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Designation Asso		Associate professor					
Department Microbio		Microbiology					
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Resea	rch Profile	Research Gate ID:					
		Google Scholar Profile ID: https://scholar.google.com/citations?user=sK2ZXJUAAAAJ&hl=en&oi=ao					
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Qualif	ication						
Year	Degree/Certificate	Name of the Ins	Name of the Institute/ University		Field of study		
	Post Doctorate	Zhejiang University					
2014	PhD	Zhejiang University			Plant pathology		
2011	MS/ Mphil	S/ Mphil Quaid -i- Azam L			Biotechnology		nnology
2009	Graduation BUITEMS			Biotec		nnology & informatics	
Public	Publications in HEC Recognized journals						
S. No	Title of Paper		Na	me of Journal	Natio: Intern	nal/ ational	Publication date
1	Micro-synteny conservation analysis revealed the evolutionary history of bacterial biphenyl degradation pathway		Mi	vironmental crobiology ports	Intern	ational	2022
2	Cloning, characterization and functional analysis of NtMYB306a gene reveals its role in wax alkane biosynthesis of tobacco trichomes and stress tolerance			ontiers in plant ence	International 202		2022
3	Comparative genomics and evolutionary analysis of plant CNGCs.			ology Methods d Protocols	International		2022
4	Potassium accumulation characteristics and expression of related genes involved in potassium metabolism in a high-potassium variety: tobacco (Nicotiana tabacum) as a model			nctional Plant blogy	Intern	ational	2022

5	Tocopherol as plant protector: an overview of Tocopherol biosynthesis enzymes and their role as antioxidant and signaling molecules	Acta Physiologiae Plantarum	International	2022
6	Detection of Two Missense Substitutions in Gene EPM2B in Patients of Myoclonic Epilepsy from Balochistan	Pakistan J. Zoology	National	2022
7	Expression of the Type III Secretion System Genes in Epiphytic Erwinia amylovora Cells on Apple Stigmas Benefits Endophytic Infection at the Hypanthium	Molecular Plant- Microbe Interactions	International	2021
8	BrCNGC gene family in field mustard: genome-wide identification, characterization, comparative synteny, evolution and expression profiling	Scientific Reports	International	2021
9	Comparative Analysis of Physiological, Enzymatic, and Transcriptomic Responses Revealed Mechanisms of Salt Tolerance and Recovery in Tritipyrum	Frontiers in plant science	International	2021
10	Involvement of non-coding RNAs during infection of rice by Acidovorax oryzae	Environmental Microbiology Reports	International	2021
11	Genome Sequence and Adaptation Analysis of the Human and Rice Pathogenic Strain Burkholderia glumae AU6208	Pathogens	International	2021
12	Systematic study of the stress- responsive Rboh gene family in Nicotiana tabacum: Genome-wide identification, evolution and role in disease resistance	Genomics	International	2020
13	Molecular breeding approaches for production of disease-resilient commercially important tobacco	Briefings in Functional Genomics	International	2020
14	Cadmium phytotoxicity: issues, progress, environmental concerns and future perspectives	Revista de la Facultad de Ciencias Agrarias	International	2020
15	Genome sequence and adaptation of strain of the opportunistic pathogen Burkholderia glumae	Research Square	International	2020
16	Evolutionary and expression analysis of CAMTA gene family in Nicotiana tabacum yielded insights into their origin, expansion and stress responses	Scientific Reports	International	2020
17	Recent Trend of Genome-Wide Multigene Family Analysis and Their	Annals of Agricultural &	International	2019

	Role in Plant Drought Tolerance	Crop Sciences		
18	Genome-wide identification, evolution and expression analysis of cyclic nucleotide-gated channels in tobacco (Nicotiana tabacum L.)	Genomics	International	2019
19	Rhizosphere-associated Alcaligenes and Bacillus strains that induce resistance against blast and sheath blight diseases, enhance plant growth and improve mineral content in rice	Journal of Applied Microbiology	International	2018
20	Comprehensive genomic analysis of the CNGC gene family in Brassica oleracea: novel insights into synteny, structures, and transcript profiles	BMC genomics	International	2017
21	A consortium of rhizobacterial strains and biochemical growth elicitors improve cold and drought stress tolerance in rice (Oryza sativa L.)	Plant Biology	International	2016
22	Multiplex PCR assay for simultaneous detection of six major bacterial pathogens of rice	Journal of Applied Microbiology	International	2016
23	: Palynological Studies of Genus Draba L. In.: Brassicaceae) From Pakistan	BAOJ Biotech	International	2016
24	Genome-wide association mapping of Quantitative Trait Loci (QTLs) for contents of eight elements in Brown Rice (Oryza sativa L.)	Journal of agricultural and food chemistry	International	2015
25	Gene expression of type VI secretion system associated with environmental survival in Acidovorax avenae subsp. avenae by principle component analysis	International journal of molecular sciences	International	2015
26	Controlling bacterial leaf blight of rice and enhancing the plant growth with endophytic and rhizobacterial Bacillus strains	Toxicological & Environmental Chemistry	International	2015
27	Bioinformatics study of Tocopherol biosynthesis pathway genes in Brassica rapa	International Journal of Current Microbiology and Applied Sciences	International	2015
28	Cyclic nucleotide-gated ion channel gene family in rice, identification, characterization and experimental analysis of expression response to plant hormones, biotic and abiotic stresses	BMC genomics	International	2014
29	Characterizing the mode of action of Brevibacillus laterosporus B4 for	World Journal of Microbiology and	International	2014

