



# BUITEMS

Quality & Excellence in Education

ISO 9001-2008 certified

www.buitms.edu.pk

UAN: 081- 111-717-111

<b>Name</b>	Dr. Haleema Sadia			
<b>Designation</b>	Professor			
<b>Department</b>	Biotechnology			
<b>Faculty</b>	Life Sciences and Informatics			
<b>Research Profile</b>	<p>Research Profile ORCID ID: <a href="https://orcid.org/0000-0002-6350-8077">https://orcid.org/0000-0002-6350-8077</a>.</p> <p>Google Scholar Profile ID: <a href="#">Haleema Sadia - Google Scholar</a>.</p> <p>Research Gate ID:  <a href="https://www.researchgate.net/profile/Haleema-Shafi">https://www.researchgate.net/profile/Haleema-Shafi</a>.</p> <p>Researcher ID: GVS-2963-2022.</p>			
<b>E-mail address</b>	Official	Haleema.sadia@buitms.edu.pk		
	Personal	Sadiahaleema377@gmail.com		
<b>Telephone Number</b>	Office Extension	081-111-717-111 (871,685)		
	Mobile	-----		
<b>Qualification</b>				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
01	Ph. D	Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore In Collaboration with Department of Veterinary Medicine, University of Cambridge, UK.	Molecular Biology and Biotechnology	
02	M.Phil	Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore	Molecular Biology and Biotechnology	
03	Masters (M.Sc)	Institute of Chemistry, University of the Punjab, Lahore	Chemistry	
04	Graduation (B.Sc)	Queen Mary College, Lahore (Punjab University Examination System).	Botany, Zoology, Chemistry	
05	Intermediate (F.Sc)	Queen Mary College, Lahore and BISE, Lahore	Pre-Medical	
06	Matriculation	BISE, Lahore	Science- Biology	
<p><b>Publications in HEC Recognized journals</b>  <b>I have more than 100 publications in national and International peer reviewed Journals</b>  <b>With I.F&gt;200</b>  <b>Few are mentioned below:</b></p>				
<b>S. No</b>	<b>Title of Paper</b>	<b>Name of Journal</b>	<b>National/ International</b>	<b>Publication date</b>

1	Clinical applications of targeted therapy with nanocomposite delivery systems in cancer: Emphasis on miR34a regulation	<b>Cancer Cell International</b>	International	2023
2	Evaluation of stress and its clinical correlation among the students of Allied Health Sciences.	Advancements in Life Sciences	National	2023
3	Determination of Nutritional and Biochemical Composition of Selected Pleurotus spp.	<i>BioMed Research International</i>	International	2023
4	Dermatophytes Isolation from Patients and In-vitro Application of Selected Natural Extracts and Oils for Anti-Dermatophytic Activity	<b>Microbiological &amp; Immunological Communications</b>	International	2023
5	Prospective outcome of Monkeypox outbreak in 2022 and characterization of monkeypox disease immunobiology	Microbe and Innate Immunity.	International	2023
6	Genetic Characterization of Pakistani Goat Breeds through Mitochondrial D-Loop and Cytochrome b Gene Analyses	Pakistan J. Zool	National	2023
7	Bio-sensing chips for cancer diagnosis and treatment: A new wave towards clinical innovation	Cancer Cell International	International	2022
8	In silico-prediction of chloroquine as a multi-targeted drug against CDKN2A signaling network associated with cutaneous malignant melanoma	Pakistan Journal of Pharmaceutical Sciences	National	2022
9	Myricetin: targeting signaling networks in cancer and its implication in chemotherapy	<b>Cancer Cell International</b>	International	2022
10	Demographic Distribution of Viral Hepatitis in the Patients of District Quetta, Pakistan.	RADS Journal of Biological Research & Applied Sciences	International	2022
11	Mutational analysis of exons 5-9 of TP53 gene in breast cancer patients of Punjabi ethnicity.	Advancements in Life Sciences	National	2022
12	Notch signaling and MicroRNA: The dynamic duo steering between neurogenesis and glioblastomas	Cell Mol Biol	International	2022
13	Prop-1 gene a selective marker of wool production in sheep breeds of Balochistan Pakistan.	J. Anim. Health Prod	International	2022

