

## **CURRICULUM VITAE**

### **PERSONAL DETAILS**

Name Dr. Saba Riaz  
Father's Name: Riaz Ahmed  
Designation: Associate Professor  
Nationality Pakistani  
Address Institute of Microbiology and Molecular Genetics,  
University of the Punjab, Lahore, Pakistan  
Telephone Off: ++92-42-9231249  
ORCID: 0000-0002-6630-5689  
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### **EDUCATION & QUALIFICATION**

2022- 2023 Post-Doc Clinical Microbiology, University College London, UK  
2005-2012 Ph. D Institute of Microbiology and Molecular Genetics,  
University of the Punjab, Lahore, Pakistan and University of Nottingham UK  
2003-2005 M. Sc Department of Microbiology and Molecular Genetics,  
University of the Punjab, Lahore, Pakistan  
1998-2000 B. Sc Medical Lab. Technology, University of the Punjab, Lahore, Pakistan

### **CURRENT POSITION**

- She has been currently serving as Associate Professor in Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan, since 25<sup>th</sup> August 2020.

### **TEACHING EXPERIENCE**

<b><u>Post</u></b>	<b><u>Institution</u></b>	<b><u>Period Served</u></b>
Associate Professor	Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan	25 August 2022 to date
Assistant Professor	Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan	08 March 2013 -24 August 2020
Lecturer	Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan	19 Sep 2005 -7 March 2013
Medical Technologist/Demonstrator	Shaukat Khanum Cancer Hospital, Lahore Pakistan	05 Sep 2001- 19 July 2004
Cytopathology Internship	Sheikh Zayed Hospital, Lahore Pakistan	2001 (5 month)

**RESEARCH INTERESTS:** Medical Microbiology and Infectious Diseases

**Postdoc Title:** "Molecular and evolutionary analysis of Carbapenem-resistant clinical bacteria isolated from Pakistan". University College London, UK

### **THESIS TITLE (Ph. D)**

Extended Spectrum Beta-lactamases Phenotypic and Genotypic Study

### **THESIS TITLE (MSc):**

Preliminary Studies on Polymorphism of Candidate Genes of RA System

ORCID: [org/0000-0002-6630-5689](https://orcid.org/0000-0002-6630-5689)

## **RESEARCH SUPERVISION:**

### **HEC RECOMMENDED Ph. D RESEARCH SUPERVISOR**

Higher Education Commission recommended Ph. D research supervisor in the field of Life Sciences.

### **RESEARCH THESIS SUPERVISED**

Status	B.S/M. Sc	M.S/M. Phil	Ph. D	Total
Completed	29	27	03	57
In-progress	02	02	05	08

#### **1A. PhD students Completed Ph. D thesis 2+1(submitted)**

S. No	Student's Name	Thesis title	Year
1.	Ms. Samyyia Abrar	Molecular Analysis of m Lactam Genes from Clinical Isolates	2015-2020
2.	Ms. Nasira Munawar	Biochemical and Hematological Anomalies in Females of Reproductive Age	2014-2021
3.	Mr. Hayat Haider	Genetic Analysis of Multi-drug Resistant Gram-Negative Bacterial Pathogens Implicated in Burn Associated Infections	2016-2022

#### **1B. PhD students currently under supervision: Total Number: 05**

S. No	Student's Name	Thesis title	Year
1.	Ms. Noor-ul -Ain	Genetic Profiling of Extensively drug-resistant carbapenemase-producing clinical isolates	2017-22
2.	Ms. Shahida Hussain	Validation of Microbiological and Molecular tools in the diagnosis of Extra-Pulmonary tuberculosis	2017-22
3.	Mr. Maqsood Arif	Molecular characterization of clinical <i>Acinetobacter species</i> collected from Lahore, Pakistan	2017-22
4.	Mr. Asad Ali	Molecular characterization of methicillin-resistant staphylococcus aureus from healthcare settings in Lahore, Pakistan	2018-2023
5.	Ms Noor Saba	Synopsis write up	2022-2026

2; MS/M. Phil. Produced: Total Number: 27

S. No	Student's Name	Thesis title	Year
1.	Ms, Ayesha Wajeaha	Distribution Of CTXM-01 Extended-Spectrum Beta-Lactamase Producing, Some Members Of <i>Enterobacteriaceae</i>	2014
2.	Ms. Samyyia Abrar	Phenotypic and Molecular characterization of CTX-M encoding Beta-lactamases from Clinical <i>Enterobacteriaceae</i>	2015
3.	Ms. Huma Liaqat	Multiplex PCR Detection System for TEM, OXA and SHV $\beta$ -Lactamases of <i>Escherichia coli</i> and <i>Klebsiella spp</i>	2016
4.	Ms. Noor Ul Ain	Molecular Analysis of Metallo- Beta-Lactamase producing Multidrug-Resistant Clinical Isolates	2017

		from a tertiary care hospital	
5.	Ms. Sana Baber	Association between CYP 17 and CYP 19 gene polymorphisms in Pakistani women with Polycystic Ovary Syndrome (Co-Supervisor)	2018
6.	Ms. Haleema Jmail	Herb drug-enzyme mediated interaction associated with colebrooke appostifolia and isoniazid in rats	07-MCOL-M16
7.	Mr. Hasnain Sajjad	Hematological Indices in the Diagnosis of Iron Deficiency Anemia	2017 - 2018
8.	Ms. Kiran Nazir	Polymorphism of CYP17 and ACE genes in patients with polycystic ovarian syndrome.	2018-2019
9.	Ms. Bakhtawar Aleem	Changing trends in antimicrobial susceptibility pattern of bacterial isolates: A retrospective study in a diagnostic Centre of Lahore	2018-2019
10	Ms. Umme Kalsoom	Detection of ICA –D gene and biofilm formation in different clones of Staphylococcus aureus (Co-Supervisor)	2018-2019
11	Ms. Rabia Mazhar	Microbial Evaluation of Bacterial Contamination in Intensive Care Units at a Tertiary Care Hospital, Lahore (Co-Supervisor)	2017-2019
12	MS. Rubab Malik	Molecular characterization of <i>bla<sub>OXA</sub></i> , <i>bla<sub>TEM</sub></i> and <i>bla<sub>NDM</sub></i> in clinical <i>Acinetobacter</i> species (Co-Supervisor)	2018-2020 (Spring)
13	Ms. Fizza Siddique	Molecular characterization of <i>bla<sub>OXA</sub></i> , <i>bla<sub>TEM</sub></i> , and <i>bla<sub>NDM</sub></i> in clinical <i>Klebsiella</i> species	2018-2020 (Spring)
14	Ms. Amina Tahir	Synthesis, characterization and antibacterial activities of silver nanoparticles using plant extracts (Co-Supervisor)	2018-2020 (Spring)
15	Ms. Tayyaba Khalid	The emergence of the NDM-1 and VIM genes in clinical <i>Acinetobacter</i> species from Lahore, Pakistan	2018-2020
16	Mr. Muhammad Hassan	Molecular characterization and In vitro susceptibility of citrus fruits against <i>Staphylococcus</i> strains isolated from food handlers	2019-2020
17	Mr. Muhammad Illyas	Evaluation of GeneXpert MTB/RIF and IS6110 PCR for Diagnosis of Mycobacterium tuberculosis in Clinical Samples from Lahore	2019-2020
18	Ms. Azka	Association of Ica A and D genes with Biofilm formation in <i>Staphylococcus</i> spp.	2019-2020
19	Ms. Nida Saeed	Correlation of adhesion gene A and D with Biofilm formation in <i>Staphylococcus</i> spp.	2019-2020
20	Mr. Muhammad Aamir Sumbal	Detection of RpoB Gene Mutation Associated with Rifampicin Resistance in MTB Patients Using Gene Xpert	2019-2020
21	Ms. Noor Aqsa	Molecular typing and virulence analysis of <i>Acinetobacter</i> species isolated from clinical specimens	2020-2021
22	Ms. Huda Barakullah	Genotypic analysis of <i>Acinetobacter</i> species isolated from wound infections	2020-2021
23	Ms. Shazmeen Sarfraz	ACE I/D polymorphism in patients with vitamin D deficiency from Lahore Pakistan	2020-2021

