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Picture

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Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2017	PhD	University of Veterinary & Animal Sciences, Lahore.	Molecular Biology & Biotechnology	
2011	MPhil	CEMB, University of the Punjab, Lahore.	Molecular Biology	
2000	M.Sc	Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.	Biology	
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1.	A missense pathogenic variant in a conserved region of CNTNAP2 is associated with obesity, seizures and language impairment in a Pakistani family	Molecular Syndromology	International	2023
2.	Identification and In Silico Analysis of a Homozygous Nonsense Variant in TGM1 Gene Segregating with Congenital Ichthyosis in a Consanguineous Family	Medicina	International	2023

3.	Detection of Two Missense Substitutions in Gene <i>EPM2B</i> in Patients of Myoclonic Epilepsy from Balochistan	Pakistan Journal of Zoology	National	2022
4.	Genetic data of 22 autosomal STR loci in Khyber-Pakhtunkhwa, Balochistan and Gilgit Baltistan population of Pakistan using PowerPlex® fusion system	Legal Medicine	International	2022
5.	Microbial pollution in inland recreational freshwaters of Quetta, Pakistan: an initial report	J Water Health	International	2022
6.	Mutational Analysis of Gene <i>BRD2</i> in Patients of Juvenile Myoclonic Epilepsy	Int. j. pathology	National	2022
7.	Nested-PCR based Detection of Hepatitis C Virus: Low-cost Strategy in Pakistan.	Pakistan Academy of Sciences. Life and Environmental Sciences	National	2022
8.	Study on Amyotrophic lateral Sclerosis: A Disease of Motor Neuron in Pakistan	Int. j. pathology	National	2021
9.	Estimation of Allele's Frequency of four STR markers (<i>D5S818</i> , <i>D7S820</i> , <i>D13S317</i> & <i>D16S539</i>) in Pashtun Population in Balochistan, Pakistan.	Int. Biol. Biotech.	International	2021
10.	Mutational Studies of Gene <i>HBB</i> in β -Thalassemia Patients from Balochistan, Pakistan.	Current Trends in OMICS	National	2021
11.	Identification of Mutations in Gene <i>BRCA1/2</i> in Breast Cancer Cases from Balochistan.	Pakistan J. Zoology	National	2019
12.	In-Silico Analysis of Gene <i>ALS2</i> Genetic Variants Identified in the Affected Horses and Humans with Motor Neuron Disease	Journal of Equine Veterinary Sciences	International	2017
13.	Identification of two Missense Mutations (p.Ile198Thr & p.Ser44Arg) in <i>TYR</i> gene in Pakistani families	International Journal of Biosciences	International	2017
14.	Mutational analysis of the equine Cu/Zn superoxide dismutase (<i>SOD1</i>) and amyotrophic lateral sclerosis (<i>ALS2</i>) in horses of Pakistani origin	International Journal of Biosciences	International	2017
15.	Identification of two novel <i>ALS2</i> mutations in infantile-onset ascending hereditary spastic paraplegia	Amyotrophic Lateral Sclerosis Frontotemporal Degeneration	International	2016
16.	Mutational spectrum of the <i>TYR</i> and <i>SLC45A2</i> genes in Pakistani families with oculocutaneous albinism, and potential founder effect of missense substitution (p.Arg77Gln) of tyrosinase	Clinical and Experimental Dermatology	International	2015
17.	Missense mutations (p.H371Y, p.D438Y) in gene <i>CHEK2</i> are associated with breast cancer risk in women of Balochistan origin	Molecular Biology Reports	International	2014

18.	Identification of a novel mutation (p.Ile198Thr) in gene TYR in a Pakistani family with nonsyndromic oculocutaneous albinism	Clinical and Experimental Dermatology	International	2014
19.	Optimization and validation of PCR for three hypervariable regions (HVI, HVII and HVIII) in human mitochondrial DNA	Advancements in Life Sciences	National	2014
20.	A Clinical Study of 7 Cases from Balochistan	Advances in Breast Cancer Research	International	2014
21.	Risk factors for lung cancer in the Pakistani population	Asian Pac J Cancer Prev.	International	2014
22.	Y-chromosomal STR analysis in the Pashtun population of Southern Afghanistan	Forensic Sci Int Genet.	International	2012
23.	An Alu repeat-mediated genomic GCNT2 deletion underlies congenital cataracts and adult i blood group	Hum Genet.	International	2012
24.	A homozygous splice site mutation in TRAPPC9 causes intellectual disability and microcephaly	Eur J Med Genet.	International	2012
25.	Detection of BRCA1/2 mutations in breast cancer patients from Thailand and Pakistan	Clin Genet.	International	2012
26.	A missense mutation (p.G274R) in gene ASPA causes Canavan disease in a Pakistani family	Mol Biol Rep.	International	2012
27.	Various aspects, patterns and risk factors in breast cancer patients of Balochistan	Asian Pac J Cancer Prev.	International	2012
28.	Identification of a novel LCA5 mutation in a Pakistani family with Leber congenital amaurosis and cataracts	Molecular Vision	International	2011
29.	Study on the Laying Performance of Cross (FAY x RIR) Chicken under Different Plans of Feeding	International Journal of Poultry Science	National	2002

