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Name	Dr. Faiz Muhammad			
Designation	Assistant Professor			
Department	Microbiology			
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Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
	Post Doctorate			
2018	PhD	University of Karachi, Karachi	Microbiology	
2012	MS/ Mphil	University of Karachi, Karachi	Microbiology	
2008	Graduation	University of Karachi, Karachi	Microbiology	
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Isolation, Solubilization of Inorganic Phosphate, and Production of Organic Acids by Individual and Co-inoculated Microorganisms	Geomicrobiology Journal, DOI: 10.1080/01490451.2022.2124329	International	2022
2	Apocalyptic virus: The Silent Killer of an Era Biology and Life Sciences,	International Journal of Research Publication 80(1), 159-176 10.47119/IJRP100801720212060		2021
3	Amylase Production and growth pattern of two indigenously isolated <i>Aspergilli</i> under submerged	Pakistan Journal of Botany, 53(3): 1147-1155,	National	2021

	fermentation: influence of Physico-chemical parameters			
4	An Improved Hemagglutination Inhibition test for rapid diagnosis and stereotyping of avian infectious bronchitis virus.	Pakistan Journal of Zoology , https://dx.doi.org/10.17582/journal.pjz/20190111080133	National	2019
5	Diagnosis of avian mycoplasmas: A comparison between PCR and culture technique. Archives of Razi Institute	Archives of Razi Institute, 73(3), 239-244. doi: 10.22092/ari.2017.108217.108	Interanational	2018
6	Development of ELISA and its comparison with other diagnostic methods for avian mycoplasmosis	International Journal of Biology and Biotechnology, 15 (1): 39-45.	National	2018
7	Molecular Characterization of Universal Mycoplasmas and <i>Acholeplasma laidlawii</i> from Buffaloes (<i>Bubalus bubalis</i>) at Karachi, Pakistan"	Indian Journal of Animal, DOI: 10.18805/ijar.B-737.	Interanational	2018
8	Production and Characterization of Endoglucanase from an indigenous yeast strain.	Pakistan Journal of Botany, 50(6); 2413-2421	National	2018
9	Development and Evaluation of Tetra PCR for differential diagnosis of <i>Mycoplasma gallisepticum</i> and <i>M. synoviae</i>	Pakistan Journal of Zoology 49, (6) 2133-2140	National	2017
10	Antibacterial potentials of Human urine at acidic pH5.	Journal of Rawalpindi Medical College, 21 (3): 293-297.	National	
11	Dot-ELISA for Newcastle disease, Infectious bursal disease and mycoplasmosis	Pakistan Journal of Zoology , 44(5)1301-1305	National	2012

Paper Presented

S. No	Title of Paper	Name of Conference	National/ International	Date
	. Dot-ELISA for Newcastle disease, Infectious bursal disease and mycoplasmosis	. (1 st national symposium on "New Horizons of Microbiology"	National	7-8 oct, 2012
	Tetra PCR for differential diagnosis of <i>Mycoplasma gallisepticum</i> and <i>M.</i>	(10 th Biennial PSM conference	National	(March, 2015)

	<i>synoviae.</i>			
	Development of diagnostic test for determining the incidence of Mycoplasmosis in bovine in Karachi, Pakistan.		Presented in 9 th Biennial NIBC-PSM conference,	National 28 th January, 2013)
	Development and Evaluation of Tetra PCR for differential diagnosis of <i>Mycoplasma gallisepticum</i> and <i>M. synoviae.</i>		Summer internship program, Tokyo medical and Dental University, Japan	International August, 27-September, 03, 2015
Books Authored/ Edited				
S. No	Name of book (Book Chapter)		Publisher	ISBN
Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	July 1, 2006,	June 30, 2007	Department of Microbiology, University of Karachi, Karachi	Part-time Typist
2	July 1, 2007	June 30, 2008	Department of Microbiology, University of Karachi, Karachi	Research Assistant
3	July 2009	26 th June, 2010	Center of Excellence in Marine Biology, University of Karachi, Karachi	Research Internee
4	04 th January, 2013	Feb, 2018.	Department of Microbiology, Balochistan University of IT, Engineering & Management Sciences (BUIITEMS)	Lecturer
5	Feb, 2018	Till date	Department of Microbiology, Balochistan University of IT, Engineering & Management Sciences (BUIITEMS),	Assistant Professor
Area of specialization			Microbiology, Molecular Biology, Immunology	
Research Interest			Interest in the molecular and immunological aspects of Mycoplasmas, Mycobacterium, and viruses. His research focuses on exploring enzymes, gene cloning, mutations through CRISPR-Cas9, and whole genome sequencing.	
Future Research Plans			Development of vaccines, GIS Mapping of different pathogens, Genome wide association studies of bacterial and viruses	
HEC Approved supervisor			Not yet	
If Yes, provide HEC URL				

	Title	Year	Funding Agency & Cost
Research grants/ Projects	1. As PI, “Whole genome sequencing based approach for epidemiological study and characterization of drug resistance mechanisms in Mycobacterium tuberculosis strains prevalent in Balochistan”.	2023	National Institute of Health, Health Research Institute, Islamabad, Rs. 2.95 M
	2. As PI, “Bio-surveillance & GIS Mapping- Balochistan based”	2022	National Engineering & Scientific Commission (NESCOM), Islamabad Rs. 0.4 M
	3. As PI, “CRISPR-Cas9 based mutagenesis for the attenuation of Mycobacterium avium subspecies paratuberculosis (MAP) as vaccine Candidate”	2022	National Research Program for Universities-HEC Rs. 4.277 M
	4. As PI, “Phylogenetic characterization of <i>Mycobacterium avium subsp. paratuberculosis</i> from Cattle farms around Quetta city”.	2019	BUIEMS-ORIC Rs. 0.1775 M
	5. As PI, “Development of PCR for clinical diagnosis of avian mycoplasmosis”.	2013	BUIEMS-ORIC 0.1546 M

Additional Information

Dr. Faiz Muhammad is an accomplished Assistant Professor in the Department of Microbiology at BUIEMS in Quetta, Pakistan. He holds a PhD in Microbiology from the esteemed University of Karachi, which he obtained in 2018.

Dr. Faiz specializes in the molecular and immunological aspects of Mycoplasmas, Mycobacterium, and viruses. His research focuses on exploring enzymes, gene cloning, mutations through CRISPR-Cas9, and whole genome sequencing. These interests have led him to supervise numerous projects in his current role. Specifically, Dr. Faiz has overseen projects on CRISPR-Cas9 mutagenesis for vaccine development, as well as a whole genome sequencing-based approach for epidemiology and drug resistance prediction. He is also conducting GIS mapping of different pathogens prevalent in the Balochistan region.

Throughout his career, Dr. Faiz has published a significant number of research papers, solidifying his standing as an expert in his field. Additionally, he has been actively involved with the Department of Microbiology since 2013, continuously contributing to its growth and success.

To further his professional development, Dr. Faiz is an esteemed member of both the American Society for Microbiology (ASM) and the Pakistan Society of Microbiology (PSM). These memberships reflect his commitment to staying up to date with the latest advancements and networking with fellow

professionals in his field.

With his extensive knowledge and expertise in microbiology, Dr. Faiz Muhammad continues to make valuable contributions to the field, both through his research and his mentorship of students.