		Distantantant		
	control of bacterial brown strip of rice caused by A. avenae subsp. avenae RS-1	Biotechnology		
	A novel rhizobacterium Bk7 for			
30	biological control of brown sheath rot of rice caused by Pseudomonas fuscovaginae and its mode of action	European journal of plant pathology	International	2014
31	Tomato plant growth promotion and antibacterial related-mechanisms of four rhizobacterial Bacillus strains against Ralstonia solanacearum	Symbiosis	International	2014
32	Utilization of plant materials for control of soybean cysts nematode	Acta Agriculturae Scandinavica, Section B—Soil & Plant Science	International	2014
33	Thidiazuron induced plant regeneration in Brassica rapa var. Turnip via seed derived calli induction and radical scavenging activity.	Sarhad Journal of Agriculture	National	2014
34	Draba ishkomania (Brassicaceae), a new addition to flora of Pakistan	Sarhad Journal of Agriculture	National	2013
Paper	Presented			
S. No	Title of Paper	Name of Conference	National/ International	Date
1	Genome-wide identification and evolutionary analysis of CNGC gene families in sixteen brassicaceae plant genomes	NUST Conference on Agricultural Sciences and Technology (NCAST) Islamabad, Pakistan	National	March 14–16, 2023
2	Economic and Eco-friendly Alternatives for the Efficient and Safe Management of Wheat Diseases	3rd International Conference of Applied Biosciences (ICAB- 2022) on "emerging trends in bioinformatics and biosciences (ICETBB-2022), MAJU	International	December 28–29, 2022
3	Identification of CNGC gene family in Brassica oleracea	3rd International Conference of Applied Biosciences (ICAB- 2022) on "emerging trends in bioinformatics and biosciences	International	December 28–29, 2022

				(ICETBB-2022), MAJU			
4							
5	Suppression of Rice Blast and Sheath Blight Diseases by Alcaligenes faecalis, a new biocontrol agent with multiple modes of action		3rd World Congress and Expo on Applied Microbiology, Abu Dabi, UAE	International	November 07-09, 2016		
6	Lespedeza bicolor, a new record from Pakistan.			2nd international conference of plant scientists, GC University, Lahore		22 -24 February 2011	
7	Draba gilgitica a new taxon from Pakistan.			2nd International Conference, Biodiversity is our life (IC Bio our life), Shah Abdul Latif University, Khairpur (Mirs) Sindh Pakistan		29-31 Dec, 2010	
Books	Authored/ I	Edited					
S. No	Name of book			Publisher	ISBN		
1	Economic and Eco-friendly Alternatives for the Efficient and Safe Management of Wheat Diseases			Springer	978-981-19-3120-8		
2	Cosmetic Herbs: Natural skin care recipes			pes Paperback	LAP LAMBERT Academic Publishing	978-3848443079	
Work	Experience						
S. No	From (year) Name of the Institution/ Organization				Position he	eld	
1	2021	Present	Departmen BUITEMS, P	t of Microbiology, akistan	Associate p	Associate professor	
2	2019	2021	informatics	ife sciences & , BUITEMS, Pakistan	Assistant p	rofessor	
3	2015	2018	Laboratory Guizhou Ac	Genetics Key of China Tobacco, ademy of Tobacco uiYang, P. R. China	Foreign Ex	Foreign Expert Scientist	
4	2012	2013	Dr. Pan's English Academy – Yiwu P. R. China		u, English Lar	English Language Instructor	
5	2009	2010	Hospital (Ra	ab, Benazir Bhutto awalpindi General awalpindi, Pakistan		Pathologist under National Internship Program	
Area o	Area of specialization Interaction				nt Pathology &	Plant-Microbe-	
Resea	ROSDARCH INTOROST			1icrobiology blogy			

	 Health sciences Plant Pathology and Biological control Plant-microbe interaction Plant Genomics, breeding and stress management Biosafety, Biosecurity & Risk Management Research Methodology
Future Research Plans	
HEC Approved supervisor	
If Yes, provide HEC URL	
Research grants/ Projects	2023-2024: National Institute of Health (NIH)- Health Research Institute (HRI): Epidemiology and Risk assessment of antimicrobial-resistant pathogenic Escherichia coli carriage in sympatric humans and livestock of flood affected areas of Balochistan.

Professional Trainings

- 2023: Trainer at MS/PhD Synopsis/Thesis/Research Paper Write up workshop on "Research Paper/Proposal/Thesis Write up and Publication", BUITEMS, 18th July, 2023
- 2023: Trainer at 2 Days International Hybrid Training Workshop on "Clinical Diagnosis of Mycotic Diseases", funded by Higher Education Commission under National Research Program for Universities, at BUITEMS, Quetta from 21-22 June, 2023
- 2022: Keynote speaker at 4 Day's Training Workshop organized/ conducted in Department of Biotechnology, Faculty of Life Sciences & Informatics, BUITEMS, Quetta in collaboration on Center for Environmental & Occupational Health (CEOH), National Institute of Health, Islamabad on "Infection Prevention & Control (IPC), Good Laboratory Clinical Practices (GLCPs) and Patient Occupational Safety (POS)" from 17th - 20th May
- 2022: Trainer at 5 days training organized by Association for Biorisk Management on "Enhancing Veterinary Diagnostic & Research Laboratories capabilities in Pakistan", December 05–09
- **2022: Panelist** on the Impact of Resilience and Perseverance in Effective Teaching. November 14th, BUITEMS Quetta
- 2020: Professional Skills Development for New faculty Members BUITEMS, Quetta Oct 22- Nov 06
- 2019: Biosafety Awareness Training Workshop (PBSA) BUITEMS, Quetta APR 22- APR 24, 2019