14	Genistein as a regulator of signaling pathways and microRNAs in different types of cancers	<i>Cancer Cell International</i>	International	2021
15	Pharmacy Education and Role of the Teachers during the COVID-19 Pandemic.	Bangladesh Journal of Medical Science	International	2021
16	Clinical applications of artificial intelligence and machine learning in cancer diagnosis: looking into the future	<i>Cancer Cell International</i>	International	2021
17	A Novel Heterozygous Missense Mutation in COL7A1 Gene in Dystrophic Epidermolysis Bullosa	Int J Hum Genet	International	2021
18	Association of SNP rs700519 in CYP19A1 Gene with Polycystic Ovary Syndrome (PCOS) among Females of Quetta	Int J Hum Genet	International	2021
19	A comparative study for evaluation of uric acid among age-wise and gender-wise in district Toba Tek Singh	Int. J. Biosci	International	2021
20	Evaluation of Cyclin-Dependent Kinase Inhibitor Signalling network in esophageal Adenocarcinoma Via Computational and statistical approaches	Bioscience Research	International	2021
21	Epidemiological Survey of the Prevalence of HCV and HBV among the Factory Workers in the Periphery of Lahore	<i>BioScientific Review</i>	International	2021
22	Apigenin role as cell-signaling pathways modulator: implications in cancer prevention and treatment	<i>Cancer Cell International</i>	International	2021
23	Canine populations in vicinity are propagating Canine Transmissible Venereal Tumour in Pakistan	Pakistan J. Zool.	International	2021
24	Targeting androgen receptor signaling with MicroRNAs and Curcumin: a promising therapeutic approach for Prostate Cancer Prevention and intervention	<i>Cancer Cell International</i>	International	2021
25	Prevalence of diabetic mellitus in hepatitis C patients in tehsil Wazirabad, district Gujranwala Pakistan	Baghdad Science Journal	International	2021
26	Virulent and multidrug-resistant Klebsiella pneumoniae from clinical samples in Balochistan	Int Wound J.	International	2021

27	Nanotechnology-based strategies for berberine delivery system in cancer treatment: pulling strings to keep berberine in power.	<i>Frontiers in Molecular Biosciences</i>	International	2020
28	MicroRNAs and Natural Compounds mediated regulation of TGF Signaling in Prostate Cancer	<i>Frontiers in Pharmacology</i>	International	2020
29	MicroRNA regulation of TRAIL in Renal Carcinoma: Tiny Juggernauts at Work.	Current Pharmaceutical Design	International	2020
30	Resveratrol, Curcumin, paclitaxel and miRNAs mediated regulation of PI3K/Akt/mTOR pathway: Go four better to treat Bladder cancer	<i>Cancer Cell International</i>	International	2020
31	Regulation of Hedgehog Signaling by miRNAs and Nanoformulations: A Possible Therapeutic Solution for Colorectal Cancer	Frontiers in Oncology	International	2020
32	Quercetin and MicroRNA Interplay in Apoptosis Regulation in Ovarian Cancer	Current Pharmaceutical Design	International	2020
33	Detection, quantification and genotype distribution of HCV patients in Lahore, Pakistan by real-time PCR.	African Health Sciences	International	2020
34	Determination of expression profile of p53 gene in different grades of breast cancer tissues by real time PCR-	African Health Sciences	International	2020
35	LncRNA & Wnt signaling in colorectal cancer.	<i>Cancer Cell International</i>	International	2020
36	Recurrent horizontal transfer identifies mitochondrial positive selection in a transmissible cancer.	<b>Nature communications</b>	International	2020
37	Long non-coding RNA regulation of TRAIL in breast cancer: A tangle of non-coding threads	Oncology Letters	International	2020
38	LncRNA as potential therapeutic targets in thyroid cancer.	Asian Pacific Journal of Cancer prevention	International	2020
39	Eco-friendly bacterial biodegradation of mycotoxins	Pure and Applied Biology	International	2020
40	Composition, functional and medicinal importance of propolis: A review.	Bioscience Research,	International	2020
41	Comprehensive facts on dynamic properties of polysaccharides and	International Journal of Biological	International	2019

