, S. Ahmed, Z. Adil, A. Fayyaz, M.K.Al- Sadoon, H.S. Al- Otaibi	Epidemiology and management of Fusarium wilt of <i>Eucalyptus</i> camaldulensis through systemic acquired resistance	2024	PeerJ	2.3
3	Atiq,M., Muhammad F.A., N.A. Rajput, A.Hameed, Salman A, Muhammad U, Abuzar,H, Ahmad,N, Shahid I, Hadeed A,	Surveillance and management of brown spot of potato	2024	Achieves of Phytopathology and Plant Protection	1.0
4	Usman, M., M. Atiq, N.A. Rajput, S.T. Sahi, M. Shad, N. Lili, S. Iqbal, A.M. Arif, U. Ahmad, K.S. Khan, M. Asif, F.U. Haider	Efficacy of Green Synthesized Silver Based Nanomaterials against Early Blight of Tomato Caused by Alternaria solani	2024	Gesunde Pflanzen	2.4

	Atia M M7				1
5	Atiq, M., M.Z. Talib, N.A. Rajput, S.T. Sahi, M.A. Khan, M. Usman, A. Jabar, M.J. Arif, M.D. Gogi, M.A. Khan and A. Akram	Newfangled tactics towards cotton leaf curl virus disease A review.	2023	Journal of Natural Fibers	2.8
6	Liaqat, N., M. A. Khan, <b>M. Atiq</b> , M. A. Khan	Influence of environmental factors on the development of potato blackleg disease	2022	Applied Ecology and Environmental Research 20(2): 1325-1333.	0.816
7	Saleem, M., M. ul Hasan, M. Sagheer, and <b>M. Atiq</b>	Determination of insecticide resistance in <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae) populations from Punjab, Pakistan	2021	International Journal of Tropical Insect Science 41(2): 1799-1808.	0.774
8	Aslam, H.M.U., S. Ali, <b>M. Atiq</b> , M. Z. Mansha, H.M. Aatif, H. A. Anwaar and K. Naveed	First report of brown leaf spot of rice caused by <i>Curvularia spicifera</i> in Pakistan	2020	Journal of Plant Pathology. 1-2	2.643
9	Nawaz, A., H. Ali, M. D. Gogi, S. Fiaz, M. Arfan, M. A. Khan, M. Qasim, <b>M.</b> <b>Atiq</b> and K. A. Khan	Resistance assessment of different cultivars of okra (Abelmoschus esculentus) against whitefly (Bemisia tabaci)	2020	Gesunde Pflanzen. 1-9.	0.738
10	Rajput, N. A., H. Ullah, C. Huo, J. Cao, M. Atiq, R. M. Atif, A. M. Lodhi, R. N. Syed, S. Sarfraz, A. Hameed and Z. Zhao	First report of <i>Curvularia</i> verruculosa causing leaf spot disease of grape (Vitis vinifera) in Afghanistan	2020	Journal of Plant Pathology. 1-1.	2.643
11	Hameed, A., M. Atiq, N. Javed, A. Ahmad and Z. Ahmed Applied	Progressive alterations in mineral profiling of citrus infected with canker caused by <i>Xanthomonas</i> axonopodis pv. citri (hasse)	2020	Applied Ecology and Environmental Research. 17: 6: 13625-13642	0.816
12	Rajput, N. A., B. Zaman, C. Huo, J. Cao, M. Atiq, A. M. Lodhi, R. N. Syed, B. Khan, O. Iqb and Z. Zhao	First report of Fusarium equiseti causing stem rot disease of grape (Vitis vinifera L.) in Afghanistan	2020	Journal of Plant Pathology. 1-1.	2.643
13	Ahmed, I., M. Atiq, M. F. Nawaz, S. Ahmed, M. Asif, S. Gull, M. A. Tanveer, M. Abdullah, M. F. Azhar and N. A. Rajput	Prediction of Dieback Disease of <i>Dalbergia</i> sissoo (Shisham) based upon Environmental Factors and Tree Age	2019	Applied Ecology and Environmental Research http://dx.doi.org/10.15666/aeer/.	0.816

14	Ali, Y., M. A. Khan,	An assessment of the	2019	Applied Ecology and	0.816
	M. Hussain, M.	genetic diversity in selected		Environmental Research 17(1),	
	Atiq, J. N. Ahmad	wheat lines using		931-950.	
		molecular markers and pca-			
		based cluster analysis			

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1	Hameed, A., M. Atiq, N.A. Rajput, H. Alsamadany, Y. Alzahrani, M.W. Alam, F. Ali and Z. Ahmed	In-vitro Antibacterial Potential of Antibiotics against Xanthomonas axonopodis pv. citri	2022	Fresenius Environmental Bulletin 29(01):9614- 9620	0.618
2	Arshad, A., H.M.I Arshad, <b>M. Atiq</b> , S.T. Sahi, S. Ali, N.A. Rajput, B. Ashfaq	Response of rice cultivars against toxins produced by <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> causing bacterial leaf blight disease	2022	Fresenius Environmental Bulletin. 31(6): 5396- 5402.	0.618
3	Imran, M., S. T. Sahi, M. Atiq, S. Mustafa, M. A. Siddique, M. N. Asghar, M. Yasir, M. Saleem	Appraisal of antifungal potential of new chemistry fungicides against brown leaf spot of rice caused by Bipolaris oryzae	2021	Fresenius Environmental Bulletin. 03(06B): 7298- 7308	0.618
4	Hameed, A., M. Atiq, N. A. Rajput, S. T. Sahi, S. Sarfraz, H. A. Alsamadany, A. M. Lodhi, F. A. Tahir, N. Liaqat and Z. Ahmed	Assessment of genetic potential of citrus germplasm against citrus canker caused by Xanthomonas axonopodis pv. citri	2020	Fresenius Environmental Bulletin. 29: 3557-3563	0.618
6	Ali, Y., M. A. Khan, M. Hussain, W. Sabir, M. Atiq, H. M. Aatif, S. Ahmad, M. ijaz and J. N. Ahmad	Virulence analysis of leaf and stripe rust populations in Pakistan through avirulence to virulence formula	2020	Archives of Phytopathology and Plant Protection, 53, no. 17-18 (2020): 844-855	0.735
7	Atiq, M., I. Naeem, S. T. Sahi, N. A. Rajput, E. Haider, M. Usman, H. Shahbaz, K. Fatima, E. Arif and A. Qayyum	Nanoparticles: a safe way towards fungal diseases	2020	Archives of Phytopathology and Plant Protection, <i>53</i> (17-18), pp.781-792.	0.735

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1					
2					

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- 3			
5			

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1.	Atiq, M., L. Malik, N.A. Rajput, M. Shabbir, M. Ashiq, M.J. Matloob, A. Waseem, A. Jabbar, A. Ullah, R. Zawar and A. Majeed.	Evaluating the efficacy of plant-mediated copper-silver nanoparticles for controlling cercospora leaf spot in mung beans.	2024	Plant Protection	Nill
2.	Fatima, T., M. Atiq, L. Aamrao, M.M. Jahangir, J. Shafi, A. Nawaz, M.J. Matloob, A. Ullah, N.R. Khan, A. Ijaz and H. Riasat.	Evaluation of chemical treatments for managing bacterial leaf spot in chili caused by <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> .	2024	Plant Protection	Nill
3.	Mazhar, K., I. Ahmad, M. Atiq and M.F. Nawaz.	Activation of defense system of eucalyptus plants towards bacterial blight disease by using plant activators and nutrients.	2024	Journal of Xi'an Shiyou University, Natural Science Edition.	Nill
4.	Hussain, M., I. Ahmad, M. Atiq and M.F. Nawaz.	Trichoderma spp. As biological control agents to manage the leaf spot disease of <i>Eucalyptus camaldulensis</i> caused by <i>curvularia lunata</i> .	2024	Journal of Xi'an Shiyou University, Natural Science Edition	Nill
5.	Shahbaz, Z., M. Asif, M. Atiq, I. Ahmad, P. Wu, S. Hafeez, M. Sohail, M. Hussain, M.H.U. Rashid.	Antifungal Potential of Synthetic Chemicals and Phytoextracts towards Leaf Spot of <i>Pongamia pinnata</i> .	2023	Journal of Xi'an Shiyou University, Natural Science Edition	Nill
6.	Atiq, M., A. Akram, N.A. Rajput, A. Nawaz, M. Usman, A. Jabbar, W.U. Din, S. Iqbal, M. Usman Anwar, M. Ammar.	Management tactics towards red rot; cancer of sugarcane –a review.	2023	Journal of Xi'an Shiyou University, Natural Science Edition	Nill
7.	Iqbal, S., <b>M. Atiq</b> , S.T. Sahi, N. Akbar.	Elucidation of biochemical alterations in citrus cultivars due to brown spot.	2023	Journal of Xi'an Shiyou University, Natural Science Edition	Nill
8.	Shahbaz H., <b>M. Atiq</b> , N.A. Rajput, M.A. Khan. 2023.	Managing citrus canker: Evaluating the effectiveness of antibiotics and chemicals for disease control	2023	International Journal of Phytopathology	Nill
9.	Atiq M., T. Fatima, N.A. Rajput, M. Usman, G.A. Kachelo, U. Ahmed, A.M. Arif, A. Nawaz, M. Kashif, M. Ashraf	Moringa olefra plant based copper and silver nano particles and its antibacterial activity towards leaf spot of chilli caused by Xanthomonas campestris pv. vesicatoria.	2023	International Journal of Phytopathology	Nill

10.	Arooj S., S. Ahmad, M. Akhter, <b>M. Atiq</b> , A. Rashid, M.E.U. Haq, M.A. Rehman, M Kamran, A. Intisar, M. Asim	Epidemiology of rice blast ( <i>Pyricularia oryzae</i> ) disease in central Punjab, Pakistan	2023	International Journal of Phytopathology	Nill
11.	Ahmad S., M. Asim, M.Z. Majeed, <b>M. Atiq</b> , Y. Ali, H.B. Ahmad, M.A. Rehman, N. Akhtar	Population Dynamics and Epidemiology of Diaphorina citri in Relation to yield Losses Caused by Citrus Greening	2023	Punjab University Journal of Zoology	Nill
12.	Ahmad H., N.A. Rajput, M. Atiq, G.A. Kachelo, M. Usman, H. Tariq and M. Wahab	Detection of <i>phytophthora nicotianae</i> induced citrus gummosis by the loop-mediated isothermal amplification	2024	Pakistan Journal of Botany	0.9
13.	Usman M.A., N.A. Rajput, <b>M. Atiq</b> , R.M. Atif, S.G. Crandall.	Population dynamics and aggressiveness of fungal pathogens associated with chilli root rot	2024	Pakistan Journal of Botany	0.9
14.	Zuniara Akash, Nasir Ahmed Rajput, <b>Muhammad Atiq</b> and Aman Ullah Malik	Assessment of synthetic fungicides against wilt of chilli caused by <i>Fusarium oxysporum</i> f. sp. <i>capsici</i>	2022	Pakistan Journal of Agricultural Sciences. 59(3), pp.485-492	0.618
15.	Hameed, A., M. Atiq, S.T. Sahi, N.A. Rajput, H. Alsamadany, Y. Alzahrani, Z.H. Shah, M.W. Alam, N. Liaqat and Z. Ahmed	Biochemical base of resistance in citrus against canker disease	2022	Pakistan Journal of Agricultural Sciences. 58(6): 1857-1865	0.618
16.	Muhammad, N., N.A. Rajput, <b>M. Atiq</b> , S.T. Sahi, A. Rehman, A. Hameed, G.A. Kachelo and S. Ahmed	Integrated Management of Fusarium Wilt of Chilli Caused by Fusarium oxysporum f. sp. capsici Through Different Management Approaches	2022	Pakistan Journal of Botany. 54(5): 1-8	0.672
17.	Rajput, N. A., <b>M. Atiq</b> , A. M. Lodhi, R. N. Syed, A. Hameed, Owais Iqbal and B. Khan	Characterization of Soil Inhabiting Fungi <i>Mortierella</i> <i>Capitata</i> in Pakistan	2021	Pakistan Journal of Botany 53(6): 1-4.	0.672
18.	Ali, S., <b>M. Atiq</b> , S.T. Sahi, and M. Arshad	Mineral profiling of resistance and susceptible tomato varieties against <i>Alternaria solani</i> causing early blight	2021	Pakistan Journal of Agricultural Sciences, 58(4)	0.618
19.	Khan, B., N. Javed, S. A. Khan, N. A. Rajput, M. Atiq, A. Jabbar, A. Rehman, A. Moosa and M. A. Ali.	Potential of entomopathogenic nematode ( <i>Steinernema kraussei</i> ) against last instar larvae of different lepidopteran insect pests.	2020	Pakistan Journal of Zoology. 52:4	0.750

