



# BUITEMS

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<b>Designation</b>		Assistant Professor	
<b>Department</b>		Biotechnology	
<b>Faculty</b>		Life Sciences and Informatics	
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<b>Qualification</b>			
Year	Degree/ Certificate	Name of the Institute/ University	Field of study
2021	Post Doctorate	Finnish Institute of Environmental Health, Finland	Melanoma, Squamous cell carcinoma
2020	PhD	University of Eastern Finland, Kuopio, Finland.	Environmental Health (Radiation Biology)
2011	MPhil	Aga Khan University Hospital, Karachi, Pakistan.	Epidemiology, Bioethics and Research
2009	Graduation	Balochistan University of Information Technology Engineering and Management Sciences, Quetta, Pakistan.	Biotechnology and Informatics
<b>Awards and Fellowships</b>			
2009	MPhil scholarship awarded by Fogarty International, National Institute of Health (NIH), <b>USA</b>		
2016	PhD fellowship awarded by Higher Education Commission (HEC), <b>Pakistan</b>		
2019	PhD fellowship awarded by Alfred Kordelin Foundation, Helsinki, <b>Finland</b>		
2019	Travel grant awarded by European Atomic Energy Community (Euratom), European Union, Bern, <b>Switzerland</b>		
2020	Travel grant awarded by International Institute for Environmental Studies, Ontario, <b>Canada</b>		

<b>List of Selected Publications in HEC Recognized Journals</b>				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Phenotypic analysis, molecular characterization, and antibiogram of caries-causing bacteria isolated from dental patients	Microorganisms	International	2023
2	Growth and lipid production of <i>Ankistrodesmus</i> sp. IFRPD 1061 under mixotrophic culture condition: Effect of sodium acetate concentration and period addition in an open pond	Energy Ecol. Environ.	International	2023
3	Comparison of marine and rushton impeller in high solid loading of two-step pretreated oil palm trunk using simultaneous saccharification and fermentation for ethanol production	Results in Engineering	International	2023
4	Assessment of Heavy Metals in Milk Samples of Cattles and Buffalos from District Quetta	Pak. J. Zol.	International	2023
5	Current pandemic COVID-19 vaccine strategies and development: a comprehensive review	VacciMonitor	International	2023
6	Phytochemical effectiveness of some ethanomedicinal plants of Balochistan, Pakistan against urogenital infections	Int. J. Agric. Technol	International	2022
7	Evaluating the diagnostic accuracy of GeneXpert MTB/RIF assay for the diagnosis of Tuberculosis	Pak. J. Zol.	International	2022
8	Residential extremely low frequency magnetic fields and skin cancer	Occup. Environ. Med.	International	2022
9	Novel coronavirus 2019 (COVID-19) diagnosis and treatment: Recent review updates	Pak. Paed. J.	International	2021
10	Cellulase addition and pre - hydrolysis effect of high solid fed - batch simultaneous saccharification and ethanol fermentation from combined pretreated oil palm trunk	ACS Omega	International	2021
11	A cohort study on adult hematological malignancies and brain tumors in relation to magnetic fields from indoor transformer stations	Int. J. Hyg. Envir. Heal.	International	2021

12	Novel coronavirus 2019 (COVID-19) pandemic outbreak: A comprehensive review of the current literature	Vacunas	International	2020
13	Role of phytochemicals in regulation of cancer cells: A comprehensive literature review	Ann. Canc. Res. Ther.	International	2020
14	Registry of buildings with transformer stations as a basis for epidemiological studies on health effects of extremely low frequency magnetic fields	Bioelectromagnetics	International	2019
15	A pilot study on the reproductive risks of maternal exposure to magnetic fields from electronic article surveillance systems	Int. J. Radiat. Biol.	International	2018
16	Assessment of health risks of intermediate frequency magnetic fields	IFMBE Proceedings	International	2017
17	Detection of Arsenic, Antimony and Bacterial contamination in drinking water	BFIJ	International	2017
18	Study of factors affecting and causing preterm birth	JEZS	International	2017
19	Ethics in public health research and clinical research	BJBio	International	2016
20	Standard of care in clinical research involving human subjects: A perspective from developing world	BJBio	International	2014
21	Study of factors affecting and causing low birth weight	J. Sci. Res.	International	2014
22	Detection of heavy metals (Pb, Sb, Al, As) through atomic absorption spectroscopy from drinking water of District Pishin, Balochistan, Pakistan	Int J Curr Microbiol App Sci	International	2014
23	Determination of heavy metals found in different sizes of tube wells of district Pishin Balochistan, Pakistan	AJST	International	2013
24	Issues of research ethics and clinical ethics in developing world, possible solution: A way forward	BJBio	International	2012
25	Breach of confidentiality: Unintentional common practice due to misunderstanding and unawareness	BJBio	International	2011