	biomolecules-silver nanoparticles-conjugate.	Macromolecules		
42	Silver Nanoparticles: Synthesis and Characterization by using Glucans extracted from <i>Pleurotus ostreatus</i>	Applied Nanoscience	International	2019
43	Somatic evolution and global expansion of an ancient transmissible cancer lineage	<b>Science</b>	International	2019
44	Changes in Irisin release in response to peripheral Kisspeptin-10 administration in normal and obese healthy adult men.	Acta Endocrinologica	International	2019
45	Identification of Variations in the Coding Region of Myostatin (MSTN) Gene of Thalli and Pak-Karakul Sheep Breed in Pakistan	J Microbiol Biotech Food Sci	International	2019
46	Molecular medicines for neutralization of <i>Clostridium botulinum</i> neurotoxin	International Journal of Biosciences	International	2019
47	Urgency of novel anti-tuberculosis strategies: a prospective challenge.	International Journal of Biosciences	International	2019
48	Abattoir based sero-survey of mycobacterium avium subspecies paratuberculosis in bovines in district Faisalabad-PAKISTAN	Pakistan Journal of Zoology	International	2019
49	Molecular Expression of Cyclin dependent Kinase Inhibitor (p21) in Canine tumours. Journal of Animal and Plant Sciences	The Journal of Animal and Plant Sciences.	International	2019
50	Detection and Molecular Characterization of Virulent Newcastle Disease Virus in Ducks ( <i>Anas Platyrhynchos domesticus</i> )	Pakistan Journal of Zoology	International	2019
51	Consanguinity: a Blessing or Menace at population level	The Annals of Human Genetics	International	2019
52	Prevalence of <i>Helicobacter pylori</i> infection and its associated diseases in low socio-economic workers in tertiary care hospital of Lahore,	Pakistan. Biomedical letters	International	2019
53	Investigation of Liver Function Tests (LFTs) and Renal Function Tests (RFTs) in pregnant women affected with hypertensive disorders of pregnancy (HDP)	International Journal of Biosciences	International	2019

54	Wnt Signaling: A Potential Therapeutic Target in Head and Neck Squamous Cell Carcinoma.	Asian Pacific Journal of Cancer Prevention	International	2019
55	Virulence factors and drug resistance in <i>Klebsiella pneumoniae</i> ; an emerging superbug.	Pure Appl. Biol	International	2019
56	Comparative study of nutritional status, minerals and heavy metal contents in tetra pack branded milk samples with fresh milk from selected milk producing animals.	International Journal of Biosciences	International	2019
57	Prevalence of lifestyle and demographic related risk attributes among breast cancer patients in Pakistan	Science International	International	2018
58	Study on Tissue Tropism and Molecular Detection of VP2 Gene of Infectious Bursal Disease Virus in Experimentally Infected Broiler Tissues	Pakistan Veterinary Journal	International	2018
59	SE33 locus as reliable genetic marker for forensic DNA analysis system.	Turkish Journal of Medical	International	2018
60	3D-Bioprinting: A stepping stone towards enhanced medical approaches.	Advancements in Life Sciences	International	2018
61	EFFECT OF AGE AND SEASON ON SEMEN CHARACTERISTICS OF BUFFALO BULL	Journal Of Innovative research	International	2018
62	Identification of MDR strains of <i>Mycobacterium tuberculosis</i> through PCR-RFLP	International Journal of Health and Life Sciences.	International	2018
63	Phylogenetic of soil bacteria species by targeting Insertion sequence 711 Element in Punjab Pakistan	International Journal of Agriculture and Biology.	International	2017
64	Complete genomic analysis of Newcastle Disease Virus of a recent panzootic isolated from vaccinated poultry flock in 2014 in Pakistan	Journal of Plant and Animal Sciences.	International	2017
65	Role of Micro RNA in Endometrial Carcinoma	Advancements in Life Sciences	International	2017
66	Management of Non-Small cell Lung Cancer by genetic studies: A review.	Bulletin of Environmental, Pharmacology and Life Sciences.	International	2017
67	Developing a deeper insight into prostate cancer: review	Bulletin of Environmental, Pharmacology	International	2017

		and Life Sciences.		
68	The pattern of Invasive lobular carcinoma in the patients diagnosed with breast cancer from Balochistan	Indian Journal of Cancer	International	2017
69	ROLE OF FAS IN APOPTOSIS	Bulletin of Environmental, Pharmacology and Life Sciences.	International	2017
64	CONTROVERSIES: STEM CELL RESEARCH	Bullitin of Environment, Pharmocology and Life Sciences.	International	2017
65	Mitochondrial genetic diversity, selection and recombination in a canine transmissible cancer.	<b>eLife</b>	International	2016
66	Feline Mammary tumors show altered COX-2 and BRCA1 expression.	Pakistan Journal of Zoology	International	2016
67	COX-2 and BRCA1 have altered expression profile in different canine tumors	Journal of Plant and Animal Sciences,	International	2015
68	Mitochondrial cytochrome b gene based phylogeny of lohi and thalli breeds of Pakistan	Journal of Plant and Animal Sciences,	International	2014
69	Microsatellite Markers based Genetic Diversity Analysis in Damani and Nachi Goat Breeds of Pakistan	Pak Vet J	International	2013