24	Ms. Hafiza Iqra Abdul Rasheef	Molecular detection of Staphylococcal enterotoxins and antiMRSA potential of some fruit juices	2020-2021
25	Mr. Muhammad Aamir Sumbal	Detection of RpoB Gene Mutation Associated with Rifampicin Resistance in MTB Patients Using Gene Xpert	2020-2021
26	Ms. Hafiza Rabia Muneer	Molecular and Antibiotic Resistance Profile of bacteria isolated from neurosurgical patients in Pakistan	2021-2022
27	Ms. Samman Jabbar	Staphylococcal Cassette Chromosome mec (SCCmec) Analysis of Methicillin-Resistant Staphylococcus aureus isolated from community and hospital settings in Lahore, Pakistan	2021-2022

### 3. MS/M. Phil Students currently under supervision: Total No. 02

S.No	Student's Name	Thesis title	Year
1.	Sara Minahil	In-progress	2022-2023

### 3: BS. Students Produced: Total Number: 17

S. No	Student's Name	Thesis title	Year
1.	Mr. Adeel Ahmed	Antibacterial Activity of Soaps against Daily Encountered Bacteria	2007-08
2.	Ms. Zaeema Khan	Study of methicillin-resistant staphylococcus aureus in a tertiary care hospital Lahore	2008-09
3.	Ms. Saima Nawaz	Study of Urinary tract infection causing lactose fermenting bacteria	2009-10
4.	Ms. Wajeeha Naz	Antibacterial activity of natural products against medically important gram-positive bacteria	2011-12
5.	Ms. Samyia Abrar	Impact of putative bacteriocins on multidrug resistant clinical isolates.	2012-13
6.	Ms. Sommya Tariq	Comparison of Different Diagnostic Techniques in Tuberculosis Suspect Cases	2013-14
7.	Ms. Sabeen Akhtar,	Study Of Multi Drug-Resistant Mycobacterium Tuberculosis	2013-2014
8.	Ms. Noor-ul Ain	Study of cefotaxime and ceftazidime resistant strains isolated from clinical specimens	2014-2015
9.	Mr. Hasnain Javed	Role of TMPRSS6 rs855791 Polymorphism in Patients of Iron Deficiency Anemia	2015-2016
10.	Ms. Anum Iftikhar	Study of Carbapenemases: A threat of the Decade	2015-2016
11.	Ms. Mariya Farooq	TMPRSS6 rs855791 Polymorphism and Associated Factors in Female Patients of Iron Deficiency Anemia -	2016-2017
12	Ms. Kiran Ijaz	Molecular detection of OXA gene in beta-lactamase-producing lactose fermenting enteric organisms	2017-2018
13	Ms. Tayyaba Khalid	Molecular detection of OXA gene in beta-lactamase producing non-lactose fermenting enteric organisms	2017-2018
14	Ms. Namrah Imran	Distribution of bla <sub>NDM</sub> in Metallo Beta-lactamases producing non-lactose fermenting clinical isolates	2018-2019
15	Mr. Abdul Hannan	Distribution of bla <sub>NDM</sub> in Metallo Beta-	2018-2019

		lactamases producing lactose fermenting clinical isolates (co-supervisor)	
16	Ms. Maira Nasir	Phenotypic and Molecular Characterization of Clinical <i>Klebsiella pneumoniae</i> from Lahore	2019-2020
17	Ms. Rabia Muneer	Phenotypic and Molecular Characterization of Clinical <i>Acinetobacter</i> spp from Lahore	2019-2020

**4: BS Students Currently under supervision Total Number 02**

S.No	Student's Name	Thesis title	Year
1.	Noor Tareen	In-progress	2022-2023
2.	Marvah Qiass	In-progress	2022-2023

**5: M Sc. Students Produced: Total Number: 12**

S.No	Student's Name	Thesis Title	Year
1.	Ms. Jaweria Khawer	Study of Septicemia causing lactose fermenting bacteria	2009-2010
2.	Ms. Afsha Mubasir	Antibiotic Susceptibility profile of <i>E. coli</i> from clinical and environmental isolates	2010-2011
3.	Ms. Sadaf Ilyas	Antibiotic Susceptibility profile of <i>Pseudomonas</i> from clinical and environmental isolates	2010-2011
4.	Ms. Saliha Hafiz	Prevalence, antibiotics profiling and effect of <i>Allium sativum</i> on methicillin-resistant <i>Staphylococcus aureus</i>	2012-2013
5.	Ms. Fadia Waheed	Recent Trends of Antibiotic Susceptibility in Beta-lactamase Producing Strains	2013-2014
6.	Ms. Kiran Nazeer	Study of cefotaxime and ceftazidime resistant bacterial Uropathogens	2014-2015
7.	Ms. Syeda Sadia	Distribution of Carbapenem-Resistant Gram-Negative Bacilli in a Tertiary Care Hospital Lahore	2015-2016
8.	Ms. Bakhtawar Aleem	Emergence of Carbapenem-Resistant OXA producing strains in Tertiary Care Hospital Lahore	2016-2017
9.	Ms Maham Akran	Molecular detection of mec A gene in methicillin-resistant <i>Staphylococcus aureus</i> isolated from clinical specimens	2017-2018
10	Ms. Rimsha Iqbal	Association of ACE I/D polymorphism with Headache in hypertensive female patients from Lahore	2018-2019
11	Ms. Muneeba Afzal	A study on bacterial infections associated with the central nervous system in the Pakistani population	2019-2020
12	Ms. Sara Minhail	Antimicrobial Drug Resistance Trends of Bacteremia Isolates in a Diagnostic Centre Lahore	2020-2021

**Internship/Research Supervised from other departments and Universities**

1. Mr. Muhammad Jamil Qamar (M Phil), University of Engineering and Technology Lahore
2. Ms. Shaida Hussain (M. Phil), Jinnah Hospital Lahore
3. Ms. Sumaira Yousaf (M Sc), Gomal University D.I Kahn
4. Mr. Shujaat Ali (M Phil), Karakoram International University, Gilgit
5. Ms. Hina Kanwal (DPHARM), Gulab Devi Hospital
6. Ms Eurica Joyce BS, Biotechnology (2014-bt-017), University of veterinary and animal sciences

7. Ms. Nimra Safdar BS, Biotechnology (2014-bt-017), University of veterinary and animal sciences
8. Mr. Suboor Department of Botany, University of the Punjab
9. Ms. Arooj Khalid BS, from Kinnard College University (2017-2018)
10. Ms. Wasqa Tariq BS, from Kinnard College University (2017-2018)
11. Ms. Sana Batoo BS (The Superior College Lahore), 2019-2020
12. Ms. Attia Hakim Ali BS (The Superior College Lahore), 2019-2020
13. Mr. Usaman Younas BS (The Superior College Lahore), 2019-2020
14. Mr. Hamayon Javed BS (The Superior College Lahore), 2019-2020

### Collaborating Institutions

- Gulab Devi Chest Hospital Lahore.
- Citilab and Research Centre Lahore.
- Allama Iqbal Medical College, Jinnah Hospital Lahore
- Kinnard College University for Women, Lahore
- Lahore College University for Women, Lahore
- University of the Lahore
- Lady Willington Hospital Lahore
- Universiti Sultan Zainal Abidin Malaysia

### Member of committee

- Member Board of the studies in MMG, PU (14-05-2020 to 14-05-2023)
- Institutional symposium/workshop/seminar (2017-to date)
- Institutional Annual report committee (Focal Person) (2017-to date)
- Institutional Member, Admission Committee MMG, PU (2005-to date)
- Member Biosafety and Research Ethics (2019-to date)
- Institutional Member of extracurricular activity committee MMG, PU (2005-to date)
- Institutional Member Stocktaking of store (2017-to date)

