



# BUIITEMS

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### Qualification

Year	Degree/Certificate	Name of the Institute/ University	Field of study
2013	Ph. D	Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Karachi	Biotechnology
2005	Graduation	Department of Genetics, University of Karachi, Karachi	Genetics

### Work Experience

From (year)	To (year)	Name of the Institution/ Organization	Position held
30 <sup>th</sup> January, 2018	Present	Department of Biotechnology, BUIITEMS, Quetta	Associate Professor
4 <sup>th</sup> August, 2014	29 <sup>th</sup> January, 2018	Department of Biotechnology and Informatics, BUIITEMS, Quetta	Assistant Professor
27 <sup>th</sup> March, 2009	31 <sup>st</sup> July, 2014	Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Karachi	Scientific Officer
9 <sup>th</sup> January, 2007	26 <sup>th</sup> March, 2009	Molecular Biology (Genetics) Laboratory, Liaquat University of Medical and Health Sciences, Jamshoro, Sindh	Research Officer

## Research/ Travel Grants

Year	Project Title	PI/CoPI	Amount allocated	Funding Agency
2021-2022 Research Grant	“Vascular-Endothelial Growth Factor (VEGF) Gene Polymorphism in Diabetes Mellitus and Diabetic Retinopathy Patients of Balochistan”	Principal Investigator	2.9 Million	ORIC-Large Scale Competitive Grant Government of Balochistan, Grant-In-add fund for Research and Studies
2019 Travel Grant	“Identification of DMD gene mutation in Duchenne Muscular Dystrophy patients of Quetta, Balochistan”	Principal investigator	0.240 Million	Higher Education Commission, Pakistan
2018-2019 Research Grant	“Identification of ECM1 Gene mutation in Lipoid Proteinosis patients of Balochistan, Pakistan”	Principal investigator	0.186 Million	ORIC-BUITEMS
2017-2018 Research Grant	“Identification of DMD gene mutations in Duchenne Muscular Dystrophy patients of Balochistan”	Principal investigator	0.150 Million	ORIC-BUITEMS
2017 Travel Grant	“Genetic Mutation/ Polymorphism in VEGF gene in Diabetes Mellitus and Diabetic Retinopathy patients of Balochistan”	Principal investigator	0.185 Million	Higher Education Commission, Pakistan
2016-2017	BUITEMS Title: “Vascular Endothelial Growth Factor Gene Polymorphism in Diabetes Mellitus and Diabetic Retinopathy Patients of Balochistan”	Principal investigator	0.20 Million	ORIC-BUITEMS
2016-2017	“Study on Estimation of Allele frequencies of STR markers (D16S539, D13S317) in Baloch and Pashtun Population”	Co-Principal Investigator	0.90 Million	ORIC-BUITEMS
2015-2016	: “Molecular Genetic Analysis of Inherited Nail Dysplasia	Principal Investigator	0.20 Million	ORIC-BUITEMS
2014-2015	“Mutation Identification in Collagen Type VII (COL 7 A1) in Dominant and Recessive Epidermolysis Bullosa”	Principal Investigator	0.150 Million	ORIC-BUITEMS