**I have presented in more than 55 international and national conferences and won several oral and poster prizes. Also I won a prize in the 6<sup>th</sup> Invention to Innovation Summit 2017, organized by Punjab University, Lahore.**

S. No	Title of Paper/topic	Name of Conference	National/ International	Date
1	Real Time PCR	One Day Hands on training workshop on Real Time PCR Machine, Singuay pro 9600, organized by Department of Biotechnology, BUITEMS, Quetta, held	National	on 20 <sup>th</sup> July, 2023
2	Biosafety levels- BSLI-BSL-4	Two days workshop on mycotic diseases, organized by Department of Biotechnology, BUITEMS, Quetta, held	International	21-22 June, 2023.
3	Donning and Doffing Procedure in the BSL-1-BSL-4 Laboratories	Three day workshop on Biosafety and Biosecurity, organized by Pakistan Biological Safety association in collaboration with University of Gawadar	National	6-8 March, 2023
4	Mutaional analysis of Tp53 gene in Esophageal cancer.	Fourth International Conference On Emerging Trends In Bioinformatics & Biosciences	International	15-17 September, 2022
5	An Overview of Dramatic Increase of Breast Cancer Burden in Asia: An Alarming Situation	Seminar held by UMT, Lahore	National	May 13, 2022
6	Silver nanoparticles: synthesis and characterization by using glucans extracted from Pleurotus ostreatus	13 <sup>th</sup> Biennial International conference of Pakistan Society for Microbiology held on 22-24 December, 2021 at GCUF	International	22-24 DECEMBER, 2021
7	Assessment of Synergistic antibacterial activity of ten indigenous plants against locally isolated MRSA.	3 <sup>RD</sup> International Conference on Applied Zoology	International	7 <sup>th</sup> -8 <sup>th</sup> December-2020
8	Screening of indigenous plants for anti-bacterial activity against Salmonella typhi	6th International Conference on Drug Development – Natural & Synthetic “Current Approaches and Emerging Trends for the Development and Discovery of Drugs” Being hosted	International	November 29 – 30, 2019



		by Centre for Advanced Drug Research (CADR),		
9	Factors affecting the rate of Insomnia	National Conference, Research and Innovations in Medical and Health Sciences, organized by University of Sargodah	National	22-23th August,2019
10	Demographic Distribution of Viral Hepatitis in the Patients of District Quetta, Pakistan	Three day “ 3rd International Symposium on Advances in Molecular Biology of Plants and Health Sciences”,	International	Held on 19-21 December, 2018 at Centre of Excellence in Molecular Biology, University of The Punjab, Lahore
11	Ozon Layer Depletion And Its Effects On Health And Environment,	International Conference On Natural Sciences at the Interface of Climate Change, Food Security and Sustainability (NSICFSS),	International	24-26 th October, 2018 at University of Kotli Azad Jammu and Kashmir
12	EFFECT OF AGE AND SEASON ON SEMEN CHARACTERISTICS OF BUFFALO BULL - A REVIEW.	In the conference 24-26th October, 2018 at Lahore College for Women University Lahore.	International	24-26th October, 2018
13	An Overview of Dramatic Increase of Prostate Cancer Burden in Asia: An Alarming Situation	held at Centre for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, Georgia, <b>USA</b>	International	on 16-19 September, 2018
14	<i>In Silico</i> Analysis Of Cdkn2a Signaling Network Role In Cutaneous Malignant Melanoma	In the “Second National Conference on Emerging Trends in Bioinformatics and Biosciences (NCETBB-18) to be held at Hazara University Mansehra from	National	August 9-11, 2018
15	Comparative Physio-Chemical Characteristics of Milk in Pakistani Dairy Goats under Different Feeding	Tra Vinh University, <b>Vietnam</b> ( <a href="http://aadgc2018.tvu.e">http://aadgc2018.tvu.e</a>	International	Oct 17-19, 2018

	Regimes”	du.vn) (		
16	Identification of MDR strains of Mycobacterium tuberculosis through PCR-RFLP	International Journal of Health and Life Sciences. 2018 -4th International conference on Research - <b>Malaysia.</b>	International	in Life Sciences, 13-14 October, 2018-Malaysia.
17	HCV molecular genotypes occurrence in common populace of Lahore division, Pakistan.organized by faculty of public health doctoral program of health science,	Committee of 2nd International Symposium of Public Health <b>Surabaya,Indonesia</b>	International	11th-12th November, 2017