### PUBLICATIONS (Having Impact Factor)

S.#	Name of Author	Complete Name of Journal and Address	Title of the Publication	Vol. No. & Page No.	Year Published	Impact Factor
31	Haider, HM., McHugh, T., Roulston, K., Arruda, LB., Sadouki, Z., Riaz, S	Annals of Clinical Microbiology and Antimicrobials	Detection of carbapenemases <i>bla</i> OXA48- <i>bla</i> KPC- <i>bla</i> NDM- <i>bla</i> VI M and extended-spectrum- $\beta$ -lactamase <i>bla</i> OXA1- <i>bla</i> SHV- <i>bla</i> TEM genes in Gram-negative bacterial isolates from ICU burns patients	21:18 (1-8) <a href="https://doi.org/10.1186/s12941-022-00510-w">https://doi.org/10.1186/s12941-022-00510-w</a>	2022	6.781
30.	Wen, S., Ezure Y., Rolley, L., Spurling, G., Lau, C., Riaz, S., Paterson D., Irwin, A.	Plos Medicine	Gram-negative neonatal sepsis in low- and lower-middle-income countries and WHO empirical antibiotic recommendations: A systematic review and meta-analysis	<a href="https://doi.org/10.1371/journal.pmed.1003787">https://doi.org/10.1371/journal.pmed.1003787</a> (2021 Sep 28;18(9):e1003787. doi: 10.1371/journal.pmed.1003787)	2021	11.613
29.	Nazeer K, Lone NM, Sadique S, Sultan S, Eupash AZ, Riaz S.	Saudi Journal of Biological Sciences	Association of Angiotensin-Converting Enzyme gene polymorphism in Pakistani women with the atypical steroidogenesis in polycystic ovarian syndrome: a case-control study	28(6):3483-3489; DOI: <a href="https://doi.org/10.1016/j.sjbs.2021.03.014">10.1016/j.sjbs.2021.03.014</a> (March)	2021	4.052

28.	Lone MN, Shah HS, Farooq M, Arif M, Younis S, Riaz S.	Saudi Journal of Biological Sciences	Role of TMPRSS6 rs855791 (T>C) polymorphism in reproductive age women with Iron deficiency anaemia from Lahore, Pakistan	28 (2021) 748–753749 <a href="https://doi.org/10.1016/j.sjbs.2020.1104">https://doi.org/10.1016/j.sjbs.2020.1104</a> (Jan)	2021	4.052
27.	Haider MH., Ain <sup>1N</sup> , Abra, S, Riaz S.	Journal of Infection in Developing Countries	<i>bla</i> <sub>OXA</sub> -, <i>bla</i> <sub>SHV</sub> -, and <i>bla</i> <sub>TEM</sub> -type extended-spectrum β-lactamase genes in multidrug-resistant Gram-negative isolates from burn patients in Lahore, Pakistan	31;14(12):1410-1417. doi: 10.3855/jidc.12822 (Dec)	2020	0.968
26	Lone, NM., Babar, S., Sultan,S., Malik,S., Nazeer,K, Riaz, S	Gynaecological Endocrinology	Association of the CYP17 and CYP19 gene polymorphisms in women with polycystic ovary syndrome from Punjab, Pakistan	Gynecol Endocrinol. 2021 May;37(5):456-461. doi: 10.1080/09513590.2020.1822803. Epub 2020 Sep 22	2021	2.26
25.	Ain, N., Abrar, S., Rehan, AK., Hannan A., Imran, N., Riaz, S	Journal of Global Antibiotic Resistance	Systematic surveillance and meta-analysis on the prevalence of Metallo-β-Lactamase producers among carbapenem-resistant clinical isolates in Pakistan	23 (2020) 55–63 <a href="https://doi.org/10.1016/j.jgar.2020.07.024">https://doi.org/10.1016/j.jgar.2020.07.024</a> (August)	2020	4.035
24.	Saeed M., Hussain S., Riaz S et al	Open Life Sciences	GeneXpert Technology for the diagnosis of HIV associated tuberculosis: Is scale-up worth it?	15: 458–465 <a href="https://doi.org/10.1515/biol-2020-0052">https://doi.org/10.1515/biol-2020-0052</a> (June)	2020	0.938
23	Lone, N M., Riaz, S., Eusaph, AZ et al Martineau, AR.	Scientific Reports	Genotype-independent association between vitamin D deficiency and polycystic ovarian syndrome in Lahore, Pakistan	10:2290 <a href="https://doi.org/10.1038/s41598-020-59228-4">https://doi.org/10.1038/s41598-020-59228-4</a> (Feb)	2020	4.379
22	Abrar , S., Ain , N., Liaqat,H., Hussain , S., Rasheed , F., <b>Riaz, S</b>	Antimicrobial Resistance & Infection Control	Distribution of <i>bla</i> <sub>CTX-M</sub> , <i>bla</i> <sub>TEM</sub> , <i>bla</i> <sub>SHV</sub> and <i>bla</i> <sub>OXA</sub> genes in Extended-spectrum-β-lactamase-producing Clinical isolates: A three-year multi-centre study from Lahore, Pakistan	8:80	2019	3.594
21	Saeed M, Rasheed, F, Riaz, S	Pakistan Journal of Pharmaceutical sciences	Acinetobacter Spp: Resistance and therapeutic decisions at the turn of the new millennium.	018 Nov;31(6 (Supplementary) 2749-2754.	2018	0.596
19	Abrar, S., Hussain, S., <b>Riaz, S</b>	Antimicrobial Resistance & Infection Control	Prevalence of extended-spectrum-β-lactamase-producing Enterobacteriaceae: First systematic meta-analysis report from Pakistan	7(26): 1-11	2018	3.594
18	Ain, N., Iftikhar A., <b>Riaz, S</b>	Antimicrobial Resistance & Infection Control	High frequency and molecular epidemiology of Metallo-β-Lactamase-producing gram-negative bacilli in the tertiary care hospital Lahore, Pakistan	2018; 7: 128	2018	3.594
17	Fatima, A Sajid, I., <b>Riaz, S</b>	Tropical Journal of Pharmaceutical Research	Anti-MRSA Potential and Metabolic Fingerprinting of the Actinobacteria from an Extreme Environment	17 (10): 2037-2046	2018	0.504
16	Saeed M, Rasheed, F, <b>Riaz, S</b> and Ahmad. A.,	Journal of the College of Physicians and Surgeons Pakistan	<i>Pseudomonas aeruginosa</i> : Evaluation of Pathogen Burden and Drug-Resistance Trends in a Tertiary Care Hospital	28 (4): 279-283	2018	0.439
15	Saeed M, Rasheed, F, Riaz, S Ahmad, M	Journal of the College of Physicians and Surgeons Pakistan	False Negativity of Ziehl-Neelsen Smear Microscopy: Is the Scale-up the Worth It in Developing Countries?	28 (3); 201-205	2018	0.439
14	Saeed, M, Ahmad, M a Iram, M Riaz, S.	<i>Saudi Medical Journal</i>	GeneXpert technology. A breakthrough for the diagnosis of tuberculous pericarditis and	Vol. 38 (7): 699-705	2017	1.195