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

S#	Authors	Title	Year	Journal Detail	Impact Factor
1.	Shabir, S., M. Atiq, G.A. Kachelo, M.U. Ali, A. Nawaz, M.H. Furqan, M.E. Khan, H. Ahmad, M. Wahab and N.A. Rajput	Integrated Management of Alternaria Leaf Spot in Cabbage caused by Alternaria brassicicola using Chemicals and Phyto Extracts	2024	Journal of Agriculture and Biology	Nill
2.	Manzoor, F., M. Atiq, M. Aleem, K. Naveed, N.A. Khan, G.A. Kachelo, M.U. Ali, F. Ali, M. Haris and N.A. Rajput	Appraisal of antifungal potential of chemicals and plant extracts against brown leaf spot of soybean caused by Septoria glycine	2024	Plant protection	Nill
3.	Hasnain, A., <b>M. Atiq</b> , N.A. Rajput, A. Nawaz, W. Ahmad, M. Akhtar, Z. Adil, A. Waseem, A. Ijaz and Asad Ullah	Biocidal function of trichoderma-derived secondary metabolites against Fusarium wilt of pea	2024	Plant protection	Nill
4.	Yaqoob, F., <b>M. Atiq,</b> N.A. Rajput, A. Nawaz, M. Kashif, M.J. Matloob, A. Jabbar, W. Din, F. Ali and A. Ullah	Appraisement of chemotherapy, plant defense activators, and genetic resistance against eyespot disease in sugarcane	2024	Plant protection	Nill
5.	Ali F., <b>M. Atiq</b> , N.A. Rajput, I. Ahmad, M.A. Latif, M.A. Aslam, M.J. Matloob, M. Mehtab, A. Ijaz and M. Qasim	Intervention of Bacterial Leaf Spot of Bell Pepper through Neem Mediated Copper and Zinc Hybrid Nanoparticles	2024	Phytopathogenomics and Disease Control	Nill
6.		Integrated Management of Leaf Spot of Aloe Vera Caused by Alternaria alternata through Chemicals and Plant Extracts	2024	Phytopathogenomics and Disease Control	Nill
7.	Iqbal, S., M. Atiq, M. Fayyaz, M. Zakria, N.A. Rajput, G.A. Kachelo, I. Ahmad, M. Usman and A. Mehmood	Powdery mildew of mango: current status, perspective and emerging tools for management.	2024	Agricultural Sciences Journal	Nill
8.	Aslam N., <b>M. Atiq</b> , N.A. Rajput, A. Akram, A.M. Arif, G.A. Kachelo, A. Nawaz, M.M. Jahangir, A. Jabbar and A. Ijaz	Explicating botanical bactericides as an intervention tool towards citrus canker	2024	Plant protection	Nill
9.	Shaheen, M.H.U., N.A. Rajput, <b>M. Atiq</b> , G.A. Kachelo, H. Ahmad, M. Wahab, M.F. Tahir and A. Hasnain	Antifungal potential of medicinal plant extracts against brown leaf spot (BLS) disease of rice caused by <i>Bipolaris oryzae</i>	2024	Sarhad Journal of Agriculture	Nill

10.	Nasir S., <b>M. Atiq</b> , M.M. Jahangir, M.J. Arif, M.D. Gogi, M. Azam, R.W. Khan, M.J. Matloob, M.U. Anwar, W. Ahmad	Evaluating the Efficacy of Chemicals and Antibiotics in Combating Bacterial Leaf Blight of Tomato	2023	Plant Protection	Nill
11.	Batool A., N.A. Rajput, M. Atiq, N.A. Khan, A. Hameed, M.E. Khan, G.A. Kachelo, H. Tariq.	Evaluation of antifungal potential of phytoextracts and chemicals against root rot of soybean caused by <i>Rhizoctonia solani</i> .	2023	Plant Protection	Nill
12.	Khan M., I. Ahmad, M. Atiq, M. Asif, M.H.U Rashid, S. Ahmed, H.M.F. Shaheen, W.U. Din, Z. Adil	Comparative assessment of various antibiotics for controlling bacterial blight in <i>Eucalyptus camaldulensis</i>	2023	Plant Protection	Nill
13.	Khan R.A., <b>M. Atiq</b> , N.A. Rajput, I. Ahmad, A. Hasnain, A. Nawaz, M. Mehtab, W. Ahmad	Assessment of phytoextracts and synthetic chemicals for controlling leaf blight of <i>Syzygium cumini</i> .	2023	Plant Protection	Nill
14.	Saeed S., H.M. Aatif, Y. Ali, S. Ahmad, C.M.S. Hanif, A.A. Khan, <b>M. Atiq</b> , M.A. Rehman, R. Hanif, S. Akhtar.	Assessing wheat germplasm for resistance against stripe rust, evaluating fungicides for its management and studying its correlation with epidemiological factors.	2023	Plant Protection	Nill
15.	Malik L., <b>M. Atiq</b> , N.A. Rajput, M. Usman, A. Akram, A. Jabbar, M.N. Zahid, W. Ahmad, M. Qasim, W.U. Din.	Induction of resistance in mungbean against Cercospora leaf spot through plant defense activators	2023	Agricultural Sciences Journal	Nill
16.	Atiq M., M. Kashif, N.A. Rajput, F. Yaqoob, A. Akram, L. Malik, A. Sultan, M. Akhtar, A. Waseem, Z. Adil	Comparative appraisement of synthetic chemicals, phytochemicals and host resistance towards <i>Fusarium moniliforme</i> causing stalk rot of maize.	2023	Agricultural Sciences Journal	Nill
17.		Assessment of different tomato varieties and chemotherapeutic compounds for controlling root rot disease caused by <i>Rhizoctonia solani</i>	2023	Agricultural Sciences Journal	Nill
18.	Tahir Z.B., <b>M. Atiq,</b> N.A. Rajput, A. Akram, A.M. Arif, S. Iqbal, S. Ali, A. Nawaz, M. Usman, A. Husnain	Determination of Biochemical base line of resistance against bacterial leaf spot of chilli after application of plant defense activators	2023	Journal of Global Innovations in Agricultural Sciences	Nill
19.	Ghaffar, A., M. Atiq, N.A. Rajput, T. Fatima, G.A. Kachelo, S. Ali and A. Jabbar	Chemotherapeutic management of <i>Ralstonia</i> solanacearum causing bacterial wilt of tomato.	2022	Agricultural Sciences Journal	Nill

20.	Atiq M., M. Ashraf, N.A. Rajput, S.T. Sahi, A. Akram, M. Usman, S. Iqbal, A. Nawaz, A.M. Arif, A. Hasnain	Determination of bactericidal potential of green based silver and zinc nanoparticles against bacterial canker of tomato	2022	Plant protection	Nill
21.	Iqbal, S., M.A. Khan, M. Atiq, N.A. Rajput, M. Usman, A.M. Arif, H. Shahbaz, A. Mushtaq and A. Akram	Mango Anthracnose: Global status and the way forward for disease management	2022	Journal of innovative sciences	Nill
22.	Atiq, M., N.A. Rajput, S.T. Sahi, A. Akram, M. Usman, G.A. Kachelo and H. Ahmad	A way forward towards the management of chilli anthracnose-a review	2022	Agricultural Sciences Journal	Nill
23.	Ashraf, M., M. Atiq, N.A. Rajput, A. Akram, T. Fatima, A. Ghaffar, A. Nawaz, M.I. Hassan, A. Hasnain and S. Ramzan	Determination of antibacterial potency of different chemicals towards bacterial canker of tomato caused by <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>	2022	Agricultural Sciences Journal	Nill
24.	Kachelo, G.A., N.A. Rajput, <b>M. Atiq</b> , S.T. Sahi, N.A. Khan, A. Hameed, N. Muhammad and M.S. Mushtaq	ntifungal efficacy of plant extracts and chemicals against Alternaria leaf spot disease of spinach	2022	Pakistan Journal of Agricultural Research	Nill
25.	Younas, M., K. Hussain, A. Ghaffar, M. Atiq, N. Hussain, W. Abbas, M.A. Khan, M. Nadeem and M. Irshad	Assessment of genetic variability in onion against purple leaf blotch disease under field conditions and its management	2022	Sarhad Journal of Agriculture, 37(x): xxxxxx.	Nill
26.	Mazhar, H. R., M. Atiq, N. A. Rajput, S. Ali, M. Usman, U. Ahmad, A. Nawaz, M. Faizan Ullah and S. Iqbal	Determination of Antibacterial Activity of Phytochemicals towards Xanthomonas citri Pv. citri Causing Citrus Canker	2021	Agricultural Sciences Journal, 3(2), 1-12.	Nill
27.	Khan, A. S., <b>M. Atiq</b> , N. A. Rajput, K. Fatima, E. Arif, A. Qayyum and H. Tariq.	Prevalence, epidemiology and management of canker disease caused by <i>Xanthomonas citri</i> pv. <i>citri</i> in Sargodha district of Pakistan	2021	Journal of Pure and Applied Agriculture, 6(3), 39-49.	Nill
28.	Tariq, H., N.A. Rajput, M. Atiq, S.T. Sahi, A. Rehman, A. Rashid, M.A. Khan, A. Hameed and W.M. Saddique	Resistance assessment of citrus varieties against gummosis disease caused by <i>Phytophthora nicotianae</i> under natural field conditions.	2021	Pakistan Journal of Agricultural Research, 34(4): 824-829.	Nill
29.	Younas, M., M. Atiq, N. A. Rajput, W. Abbas, M. R. Bashir, S. Ahmad, M. Sami	Induction of Resistance in Onion against Purple Blotch Disease through Chemicals.	2021	Asian Journal of Agriculture and Biology 2021(4) 1-7.	Nill

	Ullah, W. A. Bhatti, N. Liaqat, I. Ahmad.				
30.	Abbas, W., S. Rehman, A. Rashid, M. Kamran, <b>M. Atiq</b> and M. E. Haq.	Comparative efficacy of different plant extracts to manage the cotton leaf curl virus disease and its vector (Bemisia tabaci L.)	2020	Pakistan Journal of Agricultural Research. 33(1): 22-26	Nill
31.	Khalid, H., M. J. Jaskani, <b>M. Atiq</b> , S. H. Khan, N. A. Rajput, I. Ahmad, M. Azam, S. Khalid	Evaluation of Botanicals and Fungicides against Seed Borne Fungi and Germination of Rough Lemon Seeds	2019	Pakistan Journal of Phytopathology 31(02): 155-162	Nill

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

	NJ. List of Comercine Proceeding Papers/Prostracts etc.					
S#	Authors	Title	Year	Publishing Details		
1.	Atiq M., Rajput N.A., Rehman A., Malik L., Usman M., Nawaz A., Iqbal S., Arif AM., Kachelo GA.	Investigating the effectiveness of plant mediated copper silver nanoparticles in reducing Cercospora leaf spot in mungbean.	2024	8th International conference on Sustaining Livelihoods: Climate- Smart Agriculture for food security held on July 3-4, 2024 at University of Poonch Rawalkot.		
2.	Rajput, N.A., <b>Atiq, M</b> ., Rehman, A., Khan, NA., Usman M., Nawaz A., Wahab M., Ahmad H	Assessment of the biocidal Potential of desret phytopowders in controlling bacterial blight of pomegranate caused by Xanthomonas axonopodis pv. punicae.	2024	8 <sup>th</sup> International conference on Sustaining Livelihoods: Climate- Smart Agriculture for food security held on July 3-4, 2024 at University of Poonch Rawalkot		
3.	Mazhar, H.M.R, <b>Atiq</b> , M., Haq, ME.	Management of <i>Xanthomonas</i> citri pv. citri causing Citrus Canker through AgNPs and CuNPs.	2023	8th International Conference of Pakistan Phytopathological Society. "Sustainable Agriculture & Food Security: A nexus of Plant Pathogens, Climate Change and Water Challenges" held at The Islamia university of Bahawalpur, Pakistan on November 26-28, 2023.		
4.	M. U. Ali, N. A. Rajput, M. Atiq, A. Rehman, R. M. Atif, G. A. Kachelo, A. Hameed and A. Akram.	Comparative Efficacy of Oomycota Fungicides with Activity against <i>Phytophthora</i> <i>capsici</i> -induced Root Rot in Chilli.	2023	8th International Conference of Pakistan Phytopathological Society. "Sustainable Agriculture & Food Security: A nexus of Plant Pathogens, Climate Change and Water Challenges" held at The Islamia university of Bahawalpur, Pakistan on November 26-28, 2023.		