18	Diabetes, Hypertension and Nephropathy	Diabetes (ICD), Dow University of Health Sciences Karachi, Pakistan.		2011
19	ACE Gene polymorphism in Diabetic patients with and without Nephropathy	12 <sup>th</sup> Pakistan Physiological Society (PPS) Conference, King Edward Medical University, Lahore	National	11 <sup>th</sup> to 12 <sup>th</sup> April, 2011
20	ACE Gene Polymorphism: A possible genetic risk factors for in Diabetes Mellitus	10 <sup>th</sup> Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) "Bimolecular Sciences in Development" at Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Karachi	International	1 <sup>st</sup> to 5 <sup>th</sup> December, 2010
21	Comparative Physio-Chemical Characteristics of Milk in Pakistani Dairy Goats under Different Feeding Regimes	12th International Conference on Goats, <b>Antalya, Turkey,</b>	International	25 September 2016 - 30 September 2016
22	Expression analysis of COX-2 gene in Feline and Canine tumours	13th June 2014, Trinity Hall, University of <b>Cambridge, UK</b>	International	13 <sup>th</sup> June, 2014
23	Current Status and Future Prospects of Genomics work on Animal Genetic Resources of Pakistan	Indigenous Sheep Breeds of Pakistan as Reservoir of Genetic Diversity. 4th International Scientific Conference on Small Ruminant Production. <b>Sharm El Sheikh, Egypt.</b>	International	Sept. 3-7. 2012, vol 8 (1), 2013, DOI:10.12816/0005016 (Oral presentation)
24	Molecular Characterization, Evaluation and conservation of indigenous goat breeds of Pakistan,	8th Global conference on the conservation of animal genetic resources, <b>Tekirdag, Turkey</b>	International	<b>Tekirdag, Turkey</b> (4-8th October 2011), p: 43-50. 2009.

25	Tuberculosis: epidemiology, natural history and vaccine Research. Vaccines in the light of immune therapy and therapeutic antibodies. 4th	Semmering Vaccine Symposium: P-97, Vienna, Austria	INTERNATIONAL	Vienna, Austria 22-25 April, 2009
----	---	--	---------------	--------------------------------------

#### Books Authored/ Edited

S. No	Name of book	Publisher	ISBN
1	Evolutionary Science and Species differentiation.	International Book has been published in 2011 in VDM (Verlag, Dr. Muller).	ISBN- 978-363935212-2.
2	Protein-Based Detection Methods for Genetically Modified Crops. "Protein-protein interaction Assays, IntechOpen:	The Shard, 32 London Bridge Street, London SE1 9SG, United Kingdom +385 51 770 447, www.intechopen.com INTECHOPEN LIMITED, Registered in England and Wales No. 11086078. Open Access books, ( <a href="http://mts.intechopen.com/myprofile/index/dashboard">http://mts.intechopen.com/myprofile/index/dashboard</a> ).	ISBN-978-1-78923-390-2. ( <a href="http://mts.intechopen.com/myprofile/index/dashboard">http://mts.intechopen.com/myprofile/index/dashboard</a> ).
	4th AADG Conference entitled "Comparative Physio-Chemical Characteristics of Milk in Pakistani Dairy Goats under Different Feeding Regimes".	Tra Vinh University, Vietnam ( <a href="http://aadgc2018.tvu.edu.vn">http://aadgc2018.tvu.edu.vn</a> ).	ISBN: 978-604-60-2807-9.

#### Work Experience

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
-------	-------------	-----------	---------------------------------------	---------------