			pleuritis in less than 2 hours			
13	Abrar, S., Vajeeha A., Ain, N and Riaz, S.	Microbial Pathogenesis	Distribution of CTX-M group I and group III $\beta$ -lactamases produced by <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> in Lahore, Pakistan	103: 8–12	2017	2.914
12	Riaz, S., Bashir, M.F., Haider, M.S., Rashid, N.	Brazilian Journal of Microbiology	Association of Genotypes with Viral Load and Biochemical Markers in HCV Infected Sindhi Patients.	(46):980-986	2016	2.428
11	Riaz, S and Bashir, M.F 2015.	Tropical Journal of Pharmaceutical Research	Phenotypic and Molecular Characterization of Plasmid Encoded Extended Spectrum Beta-lactamases produced by <i>Escherichia coli</i> and <i>Klebsiella</i> spp from Lahore, Pakistan	14 (9): 1597-1604.	2015	0.504
10	Bashir, M.F., Haider, M.S., Rashid, N. Riaz, S. Males	Tropical Journal of Pharmaceutical Research	Association of Biochemical Markers, Hepatitis C Virus and Diabetes Mellitus in Pakistani	12(5): 845-850	2013	0.504
9	Bashir, M.F., Haider, M.S., Rashid, N. Riaz, S.	Tropical Journal of Pharmaceutical Research	Core gene expression and association of genotypes with viral load in HCV infected patients of Punjab Pakistan.	12(3): 335-341	2013	0.504
8	Bashir, M.F., Haider, M.S., Rashid, N. Riaz, S	African Journal of Microbiology Research	Distribution of Hepatitis C virus (HCV) genotypes in different remote cities of Pakistan	6(22): 4747-475	2012	0.539
7	Riaz, S., Faisal, M. and Hasnain, S	African Journal of Microbiology Research	Prevalence and comparison of Beta-lactamase producing <i>E.coli</i> and <i>Klebsiella</i> spp from clinical and environmental source in Lahore, Pakistan	6(2): 465-470	2012	0.539
6	Riaz, S., Faisal, M., Hasnain, S.	African Journal of Biotechnology	Antibiotic Susceptibility Pattern and MAR calculation of ESBLs Producing <i>E.coli</i> and <i>Klebsiella</i> species in Lahore, Pakistan	10: 6325-6331	2011	0.573
5	Riaz, S., Faisal, M., Hasnain, S,	Tropical Journal of Pharmaceutical Research.	Antibacterial and cytotoxic effect of Acacia nilotic on ESBL isolates	10: 785-791.	2011	0.820
4	Riaz, S., Nawaz, S.K., Hasnain, S	Brazilian Journal of Microbiology	Bacteriocins produced by <i>L. fermentum</i> and <i>L. acidophilus</i> can inhibit cephalosporin resistant <i>E. coli</i>	41: 643-648	2010	2.428
3	Riaz, S., Ahmad, A. and Hasnain, S	African Journal of Biotechnology	Antibacterial Activity of Soaps against Daily Encountered Bacteria	8: 1431-1436	2009	0.56
2	Nawaz, S.K., Riaz, S., Riaz, S. Hasnain, S.	African Journal of Biotechnology	Screening for anti-methicillin resistant <i>Staphylococcus aureus</i> (MRSA) bacteriocin producing bacteria	8: 365-368.	2009	0.56
1	Bashir, M.F., Qazi, J.I., Ahmad, N. and Riaz, S	Tropical Journal of Pharmaceutical Research	Diversity of Urinary Tract Pathogen and Drug-Resistant Isolates of <i>Escherichia coli</i> in different age and gender Groups of Pakistani	7: 1025-1031	2008	0.504



**List of Publications in Journals\* Having NO IF (Impact Factor)**

S.#	Name of Author	Name of Journal	Categorized by HEC	Vol. No.	Title of the Publication	Year Published
14.	Ifrac Amjad <sup>1*</sup> , Saba Riaz	Archives of Microbiology & Immunology	International	6 (1): 51-64 DOI: 10.26502/ ami.9365007 6	Drug Resistance in Mycobacterium tuberculosis and its Impact on Modern Medicine	Jan, 2022
13	Fatima A, Sajid I, Riaz S, Saeed M.	Professional Medical Journal	Y	26(6):993-999	Detection of methicillin-resistant staphylococcus aureus using mec a, ribotyping and antibiogram profile of Pakistani clinical isolates.	2019
12	Niazi, F., Awais, M., Nazeer, K., Riaz S*	European Journal of Pharmaceutical and Medical Research	No (International)	6(4), 36-40	Analysis of different types of injuries and fractures during accidents in the orthopedic unit of tertiary care hospital, Lahore	2019
11	Aneela S, Saeed M,5, Hannan A Riaz S	Journal of Islamabad Medical and Dental College	Z	8(1):23-28	Distribution of Extended-spectrum $\beta$ -lactamase and Metallo- $\beta$ -lactamase-producing <i>Pseudomonas aeruginosa</i> in Tertiary Care Hospitals of Lahore, Pakistan	2019
10	Mehdi, N Nadia Riaz, S Izhar, M	Journal of Islamabad Medical and Dental College	Z	6 (4): 249-254	Metallo- $\beta$ -Lactamase Detection Comparative Evaluation of Double-Disk Synergy versus Combined Disk Tests	2018
9	Ume-Kaloom, Shahbaz Mujtaba Ghauri, Samyia Abrar, Saba Riaz, Anjum Nasim Sabri.	Annals of PIMS	Z	1815-2287	Evaluation of <i>bla</i> SHV, <i>bla</i> TEM and <i>bla</i> OXA encoding Clinical Isolates from Chronic Tonsillitis using Phenotypic and Molecular Technique: First report from Pakistan	2018
8	Ain, N., Riaz, S., Abrar, S., Ahmad, M., Khan, Z., Hafiz S., Hussain, S., Haider, MH	Annals of PIMS	Z	1815-2287. 186-190	Horizontal Gene Transfer and Antibacterial Effect of <i>Allium sativum</i> (GARLIC) on Methicillin-Resistant <i>Staphylococcus aureus</i>	2017
7	Abrar, S., Ain, N, Fatima F Sajjad H., Hussain S., Saeed M., and Riaz, S	International Journal of Current Medical and Pharmaceutical Research	NA	3: 2068-2072	Antibacterial activity of lactobacilli against extended spectrum $\beta$ -lactamase producing isolates from post-operative urinary tract infections in cardiac patients	2017
6	Saba, S., Javed, T., Riaz, S. Afzal, S., Hussain, S., Riaz S., Uzair, M., Chaudhary, BA.,	International Journal of Pharmacy and Pharmaceutical Research.	NA	7 (2): 292-301.	Phytochemical and Biological Evaluation of <i>Ocimum basilicum</i> Roots	2016
5	Ain, N. Abrar, S. Kiran Nazeer and Riaz, S.	European Journal of Pharmaceutical and Medical Research	NA	3(9), 92-97.	Extended spectrum beta-lactamases and metallo-beta-lactamases: An update from Lahore, Pakistan.	2016
4	Abrar, S. and Riaz, S	Medical Forum	Y	27 (2): 28-32.	Impact of Putative Bacteriocins against Multidrug Resistant Clinical Isolates.	2016
3	Tariq, S., Akhtar, S., Qyuum, A., Riaz, S	Medical Forum	Y	26 (12): 55-58	Comparison of Conventional TB Diagnostic Techniques with PCR Is6110 in Tertiary Care Chest Hospital Lahore Pakistan	2015
2	Khan, Z., Riaz, S. and Hasnain, S	Journal of Scientific Research	NA	2: 37-44	The continuing threat of methicillin-resistant <i>Staphylococcus aureus</i> - Past Present Future	2010
1	Riaz, S., Alvi, F.M. and Hasnain, S.	Professional Medical Journal	X	15: 260-269	Early Diagnosis of Hypertension with Molecular Genetic Techniques	2008

**Books Authored by Dr. Saba Riaz Total No. 03**

1. Riaz, S. Abrar, N.U Ain, A.A.Baig. Overview of Extended Spectrum B-lactamases In Pakistan. CreateSpace, USA, ISBN-13: 978-1539359302, 2016.
2. Riaz, S., Abrar, S., Ain, N., Rasheed F, Haider H, Carbapenemases: A Threat to the Globe. 2017. Amazon. ISBN-13: 978-1981460021

3. Iqbal, S., Baig., AA., Riaz, S., Hassan, M., Sohail, M., Simbak, N. Sero-epidemiology of Measles in children of Pakistan: Study conducted in District Pakpattan April 17, 2020. CreateSpace, USA B0875Z4YBF.
4. Mustafa, F, et al and Riaz S. Polymerase Chain Reaction: Types and Applications. April 22, 2021. CreateSpace, USA. ISBN-13: 979-8721812033.