5.	M. H. Furqan, N. A. Rajput, <b>M. Atiq</b> , A. Rehman, M. U. Ali, K. Anwar, M. Wahab and Hadeed Ahmad.	Evaluation of Various Neem Products for Anti-Oomycete Activity in Controlling DampingOff Disease in Papaya Seedlings caused by Pythium aphanidermatum.	2023	8th International Conference of Pakistan Phytopathological Society. "Sustainable Agriculture & Food Security: A nexus of Plant Pathogens, Climate Change and Water Challenges" held at The Islamia university of Bahawalpur, Pakistan on November 26-28, 2023.
6.	Wahab A., N. A. Rajput, <b>M. Atiq</b> , G. A. Kachelo and H. Ahmed.	Real Time Assessment to Estimate Potential Resistance in Kinnow Mandarin against Citrus Gummosis.	2023	8th International Conference of Pakistan Phytopathological Society. "Sustainable Agriculture & Food Security: A nexus of Plant Pathogens, Climate Change and Water Challenges" held at The Islamia university of Bahawalpur, Pakistan on November 26-28, 2023.
7.	Imran. M., <b>M. Atiq</b> , Shahbaz Talib Sahi, Nasir Ahmed, Hafeez ur Rehman, M. Nadeem Asghar, M.Usman and M. Asif.	Exploitation of Different Pesticides against the Management of Brown Spot of Rice.	2023	8th International Conference of Pakistan Phytopathological Society. "Sustainable Agriculture & Food Security: A nexus of Plant Pathogens, Climate Change and Water Challenges" held at The Islamia university of Bahawalpur, Pakistan on November 26-28, 2023.
8.	Usman, M., M. Atiq, N.A. Rajput, M. Shad	Efficacy of plant activators on mineral profile of eggplant infected with Fusarium oxysporum	2022	7th International Conference on "Climate Smart Agriculture: Innovations and Adaptions" organized by University of Poonch Rawalakot, Pakistan on June 15-17, 2022. PP 62.
9.	Usman, M., M. Atiq, N.A. Rajput, M. Shad, S. Iqbal, A.M. Arif.	Sustainable management strategies for fusarium wilt of sweet peppers ( <i>Capsicum</i> <i>annuum</i> ) and other solanaceous crops	2022	7th International Conference on "Climate Smart Agriculture: Innovations and Adaptions" organized by University of Poonch Rawalkot, Pakistan on June 15-17, 2022. PP 77
10	Atiq, M., N. Aslam, N.A. Rajput, M. Usman, S, Iqbal, A. Nawaz	Apraisal of phytoextracts agaisnt <i>Xanthomonas citri</i> PV. <i>Citri</i> causing citrus canker	2022	7th International Conference on "Climate Smart Agriculture: Innovations and Adaptions" organized by University of Poonch Rawalkot, Pakistan on June 15-17, 2022. PP 75
11	Rajput, N.A., M. Atiq, I. Naeem, M. Usman, S. Iqbal, A. Nawaz, T. Fatima, F. Yaqoob, M. Kashif, M. Ashraf	Screening of brinjal cultivars against leaf blight caused by <i>Curvularia lunuata</i> in relation to epidemiological factors	2022	7th International Conference on "Climate Smart Agriculture: Innovations and Adaptions" organized by University of Poonch Rawalkot, Pakistan on June 15-17, 2022. PP 76
12	Iqbal, S., M.A. Khan, <b>M. Atiq</b> , N.A. Rajput, M. Usman, A.M. Arif, A. Nawaz, A. Akram	Evaluation of nutrients and phenolic antioxidants against citrus canker	2022	7th International Conference on "Climate Smart Agriculture: Innovations and Adaptions" organized by University of Poonch Rawalkot, Pakistan on June 15-17, 2022. PP 80
13	Nawaz, A., <b>M. Atiq</b> , S.T. Sahi, N.A. Rajput, M. Usman, S. Iqbal, H.	Appraisal of endophytic bacteria against sugarcane smut caused by <i>Sporisorium scitamineum</i> under green		7th International Conference on "Climate Smart Agriculture: Innovations and Adaptions" organized by University of Poonch Rawalkot,

	Ahmad, A. Akram.	house		Pakistan on June 15-17, 2022. PP 95
14	Usman, M., M. Atiq, N.A. Rajput, M. Shad, S. Iqbal, A. Nawaz and A. Sultan.	Impact of exogenous application of salicylic acid on biochemical attributes of chilli plant infected with cercospora leaf spot	2022	1st International Conference on "Plant Protection Sciences" organized by Sindh Agriculture University Tandojam on 29-30 March, 2022. ICPPS/B/0201
15	Iqbal, S., M.A. Khan, <b>M. Atiq</b> , N.A Rajput, M. Usman, A. Nawaz and A. Akram	Brown spot of citrus: A serious threat to citrus production	2022	1st International Conference on "Plant Protection Sciences" organized by Sindh Agriculture University Tandojam on 29-30 March, 2022. ICPPS/B/0197
16	Iqbal, S., M.A. Khan, <b>M. Atiq</b> , N.A Rajput, M. Usman and M.U. Rehman	Management of citrus canker through application of nutrients and antioxidants	2022	1st International Conference on "Plant Protection Sciences" organized by Sindh Agriculture University Tandojam on 29-30 March, 2022. ICPPS/B/0215
17	Tariq, H., N. A. Rajput, M. Atiq, S.T. Sahi, A. Hameed, H. Ahmad, M. Usman and A. Nawaz	Factorial analysis of soil and environmental factors in relation to development of citrus gummosis caused by <i>Phytophthora nicotianae</i>	2022	1st International Conference on "Plant Protection Sciences" organized by Sindh Agriculture University Tandojam on 29-30 March, 2022. ICPPS/B/0195
18	Usman, M., M. Atiq, N.A. Rajput, M. Shad, A.M. Arif, S. Iqbal, F. Yaqoob and M. Kashif	Antifungal potential of different fungicides towards Collar rot disease of chili caused by <i>Sclerotium rolfsii</i> in relation to epidemiological factors	2022	2 <sup>nd</sup> International conference on " <i>Plant Protection Sciences</i> " organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-207
19	Usman, M., M. Atiq, N.A. Rajput, S.T. Sahi, M. Shad, S. Iqbal and A. Nawaz.	Impact of Potassium Dihydrogen Phosphate on the Activation of Defense Mechanism if Chili Plant Infected with Colletotrichum capsici	2022	2 <sup>nd</sup> International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-208
20	Ahmad, H., N.A. Rajput, M. Atiq, S.T. Sahi, A. Hameed, H. Tariq, M. Usman and A. Nawaz	Specific and sensitive detection of <i>Phytophthora</i> nicotianae causing citrus gummosis by loop-mediated isothermal amplification assay	2022	2 <sup>nd</sup> International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-203
21	Muhammad, N., N.A. Rajput, M. Atiq, S.T. Sahi, B. Khan, M.U. Ali, G.A. Kachelo and M. Usman	Epidemiological aspects for the development of Fusarium wilt of chilli caused by Fusarium oxysporum f. sp. capsici	2022	2 <sup>nd</sup> International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-210
22	Nawaz, A., M. Atiq, S.T. Sahi, N.A. Rajput, M. Usman, M. Shad, S. Iqbal and H. Ahmad.	Response of various sugarcane varieties against rust caused by <i>Puccinia melanocephala</i>	2022	2 <sup>nd</sup> International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-211
23	Ghaffar, A., M. Atiq, N.A. Rajput,	Efficacy of various fungicides against stripe rust caused by	2022	2 <sup>nd</sup> International conference on "Smart Plant Protection" organized

	M. Usman, T. Fatima, M. Ashraf and M. Kashif.	Puccinia striiformis with relation to epidemiological factors		by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-
24	Iqbal, S., M.A. Khan, <b>M. Atiq</b> , N.A. Rajput, M. Usman, A.M. Arif, H. Shahbaz, A. Mushtaq and A. Akram.	An insight into Manage Anthracnose: Global status and the way forward for disease management	2022	PP-213  2nd International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP- PP-223
25	Iqbal, S., M.A. Khan, M. Atiq, N.A. Rajput, M. Usman, G.A. Kachelo, A. Sultan, A. Nawaz, H. Shahbaz and Z.B. Tahir	Citrus Brown Spot: An Emerging Threat to Citrus Industry	2022	2 <sup>nd</sup> International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-224
26	Iqbal, S., M.A. Khan, M. Atiq, N.A. Rajput, M. Usman, G.A. Kachelo, A. Sultan, A. Nawaz, A. Akram and Z.B. Tahir	Efficacy of AgNPs and Phytoextracts Against Brown Spot of Citrus		2 <sup>nd</sup> International conference on "Smart Plant Protection" organized by Institute of Plant Protection, MNS University of Agriculture Multan, Pakistan on March 9-10, 2022. SPP-PP-261
27	Atiq, M., S. Latif, N.A. Rajput, M. Usman, H. Ahmad, H. Tariq and A. Nawaz	Impact of plant activator on Fusarium oxysporum and mineral profile of tomato	2021	4th International Symposium on "Advances in Molecular Biology of Plants & Health Sciences" organized by CEMB, PU Lahore on December 23-24, 2021
28	Tariq, H., N.A. Rajput, <b>M. Atiq</b> , S.T. Sahi, A. Hameed, M. Usman, H. Ahmad and G.A. Kachelo	Assessment of different chemicals and their combinations against <i>Phytophthora nicotianae</i> , causing citrus gummosis	2021	4th International Symposium on "Advances in Molecular Biology of Plants & Health Sciences" organized by CEMB, PU Lahore on December 23-24, 2021
29		Citrus Greening: A Serious threat to Citrus Industry	2021	4th International Symposium on "Advances in Molecular Biology of Plants & Health Sciences" organized by CEMB, PU Lahore on December 23-24, 2021
30	Usman, M., M. Atiq, N.A. Rajput and H. Tariq.	Fusarium wilt: a major deviator of chilli production-a review	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 55
31	Usman, M., M. Atiq, N.A. Rajput, S.T. Sahi, M. Shad, A.M. Arif, S. Iqbal, G.A. Kachelo, H. Tariq and A.	Nanotechnology: a fangled approach towards plant disease management	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 251

	Nawaz.			
32	Usman, M., M. Atiq, N.A. Rajput, A.M. Arif, S. Iqbal, A. Nawaz, A. Sultan, H. Shahbaz and N. Rehman.	Resistance potential of wheat germplasm against leaf rust in relation to epidemiological factors and its management	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 70
33	Usman, M., M. Atiq, K. Naveed, N.A. Rajput, H. Tariq and S. Iftekhar.	Role of environmental factors in the expansion of leaf rust of wheat caused by <i>Puccinia</i> triticina	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 77
34	Naqash, M.D., M. Atiq, N.A. Rajput, M. Usman, U. Ali, G.A. Kachelo, A. Nawaz, I. shahzad, M.N. Anjum and A.M. Arif.	Genetic variability of Fusarium oxysporum associated with chickpea wilt	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 34
35	Fatima, T., M. Atiq, N.A. Rajput, M. Usman, M.U. Ali, A.M. Arif and H. Ahmad.	Bacterial leaf spot: an emerging threat to successful production of chilli crop	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 194
36	Fatima, T., M. Atiq, N.A. Rajput, M. Usman, M. Ashraf, A. Ghaffar, T. Aimen and M. Imran	Biopesticides: a safe way towards pest management	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 198
37	Iftekhar, S., N.A. Rajput, M. Atiq, A. Rehman, A. Sultan, A. Hameed, S. Iqbal and M. Usman.	Antifungal effect phytoextracts on management of <i>Phytophthora capsici</i> causing phytophthora blight in chilli ( <i>Capsicum annum</i> L)	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 239
38		Application of fragmented and un-fragmented DNA from fungal plant pathogens as crop protection strategy to cope with root rot in chili	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 243
39	Iftekhar, I., N.A. Rajput, <b>M. Atiq,</b> A. Rehman, A. Sultan, A. Hameed, M. Usman and H. Tariq.	In vivo and in vitro evaluation of fungicides against phytophthora blight disease of chilli caused by <i>Phytophthora capsici</i> .	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 245
40		In vitro effect of fungicides against fruit rot of grapes caused by <i>Alternaria alternata</i>	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at