1	31-12-2021	To Date	Department of Biotechnology, BUITEMS, Quetta	Professor
2	16-02-2018	30-12-2021	Department of Biotechnology, BUITEMS, Quetta	Assistant Professor
3	31-08-2015	15-02-2018	Centre for Applied Molecular Biology, University of the Punjab Lahore	Assistant Professor
<b>Area of specialization</b>			Human Genetics, Animal Genetics, Oncology, Virology	
<b>Expertise</b>			Molecular Biology and Biotechnology, Diagnostics	
<b>HEC Approved supervisor</b>			Yes	
<b>If Yes, provide HEC URL</b>			HEC/HRD/ASA/2022/91077	
<b>Awards/honors</b>			<p><b>2023</b></p> <ol style="list-style-type: none"> <li>1. Awarded a <b>sponsored</b>, 5 day workshop on “Responsible Conduct in Life Sciences” organized by Fogarty NIH,USA and PBSA, held on 11-15<sup>th</sup> September, 2023, organized at Pullman G hotel , <b>Bangkok, Thailand</b></li> <li>2. <b>Sponsored</b> to conduct One Day Hands on training workshop on Real Time PCR Machine, Singuay pro 9600, organized by Department of Biotechnology, BUITEMS, Quetta, held on 20<sup>th</sup> July, 2023.</li> <li>3. Chapter head Pakistan Biological Safety Association for Balochistan January-2023-onward.</li> <li>4. Nominated as member Asian Federaton of pakistan for 5 years, 2023-2028.</li> </ol> <p><b>2022</b></p> <ol style="list-style-type: none"> <li>5. Session Chair Fourth International Conference On Emerging Trends In Bioinformatics &amp; Biosciences.15-17<sup>th</sup> September, 2022,Hazara University Mansehra, KP</li> <li>6. Invited Guest Speaker at the UMT to deliver a lecture on An Overview of Dramatic Increase of Breast Cancer Burden in Asia: An Alarming Situation</li> <li>7. Invited as the subject Expert for the interview of Indegenous Scholars for the PhDs under HEC faculty development program.</li> <li>8. Session Chair in the technical session of the conference in the “13<sup>th</sup> Biennial Internation conference of Pakistan Society for Microbiology held on <b>22-24</b> December, 2021” at GCUF, organized by Pakistan Society for Microbiology and GCUF, Pakistan.</li> </ol> <p><b>2021</b></p> <ol style="list-style-type: none"> <li>9. 2- On day meeting as Technical <b>PSF 16th Technical Committee</b> on Competitive Research Programme of “Product development through Indigenous Research and Innovation" held on Nov.16<sup>th</sup>, 2021, acted as member of <b>Technical Committee</b>.</li> <li>10. 3- Session Chair in the technical session of the conference in the “13<sup>th</sup> Biennial Internation conference of Pakistan Society for Microbiology held on <b>22-24</b> December, 2021” at GCUF, organized by Pakistan Society for Microbiology and GCUF, Pakistan.</li> </ol>	

**2019**

11. Session Chair in the technical session of the conference “3rd National conference on emerging trends in Bioinformatics and Biosciences, held at Hazara University , Mansehra on 3rd-5th October, 2019.
12. First prize in oral presentations in the the conference “3rd National conference on emerging trends in Bioinformatics and Biosciences, held at Hazara University , Mansehra on 3rd-5th October, 2019.
13. Sponsorship to attend the Five day workshop on “Bio Prism Wet Workshop of Biosafety” held on 13-17th March, 2019, arranged by Pakistan Biological Safety Association (NIH) and Safer Behaviors, USA
14. Sponsorship to attend the five day workshop on “ Responsible Conduct in the Life Sciences” held on 4-8th February, 2019, arranged by Pakistan Biological Safety Association (NIH) and Safer Behaviors, USA
15. Sponsorship to attend the Five day workshop on “Master Trainer Workshop” held on 14-18th January, 2019, arranged by Pakistan Biological Safety Association (NIH) and Safer Behaviors, USA

**2018**

16. Sponsorship from Clark Atlanta University to present and act as the Judge for poster evaluation of graduate students, in the “The 12th National Symposium on Prostate Cancer. September 16-19, 2018 at Clark Atlanta University, USA.
17. First Prize in oral presentation from Allama Iqbal Open University, Islamabad, and Determination of demographic features and gene expression of p53 gene in the breast cancer biopsies collected from different hospitals of Lahore, Pakistan, in the 2 nd National Graduate Conference. 2018 (28-29 August, 2018).
18. Sponsorship for Five day training on “Training of Trainers Workshop”, September 10 th -14 th , 2018, arranged by Pakistan Biological Safety Association (NIH) and Safer Behaviors, USA. 60 people out of 600 were selected in this workshop.  
Two prizes in volunteer Quiz competition out of 60 selected candidates from all over the Pakistan in “Training of Trainers Workshop”, September 10 th -14 th , 2018, arranged by Pakistan Biological Safety Association (NIH) and Safer Behaviors, USA
19. Training in miSeq (NGS instrument) at Rehman Medical Institute, Peshawar, from 24-28 January 2018 (paid).