**RESEARCH PROJECTS COMPLETED Total No. 16+1**

S. No	Title	Amount	Funding Agency	Year
1.	Evaluation of detection methods for extended-spectrum beta-lactamase	Rs. 100,000.	University of the Punjab, Lahore	2007-2008
2.	Antibiotic resistance and molecular diagnosis of beta-lactamase-producing <i>E.coli</i>	Rs. 100,000.	University of the Punjab, Lahore	2008-2009
3.	Detection of plasmid-mediated TEM $\beta$ -lactamase gene in clinical isolates by using PCR	Rs. 125,000.	University of the Punjab, Lahore	2009-2010
4.	Study of septicemia causing lactose fermenting bacteria	Rs. 125,000.	University of the Punjab, Lahore	2010 -2011
5.	Antibiotic susceptibility profile among E. coli from clinical and environmental isolates	Rs. 125,000.	University of the Punjab, Lahore	2011 -2012
6.	Antibacterial activity of natural products against medically important gram positive bacteria.	Rs. 125,000.	University of the Punjab, Lahore	2012 -2013
7.	Development of multiplex assay for the detection of genes encoding $\beta$ -lactamases in <i>Enterobacteriaceae</i> .	Rs. 150,000.	University of the Punjab, Lahore	2013-2014
8.	HCV genotype distribution with the association of viral load and biochemical markers in different provinces of Pakistan	Rs. 150,000.	University of the Punjab, Lahore	2014- 2015
9.	Phenotypic and Molecular Characterization of CTX-M encoding beta-lactamase from clinical <i>Enterobacteriaceae</i> .	Rs. 500,000.	Higher Education Commission, Pakistan	2016-2017
10	Iron deficiency anaemia and its associated factors in Pakistani adults.	Rs.1,50,000.,	University of the Punjab, Lahore.	2015-2016
11	A pilot study on iron deficiency anaemia, role of and its associated factors in pakistani females	Approved	PHRC (but not granted due to funding issue)	2016
12	Development of rapid diagnostic technique for infections caused by multidrug resistant bacteria.	Rs.1,50,000.	University of the Punjab, Lahore.	2017-2018
13	Molecular characterization of carbapenem-resistant superbugs from a tertiary care hospital of Lahore, Pakistan	Rs.2,00,000.	University of the Punjab, Lahore.	2019-2020
14	Phenotypic And Molecular Characterization Of Clinical <i>Acinetobacter</i> Species Collected From Lahore, Pakistan	Rs.2,00,000.	University of the Punjab, Lahore.	2020-2021
15	Development of Low-cost rapid point of care tests for multidrug resistant bacteria tailored for Pakistani clinical isolates	Rs. 4405500/-	NRPU -HEC (R# 15493)	2022-2025 (In Progress)
16	Molecular detection of class A and D $\beta$ -lactamase among Gram-Negative clinical isolates from burn patients.	Rs.425,000	University of the Punjab, Lahore	2021-2022
17	Winner of Qiagen Life Sciences research grant 2021	Reagents 15% discount	Qiagen, 2021	2021-2021

## RESEARCH PROJECTS (IN PROGRESS)

1. HEC NRPU (1)
2. University of the Punjab (1)

## Societies Joined

1. Medical Microbiology and Infectious Diseases Society of Pakistan
2. International Society of Infectious Diseases
3. Medical Research Society of Pakistan
4. American Society of Microbiology (54482475)
5. Pakistan Biological Safety Association

## Editorial Board Member

1. Journal of Infection and Molecular Biology
2. Annals of Clinical Microbiology and Antimicrobials

## Reviewer for Journal

1. Isra Medical Journal.... Pakistan
2. Punjab University Journal of Zoology.... Pakistan
3. Antimicrobial Resistance and Infection Control...Springer
4. International Research Journal of Microbiology.....Hindawi Publishing Co

## Awards/Achievements

Award/Achievement	National/ International	Description
Achievement	National	Punjab Higher Education Commission of Pakistan Awarded "International Post Doc Scholarship (IPDS)" for post doc research in the University College London, UK.
Achievement	National	Higher Education Commission of Pakistan Awarded "International Research Support Initiative Programme (IRSIP)" for research in the University of Nottingham, UK.
Achievement	National	2nd Position in M. Sc, Microbiology and Molecular Genetics, University of the Punjab
Achievement	National	3rd Position in B. Sc Medical Lab Technology Siekh Zayed Hospital University of the Punjab.
Achievement	National	I have worked for the achievement of ISO 9002 certification & CAP (College of American • Pathologists) Quality Assurance survey program
Achievement	National	I have also worked as an active member of the hospital infection control committee at SKMT
Achievement	National	Medical Microbiology and Infectious diseases society of Pakistan (MMIDSP) awarded a grant for organizing a symposium to Dr. Saba Riaz, Emerging Issues of multidrug Resistance: A threat to the globe, 2nd October 2014.
Achievement	National	Higher Education Commission awarded a grant for organizing a symposium to Dr. Saba Riaz, Emerging Issues of multidrug Resistance: A threat to the globe, 2nd October 2014.
Achievement	National	1st prize in 26th annual international conference on the family medicine Familycon 2016 organized By the society of Familycon 11-14 February 2016
Achievement	National	27 <sup>th</sup> Annual International conference on family medicine Participated and won third poster prize in Familycon, 27-29 January 2017
Achievement	National	Microbial Art Competition 14-15 February 2017. Student won first prize
Achievement	National	Won 2nd Best poster award in 19th Annual PSH conference and international Hematology symposium Heamcon,17-18 February 2017

## **Formal Training**

<b>Name</b>	<b>Place</b>	<b>Type</b>	<b>Starting Date</b>	<b>Ending Date</b>
3rd Faculty training program by the Higher Education Commission	Faculty Training	Microbiology and Molecular Genetics, University of the Punjab	17/11/2014	21/11/2014
Critical aspects of Sanger DNA sequencing organized by 1stBase	Sanger DNA sequencing	Malaysia	01/01/1970	31/12/2014
Indigenous on-campus Training Program. Organized By HEC and PU, December 1-5, 14	Faculty Training	University of the Punjab	01/12/2014	05/12/2014
4th In-service Faculty Training	Faculty Training	University of the Punjab	21/11/2016	25/11/2016
Workshop on proposal preparation	proposal preparation under International Health Links Funding Scheme	Crown Plaza organized by the British Council	29/10/2009	29/10/2009
Bio-safety training	Training for Young Researchers	University of the Punjab	28/11/2018	28/11/2018
Bio-safety training	Need for Bio-security	University of the Punjab	10/04/2019	10/04/2019
Training Workshop	Grant writing course	Nottingham University, UK	18/03/2010	18/03/2010
Fire Extinguishing Training	Fire Extinguishing	University of the Punjab	04/12/2012	04/12/2012
Training of First Aid	Treatment of snake bite	University of the Punjab	05/08/2016	05/08/2016
Fire safety UCL	Training fire safety	University Collge London	17/03/2022	17/03/2022
Research staff –belong at UCL	Belong at UCL	University Collge London	17/03/2022	17/03/2022
Course: Antimicrobial Resistance: A Multidisciplinary Approach	AMR: A Multidisciplinary Approach (Student Number: 2104932)	London School of Hygiene & Tropical Medicine	04/07/2022	08/07/2022