	N. Muhammad and N.A. Rajput			University of Agriculture, Faisalabad on November 21-23, 2021. Pp 42
41	Nawaz, A., M. Atiq, N.A. Rajput, M. Usman, M. Imran and H. Ahmad.	Assessment of antibiotics against <i>Acidovorax avenae</i> causing red stripe disease in sugarcane	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 174
42	Afzal, A., M. Atiq, N.A. Rajput, A. Hameed, S.T. Sahi, M. Usman, S. Iqbal, A. Nawaz and M.F. Ullah.	Exploitation of nutrients and phenolic antioxidants in controlling citrus canker	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 178
43		Variations in different isolates of <i>Xanthomonas citri</i> pv. <i>citri</i> causing canker on the basis of symptoms expression	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 179
44	Arif, A.M., M. Atiq, N.A. Rajput, M. Usman, H. Shahbaz, N. Rehman, S. Iqbal and A. Rehman.	Management of mango bacterial black spot (MBBS) through nanoparticles	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 181
45		Antibacterial efficacy of synthetic chemicals towards bacterial canker of tomato caused by <i>Clavibacter michiganesis</i> subsp. <i>michiganesis</i>	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 188
46		Efficacy of different antibiotics and chemicals against bacterial leaf blight disease of rice caused by Xanthomonas oryzae pv. Oryzae	2021	7th International Conference of Pakistan Phytopathological Society on "Phytopathology: Current Scenario & Future Prospects" held at University of Agriculture, Faisalabad on November 21-23, 2021. Pp 196
47	Ali, F., A. Hameed, A. Rehman, M. Atiq, N. A. Rajput, S. Sarfraz, and S. Z. H. Sherazi	Crispr / cas9 and its impact on plant science	2019	Humboldt Kolleg International Conference on Microbes for Sustainable Agriculture to be held F.C College University Lahore Pakistan 25-28 March 2019. Pp. 50
48	Imran, M., S. T. Sahi, <b>M. Atiq</b> , S. Mustafa, A. Habib, M. Nadeem and G. Akbar	Chemicals Efficacy Against Brown Leaf Spot of Rice Under Field Condition.	2019	6th International Conference on Sustainable Agriculture in Changing Climate: Strategies and Management. University of the Poonch Rawalakot Azad Jammu and Kashmir, Pakistan. June 19-21,2019. pp. 234

# 21. List of Seminars/Conferences attended

S#	Organizers	Conference Title/Theme	Year	Presentation (oral/poster)	Other Details	
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1.	Faculty of Agriculture University of Poonch Rawalakot	Agriculture University of Poonch University of Poonch Smart Agriculture		Attended	8th International Conference
2.	Institute of Botany, Bahauddin Zakariya University Multan & and Botanical Society of Pakistan	"Capitalizing Plant Diversity for Ensuring Food Security"	October 28- 30, 2024.	Attended	9th International Conference & 18th National Conference of Plant Scientists
3.	The islamia university of Bahawalpur, Pakistan	"Sustainable Agriculture & Food Security: A nexus of Plant Pathogens, Climate Change and Water Challenges"	November 26-28, 2023.	Attended	8th International Conference of Pakistan Phytopathological Society.
4.	Department of Plant Pathology College of Agriculture, UOS on Thursday	Integrated Management of Citrus Huanglangbing Disease: with Special Reference to Community Immunity	November 30, 2023	Attended	International Seminar
5.	Islamia University of Bahawalpur & Pakistan Phytopathological Society  Stealth Pathogens: The Sooty Blotch and Flyspeck Fungal Complex		20-04-2021	Attended	International Webinar
6.	COMSTECH, International Center for Chemical and Biological Science (ICCBS), and Pakistan Biotechnology Information Center (PBIC), Karachi	Basic Plant Tissue Culture Technology	16-17 February 2021	Attended	Online Certificate Course
7.	MNS-University of Agriculture, Multan Pakistan	Smart Plant Protection held on	27-28 January, 2021	Attended	International Conference
8.	Bayer Crop Science with collaboration UAF	Appreciate and Advance together	8 <sup>th</sup> September 2020	Attended	1 <sup>st</sup> Virtual Safe Use Ambassador Conference
9.	Department of Agriculture, Microbiology and		16-17 August 2020	Attended	National Online Quiz
10	Promega Biotech pvt. India	Battle against novel coronavirus	05 August 2020.	Attended	Online
11	Horticulture Research China	7 <sup>th</sup> International Horticulture Research Conference	1 <sup>st</sup> -30 <sup>th</sup> July 2020	Attended	Online

12		Journey from Bio-	9 July 2020.		
		fortification in food	2020.		
		crops to including			
	Bioingene Plant	nutritional traits in			Online
	Science Research	varietal			Offinic
		identification and			
		release in Pearl		A 1 1	
13		millet Development of	08 July 2020	Attended	
13		genetic and	08 July 2020		
	D' DI	genomic resources			
	Bioingene Plant Science Research	in foxtail millet:			Online
	Science Research	Progress and			
		prospects,			
1.4		Organized by	C X 1 2020	Attended	
14		Development of	6 July 2020		
	Bioingene Plant Science Research	climate change resilient rice			Online
	Beience Restaten	varieties through			Gilline
		molecular breeding.		Attended	
15		2 <sup>nd</sup> international	18-19		
	University, Ataturk	Agriculture,	October 2019		2 <sup>nd</sup> international
	Kultur Merkezi	Environment and			2 menational
1.0	Aydın, Turkey	Health Congress		Oral	
16	F.C College	Microbes for	25-28 March		Humboldt Kolleg
	University Lahore	Sustainable	2019		International
	Pakistan	Agriculture		Attended	Conference
17	Office of Research,	Two days Seminar	March 19-20,	Attended	Training Workshop
	Innovation &	on "Biosafety	2019		
	Commercialization	Measures in			
	(ORIC) University of	Agriculture: Issues			
	Agriculture, Faisalabad in	and Options"			
	collaboration with				
	Punjab Agriculture				
	Research Board				
	(PARB)				
18	Institute of	Conference on	February 13-	Attended	National Conference
	Environmental	Innovations in	15, 2019		
	Sciences University	Agriculture			
	of Agriculture Faisalabad Pakistan				
	And Pakistan				
	Agriculture Sciences				
	Forum (PAS Forum)				
19	1	One Day Seminar	March 28th,	Attended	Seminar
	Forestry and Range	on Agroforestry on	2019		
	Management	Problematic Soils			
	University of Agriculture	in Faisalabad and			
	Faisalabad	Adjoining Districts,			
20		International	April 08-10,	Attended	International
	Department of	Entomological	2019		Congress
	Entomology and	Congress-2019			-

	Pakistan	Covering Emerging			
	Entomological	Entomological			
	Society, University of	Challenges and			
	Agriculture,	Their Solutions			
	Faisalabad				
21	Department of Plant	One day Workshop	February 11,	Attended	Training Workshop
	Pathology, University	on Laboratory	2019		
	of Agriculture,	Biosafety			
	Faisalabad in				
	collaboration with				
	Pakistan Biological				
	Safety Association				
	(PBSA)				

22. List of Seminars/Conferences/Trainings arranged

S#	Organizers	Role	Year	Other Details
1	Dr. Muhammad Jalal Arif Dr. Muzammal Jahangir (PI) Dr. Muhammad Atiq Dr. Rashid Waseem Khan Qadri Dr. Muhammad Dildar Gogi Dr. M,Jafar Jaskani Dr. Shoaib –ur- Rehman Dr. Abid Ali Dr. M. Sufyan Dr. Tariq Aziz	Patron Organizer Convener Focal person Secretary Member Member Member Member Member Member Member	2022	One day Community meeting "Popularization of home gardening in urban and peri-urban areas of Punjab (Zone-1: Lahore and Okara)" 18 and 19 th October 2022
2	Dr. Muhammad Jalal Arif Dr. Rashid Waseem Khan Qadri Dr. Muzammal Jahangir Dr. Muhammad Dildar Gogi Dr. Muhammad Atiq Dr. M,Jafar Jaskani Dr. Mohsin Bashir Dr. Awais Ghani Dr. M. Tayyab	Patron Organizer Convener Focal person Secretary Member Member Member Member	2022	One day Community meeting "Popularization of home gardening in urban and peri-urban areas of Punjab (Zone-III: Lahore and Okara)" 17 <sup>th</sup> and 20th October-2022
3	Dr. Muhammad Atiq	Member of Organizing comittee	2022	7 <sup>th</sup> International Conference of Pakistan Phytopathological Society
4	Dr. Nasir Ahmed Dr. Abdul Rehman Dr. Muhammad Atiq Dr. Khurram Ziaf	Convener Member Member Member	2022	A seminar on "Diagnosis and management of chilli diseases' T.T Singh on 9 <sup>th</sup> June 2022

# 23. List of Graduate Students Supervised

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

	Name of Student	Year	Dept.		Supervisory Committee
	1. Azeem	2024	Plant pathology	IMPACT OF WEED-BASED AND	Dr. Muhammad Atiq

	Akram			MICROBIAL-DERIVED	Dr. Abdul Rehman
				NANOPARTICLES ON THE	Dr. Muhammad
				BIOCHEMISTRY AND MANAGEMENT	Sufyan
				OF CITRUS CANKER	
2	. Shafqat	2022	Plant pathology	Characterization of biochemical,	Dr. Muhammad Atiq
	Ali			physiological and environmental factors	Prof. Dr. shahbaz
				conducive for the development of early Blight	
				disease of tomato and its management	Dr. Muhammad
					Arshad
3	. Akhter	2020	Plant pathology	Prediction and biochemical profiling of citrus	Dr. Muhammad Atiq
	Hameed			canker disease and its integrated management	Dr. Zaheer Ahmed
					Prof. Dr. Nazir Javed
					Prof. Dr. Ashfaq
					Ahmad
1	Muhamm	Continue	Plant Pathology	Activation of resistance potential of chilli	Dr. Muhammad Atiq
4	ad Usman	Continue	riant rathology	through plant defense activators,	Dr. Nasir Ahmed
	ad Osman			nanoparticles, new chemistry fungicides,	Dr. Muhammad
				nutritional and organic ammendments	Sagheer
				towards Fusarium wilt caused by Fusarium	Sugneer
				oxysporum f.sp. capsici	
5	. Shahid	Continue	Plant Pathology	Incidence of brown leaf spot of citrus caused	Dr. Muhammad Atiq
	Iqbal			by Alternaria citri in districts Khanewal,	Dr. Shahbaz Talib
				Sargodha and Toba Tek Singh in relation to	Sahi
				epidemiological and biochemical factors and	Dr. Nadeem Akbar
				its management	
6	. Asif	Continue	Plant Pathology		Dr. Muhammad Atiq
	Mahmoo			epidemiological factors motive for black spot	
	d Arif			disease of mango and its management	Dr. Muhammad
<u> </u>	**	G .	DI . D . I . I		Ahsan Khan
7	. Hamza	Continue	Plant Pathology	Activation of defence system of citrus against	
	Shahbaz			canker through endophytes, nano-particles,	
				plant activators, nutrients and chemicals	Dr. Muhammad
- 0	A J1	Cantinua	Dlant Dathalasa	Englishedian of autiliarterial reduction of	Ahsan Khan
8	. Adeel Sultan	Continue	Plant Pathology	Exploitation of antibacterial potential of	
	Sunan			nanoparticles, plants activators, nutrients and chemicals towards bacterial blight of	Dr. Nasır Anmed Dr. Hamid Bashir
				Pomegranate bacterial bright of	Di. Haiiliu Dasiiif
				1 Omegranate	

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

S.	Name of	Year	Dept.	Title	Supervisory
#	Student				Committee
1	Nadia Liaqat	2022	Plant pathology	Evaluation of multiple regression models based upon epidemiological factors for the management of blackleg of potato	Prof. Dr. Muhammad Aslam khan Dr. Muhammad Atiq Dr. Muhammad Ahsan khan
2	Zunaira Akash	2022	Plant Pathology	Predicition of Fusarium wilt of chilli and its integrated management	Dr. Nasir Ahmed Dr. Muhammad Atiq Prof. Dr. A.U. Malik
3	Saba Saeed	2022	PlantPathology	Biochemical Profiling of induced resistance in chilli pepper ( <i>Capsicum annum</i> L) in response to fusarium wilt	Prof. Dr. Shahbaz Talib Sahi Dr. M.Shahid Dr. Muhammad Atiq Dr. M.Arshad

4	Faizan Ahmad	2021	Plant pathology	Characterization of biochemical and	Prof. Dr. Nazir javed
	Tahir			environmental factors condusive for	Dr. Muhammad Atiq
				the development of leaf blight of	Dr. A.U. Malik
				carrot and its management	
5	Awais Ahmed	2020	Plant pathology	Postharvest application of organic and	Dr. Zafar Iqbal
	Khan			inorganic compounds for the	Dr. Muhammad Atiq
				management of citrus green mold	
				(penicillium digitatum)	
6	Muhammad	2021	Entomology	Determination of insecticide	Prof. Dr. Mansoor-
	Saleem			resistance in various whitefly strains	ul-hasan
				at cotton eco-regions	Dr. M. Sagheer
					Dr. Muhammad Atiq
7	Muhammad	Continue	Plant Pathology	Characterization of fungal pathogens	Dr. Nasir Ahmed
	Usman Ali			associated with root rot of chilli and	Dr. Muhammad Atiq
				its management	Dr. Rana M. Atif
8	Hadeed Ahmad	Continue	Plant Pathology	Molecular characterization of	Dr. Nasir Ahmed
				Phytophthora spp causing citrus	Dr. Muhammad Atiq
				gummosis and its management	Dr. M. Ahsan Khan
9	Amara Ashraf	Continue	Plant Pathology	Prevalence and management of whip	Dr. Nasir Ahmed
				smut of sugarcane caused by	Dr. Muhammad Atiq
				Sporisorium scitamineum	Dr. M. Azam