**2017**

20. 3rd Prize in poster presentation on Genetic characterization of Colon Cancer Associated Transcript 1 (CCAT1) a LncRNA in different grades of breast cancer patients from Punjab, organized at Virtual University of Pakistan, 25-27 October, 2017.

	<ol style="list-style-type: none"> <li>21. <b>5<sup>th</sup> Prize</b> in Invention to Innovation Summit, 8<sup>th</sup> -9<sup>th</sup> March , 2017, on Phylogenetic analysis of Goat and Sheep Breeds in Pakistan (Poster presentation). <b>2016</b></li> <li>22. <b>First Prize</b> on poster presentation on a topic” Characterization of Pakistani goats and sheep breeds by cytochrome b gene and D-loop region of Mitochondrial DNA, in “International Livestock Genomics conference” organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore, It was held on <b>30<sup>th</sup>-31<sup>st</sup> May, 2016</b></li> <li>23. <b>Third Prize</b> on poster presentation on a topic” Mitochondrial Cytochrome b gene based Phylogeny on Lohi and Thalli sheep breeds of Pakistan in “International Livestock Genomics conference” organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore, held on <b>30<sup>th</sup>-31<sup>st</sup> May, 2016</b>. <b>2014</b></li> <li>24. <b>IRSIP scholarship (HEC)</b> during PhD to Department of Veterinary Medicine, University of Cambridge, UK. <b>2012</b></li> <li>25. <b>Indigenous Scholarship HEC</b> <b>2011</b></li> <li>26. <b>Have taken a shorthand training</b> on CFX96,384, Miniopticon Real time PCR machines, EZ gel documentation, western blotting by stain free technology, Criterion cell, Mini Protean tetra cell, Transblot turbo instrument, T100 Touch Thermocycler, TC10 Cell counter (9<sup>TH</sup> October-15<sup>th</sup> October, 2011, conducted by Bio Rad Laboratories at Sharjah).</li> <li>27. <b>Short training in cloning and gene expression</b> from NCVI NUST from 1<sup>st</sup> July- 31<sup>st</sup> August 2011 (Paid). <b>2010</b></li> <li>28. <b>Third prize</b> in flex competition at National Exhibition and Seminar, October 20-21, 2010, UVAS, LHR. <b>2009</b></li> <li>29. <b>Short training in Chemistry &amp; Molecular Biology</b>, Lab of Prof. Gottfried Koehler, MFPL, University of Vienna, Austria Subjects: Chemistry &amp; Molecular Biology. April-May 2009 (Paid).</li> <li>30. <b>Won a competitive Scholarship</b> awarded by International Semmering Vaccination Symposium Vienna, Austria-23-26 April, 2009.</li> </ol>
<b>Organizer/Trainer</b>	<p><b>2023</b></p> <p><b>Co-organizer of 5<sup>th</sup> International Conference</b> at Hazara University, organized by department of Bioinformatics, Hazara, held on 14-17<sup>th</sup> September 2023.</p> <p><b>Chief organizer</b> of one day Hands on training workshop on Real Time PCR Machine Singuway, 9600 Pro, held on 20<sup>th</sup> July, 2023, organized by department of Biotechnology, BUITEMS, Quetta.</p> <p><b>Co-organizer</b> of 2 days International Hybrid Workshop on</p>

Diagnostics of Mycotic diseases. Organized by Department of Biotechnology, BUIITEMS, and Quetta.

Organizer and trainer of Training of Trainers at Gwadar, organized by PBSA and University of Gwadar, Balochistan- conducted on 5-7 March, 2023.

## **2022**

**Co-organizer and Chair** in “Fourth International Conference On Emerging Trends In Bioinformatics & Biosciences” (ICETBB-2022) (September 15-17, 2022), Organized By: Department of Bioinformatics in collaboration with Faculty of Biological and Health Sciences, Hazara University Mansehra.

**Trainer in two day Workshop organized by PBSA at University of the Balochistan 17<sup>th</sup>-18<sup>th</sup> May, 2022.**

## **2021**

**Organizer and moderator in One day International webinar on “COVID-19 Pandemic: Global Challenges and role of Biotechnology”** held on 24<sup>th</sup> November, 2021 at Department of Biotechnology, BUIITEMS, Quetta.

## **2019**

**Two day “Quetta Literary Festival” organized by BUIITEMS, Quetta**

Three day workshop on “Biosafety Awareness workshop” organised and facilitated in collaboration with Pakistan Biological Safety Association-USA, arranged at BUIITEMS, Quetta, on 22<sup>nd</sup> -24<sup>th</sup> April, 2019.