Paper Presented				
S. No	Title of Paper	Name of Conference	National/ International	Date
1.	Molecular Characterization and Comparative Genomic Study in Genes of Progressive Motor Neuron Disease	2nd Asian Conference on Science, Technology & Medicine, Dubai,UAE	International	Mar.20-22, 2018
2.	Determination of expression profile of p53 gene in different grades of breast cancer tissues by real time PCR.	2nd National Conference on Emerging Trends in Bioinformatics and Biosciences	National	Aug. 09-11, 2018
3.	Ozone layer Depletion and its effects on health and environment.	In international conference on natural sciences at the Interface of Climate Change, Food Security and Sustainability	International	Oct. 24-26, 2018
Books Authored/ Edited				
S. No	Name of book	Publisher	ISBN	
Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1.	2019	To -date	BUIITEMS, Quetta	Professor
2.	2014	2019	BUIITEMS, Quetta	Assistant Professor
3.	2009	2014	CAMB, Ministry of Science and Technology	Forensic DNA Analyst
4.	2002	2009	CEMB, University of the Punjab, Lahore	A.R.O
Area of specialization			Human Genetics /DNA Forensics	
Research Interest			Molecular Biology, Molecular Genetics, Forensic Sciences	
Future Research Plans			Working as a Professor in the Department of Biotechnology in Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS), Quetta. During Ph.D. she worked on comparative genomic study of motor neuron disease in horses and human. Her research work is mainly focused on the investigations of mutation in genes in human disorder as well as autosomal DNA STR analysis in forensic sciences. Her core skills include of laboratory techniques in the field of Molecular Biology such as DNA and RNA isolation, DNA estimation, conventional PCR, gel electrophoresis, PCR genotyping, Real time PCR and DNA sequencing.	
HEC Approved supervisor			Yes	
If Yes, provide HEC URL			http://eportal.hec.gov.pk/asa	

<p>Research grants/ Projects</p>	<ul style="list-style-type: none"> ● “Identification of mutation in TYR genes causing albinism in patients of Balochistan” to HEC Start- up Research Program, Pakistan. Rs.496, 700/- (2017) Awarded from HEC. ● “Allele frequencies for 3 Short Tandem Repeat Loci (Amelogenin, FGA & TH01) in blood samples of Hazara Population.” Rs. 150,000/- (2019) Awarded from ORIC, BUITEMS. ● “Identification and characterization of mutations in GLI3 gene in Balochistan families suffering from Polydactyly.” Rs. 92,000/- (2018) Awarded from ORIC, BUITEMS. ● Study on estimation of allele’s frequency of STR markers (D16S539, D13S317) in Baloch and Pashtun population. Rs. 90,000/- (2017) Awarded from ORIC, BUITEMS. ● Study on estimation of allele’s frequencies STR markers (<i>D5S818 and D7S820</i>) in Balochistan Population. Rs. 150,000/- (2016) Awarded from ORIC, BUITEMS.
<p>Additional Information</p>	
<p>Scholarships/Prizes/Awards/Honors:</p> <ul style="list-style-type: none"> ● Merit Scholarship at Science College during B.S.Ed. (1993- 1996). ● 4th HEC outstanding Research Awards on best research paper “Detection of BRCA1/2 mutations in breast cancer patients from Thailand and Pakistan.” (2012) ● Research Productivity Award (RPA) by Pakistan Council for Science & Technology (PCST) (2014). ● Received Travel Grant amount Rs. 180,442/- for presenting research work as “Oral Presentation” entitled as “Molecular Characterization and Comparative Genomic Study in Genes of Progressive Motor Neuron Disease (2018). 	
<p>Professional Members/Membership:</p> <ul style="list-style-type: none"> ● Member of “Board of Studies for Biology and Zoology” of Virtual University, Lahore (2021-2024). ● Member of “Graduate Research Committee” Department of Biotechnology, BUITEMS (2022). ● Member of Departmental “Tenured Track Review Committee” (DTRC) BUITEMS, Quetta (2022). ● Member of Board of Study Department of Biotechnology, BUITEMS, Quetta (2017, 2021). ● Member of an “Institutional Review Board” (IRB) Department of Biotechnology, BUITEMS (2022). ● Life Time Member of the “Khwarizmi Science Society” (KSS) Pakistan. ● Life Time Member of National Academy for Young Scientists (NAYS) Pakistan. ● Life Time Member of Pakistan Biological Safety Association (PBSA), Islamabad. ● IEEE Professional Member of advance technology for humanity. 	
<p>Symposia/Training/ Seminars:</p>	

- International Federation of Biosafety Association (IFBA) has successfully demonstrated competence for Professional Certification in Biorisk Management on 30th of January, **2023. ID ZFX209499**
- Certificate of participation as a member of organizing committee in the 4 days training workshop on infection prevention and control, Good clinical laboratory practices & patient occupational safety **2022**.
- Training session on Research Management with IEEE Xplore: Tips & Practices. 11th May, **2022**.
- Research Capacity Building Programme in Pakistan in Governor Hall, at Marriott Hotel, Karachi.
- 30th August- 2nd September, **2022** organized by (HEC).
- 17-20 may, **2022**, jointly organized by fungal biotechnology lab, department of biotechnology, Balochistan University of information technology, engineering & management sciences (BUIITEMS) & Centre for environmental & occupational health (CEOH), national institute of health (NIH), Islamabad.
- Dual Use research of Concern (DURC) workshop at the moven pick Hotel, Karachi from 29 June-July1, **2019** by Health Security Partners. USA.
- Certificate on paper presented "titled on Molecular Characterization and Comparative Genomic Study in Genes of Progressive Motor Neuron Disease" in 2nd Asian Conference on Science, Technology & Medicine held on 20-22 March, **2018** at Carlton Palace Hotel, Deira Dubai, UAE.
- Certificate of completion on Advanced Biological Risk Mitigation Training of Trainers (TOT) Workshop held September 10-14, **2018** at COMSTECH Secretariat Islamabad.
- Training workshop on Communication and Andragogical Skills held from December 5-7, **2017** in BUIITEMS collaboration with Higher Education Commission, Islamabad.