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

S. #	Name of	Year	Dept.	Title	Supervisory Committee
	Student				
1.	Waqas	2024	Plant	Management of bacterial leaf streak disease through	Dr. Muhammad Atiq
	Ahmad		patholo		Dr. Nasir Ahmed
			gy	impact on physiology and biochemistry of wheat	Dr. Rizwana Maqbool
2.	Muhamma	2024	Plant	Emergence of major vegetables in kitchen gardening of	Dr. Muhammad Atiq
	d Usman		patholo		Dr. Nasir Ahmed
	Anwar		gy	management through essential oil and orgnic acids	Dr. Muhammad
					Sufyan
3.	Aisha	2024	Plant	Elucidating impact of copper zinc hybrid nano	Dr. Muhammad Atiq
	waseem		patholo	bactericides on antioxidant defense system of host for	Dr. Nasir Ahmed
			gy	management of bacterial blight of pomegranate	Dr. Muhammad jalal
					arif
4.	Zoha adil	2024	Plant	Activation of antioxidant defense system of soyabean	Dr. Muhammad Atiq
			patholo	through citrus peel mediated Ag-Zn hybrid	Dr. Abdul Rehman
			gy	nanoparticles against Alternaria leaf spot disease	Dr. Muhammad
					Azam
5.	Mouzzam	2024	Plant	Induction of resistance against bacterial blight of	Dr. Muhammad Atiq
	a Akhtar		patholo	pomegranate through weed-based nanoparticles	Dr. Nasir Ahmed
			gy		Dr. Muhammad jalal
					arif
6.	Muhamma	2023	Plant	Management of collar rot of groundnut through	Dr. Muhammad Atiq
	d Anaas		patholo	chemical and nutrient method	Dr. Nasir Ahmed
	Aslam		gy		Dr. Irfan Ahmad
7.	Uzma	2023	Plant	Integrated management of bacterial soft rot of tomato	Dr. Muhammad Atiq
	Majeed		patholo	through chemicals and plant activators	Dr. S.T.talib sahi
			gy		Dr. M. jalal arif
8.	Ridha	2023	Botany	Determination of antibacterial activity of	Dr. Muhammad Atiq
	Zawar			biosynthesized copper silver hybrid nanoparticles and	Dr. Abdul wahid
				plant defense activators towards bacterial soft rot of	Dr. Nasir Ahmed
				carrot	
9.	Maryam	2023	Plant	Integrated management of wither tip of citrus through	Dr. Muhammad Atiq

	shabbir		patholo	nanoparticles or nutrients	Dr. Amjad abbas
			gy		Dr. M. Jafar jaskani
10	Khadija	2023	Botany	Optimizing the application of biosynthesized	Dr. Muhammad Atiq
	Ashraf			nanoparticles and chemicals for the management of	Dr. Abdul wahid
				scab of radish	Dr. shahbaz talib sahi
11	Muhamma	2023		Efficacy of organic acids and plant mediated	Dr. Muhammad Atiq
	d Johannaih		patholo	nanoparticles towards bacterial wilt of tomato	Dr. Nasir Ahmed Dr. Ahmad Nawaz
	Jahanzaib Matloob		gy		Dr. Anmad Nawaz
12	Laraib	2023	Plant	Activation of defense system of Mungbean against	Dr. Muhammad Atiq
	Malik		patholo gy	cercospora leaf spot (CLS) by nanoparticles and plant defense activators	Dr. Abdul Rehman Dr. Muhammad Asif
13	Muhamma	2023	Plant	Determination of antifungal activity of plant mediated	Dr. Muhammad Atiq
	d Mehtab		patholo	Cu-Ag nanoparticles and inorganic salts towards	Dr. shahbaz talib sahi
			gy	septoria leaf blotch of wheat	Dr. Muhammad
					Sufyan
14	Farhan Ali	2023	Plant	Management of bacterial leaf spot of bell pepper	r. Muhammad Atiq
			patholo	through antioxidants and green synthesized	Dr. Nasir Ahmed
	~ .		gy	nanoparticles	Dr. M.Dildar Gogi
15	Shagufta	2023	Botany	Determination of antifungal activity of plant based	Dr. Muhammad Atiq
	Ramzan			nanopesticides and essential oils against bacterial	Dr. Abdul wahid Dr. Nasir Ahmed
				speck of tomato (Solanum lycopersicum) caused by Pseudomonas syringae	Dr. Nasir Allined
16	Abuzar	2023	Botany	Determination of antifungal activity of secondary	Dr. Muhammad Atiq
	Hasnain			metabolites of antagonistic organisms and Cu-Ag	Dr. Muhammad
				hybrid nanoparticles towards fusarium wilt of pea	shahbaz
				(Pisum sativum L.)	Dr. Nasir Ahmed
17	Tahreem	2022	Plant	Assessment of green based nanoparticles and	Dr. Muhammad Atiq
	Fatima		patholo	chemicals towards bacterial leaf spot of chilli relation	Mr. waseem Abbas
			gy	with epidemiological factors	Dr. S.T.talib sahi
10	2.6.1	2022	DI .		Dr. M. jalal arif
18	Muhamma	2022	Plant	Management of leaf streak of wheat in relation to	Dr. Muhammad Atiq
	d Asad latif		patholo	epidemiological factors	Dr. shahbaz talib sahi
10	Mariam	2022	gy Plant	Assessment of chemicals and green based	Dr. M. Jafar jaskani Dr. Muhammad Atiq
19	Ashraf	2022	patholo	nanoparticles towards bacterial canker of tomato	Mr. waseem Abbas
	10111111		gy	caused by Clavibacter michiganensis subsp.	Dr. Nasir Ahmed
			0,	Michiganensis	Dr. M. jalal arif
20	Muhamma	2022	Plant	Physicochemical characterization of the pathogen	Dr. Muhammad Atiq
	d kashif		patholo	associated with stalk rot of Maize and its management	Dr. Nasir Ahmed
			gy	through synthetic and phytochemicals	Dr. M. jalal arif
21	.Aqsa	2022	Plant	Epidemiology and Management of bacterial wilt of	Dr. Muhammad Atiq
	Ghaffar		patholo	tomato caused by Ralstonia solanacearum	Dr. S.T sahi
			gy		Dr. M. Azam
22	Zaid Bin	2022	Plant	Determination of biochemical baseline of resistance	Dr. Muhammad Atiq
	Tahir		patholo	against bacterial leaf spot of chilli after application of	Dr. shahbaz talib sahi
	II.f.	2022	gy	plant activators	Dr. Summar A. Naqvi
23	Hafsa	2022	Plant	Epidemiology and Management of bacterial wilt of	Dr. Muhammad Atiq
	Zulfiqar		patholo	cucumber through synthetic chemicals and phytoextracts	Dr. Nasir Ahmed Dr. Ahmad Nawaz
24	Azeem	2022	gy Plant	Determination of Alterations in the leaves of citrus	Dr. Muhammad Atiq
	Akram	2022	patholo	plants after application of green synthesized	Dr. Nasir Ahmed
	μικιαπι		[Patholo	prants after application of green synthesized	DI. Masii Alliileu

			gy	nanoparticles and nutrients towards citrus canker	Dr. M. Jafar jaskani
25.	Tahreem Aimen		Plant patholo gy	Assessment of chemicals and plant activators for the management of bacterial leaf streak of wheat	Dr. Muhammad Atiq Dr. Nasir Ahmed Dr. M. Ahsan Khan
	Aniqa Afzal	2021	Plant patholo gy	Variations in different isolates of <i>Xanthomonas</i> asanopods PV. Citri causing canker on the basis of symptoms expression and its management through nutrition and phenolic Antioxidents	Dr. Muhammad Atiq Dr. Nasir Ahmed Dr. M. Jalal Arif
	Muqaddas Riasat	2021	Plant patholo gy	Management of bacterial wilt of potato caused by Ralstonia solanacearum through antibiotics and chemicals	Dr. Muhammad Atiq Dr. Nasir Ahmed Dr. M.Sufyan
	Muhamma d Faizan Ullah	2021	Plant patholo gy	Surveillance of brown leaf spot of potato in okara region and its management	Dr. Muhammad Atiq Dr. Romana Anjum Dr. M. Jalal Arif
	Shaista Nasir	2021	Plant patholo	Management of bacterial leaf spot of tomato through chemicals and antibiotics	Dr. Muhammad Atiq Dr. shahbaz talib sah Dr. waseem Akram
	Rabeet Ahsan khan	2021	Plant patholo gy	Management of leaf blight of syzigum cumini through phyto-extract and chemicals	Dr. Muhammad Atiq Dr. Abdul Rehman Dr. M. dildar gogi
	Abdul waqar	2020	Plant patholo gy	Monitoring of epidemiological factors in relation to black spot of rose and its management through phytoextracts and chemicals	Dr. Muhammad Atiq Dr. S.T sahi Dr. irfan ahmad
	Shahid ali chand	2020	Plant patholo	Biochemical characterization of bacterial fruit blotch of watermelon and its management	Dr. Muhammad Atiq Dr. S.T sahi Dr. Muhammad Atif
	Nasar-ur- rehman	2020	Plant patholo gy	Physicochemical characterization of Streptomyces scabies and its management	Dr. Muhammad Atiq Dr. Safder ali Dr. Nisar ahmad
	Shahbaz akter	2020	Plant patholo gy	Assessment of antibiotics against bacterial blight of pomegranate	Dr. Muhammad Atiq Dr. S.T sahi Dr. Raheel Anwar
35.	Hamza shahbaz	2020	Plant patholo	Physicochemical characterization of <i>Xanthomonas</i> axonopodis PV. Citri and its management	Dr. Muhammad Atiq Dr. Safder ali Dr. Nisar ahmad
	Hira yaseen	2020	Plant patholo gy	Management of brown leaf spot potato in relation to epidemiological factors	Dr. Muhammad Atiq Dr. Nasir Ahmed Dr. khurram ziaf
	Muhamma d Ali	2020	Plant patholo gy	Assessment of phtoextracts and chemicals against colletotrichum Falcatum causing Red Rot of sugarcane	Dr. Muhammad Atiq Dr. Abdul Rehman Dr. M. Ahsan khan
	Warda Modassar saddique	2020	Plant patholo	Physicochemical characterization of <i>xanthomonas axonopodis</i> PV. <i>Citri</i> isolates from toba Tek singh and its management through endophytes and chemicals	Dr. Muhammad Atiq Dr. Nasir Ahmed Dr. M. Jalal Arif
39.	Naveed Aslam	2020	Botany	Stimulation of citrus defense system against citrus canker through resistance inducers and phytoextracts	Dr. Muhammad Atiq Dr. Ayesha Kiran Dr. Nasir Ahmed
40.	Isra	2020	Botany	Appraisal of plant based nanoparticles against leaf spot disease of brinjal in relation to environmental factors	Dr. Muhammad Atiq Dr. Ayesha Kiran Dr. S.T sahi
	Muhamma d Imran	2019	Plant patholo gy	Mycoflora associated with rough lemon seeds and their management	Dr. Muhammad Atiq Dr. Muhammad atif Dr. S.T sahi Dr. Raheel Anwar

42.	Zeeshan Ali	2019	Plant	Association of soil and leaf minerals with citrus canker	
	All		patholo	development	Dr. S.T sahi
42	24.1	2010	gy	T 1 C	Dr. Khurram Ziaf
	Muhamma	2019	Plant	Induction of resistance against Alternaria brown spot	Dr. Muhammad Atiq
	d Shahzad		patholo	of citus through plant activators and chemicals	Dr. Nasir Ahmed
		• • • •	gy		Dr. Summar A. Naqvi
	Muhamma	2019	Plant	Control of alternaria leaf spot in brassica rapa through	Dr. Muhammad Atiq
	d Gulzaib		patholo	induced resistance	Dr. Nasir Ahmed
			gy		Dr. Raheel Anwar
	Adeel	2019	Plant	Biochemical markers for identification of citrus	Dr. Muhammad Atiq
	Sultan		patholo	greening and its management	Dr. Muhammad atif
			gy		Dr. Nasir ahmed
					Dr. Raheel Anwar
46.	Muhamma	2019	Plant	Progressive changes in biochemical compounds in	Dr. Muhammad Atiq
	d kashif		patholo	leaves of citrus due to brown leaf spot and its	Dr. Rana M. Atif
	Naveed		gy	management	Dr. Shahbaz talib sahi
					Dr. M. Jafar Jaskani
47.	Muhamma	2019	Plant	Management of onion purple leaf blotch disease	Dr. Muhammad Atiq
	d Younas		patholo	through resistance source and chemicals	Mr. Waseem Abbas
			gy		Dr. Shahbaz talib sahi
					Dr. Muhammad atif
48.	Ahsan	2019	Plant	Mycoflora associated with soybean seed their	Dr. Muhammad Atiq
	Haider		patholo	identification and management	Dr. Nasir Ahmed
			gy		Prof. Dr. Mansoor-ul-
					Hasan
49.	Nasrin	2019	Botany	Alterations in biochemical compounds in leaves of	Dr. Muhammad Atiq
	Shafi			potato due to PLRV	Dr. Ayesha kiran
					Dr. Nasir ahmed
50.	Sameen	2019	Botany	Management of fusarium wilt of capsicum annuum L.	Dr. Muhammad Atiq
	Adil			through K <sub>2</sub> HPO <sub>4</sub> , CaCl <sub>2</sub> , benzoic acid, Salicyclic acid	Dr. M.Shahbaz
				and Alpha-Tocopherol	Dr. Zaheer Ahmed