Paper Presented				
S. No	Title of Paper	Name of Conference	National/ International	Date
1	Empirical studies on the link between environmental extremely low frequency magnetic fields and Alzheimer's disease	The Bioelectromagnetics Society (BioEM) annual conference	International (Ghent, <b>Belgium</b> )	September 25 - October 1, 2021
2	Evaluating the diagnostic accuracy of GeneXpert MTB/RIF assay for the diagnosis of Tuberculosis	12 <sup>th</sup> Health Sciences Research Assembly, Aga Khan University Hospital	International (Karachi, <b>Pakistan</b> )	December 14 - 18, 2020
3	Novel approach to study potential adverse health effects of residential exposure to extremely low frequency magnetic fields	5th Annual International Institute for Environmental Studies (IIES) Science and Policy Workshop	International (Seoul, <b>South Korea</b> )	November 13-14, 2019
4	Basics in environmental monitoring, Radiation protection	Radiation protection - Basics and applications (RaPBA), Forschungszentrum	International (Jülich, <b>Germany</b> )	March 11 - 15, 2019
5	Assessment of factors affecting and causing Hepatitis B	11 <sup>th</sup> Health Sciences Research Assembly, Aga Khan University Hospital	International (Karachi, <b>Pakistan</b> )	December 12 & 13, 2017
6	Assessment of health risks of intermediate frequency magnetic fields	Joint conference of the European Medical and Biological Engineering Conference and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics	International (Tampere, <b>Finland</b> )	June 11-15, 2017
7	Assessment of heavy metals and microorganisms in drinking water of district Quetta	9 <sup>th</sup> Health Sciences Research Assembly, Aga Khan University Hospital	International (Karachi, <b>Pakistan</b> )	April 08 & 09, 2015
8	Standard of care in research involving human subjects in developing world	2 <sup>nd</sup> International Biennial Conference of the Indus Hospital: Care beyond Cure (ICON). Marriott Hotel	International (Karachi, <b>Pakistan</b> )	January 25-26, 2014
9	Issues of research ethics and clinical ethics in developing world, possible solution: A way forward	8 <sup>th</sup> Health Sciences Research Assembly, Aga Khan University Hospital	International (Karachi, <b>Pakistan</b> )	December 11 & 12, 2013

10	Breach of confidentiality: Unintentional common practice due to misunderstanding and unawareness	7 <sup>th</sup> Health Sciences Research Assembly, Aga Khan University Hospital	International (Karachi, Pakistan)	December 20 & 21, 2012
<b>Work Experience</b>				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	2021	Till date	Balochistan University of Information Technology Engineering and Management Sciences, Quetta, Pakistan.	Assistant Professor
2	2020	2021	Finnish Institute of Environmental Health, Finland	Post-Doc
3	2016	2020	University of Eastern Finland, Kuopio, Finland.	Early-Stage Researcher
4	2012	2015	Balochistan University of Information Technology Engineering and Management Sciences, Quetta, Pakistan.	Lecturer
5	2012	2012	Balochistan University of Information Technology Engineering and Management Sciences, Quetta, Pakistan.	Research Associate
6	2011	2012	Balochistan University of Information Technology Engineering and Management Sciences, Quetta, Pakistan.	Lecturer (Visiting)
<b>Area of specialization</b>			Environmental Health	
<b>Research Interest</b>			Environmental Health Environmental Epidemiology Adverse health effects of environmental stressors	
<b>Future Research Plans</b>			To conduct studies on adverse health effects of Ionizing/non-ionizing radiations, particulate matters (PM 10, PM 2.5, PM 0.1) and other environmental stressors	
<b>HEC Approved supervisor</b>			Yes	
<b>If yes, provide HEC URL</b>			<a href="https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx">https://hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx</a> (Application ID: <b>90006</b> )	

## **Additional Information**

### **Academia**

<https://uef.academia.edu/MuhammadWaseemKhan>

### **Google Scholar**

<https://scholar.google.com/citations?user=yg5zX2gAAAAJ&hl=en>

### **LinkedIn**

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### **ORCID ID**

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### **ResearchGate:**

[https://www.researchgate.net/profile/Muhammad\\_Khan321](https://www.researchgate.net/profile/Muhammad_Khan321)

### **Sciprofiles**

<https://sciprofiles.com/profile/sabaawoon>

### **Twitter**

<https://twitter.com/WaseemTareen>