## **BACTERIAL CULTURE COLLECTION**

### **ESBL producing strains ATCC No**

GU594294, GU594295, GU594296, GU594297, GU594298, GU594299, GU594300, GU594300, GU594300, GU594300, GU594301, GU594302, GU594303, GU594304, GU594305, GU594306, GU594307, GU594308, GU594309, GU594310, GU594311, GU594312, GU594313, GU594314, GU594315, GU594316, GU594318, GU594300\_KR822242, KR822243, KR905681, KR905682, KR905683, KR905684, KR905685, KR905686, KR822241, KR822242, KR822243, KR822244, KR822245, KR905681, KR905682, KR905683, KR905684, KX789530, KX789531, KX789532,

### **Antibiotic-Resistant Genes with ATCC No**

HM063036 *SHV*, HM063037 *SHV*, HM063038 *SHV*, HM063039 *SHV*, HM063040 *SHV* HM063041 *TEM* , HM063042 *TEM*, HM063043 *TEM* , HM063044 *TEM*, HM063045 *TEM*, HM063046 *TEM*, HM063047 *TEM*, HM063048 *TEM* ,

HM063049 TEM, HM063050 TEM, HM063051OXA, HM063052OXA, HM063053OXA, HM063054OXA, HM063055OXA, HM063056OXA, HM063057OXA, HM063058OXA, HM063059OXA, HM063060OXA, HM063061OXA, HM063062OXA, HM063063OXA, HM063064OXA

## **SUBJECTS TAUGHT**

### **MICROBIAL AND MOLECULAR GENETICS DEPARTMENT (2005-till to date)**

**Undergraduate:** Medical Microbiology, Fundamentals of Microbiology, Molecular Biology, Advance Topics in Molecular Biology, Seminar

**Postgraduate:** Medical Microbiology, Infectious diseases, Fundamentals of Microbiology, Molecular Biology, Seminar, Advance Topics in Molecular Biology

**MS/ M Phil / MS leading to Ph. D:** Molecular Infection Biology, Seminar, Problem-solving Molecular Biology I, Blood Culture and Blood Analyzing techniques.

### **Conferences/ Workshops and Seminars attended/presented/organized**

#### **2004-2010**

- Attended and Participated: 1<sup>st</sup> symposium: Recent Advances in the Management of Chronic Myeloid Leukemia. Organized by Shalimar Hospital. 10 Feb 2004
- Attended and Participated: 26<sup>th</sup> International Zoological Congress of Pakistan, 4- 6 April, 2006
- Attended and Participated: Characterization and Management of Emerging Viral Disease In The Developing World (NIBGE) 20-22 Nov, 2006.
- Attended and Participated: Symposium: Biomarkers Measurements in Complex Matrices. (SBS) April 25-26, 2007
- Attended and Participated; National Research conference (Pakistan Academy of Sciences) 30 June 2007
- Attended and Participated: 1st Symposium on Genomics, Proteomics, Metabolomics: Recent Trends in Biotechnology (MMG) 22, 23 Oct 2007.
- Attended and Participated: Proteomics Workshop (MMG) 24, 25 Oct 2007.
- Attended and Participated: Seminar on Bacterial Endotoxins testing (MMG) 21 Nov 2007.
- Attended and Participated: Seminar on Rabies (University of Veterinary Animal Sciences) 29 Nov 2007.
- Attended and Participated: Research Ethics. Workshop (PMRC) 26-27 Nov 2007.
- Attended and Participated: Seminar. Management of health care waste. 1 Feb 2008 MMG.
- Attended and Participated: Workshop. Antibiotic use in General Practice. IDSP Sunfort Hotel LHR. Organized by IDSP. 13 March 2008.
- Attended and Participated: 18th National Conference. Chemical society of Pakistan, 25-27th Feb 2008. Institute of chemistry, PU, LHR.
- Attended and Participated: Seminar. Microbial Resistant Paints. Organized by MMG LHR. 17 April 2008.
- Attended and Participated: International Symposium. Glycoprotein in Health and Diseases. Organized by SBS LHR. 27-29 May 2008.
- Attended and Participated: Seminar: Continuous Medical Education. Organized by The Aga Khan University at Alhamra art Council LHR. 28 Aug 2008.
- Attended and Participated: Sixth Annual Conference on Infectious Diseases. Poster Presentation. Organized by Infectious Diseases Society of Pakistan, April 04-05, 2009
- Attended and Participated: Symposium on Modern Biotechnology, A Resource for Sustainable Development. Organized by MMG at Pearl Continental Hotel, 4 July 2009.
- Attended and Participated: Workshop on proposal preparation under International Health Links Funding Scheme (IHLFS) Thursday 29 October 2009. Crown Plaza organized by British Council.

- Poster presentation, 19th Annual Meeting of the Medical Research Society of Pakistan. 31 October
- 2009. Organized by Shaukat Khanum Cancer Hospital & RC and UHS.
- Poster presentation: Symposium on current agro biotechnology and transgenic plants. 21 June 2010. organized by the Department of Microbiology and Molecular Genetics. PU.
- Seminar Attended: Obtaining the structure of intrinsically disorder proteins. 05 February 2010,
- Organized by Biochemistry and Molecular Biology. Nottingham University, UK. 05 February 2010
- Seminar Attended: Putting the Q in the proteomics: Strategies for quantitative proteomics. 12 February 2010, Organized by Biochemistry and Molecular Biology, Nottingham University, UK
- Seminar Attended: Evolution and survival of promiscuous plasmids. 19 February 2010, Organized by Biochemistry and Molecular Biology at Nottingham University, UK.
- Seminar Attended: Plasma Medicine: Health care opportunities and scientific challenges. 26 February 2010, Organized by Biochemistry and Molecular Biology. Nottingham University, UK.
- Seminar Attended: Connecting proteomic with transcriptomic by mi RNA and microarray. 05 March 2010, Organized by Biochemistry and Molecular Biology. Nottingham University, UK.
- Seminar Attended: Neisseria meningitides: Thinking about metabolism to understand colonization and disease. 12 March 2010, Organized by Biochemistry and Molecular Biology. Nottingham University, UK.
- Seminar Attended: 20 million data point can't be wrong. Using milk recording data to make better decision on cow health. 10<sup>th</sup> March 2010, Nottingham University, UK
- Attended and Participated in Workshop. GE Health care, Basic chromatographic skills course. 22 March 2010. Nottingham University, UK.
- Attended and Participated in Workshop. Grant writing course. 18 March 2010. Nottingham University, UK.

#### **2011-2014**

- Attended and Participated Seminar: Organizational intelligence, Undergraduate block PU, 13 June 2011.
- Attended and Participated in Conference. Medical laboratory technology. Pakistan association of medical laboratory sciences, 27 to 28 Feb 2011. Jinnah Hospital Lahore.
- Attended and Participated Symposium: Tuberculosis-Epidemiology, Diagnostics and therapeutics. Institute of Biochemistry and Biotechnology, 3 Nov 2011.
- Attended and Participated Workshop: Immunoassay 23-25 Feb 2011
- Organized: One-day seminar on Recent Trends in Diagnosis of Tuberculosis, 04 September 2012
- Poster presented at Congress. 15th International Congress on Infectious Diseases June 13- 16, 2012. Bangkok, Thailand.
- Attended and Participated One-day Seminar Dengue 2<sup>nd</sup> Sep 2012, MMG, PU
- Poster published: "Lactose fermenting members of *Enterobacteriaceae* causing septicemia". 9th International biennial conference of Pakistan Society for Microbiology 28-31, Jan 2013 Karachi Pakistan.
- Attended and participated one-day Seminar Himont Pharmaceuticals. 12 March 2013 MMG, PU
- Oral presentation: International 33rd Pakistan congress of Zoology. 2-4, April 13 Organized by Zoological Society of Pakistan at Islamabad.
- Member of Organizing Conference Committee. Biophysicochemical basis for technopreneurship A2-3, April 13 Organized by MMG, PU.
- Attended and Participated in Conference. Tuberculosis a Zoonosis. April 16, 13. Organized by quality operations laboratory, UVAS LHR.
- Attended and Participated Workshop. Gas Chromatography June 8th 2013. Organized by School of physical sciences and ORIC, PU.
- Conference. Poster: Impact Of Bacteriocins Producing Against Multidrug-Resistant Pseudomonas Spp, Antimicrobial activity of *Allium sativum* on methicillin resistance, Biophysicochemical basis

for technopreneurship. Organized by Microbiology Molecular Genetics, PU. Lahore, Pakistan April 2-3, 2013.