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

S. #	Name of	Year	Dept.	Title	Supervisory Committee
	Student				
1.	Muham	2023	Plant	Biochemical variations in the leaves of onion due to	Dr. Nasir Ahmed
	mad		patholo	purple blotch and its management through plant	Dr. M. Atiq
	Asghar		gy	activators	Dr. Muhammad
					Dildar gogi
2.	Nuzhat	2023	Plant	Chracterization and management of Botryosphaeria	Dr. Nasir Ahmed
	jamal		patholo	spp. Causing sweet cherry gummosis, in the region	Dr. M. Atiq
			gy	of gilgit baltistan	Dr. Ahmad Nawaz
3.	Sehrish	2023	Plant	Management of bacteria leaf spot of cabbage caused	Dr. Nasir Ahmed
	Shabir		patholo	by Alternaria brassicicola through fungicides and	Dr. Muhammad
			gy	plant extracts	shahbaz
					Dr. M. Atiq
4.	Nimra	2023	Plant	Induction of resistance against leaf spot of Aloe	Dr. Nasir Ahmed
	Arshad		patholo	vera through plant extracts and chemicals	Dr. M. Atiq
			gy		Dr. Muhammad jalal
					arif
5.	Muham	2023	Plant	Management of papaya damping off caused by	Dr. Nasir Ahmed
	mad		patholo	Pythium aphanidermatum through neem products	Dr. M. Atiq
	Hamza		gy	and fungicides	Dr. Rana Muhammad
	furqan				Asif

6.	Muniza	2023	Plant	Chracterization of Fusarium spp. Associated with	Dr. Nasir Ahmed
	baig		patholo	sweet cherry disease in Gilgitbaltistan and its	Dr. M. Atiq
			gy	management	Dr. Muhammad
					Dildar gogi
7.	Wania	2023	Plant	Management of black rot of cabbage through	Dr. S.T sahi
	Abrar		patholo	chemicals and plant extracts	Dr. M Atiq
			gy		Dr. M.Ahsan khan
8.	Ayesha	2023	Plant	Chemotherapeutic and nutritional management of	Dr. S.T sahi
	Tariq		patholo	citrus greasy spot in relation to epidemiological	Dr. Abdul wahid
	_		gy	factors	Dr. M Atiq
9.	Muham	2023	Plant	Determination of antifungal potency of organic salts	Dr. S.T sahi
	mad		patholo	and antagonistic fungal metabolites towards	Dr. M Atiq
	Noman		gy	charcoal rot of maize	Dr. M.Ahsan khan
	Zahid				
10.	Muham	2023	Plant	Determination of antibacterial activity of plant	Dr. S.T sahi
	mad		patholo	defense activators in relation to environmental	Dr. M Atiq
	Idrees		gy	factors against bacterial leaf spot of cabbage	Dr. M.Ahsan khan
11.	Muham	2023	Plant	Determination of antibacterial activity of green	Dr. S.T sahi
	mad		patholo	based Cu-Ag hybrid nano pesticides towards red rot	Dr. M Atiq
	Qasim		gy	and its impact on biochemical profiling of	Dr. M.Ahsan khan
				sugarcane	
12.	Sanawar	2023	Plant	Determination of antibacterial activity of plant	Dr. S.T sahi
	sattar		patholo	defense activators in relation to environmental	Dr. M Atiq
			gy	factors against bacterial leaf spot of spinach	Dr. Muhammad
					azam
13.	Muham	2023		Study on the incidence and damage potential of fall	Dr. Muhammad jalal
	mad		logy	army worm Spodoptera frugiperda (J.E. smith0 and	arif
	Bilal			its associated natural enemies an maize crop	Dr. Muhammad
	Maqboo				Dildar gogi
1.4	l	2022	П.		Dr. M Atiq
14.	Usama	2023		Assessment of feeding behavior in relation to	Dr. Muhammad jalal
	bin Tarral		logy	insecticides against aphid (Hemiptera: Aphidoidea)	arif Dr. Muhammad
	Tayyab			and pink bollworm (Lepidoptera: Gelechidea) using	
				an electrical penetration graph	Tayyib
15	Faisal	2022	Entomo	Influence assessment of insecticide contaminated	Dr. M Atiq
13.	Ali	2023		condition on the olfactory response of Pectinophora	Dr. Muhammad jalal arif
	All		logy	gossypiella) (Lepidoptera: Gelechidea) and potency	
				of pheromones in cotton	Tayyib
				of pheromones in cotton	Dr. M Atiq
16	Ahmad	2023	Entomo	Entomotoxicity assessment of Eucalyptus globulus	Dr. Ahmad Nawaz
10.	Ghafar	2023	logy	synthesized zinc oxide nanoparticles against aphid	Dr. Muhammad
	Gilarai		ЮБУ	species on wheat and canola crops	Dildar gogi
				species on wheat and canona crops	Dr. M Atiq
17	Muham	2023	Horticu	Impact of micronutrients foliar application on	Dr. Muhammad jafar
	mad	2023	lture	morphological and biochemical chracters of Guava	jaskani
	Noman		10010	(Psidium guajava L.) cultivar surahi	Dr. Ahmad sattar
	1,0111111			(Constant guagava 21) Canavar suram	khan
					Dr. M Atiq
18.	Ayesha	2023	Horticu	Effect of methionine and melatonin on the storage	Dr. Raheel Anwar
	Khalid		lture	quality of Jujube fruit	Dr. Khuram ziaf
					Dr. M Atiq
					1
19.	Fahad	2022	Plant	Management of eyespot disease of sugarcane	Dr. S.T. Sahi
	Yaqoob	<u> </u>		through host resistance, chemicals and plant	Dr. Muhammad Atiq
	1 ayooo		[paul010	junough nost resistance, chemicals and plant	וען. wiunammau Auq

			gy	activators	Prof. M.Ahsan khan
	Syed Adeel Sajid		Plant patholo gy	Physicochemical characterization of pectobacterium carotovorum, the causal agent of soft rot of Cauliflower and its management	Dr. S.T sahi Mr. waseem Abbas Dr. Muhammad Atiq Dr. M.azam
	Hafiz Muham mad Usama Shaheen	2022	Plant Patholo gy	Epidemiology and management of brown spot of rice through host resistance, chemicals and phytoextract.	Dr. Nasir Ahmed Dr. M.Atiq Dr. Saddam Hussain
	Muham mad Faran Tahir	2022	Plant Patholo gy	Appraisal of synthetic fungicides and phyto-extracts against guava anthracnose caused by <i>Colletotrichum</i> spp.	
	Muham mad Faizan Manzoo r	2022	Plant Patholo gy	Appraisal of antifungal potential of chemical and plant extract against brown leaf spot of soyabean caused by <i>Septoria glycine</i> .	Dr. Nasir Ahmed .Dr. Muhammad Atiq .Dr. Muqadas Aleem
	Muham mad Umair Zaheer	2022	forestry	In-vitro and in-vivo management of black leaf spot disease of ziziphus Mauritiana lam.	Dr. Muhammad Asif Dr. Fahad Rasheed Dr. Muhammad Atiq
	Muham mad Asad Mubeen	2022	forestry	Effect of compost application for promoting early growth of <i>Moringa oleifera</i> under saline conditions	Dr. Irfan Ahmed Dr. Muhammad asif Dr. Muhammad Atiq
	Muham mad Usman	2022	Horticu lture	Effect of plant growth regulator and mineral nutrients on kinnow MAMDARIN( <i>Citrus</i> reticulate blanco)	Dr. M.Jaffar jaskani Dr. M.Azam Dr. Muhammad Atiq
27.	Muham mad Usama	2022	Horticu lture	Effect of biostimulants on reproductive growth of mango cultivar chaunsa	Dr. M.Jaffar jaskani Dr. Saeed Ahmad Dr. Muhammad Atiq
	Muham mad Mudassi r iqbal	2022	Horticu lture	Compatibility evaluation of papya ( carica papaya linn.) by selected grafting techniques	Dr. M.Jaffar jaskani Dr. Summar A. naqvi Dr. Muhammad Atiq
	Fatima Naseer	2022	Horticu lture	Effect of sodium nitroprusside treatment on storage quality of strawberry fruit	Dr. Raheel Anwar Dr. Ahmad S. khan Dr. Muhammad Atiq
30.	Sadia Bibi	2022	Entomo logy	Synthesis and toxicity assessment of <i>moringa olerifa</i> leaves extract with zinc oxide nanoparticles against different wheat and canola aphid species.	Dr. Ahmad Nawaz Dr. M. Jalal Arif Dr. Muhammad Atiq
	Muham mad Usman	2022	Entomo logy	Agroecological management based assessment of intercropping influence on population dynamics of <i>spodoptera frugiperda</i> (J.E. Smith) (Lepidoptera: noctuide) and its natural enemies.	Dr. M.Dildar Gogi Dr. M. Sufyan Dr. Muhammad Atiq
	Fazeela Saleem	2022	Entomo logy	Evaluation of four different oils against two spotted spider mites (Tetranychidae) and thrips (Thripidae)	Dr. Bilal Saeed Khan Dr. M. Hamid Bashir Dr. Muhammad Atiq
	Muham mad Umer Umair	2022	Entomo logy	Population dynamics of fall armyworm, Spodoptera frugiperda (J.e.smith)(Lepidoptera: Noctuidae ) and its natural enemies under sprayed conditions in maize crops	Prof. Dr. Jalal Arif Dr. M.Dildar Gogi Dr. Muhammad Atiq

	34	Tooba	2022	Entomo	Efficacy of Zinc oxide nanoparticles with neem leaf	Prof. Dr. Jalal Arif
		Javaid		logy	extract on fall Armyworm(Spodoptera Frugiperda)	Dr. Ahmed Nawaz
					under laboratory conditions	Dr. Muhammad Atiq
	35.	Mariam	2022	Entomo	Synthesis and aphidicidal assessment of <i>Allium</i>	Dr. Ahmad Nawaz
		Aziz		logy	sativum extract mediated ZnO nanoparticles against	Dr. M Jalal Arif
				- 63	Canola and wheat aphid.	Dr. Muhammad Atiq
	36.	Muham	2021	Forestr	Epidemiology and management of bacterial blight	Dr. Irfan Ahmed
		mad		У	of Syzygium cumini through antibiotics and	Dr. Muhammad asif
		Umar		3	chemicals	Dr. Muhammad Atiq
	37	Maroon	2021	Forestr	Impact of mineral soil and forest floor on	Dr. Muhammad asif
		Hassan		y	regeneration of endangered species of southern	Dr. Irfan Ahmed
		Khan		3	punjab	Dr. Muhammad Atiq
	38	Usman	2021	Horticu	Efficacy of antibiotics and phytoextracts against	Dr. C.M. Ayyub
	50	Zafar	2021	lture	blackleg disease of potato caused by	Dr. M.Awais ghani
				10010	pectobacaterium carotovorum	Dr. Muhammad Atiq
	39	Hafiz	2021	Horticu	Effect of sodium Nitroprusside, chitosan and 1-	Dr. Raheel Anwar
		Muham	2021	lture	arginine coatings on storage quality of persimmon	Dr. A.U. Malik
		mad		reare	fruit	Dr. Muhammad Atiq
		Nasir				Di. Manamina Tinq
	40	Taha	2021	Entomo	Assessment of insecticide resistance and evaluation	Dr. Waqas Wakil
		Yaseen	2021	logy	of Beauveria bassiana and Steinernema	Dr. M.Arshad
		1 docon		1053	carpocapsae against coleopteran insect pests.	Dr. Muhammad Atiq
	41	Fateh	2021	Entomo	Implication of insecticides, biopesticides and abiotic	
		Sher	2021	logy	factors against sucking insect pests of brinjal	DrSufian
		Silei		1053	(Solanum Melongena).	Dr. Muhammad Atiq
	42	Muham	2021	Entomo	Assessment of feeding and ovipositional preference	Dr. M.Jalal Arif
		mad	2021	logy	and food-consumption of fall armyworm	Dr. M.Dildar Gogi
		Sibtain		1089	Spodoptera ferugiperda (J.E. Smith) (Lepidoptera:	Dr. Muhammad Atiq
		Khan			Noctuidae) on different host plants.	Di. Munammaa raiq
	43	Sadaf	2021	Entomo		Dr. M. Jalal Arif
	13	Batool	2021	logy	against fall armyworm, Spodoptera frugiperda	Dr. M. Dildar Gogi
		Butoor		1089	(Smith) (lepidoptera; Noctuidae)	Dr. Muhammad Atiq
	44	Zaheer	2021	Entomo	Comparison of food-consumption, growth and food	Dr. M. Jalal Arif
	77.	Abbas	2021	logy	utilization of fall armyworm spodoptera frugiperda	Dr.M.Dildar Gogi
		710003		ЮБУ	(J.E.Smith) (Lepidoptera: noctuidae) on different	Dr. Muhammad Atiq
					maize verities	Di. Munammaa raiq
	45	Ali	2021	Entomo	Assessment of toxicity of some insecticide mixtures	Dr. M. Jalal Arif
	13	Ahmad	2021	logy	against Pectinophora gossypiella (Lepidoptera:	Dr. M.Dildar Gogi
		7 Hilliad		1089	Gelechidae).	Dr. Muhammad Atiq
	46	Zohaib	2021	Plant	Assessment of antibiotics and chemicals against	Prof. Dr. S.T sahi
	10.	Ahmed	2021	patholo	bacterial spot of tomato caused by <i>xanthomonas</i>	Dr. Muhammad Atiq
		7 Hilliou		gy	vesicatoria	Dr. Waqas wakil
	47	Aina	2021	Plant	Assessment of Phyto-extract and chemicals against	Dr. Nasir Ahmed
	77	Israr	2021		Fusarium wilt of cucumber	Dr. M. Atiq
		Israi		gy	distribution of edecument	Dr. M.Dildar Gogi
	48	Iram	2021	Plant	Response of chili varities against Damping off	.Dr. Nasir Ahmed
	70	Shafiq	2021		caused by <i>Pythium</i> spp and its management.	Dr. Atiq
		Shariq			caused by 1 yimum spp and its management.	Dr. A.U. Malik
	//0	Maham	2021	gy Plant	Management of leaf spot disease caused by	Prof. Dr. S.T. sahi
	<del>4</del> 2.	Mustafa	2021		xanthomonas campestris PV. Fici bacteria in	Dr. Muhammad Atiq
1		1viustaia		gy	relatioa to epidemiological factor	Dr. M. Dildar gogi
L	50	Umar	2021	Plant	In-vivo evaluation of new chemistry fungicide	Dr. Nasir Ahmed
			/////	ii iaiit	pri-vivo evaruacion of new elicinistry fungicial	וען. rasii Aiiiiieu
	30.		2021		against Fusarium salani agusing Doot not of Donors	Dr M Atia
	30.	Rafique	2021	Patholo	against Fusarium solani causing Root rot of Papaya	Dr. M. Atiq
			2021		against <i>Fusarium solani</i> causing Root rot of Papaya  Assessment of antibiotics and chemicals against	Dr. M. Atiq Dr. Ahsan Khan Dr. S.T sahi