## **2018**

One day workshop on Biosafety measures, organized by Pakistan Biological Safety Association-USA, at Institute of Public Health, Quetta, held on 16<sup>th</sup> October, 2018.

Two-day Conference and Expo, held in Expo Center, Lahore, Pakistan from 23 – 24 January 2018 at the ICPBS-2018, University of The Punjab.

## **2017**

**One-day Seminar “QX200 Real Time PCR”** 5<sup>th</sup> April, 2017, organized by Centre for Applied Molecular Biology, University of The Punjab, Lahore.

## **2016**

**Four-day Workshop on “Hands on Training Workshop on Clinical Diagnostics”** organized by Institute of Biochemistry and Biotechnology and Centre for Applied Molecular Biology, University of The Punjab, Lahore, held on 18-21, October, 2016, Chief organizer.

## **2014**

**Two-day workshop on “Hands on training on Real Time PCR”, 17<sup>th</sup>-18<sup>th</sup> September, 2014** conducted at quality operation Laboratory (QOL) University of Veterinary and Animal Sciences Lahore.



<b>Research grants/ Projects</b>	<ul style="list-style-type: none"> <li>▪ Determination of Molecular Biomarkers for Breast Cancer Patients in Pakistan for Early Diagnosis and Prognosis – awarded-2022-2025- By HEC under NRPU -Programme- <b>HEC/R&amp;D/RGA/NRPU/2021/19585-Approved-13860000Rs/.</b></li> <li>▪ Expression studies of Colon Cancer Associated Transcript-1 (CCAT-1) Long coding RNA in Colon Cancer Patients of Pakistan by Real Time PCR- 200000 Rs/- in ORIC- BUITEMS, Quetta</li> <li>▪ Startup research grant of 0.5 Million from Higher Education Commission, Pakistan and am working on breast cancer genetics.</li> </ul>
<b>Conferences/workshops attended</b>	<b>More than 100.</b>
<b>Courses taught</b>	<p><b>B.S-</b> Technical writing and presentation skills, Fundamentals of Biotechnology, Dairy And Food Biotechnology, Biosafety and Bioethics. Fundamentals of Ecology, Molecular Biology. Methods in Molecular Biology.</p> <p><b>M. Phil</b> – Immunology, Biosafety, Crime Scene Management, Forensic Process, Advances in Molecular Biology, Modern Biotechnology Principles and Applications.</p> <p><b>PhD-</b>Advances in Nucleic Acid Sequencing, Advances in Real Time PCR, Crime Scene Management, Functional Genomics.</p>
<b>Memberships</b>	<p>Member American Society of Microbiology, Pakistan Society of Microbiology, Organization for Women in Science for the Developing World and member of BS/MS/PhD synopsis defense, thesis defense and member of DTRC and other committees at Department of Biotechnology, BUITEMS, Quetta.</p> <p>Member Technical Committee PSF, Reviewer HEC projects, Subject Expert HEC for faculty development programs.</p> <p>Member gull's association, Lahore Chamber of Commerce, DPCC King Edward Medical University, Acted As a member M.Phil and PhD admission Committee (CAMB).</p>
<p><b>Dr. Haleema Sadia</b> is working as a Professor at Department of Biotechnology, BUITEMS, Quetta, Pakistan. She earned her PhD degree in Molecular Biology and Biotechnology from University of Veterinary and Animal Sciences (UVAS), Lahore in collaboration with Department of Veterinary Medicine, University of Cambridge, UK. She has strong background of chemical analysis, diagnostics, sequencing, gene expression and protein expression. Her fields of interests are Molecular Oncology, Genetic diseases and Therapeutics. She has worked in different labs and Universities of Pakistan. Dr. Sadia has presented her work in more than 55 national and international conferences and won several prizes in poster/oral competitions. She has also attended many and organized several workshops / training courses and national / international conferences. She is the member of different societies and reviewer of different journals. She is the member of technical committee Pakistan Science foundation and project reviewer of HEC (NRPU). She has 80+ publications in peer reviewed impact factor journals (I.F&gt;200) and 55 Proceedings. She is active member of different societies and supervising BS, MS and PhD students. She has won three research projects, startup research grant (HEC, 0.5M), ORIC BUITEMS (0.2M) and NRPU project (HEC, 13.86 M). She is working in collaboration with national and international organizations.</p>	