- 5th Congress of European Microbiologists (FEMS2013). Impact of putative bacteriocins against Multidrug-Resistant isolates. Leipzig, Germany (21-25, July 2013). Accepted published in the abstract book.
- Basic Biosafety Measures in Research (September 27, 2013), Organizing committee at MMG, PU.
- 37th Annual Conference of PAP. 20-22 Dec 13, organized by societies of pathology
- Hands on Experience Workshop on Enzyme Immunoassays 10-12 Dec 13 organized by national health research complex.
- Poster Presented. Molecular Biosciences-Challenges and Opportunities. Nov 25-28, 2013, Organized by Pakistan society for biochemistry and molecular biology.
- Participated One-day workshop: Research Methodology. 20 Dec 2013. At University of the Punjab by School of Physical Sciences.
- Oral Presentation: "Correlation of Hepatitis C Virus Genotyping, Viral Load and" International Conference on Virology and Infectious Diseases. Organized by the world academy of science, engineering and technology, 24-25 Dec 2013 Thailand
- Attended Conference. Association for Excellence in Medical Education (AEME). Professionalization of Health Professions Education, Lahore: Impact on Care. March 7-9, 2014. University of Health Sciences
- Oral presentation: Phenotypic and Molecular Detection of plasmid encoded Beta-lactamases produced by *E. coli* and *Klebsiella* spp. Organized by Medical Microbiology and infectious society of Pakistan. 14-15 March
- Attended International Conference of Clinical Psychology "Clinical Psychology Outside Clinic. 2nd to 3rd April 2014. Organized by Pakistan Association of Clinical Psychologists, University of the Punjab
- Attended workshop on CHNS-O Elemental Analyzer. Organized by School of Physical Sciences. 31st March to 2nd April 2014.
- Oral presentation: Workshop on Biosafety and Risk assessment, 19th April, 2014, "Working with clinical samples" organized by Biosafety and bio-resource committee, Punjab University. 1st poster award for student "Mycobacterium Tuberculosis and Biosafety".
- Attended and participated by student oral and poster presentation: International Conference on Innovative Biological and Public Health Research. Organized by Department of Zoology, Government College University Lahore, 06-08, May 2014.
- Attended: Workshop on the Awareness of Emerging Issues of Cancers in Pakistan, organized by Lahore College for women, May 6, 2014.
- Attended: Seminar on Awareness Seminar on "Environmental Radioactivity and Harmful Effects Of Ionizing Radiations" Organized by Pakistan Nuclear Regulatory Authority. May 19, 2014.
- Attended: 1st National Conference on Integrated Role of Forensic Sciences in Criminal Justice System" Organized by The University of Lahore, Forensic Science Section held on 25th September 2014.
- Attended 3rd Faculty training program at University of the Punjab November 17-21 November 2014 organized by MMG, PU and Higher Education Commission, Pakistan
- Member Organizing Committee, Poster presentation and Participation, in 1st Joint PAP/RCPATH/AMP Conference on Molecular Pathology held from 24-26th November, 2014.
- Poster presentation at 15th Asia Pacific Congress of Clinical Microbiology and Infection, Sunway Pyramid convention centre, Malaysia. Organized by Malaysian Society of Infectious Diseases and Chemotherapy. 26-29th November 2014.
- Attended Pre-Congress Workshop on Antibiotic Susceptibility Testing at 15th Asia Pacific Congress of Clinical Microbiology and Infection, Sunway Pyramid convention centre, Malaysia. Organized by Malaysian Society of Infectious Diseases and Chemotherapy. 26th November 2014.
- Oral Presentation at 25th National and 13th International Chemistry conference organized by Institute of chemistry, University of the Punjab. 20-22nd, October 2014.
- Organized One-day seminar on recent trends in Molecular therapeutics, 19th August 2014 at MMG, PU

- Organized One-day symposium on Emerging Issues of multidrug Resistance: A threat to the globe, 2nd October 2014 at MMG, PU in collaboration of HEC and Medical Microbiology and infection society of Pakistan.
- One-day training on Critical aspects of Sanger DNA sequencing organized by 1stBase Malaysia.
- Indigenous on-campus Training Program. Organized by HEC and PU, December 1-5, 14
- International Conference on Stress Biology and Biotechnology: Challenges and Management May 21-23, 2014. Organized by IGS, Punjab University
- International Symposium on Molecular Forensic: Emerging Trends 29 May 2014
- Member of organizing committee. "14<sup>th</sup> Event Techno spark: A Flood Relief Initiative" held on 29-30th November, 2014

## 2015-2018

- Attended Conference. 25th Annual International Conference on Family Medicine Familycon 2015, 9-10-11 January 2015. Pearl Continental, Lahore.
- Attended workshop. "Dermatology" 25th Annual International Conference on Family Medicine Familycon 2015, 9-10-11 January 2015. Pearl Continental, Lahore.
- Attended and organized. Two days' pre-conference workshop on Parasitology and its Immunological aspects 13-14 February 2015.
- Member of organizing committee: 10th Biennial International Conference of Pakistan Society of Microbiology. Exploring Microbes for future endeavors 25 to 28 March 2015.
- Annual Scientific symposium Mohtarma Benazir Bhutto Shaheed Medical College Mirpur, 17-19 April 2015
- Attended Workshop: Mohtarma Benazir Bhutto Shaheed Medical College 17 April 2015
- Attended: 14th International Conference of Psychology 19-21 March 2015
- Attended: Workshop on Nano-sciences and Nanotechnology Organized by Nano-chemistry Lab, GC University Lahore. 27 August 2015
- Participated by student presentation: 10th Biennial International Conference of Pakistan Society of Microbiology Antibiotic Susceptibility Profile and Horizontal Gene Transfer in *Pseudomonas* sp. isolated from Clinical Specimens Best Poster Award.
- Participated in event entitled: Diversity in Microbiology: A crosstalk on 17th December 2015 organized by MMG, PU and American Society for Microbiology.
- Attended: conference and workshop Pakistan society of pathology 6-8 November 2015.
- Attended on day workshop on EndNote software in MMG, PU January 12, 2016.
- Presented poster and won 1st prize in 26<sup>th</sup> annual international conference on the family medicine familycon 2016 organized by the society of Familycon 11-14 February 2016.
- Presented paper CTXM encoding beta-lactamases from clinical *Enterobacteriaceae* in 13th Medical Microbiology and Infectious Diseases conference 25-26 March 2016
- First International conference on molecular virology, Trends in emerging virus. Imperial college of Business Studies on 4th April 2016
- Attended series of the seminar in Arab lab 2016 Dubai, 22-24 March 2016.
  - Expand the boundaries of your research with automated confocal imaging
  - 2-D gel electrophoresis: new separation technologies for proteome analysis
  - Keeping patients with aerosol transmittable infections safe and isolated.
  - Achieving improvements in quality, productivity, compliance and cost reduction
  - Steel vs wooden laboratory furniture. Are you ready for the challenge?
  - DNA measurement learn more about Nano-drop
  - Cytometer with advanced detection technology
- Organized symposium: Awareness on diabetes 14<sup>th</sup> Novemebr, 2016
- Attended: Workshop: Different forms of Research Designs and steps in planning for a research grant. April 22, 2016. Forman Christian College.
- Organized workshop on "Blood: Connect us all" 14-15, May 2016.
- Organized workshop on "Transaminases and associated factors" 10-11, May 2016.
- Participated in All DICE Energy and water 2016 as a member organizing committee in collaboration with ORIC, PU