	mad		patholo	bacterial canker of tomato caused by clavibacter	Dr. Muhammad Atiq
	Noman		gy	michiganensis subsp. michiganensis	Dr. Waqas wakil
52.	Hina Liaqat	2021	Plant patholo gy	Activation the defense system of potato through chemicals and plant activators against Early blight	Dr. Nazir Javed Dr. Muhammad Atiq Dr. M.Ahsan Khan
53.	Hadeed Ahmad	2021	Plant patholo gy	Detection of Phytophthora Nicotlanae causing citrus gummosis by using Loop mediated isothermal amplification assay and its management through new chemistry fungicides	Dr. Nazir Javed Dr. Muhammad Atiq Dr. M. Jalal arif
54.	Yusra Gulzar	2021	Plant patholo gy	Genetic response of chilli cultivars against anthracnose caused by colletotrichum capsici and its management through phytoextracts and chemicals	Dr. S.T sahi Dr. Muhammad Atiq Dr.sohail Ahmed
55.	Abdul Rehman khan	2021	Plant patholo gy	Management of bacterial black spot disease of mango caused by <i>Xanthomonas axonopodis</i> PV. <i>Mangiferae indigae</i> through antibiotics and chemicals	Prof. Dr. S.T. sahi Dr. Muhammad Atiq Dr. Nisar Ahmed
56.	Bisma Ejaz	2021	Plant Patholo gy	Characterization of environmental factors conducive for the development of near wilt of pea and its management through chemicals and phytoextracts	Dr. Nasir Ahmed .Dr. Muhammad Atiq .Dr. Khurram Ziaf
57.	Azra Razzaq		Plant patholo gy	Appraisal of plant activators and chemicals against brown leaf spot citrus in relation to epidemiological factors	Dr. S.T. sahi Dr. Muhammad Atiq Dr. Waqas wakil
58.	Hadeed Ahmad	2021	Plant Patholo gy	Detection of Citrus Gumosis caused by <i>Phytopthora nicotiana</i> by Loop mediated isothermal amplification and its management.	Dr. Nasir Ahmed Dr. Muhammad Atiq Dr. Jam Nazeer Ahmad
59.	Nazish Raza	2021	Plant patholo gy	Epidemiology and management of citrus melanose caused by Diaporthe citri	Dr. S.T Sahi Dr. Muhammad Atiq Dr. Ahsan khan
60.	Syed Jahanzai b Hassan	2021	Plant patholo gy	Prevelance of citrus melanose in district Sargoda and its management through chemicals	Dr. S.T sahi Dr. Muhammad Atiq Dr. Waqas wakil
61.	Shahbaz Shafiq	2020	Plant patholo gy	Epidemiology and management of Downy Mildew of Grapes	Dr. S.T sahi Dr. Muhammad Atiq Dr. zaheer Ahmed
62.	Hamza Tariq	2020	Plant	Relationship of Soil and Environmental Factors with the Development of <i>Phytophthora gummosis</i> and its Chemotherapic Management	.Dr. Nasir Ahmed .Dr. Muhammad Atiq .Dr. Rana M. Atif
63.	Muham mad Bilal		Plant Patholo gy	Antifungal Potential of Medicinal Plants against Early Blight of Potato	Dr. Nasir Ahmed Dr. Muhammad Atiq Dr. Rana M, Atif
64.	Ehtsham Arif	2020	Plant patholo gy	Assessment of desert phytoextracts and chemicals against blight of pomegranate caused by Xanthomonas axonopodis PV. punicae	Dr. S.T sahi Dr. Muhammad AtiqDr. Mansoor-ul- hassan
65.	Muham mad Abubak ar	2020	Plant Patholo gy	Epidemiology and Management of Cucumber Caused by <i>Psuedopernospora cubernsis</i>	Dr. Nasir Ahmed Dr. Muhammad Atiq Dr. Rana M. Atif
66.	Waqar Zafar	2020	Plant Patholo gy	Management of fuarium wilt of pea through plant extracts and fungicides in relation to environmental factors	DrAslam Khan Dr. Muhammad Atiq Dr. M. Arshad
67.	Hafiz	2020	Plant	Citrus canker incidence in district Toba Tek Singh	Dr. M. Aslam Khan

	N ( 1.		D. 41 1	Promote the second seco	D. M. 1 1 A .!
	Muham			in relation to environmental factors and its	Dr. Muhammad Atiq
	mad		gy	management	Dr. M.Sagheer
	Hasnat				
	Zafar	2020	D1 4	M	D. M. A.1 171
68.	Muham	2020	Plant	Management of powdery mildew of pea through	Dr. M. Aslam Khan
	mad		Patholo	fungicides and plant activators in to relation to	Dr. Muhammad Atiq
	Tariq	2020	gy	environmental factors	Dr. M.Arshad
69.	Arslan	2020	Plant	Fluctuation in incidence of citrus canker in relation	Dr. M.Aslam
	Sharief		Patholo	to environmental conditions of Sargodha and its	Dr. Muhammad Atiq
70	3.7.1	2020	gy	management	Dr. C.M. Ayub
/0.	Muham	2020	Plant	Management of Downy Mildew of Muskmelon	Dr. S.T sahi
	mad		patholo	through fungicides and plant extracts	Dr. Managarus
	khalid		gy		Dr. Mansoor-ul-
71	A 1. 1. 1	2020	D1 4	And Constant in the Constant i	hassan
/1.	Abdul	2020	Plant	Antifungal activity of deserts phytoextracts and	Dr. S.T sahi
	qayyam		patholo	chemotherapic management against cercospora leaf	Dr. Muhammad Atiq
70	N / 1	2020	gy	spot bottle gourd caused by cercospora citrullina	Dr. Sohail Ahmed
/2.	Muham	2020	Forestr	Effect of waterlogging stress on the growth of ficus	Dr. Irfan Ahmad
	mad		У	infectoria and terminalla arjuna	Dr. MFarrakh Nawaz
	Nabeel				Dr. Muhammad Atiq
72	Arshad	2020	Datas	December of the state of the st	D. N. Alman
/3.	Liaqat	2020	Botany	Prevalence of phytophthora gummosis in major	Dr. Nasir Ahmed
	Ali			citrus growing areas of sargodha in relation to	Dr. Mansoor Hameed
				environmental factors and its management through phtoextracts	Dr. Muhammad Atiq
74.	Muham	2020	Botany	Management of cotton leaf curl virus through	Dr. S.T sahi
	mad			medicinal phytoextracts	Dr. Mansoor hameed
	Zeeshan				Dr. Muhammad Atiq
	Talib				
75.	Aamir	2020	Horticu	Nutritional profiling of fresh and dried ber	Dr.Summar A. Naqvi
	khan		lture		Dr. Bilquees Fatima
	leghari				Dr. Muhammad Atiq
76.	Syed	2020	horticul	Antimicrobial activities of date palm leaves extracts	Dr. summar A. Naqvi
	Mosyab		ture	against citrus canker	Dr. Jafar jaskani
	Mehdi				Dr. Muhammad Atiq
	shah				
77.	Tahreem	2020	horticul	Developing optimal soilless growing substrate for	Dr. Khurram Ziaf
	Shafiq		ture	healthy tomato nursery production	Dr. Iftikhar Ahmad
					Dr. Muhammad Atiq
78.	Muham	2020	horticul	Assessment of antibacterial potential of medicinal	Dr. Muhammad
	mad		ture	plants against bacterial blight of pomegranate	Jafar jaskani
	bilal				Dr. summar A. Naqvi
	qayyum				Dr. Muhammad Atiq
79.	Waseem	2020	Entomo	Growth inhibitory and biocidal impact of	Dr. Ahmad Nawaz
	Afzal		logy	nanoparticles and plant extracts against lesser grain	Dr. M.Sagheer
				borer and granary weevil.	Dr. Muhammad Atiq
80.	Somia	2020	Entomo	Assessment of insecticidal activity of Azadiracta	Dr. M.Jalal Arif
	Komal		logy	indica mediated zinc oxide nanoparticles against	Dr. Ahmad Nawaz
				sucking insect pests.	Dr. Muhammad Atiq
81.	Muham	2020	Entomo	Role of morphological and biochemical	Dr. M.Sagheer
	mad		logy	characteristics of different genotypes of Solanum	Dr. Mansoor ul
	Saeed			tuberosum for host plant resistance against Myzus	Hasan
	Ur			persicae in relation to occurrence of viral diseases.	Dr. Muhammad Atiq
	Rehman				
82.	М.	2020	Entomo	Isolation and identification of fruit fly gut bacteria	Dr. M.Dildar Gogi