## Publications in HEC Recognized journals

S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Identification and <i>In Silico</i> Analysis of a Homozygous Nonsense Variant in <i>TGM1</i> Gene Segregating with Congenital Ichthyosis in a Consanguineous Family	<i>Medicina</i>	International	2023
2	Novel Heterozygous Missense Mutation in COL7A1 Gene in Dystrophic Epidermolysis Bullosa.	<i>International Journal of Human Genetic</i>	International	2021
3	Association of SNP rs700519 in CYP19A1 Gene with Polycystic Ovary Syndrome (PCOS) among Females of Quetta, Pakistan	<i>International Journal of Human Genetic</i>	International	2021
4	Detection, quantification and genotype Distribution of HCV patients in Lahore, Pakistan by real- time PCR.	<i>African Health Sciences</i>	International	2020
5	DMD gene mutation identification in Duchenne Muscular Dystrophy patients of Quetta, Balochistan, Pakistan.	<i>Biocell</i>	International	2019
6	Diabetic Retinopathy and Vascular Endothelial Growth Factor (VEGF) Gene I/D polymorphism: at Glance.	<i>Canadian Journal of Diabetes</i>	International	2019
7	Polycystic ovarian syndrome and Genetic predisposition: A Review article.	<i>European Journal of Obstetrics &amp; Gynecology and Reproductive Biology:</i>	International	2019
8	DARPin Bioengineering and its Theranostic Approaches: An Emerging Trends in the Field of Protein Engineering. Current Pharmaceutical Design.	<i>Current Pharmaceutical Designs</i>	International	2017
9	Evaluation of Matrix Metalloproteinases, Cytokines and Their Potential Role in the Development of Ovarian Cancer.	<i>PLOS ONE</i>	International	2016
10	Genetic variants of ACE (Insertion/Deletion) and AGT (M268T) genes in patients with diabetes and nephropathy	<i>Journal of Renin-Angiotensin-Aldosterone System</i>	International	2014
11	Effects of green tea on ACE gene expression in rat liver in CCl4-induced cirrhosis	<i>Turkish Journal of Medical Sciences</i>	International	2013
12	Distribution of ACE I/D Polymorphism in the Patients of Diabetes and Nephropathy in Pakistan	<i>International Journal of Human Genetics</i>	International	2012
13	Glycemic control, dyslipidemia and endothelial dysfunction in coexisted diabetes, hypertension and nephropathy.	<i>Pakistan Journal of Pharmaceutical Sciences</i>	National	2012
14	Homozygous Frame Shift Mutation in ECM1 Gene in Two Siblings with Lipoid Proteinosis	<i>Journal of Dermatology: Case Report</i>	International	2010

<b>Research Presented</b>				
<b>S. No</b>	<b>Title of Talk</b>	<b>Name of Conference</b>	<b>National/ International</b>	<b>Date</b>
1	Identification of DMD gene mutations in Duchenne Muscular dystrophy patients of Quetta, Balochistan. Pakistan	“4th International Conference on Bioscience and Biotechnology” Malaysia	International	21-22 February, 2019
2	“Genetic Mutation/ Polymorphism in VEGF gene in Diabetes Mellitus and Diabetic Retinopathy patients of Balochistan”	“World Conference on Science Technology and Medicine” Dubai	International	12-14 <sup>th</sup> August, 2017
3	Angiotensinogen (AGT) Gene, M268T Polymorphism in Coexistent Diabetes, Hypertension and Nephropathy	“3 <sup>rd</sup> International Symposium”, Bahria Medical and Dental College, Karachi	International	27 <sup>th</sup> April, 2013
4	Genetic variations in ACE gene in patients of Nephropathy in Diabetes	4 <sup>th</sup> Regional Symposium of Asian Federation of Biotechnology (AFOB) at Thailand	International	17 <sup>th</sup> to 19 <sup>th</sup> January, 2013
5	ACE gene polymorphism: a possible genetic marker for Nephropathy in Diabetes”	15 <sup>th</sup> International Biotechnology Symposium and Exhibition 2012 (IBS-2012), Daegu, Korea	International	16 <sup>th</sup> to 21 <sup>st</sup> September, 2013
6	Association of ACE gene Polymorphism and Electrolyte Homeostasis in Diabetic Nephropathy	International Conference on Biomedical Science (ICBS), at Bandung, Indonesia	International	27 <sup>th</sup> to 28 <sup>th</sup> February, 2012
<b>Area of specialization</b>		Human Genetics		
<b>Expertise</b>		Molecular Biology		
<b>HEC Approved supervisor</b>		Yes		
<b>If Yes, provide HEC URL</b>		<a href="#">HEDP-ESMF.pdf (hec.gov.pk)</a>		