- 27<sup>th</sup> Annual International conference on family medicine Participated and won third poster prize in Familycon, 27-29 January 2017
- Organized Focal Person. Microbial Art Competition 14-15 February 2017. Student won first prize. (Noor-ul-Ain MS)
- Poster presented in 2nd International Biennial cardiorespiratory conference, 3-5 March, 2017
- Organized workshop on Hemoglobin Electrophoresis 1 March 2017
- Participated and won 2nd Best poster award in 19<sup>th</sup> Annual PSH conference and international Hematology symposium Heamcon, 17-18 February 2017
- Organized, presented poster for organizing one-day symposium "Awareness on HIV/AIDS" 30<sup>th</sup> March 2017.
- Organized one-day workshop Right tool for bacterial identification. 1 Feb 2018
- Organized one-day Awareness symposium on Thalassemia and blood donation 19 April 2018
- Presented paper at Analytica 2018 organized by German chemical society 12- 14 April 2018
- Attended and presented a paper at the Annual Conference on Infectious disease, Expo15-17 March, 2018
- Attended and presented a paper at Familycon International conference at 12-13 January 2018
- Participated in workshop solution to Manage antimicrobial resistance threat 11 April 2018
- Presented paper at international pathology conference, 10-12 April 2018.
- Organizer, presenter at a conference on Microbiology and Molecular Genetics. 7-9 Feb 2018
- Participated in workshop "Solutions to manage antimicrobial resistance threat on 11 April 2018
- Participated and won third poster award in a poster presented at workshop on the family and Diabetes 14 November 2018.

## 2019

- Workshop: Antibiotic Stewardship; time to win losing battle, 9<sup>th</sup> annual scientific pre-symposium workshop. Organized by Postgraduate Medical Institute Ameer-ud Din Medical College, Lahore. 20<sup>th</sup> Feb 2019
- Presented oral and poster First national conference on public health organized by department of public health, institute of social and cultural studies, University of the Punjab Lahore, Pakistan. 8<sup>th</sup> March 2019.
- Participated by poster: 29<sup>th</sup> Annual International conference on Family Medicine 28<sup>th</sup> -31 March 2019 organized by Familycon.
- Attended: 2<sup>nd</sup> Annual International Health Asia Leadership Pathology and infection control conference. 3<sup>rd</sup> and 4<sup>th</sup> April 2019 Lahore expo centre Lahore. Pakistan
- Organized: Seminar on Four Primary controls 20<sup>th</sup> March 2019 at MMG PU in collaboration with American Society of Microbiology and 52 weeks of Bio-safety program in Pakistan
- Attended: Quality Assurance in Medical Education on 23 April 2019 at UHS
- Organized: Workshop on Human risk factors and bio-safety cabinets on 23 April 2019 at MMG, PU
- Attended: online course Biosafety cabinets, <http://parn.org.pk> 25<sup>th</sup> April, 2019
- Organized: Seminar and discussion session: Need for Biosecurity on 10<sup>th</sup> April, 2019 at MMG, PU
- Attended: IPAQT Seminar; Advances in Diagnosis and Treatment of Tuberculosis, 27<sup>th</sup> June 2019 organized by CRC Labs
- Organized: One-day symposium "Global Challenges of Antimicrobial Resistance" and Microbial Art Competition 16<sup>th</sup> October 2019 At MMG PU jointly organized by MMG and ASM
- Attended: Workshop; Diabetes: Protect Your Family, 14<sup>th</sup> November 2019 Organized by MMG, PU
- Organized: One-day Seminar and Pre MOU meeting (University of Universiti Sultan Zainal Abidin) on Molecular Diagnostics 18<sup>th</sup> October 2019 at MMG PU

## 2020

- Attended: One-day seminar on Recent updates on Tuberculosis and Novel Coronavirus on 18<sup>th</sup> February 2020 at Department of Public Health University of the Punjab
- Presented poster "17<sup>th</sup> Annual Conference of the medical Microbiology and infectious Diseases society of Pakistan" on 29<sup>th</sup> February to 1<sup>st</sup> March 2020 in collaboration with SKMT, MMIDSP, PKLI).

- Attended One Day Hospital conference “Best Practices in Medication Safety” on 22<sup>nd</sup> February 2020 at LMDC.
- Organized one-day seminar what’s new in the detection of *M. tuberculosis* infection? By Adrian Martineau, Queens Mary University of London 21 February 2020 at MMG, PU
- Organized one-day seminar on Introduction to bacterial genome sequencing by Ms Samyia Abrar Superior University Lahore 5<sup>th</sup> March 2020 at MMG, PU.
- International symposium of Metabolic Obesity and role of thyroid on August 13, 2020, organized by Branded Methods, Malaysian Obesity Bank.
- Attended: One-day Virtual seminar on “Diabetes Day” under the theme coronavirus and Diabetes at MMG, PU in collaboration with Pakistan Academy of Family Physician (PAFP) on 14<sup>th</sup> November 2020.
- Invited as speaker in 3<sup>rd</sup> International conference new trends in natural sciences “Emerging Infectious and Communicable Diseases: Insights, Zoonosis, Challenges & Strategies” 21st - 23rd December, 2020 Organized by Department of Biotechnology, Department of Zoology, Lahore College Women University. Topic of presentation: “Distribution of CTX-M group I and group III  $\beta$ -lactamases produced by *Escherichia coli* and *Klebsiella pneumoniae* in Lahore, Pakistan

## 2021

- Attended: Hands- on workshop on “Research Methodology” organized by Concepts of Science Academy Pakistan 5<sup>th</sup>-7<sup>th</sup> March, 2021
- Attended: One-day virtual Seminar “Advancements and Opportunities in Pharmacy Profession 1”. Organized by Lahore Pharmacy College in collaboration with the Department of Pharmacy Services, Ghurki Trust Teaching Hospital Lahore. 24<sup>th</sup> April 2021.
- Attended: One-day virtual Seminar “Advancements and Opportunities in Pharmacy Profession 2”. Organized by Lahore Pharmacy College in collaboration with the Department of Pharmacy Services, Ghurki Trust Teaching Hospital Lahore. 1<sup>st</sup> May 2021.
- Attended: One-day virtual Seminar “Advancements and Opportunities in Pharmacy Profession 3”. Organized by Lahore Pharmacy College in collaboration with the Department of Pharmacy Services, Ghurki Trust Teaching Hospital Lahore. 22<sup>nd</sup> May 2021.
- Attended: Webinar series on “COVID-19 Pandemic and role of Microbiologist”, organized by American Society for Microbiology. 31<sup>st</sup> March 2021.
- Attended: Hand-on Workshop on “Research Methodology” from 5<sup>th</sup> March 2021 to 7<sup>th</sup> March 2021 organized by Concepts of Science academy, Pakistan.
- Attended: 4<sup>th</sup> ASP ID club meeting diagnostic stewardship: Day 2 Held on 7<sup>th</sup> April 2021 awarded 3 hours of Continuing Medical Education (CATII).

## 2022

- Attended: Weekly meetings of the Centre for Clinical Microbiology, University College London (CCM, UCL). I have also presented my work in a weekly meeting at CCM, UCL.
- Attended: Weekly Journal Clubs of the Division of Infection and Immunity at CCM, UCL
- Attended: One-week short course on Antimicrobial resistance (AMR): A multidisciplinary approach organized by the London School of Hygiene & Tropical Medicine (4th to 8th July 2022)
- Attended: One-day seminar on stewardship, antimicrobial resistance, and Transmission organized by the Institute of Child Health in London (24th June 2022).
- Attended: Seed Projects Precision AMR Conference, Organized by UCL (30th March 2022).