	Danish		logy	and evaluation of periodic-attractence of bacterial	Dr. M. Jalal Arif
	Faraz			colonies to <i>Bactrocera cucurbitae</i> coquillett (Tephritidae: Diptera)	Dr. Atiq
8:	3.Muham	2020	Entomo	Assessment of behavior of <i>Phenacoccus solenopsis</i>	Dr. M.Dildar Gogi
	mad		logy	Tinsley (Hemiptera: Pseudococcidae) on silicon and	
	Farhan		_	pyriproxyfen treated cotton plants.	Dr. Muhammad Atiq
8	4. Muham	2020	Entomo	Efficacy of electric and pheromonal traps of methyl	Dr. M.Ahsan khan
	mad		logy	eugenol against Bactrocera zonata in citrus	Dr. M.Dildar Gogi
0	Qasim 5. Muham	2020	Entomo	orchards.	Dr. Muhammad Atiq
0.	mad	2020		Toxic, repellent and growth regulatory effect of three medicinal plant extracts and pyriproxyfen	Dr. Farooq Ahmad Dr. M.Sagheer
	Waheed		logy	against Rahim Yar Khan strain of <i>Tribolium</i>	Dr. Muhammad Atiq
	Shah			castaneum and Trogoderma granarium.	Dr. Wanammaa 7 aq
8	5.Talha	2020	Entomo	Comparative study of mortality and growth	Dr. Farooq Ahmad
	Rehman		logy	inhibition of Tobah Tek Singh strain of red flour	Dr. M.Sagheer
			- 63	beetle with the application of plant extracts and	Dr. Muhammad Atiq
				chlorfenapyer.	1
8	7. Muham	2019	Plant	Epidemiology and management of Alternaria brown	Dr. Nair javed
	mad		patholo	leaf spot of citus	Dr. Muhammad Atiq
	Abbas		gy		Dr.Summar A. naqvi
8	8.Shahid	2019	Plant	Genetic and biochemical management of Alternaria	Dr. Amir Habib
	Arslan		patholo		Dr. Muhammad Atiq
			gy	capital) and Cauliflower (Brassica Oleracea var. botrytis)	Dr. C.M. Ayub
8	9. Tanzeel	2019	Plant	Assessment of anti-fungal potential of different	Dr. S.T sahi
	Asim		-	antagonistics against alternaria brown leaf spot of	Dr. Muhammad Atiq
	2 2 4	2010	gy	citrus	Dr. mansoor-ul-hasar
9	) Muzam	2019	Plant	Epidemiology and management of Alternaria brown	
	mel Abbas		-	leaf spot of citrus	Dr. Muhammad Atiq
0	1.Fatima	2019	gy Plant	Epidemiology and management of purple leaf	Dr. Summar A.Naqvi Dr. S.T sahi
	Maira	2017		blotch of onion by Alternaria porri	Dr. Muhammad Atiq
	1,1uiiu		gy	eroten of omon by finemana point	Dr. Waqas Wakil
9:	2.Insha	2019	Plant	Assessment of antagonistics potential of bacteria	Dr. Nazir javed
	Saeed			against Alternaria leaf spot of Turnip	Dr. Muhammad Atiq
			gy		Dr. M.Arshad
9:	3.Abdul	2019	Plant	Epidemiology and management of fusarium Stalk	Dr. S.T sahi
	Qadus		patholo	rot (F. moniliform) of maize	Dr. Muhammad Atiq
			gy		Dr. Rana M. Atif
9.	4. Muham	2019	Plant	Epidemiology and management of downy mildew	Dr. S.T sahi
	mad		patholo	disease of onion	Dr. Muhammad Atiq
	Samiulla		gy		Dr. M.Ahsan Khan
0	h 5. Hadia	2010	Plant	Chemotherapeutic management of Pectobacterium	Dr. S.T sahi
9.	Mehak	2019	patholo	Carotovorum causing black leg disease of potato	Dr. S.1 sam Dr. Muhammad Atiq
	TVICIIAN		gy	Carotovorum causing black leg disease of potato	Dr. M.Dildar gogi
9	5. Syed Zil	2019	Plant	Epidemiology and management of leaf rust of wheat	
	Hussain	2017		(triticum aestivum L.)	Dr. Muhammad Atiq
	Sherazi		gy		Dr. Irfan Ahmad
9	7.Ali	2019	Plant	Assessment of anti-bacterial potential of different	Dr. Nazir javed
	Haider			antagonist for Mangement of Citrus canker	Dr. Muhammad Atiq
			gy		Dr. Rana M. Atif
9	8. Abeera	2019	Plant	Management of stemphylium leaf blight of onion in	Dr. S.T sahi
	Khan		patholo	relation to epidemiological factors	Dr. Muhammad Atiq
			gy		Dr. waqas Wakil

99.	Muham	2019	Plant	Management of Alternaria blight of Brassica in	Dr. Nasir Ahmed
	mad Ali		Patholo	relation to Epidemiological factors	Dr. M.Rizwan
			gy		Dr. Muhammad Atiq
					Dr. M. Arshad
100	Zarmina	2019	botany	Management of alterneria of leaf spot of turnip	Dr. S.T sahi
	gul			through chemicals and plant extracts	Dr. M. Shahbaz
					Dr. Muhammad Atiq
10	Kumail	2019	horticul	Relationship of maturity stage and fruit mass with	Dr. Raheel Anwar
	Fayaz		ture	postharvest quality in local supply chain of	Dr. A.U. Malik
				strawberry	Dr. Muhammad Atiq
102	Muham	2019	horticul	Asexual propagation of guava through mound	Dr. M.Jafar jaskani
	mad		ture	layering	Dr. M.Azam
	Hanif				Dr. Muhammad Atiq
103	Farah	2019	Entomo	Integrated potential evaluation of <i>Trichoderma</i> and	Dr. M. Jalal Arif
	Naz		logy	silicon on sucking insect pests of transgenic cotton.	Dr. Ahmad Nawaz
					Dr. Muhammad Atiq
104	Muham	2019	Entomo	Potential of entomopathogenic nematodes	Dr. Waqas Wakil
	mad		logy	[Steinernema corporcapsae] and Spinosad against	Dr. M. Ahsan Khan
	Ahsan			bactrocera cucurbitae.	Dr. Muhammad Atiq
	Haneef				
105	Tayybah	2019	Entomo	Insecticidal properties of xerophytes plants against	Dr. Waseem Akram
	Gul		logy	vector mosquitoes.	Dr. Shahid Majeed
					Dr. Muhammad Atiq
100	Rabia	2019	Entomo	Residual performance and comparative efficacy of	Dr. Waseem Akram
	Fatima		logy	llins of different brands against adults of	Dr. Shahid Majeed
				mosquitoes.	Dr. Muhammad Atiq
10′	Anum	2019	Entomo	Invitro impact assessment of temperature regimes	Dr. Ahmad Nawaz
	Balooch		logy	on biotic efficiency of Chrysoperla carnea and	Dr. M.Ahsan Khan
				trichogramma species.	Dr. Muhammad Atiq

# 24. Research Projects

# 24a. Research Projects completed

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1.	Biochemical Profiling in Citrus and its Rhizosphere for Management of Canker Disease	PI	2020	4.229100 million	NRPU-HEC Pakistan
2.	Popularization of home gardening in urban and peri urban areas of Punjab (Zone-3: TT Singh)	PI	03 Years	1.576 million	EFS-UAF

24b. Research Projects Ongoing

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1.	Management of Fusarium Wilt of Chilli Through Phenolic Antioxidants and Soil Minerals"	PI	03 Years	4.8 million	NRPU-HEC Pakistan
2.	"Rapid Diagnosis of Gummosis of Citrus Caused by Phytophthora Spp. Using A Loop-Mediated Isothermal Amplification Assay and Its Management"	Co-PI	03 Years	2.29 million	NRPU-HEC Pakistan

3	3.	Uplifting monetary conditions of chilli	Co-PI	03 Years	1.476	EFS-UAF
		growers by creating awareness about			million	
		disease problems and their management				

#### 24c. Research Projects in pipeline

S. #	Title of the research project	Position	Duration (From-To)	Amount (Million Rs)	Donor
1.	Development of Disease Forecasting Model for Precise Management of Red Rot of Sugarcane Through Chemicals	PI	03 Years	6.714	SRDB
2.	Apraisal of fungicides and Plant defense activators towards eye spot disease; an emerging threat to sugarcane industry	PI	03 Years	6.376	SRDB
3	Citrus canker disease under climate change regime and development of indiginous copper based for its management	PI	03 Years	9.794550	PSF
4	Management of red rot disease of sugarcane through plant defense activators, nanoparticles and soil amendments	PI	03Years	12.195	SRDB
5		CO-PI	03 Years		SRDB
6	Rapid Diagnosis of Red Rot of Sugarcane Caused by <i>Colletotricum falcatum</i> Using A Loop Mediated Isothermal Amplification Assay and Its Management	Co-PI	03 Years	7.023	SRDB

#### 25. Awards/Distinctions

S. #	Name of Award/Distinction	Year	Details
1.	Travel grant from EFS	2018	To participate in a training.China
2.	Travel grant from EFS	2019	Turkey To attend conference
3.	Travel grant from EFS	2022	To attend ist international conference on Plant Protection

### 26.Academic/Professional collaboration NA

S#	Collaborating agencies	Nature of Collaboration				
Nation	National					
1.						
2.						
3.						
Interna	International					
1.						
2.						
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.	Organize on farm demonstration meeting	UAF	10/07/2024	Sesame Research group, Department of plant breeding and genetics
2.	To create awareness among home gardners	T.T.Singh	07/06/2024	Homegradeners meeting
3.	Homegradeners meeting	T.T.Singh	13/05/2024	Homegradeners meeting
4.	Practical training on Kitchen gardening: A tool for food security and healthy lifestyle	UAF	07- 08/05/2024	Practical training on Kitchen gardening: A tool for food security and healthy lifestyle in NIFSAT under PKNC project
5.	Successful execution of project activities	T.T.Singh	18- 19/04/2024	For project activities
6.	Successful execution of project activities	T.T.Singh	08/04/2024	For project activities
7.	Homegradeners meeting	T.T.Singh	04/04/2024	Homegradeners meeting
8.	Homegradeners meeting	T.T.Singh	28/03/2024	Homegradeners meeting
9.	Homegradeners meeting	T.T.Singh	22/03/2024	Homegradeners meeting
10	Successful execution of project activities	T.T.Singh	15- 16/07/2023	For project activities
11	Successful execution of project activities	T.T.Singh	19/05/2023	For project activities
12	Successful execution of project activities	T.T.Singh	12/05/2023	For project activities
13	Successful execution of project activities	Okara, Kasur	03- 04/02/2023	For project activities
14		T.T. Singh, Chichawatni	02/02/2023	For project activities
15	Successful execution of project activities	Bhalwal	09/01/2023	For project activities
16	To create awareness among home gardners about winter vegetables, their problem and solution. (PI)	T.T.Singh	18/11/2022	Homegradeners meeting
17	To create awareness among home gardners about winter vegetables, their problem and solution. (PI)	T.T.Singh	16/11/2022	Homegradeners meeting
18	To create awareness among home gardners about winter vegetables, their problem and solution. (PI)	T.T.Singh	15/11/2022	Homegradeners meeting
19	Visit of homegardener sites for sowing of winter vegetables	T.T.Singh	19/10/2022	Sowing of Vegetables
20	Conduct meeting with homegardeners for the distribution of winter vegetable seeds	T.T.Singh	18/10/2022	Seed Distribution
21	winter vegetables	T.T.Singh	15/10/2022	Site Selection
22	home gardening	Lahore	09/09/2022	Purchase of seeds
23	Create awareness to citrus growers about disease problems and their solution	DG Khan	19/05/2022	Advisary Sarvices for Citrus
24	disease problems and their solution	Khanewal, Multan	06/01/2022	Advisary Sarvices for Citrus
25		T.T.Singh	23/12/2021	Homegradeners meeting
26	Conduct meeting with homegardeners for the distribution of winter vegetable seeds	T.T.Singh	24/11/2021	Seed Distribution

27	Visit of Burewala campus (UAF) with reference to homegardening	Burewala	10/11/2021	Preparation of Model Plot
28	Meeing with govt officials for the promotion of home gardening	Lahore	22/10/2021	Motivation for home gardening
29	Visit of three sub-campus Okara, Toba, Burewala for site seletion in sub campuses	TTS, Burewala, Okara	16/09/2021	Site Seletion
30	Purchase of winter vegetable seeds for home gardening	Lahore	09/09/2021	Purchase of seeds
31	Meeing with govt officials for the promotion of home gardening	Lahore	28/05/2021	Motivation for home gardening
32	Visit of Distt. Kasure to meet chilli growers, disease problem of chilli and their management	Kasur	21/05/2021	Advisary Sarvices for Chilli
33	Create awareness to citrus growers about disease problems and their solution	Mankera	09/04/2021	Advisary Sarvices for Citrus
34	Distribution of Disease free chilli seedlings to chilli growers in Bhawana, Chiniote	Bhawana (Chiniote)	12/04/2021	Distribution of nursery
35	Create awareness to citrus growers about disease problems and their solution	Nankana	28/01/2021	Advisary Sarvices for Citrus
36	Distribution of Disease free chilli seedlings to chilli growers in Chiniote	Chiniote	17/12/2020	Distribution of nursery
37	Create awareness to citrus growers about disease problems and their solution	Khanewal, Rahim Yar Khan, Sadiqabad	11- 14/03/2020	Advisary Sarvices for Citrus
38	Create awareness to citrus growers about disease problems and their solution	Sargodha	27/01/2020	Advisary Sarvices for Citrus
39	Create awareness to citrus growers about disease problems and their solution	Malsi, Lodhran	13- 15/12/2019	Advisary Sarvices for Citrus
40	Create awareness to citrus growers about disease problems and their solution	Bahawalpur, Melsi, Lodhran	17- 19/04/2019	Advisary Sarvices for Citrus
41	Create awareness to citrus and Guava growers about disease problems and their solution	Sahiwal, Chichawatni	21/03/2019	Advisary Sarvices for Citrus and Guava
42	Create awareness to citrus growers about disease problems and their solution	Sargodha	13/03/2019	Advisary Sarvices for Citrus
43	Create awareness to citrus growers about disease problems and their solution	Samundri	07/03/2019	Advisary Sarvices for Citrus
44	•	T.T.Singh	21/02/2019	Advisary Sarvices for Citrus