

**DR FAREEHA AKHTAR**

**Associate Professor**

**University Diagnostic Laboratory(UDL), Institute of Microbiology(IOM)**

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## **ACADEMIC CAREER**

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**University of Veterinary and Animal Sciences, Lahore.**

**Ph. D Microbiology**

**2013**

**University of Veterinary and Animal Sciences, Lahore**

**M. Phil (Microbiology)**

**First Division**

**2008**

**University of Veterinary and Animal Sciences, Lahore**

**Doctor of Veterinary Medicine**

**First Division**

**2005**

## **VISION**

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To obtain a meaningful and challenging position that enables me to learn the veterinary research and technology field for advancement, professional development and establishment of a productive, independent research works. Committed to impart best knowledge and skills to the community by growing with advancements in the field of conventional and advanced diagnostic techniques for infectious diseases.

## **AREAS OF COMPETENCE**

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I have good knowledge of Veterinary Sciences especially Veterinary Microbiology, Immunology and disease diagnosis of infectious diseases. I have competence with the

modern and conventional diagnostic tools and various bioinformatics tools to analyze research data and ambitious to further explore the bioinformatics use in veterinary disease diagnosis.

## **WORK EXPERIENCE**

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### **University of Veterinary and Animal Sciences, Lahore**

University Diagnostic Laboratory (UDL), Institute of Microbiology (IOM)

#### **Associate Professor**

July, 2021 to date

### **University of Veterinary and Animal Sciences, Lahore**

University Diagnostic Laboratory (UDL), Institute of Microbiology (IOM)

#### **Assistant Professor**

November, 2015 to July, 2021

### **University of Veterinary and Animal Sciences, Lahore**

University Diagnostic Laboratory

#### **Lecturer**

June 2007 to November, 2015

### **Remount Veterinary And Farms Corps, Military Head Quarter Gp Okara .**

Embryo transfer technique lab

#### **Veterinary Officer**

November 2006 to June 2007

### **Society for Prevention of Cruelty to Animals (SPCA), UVAS, Lahore**

**Worked as Volunteer trainee Doctor**

2003 – 2005

## COUNTRIES VISITED

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- UNITED STATES OF AMERICA (USA),
- UNITED KINGDOM (UK),
- AUSTRALIA,
- ABU DHABI,
- TUNISIA,
- KINGDOM OF SAUDI ARABIA,
- DUBAI (UAE)

## TECHNICAL EXPERTISE:

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### TECHNICAL ASSESSOR PNAC

I have a good laboratory management (**ISO 17025**) and techniques experience for clinical as well as applied research and disease diagnosis. I am also a **Technical Assessor** for **Pakistan National Accreditation council (PNAC)**.

### NAME OF LABORATORIES ASSESSED AS TECHNICAL ASSESSOR

- Veterinary Research Institute (VRI) Lahore
- Veterinary Disease diagnostic labs cooper road lahore
- Fish Quality Control Lab Manawa (FQCL)
- Pakistan Council of Scientific And Industrial Research (PCSIR)
- National Reference Laboratory For Poultry Diseases (NRLPD) Islamabad
- Punjab food Authority (PFA)
- K & Ns labs
- WELCOSE Labs
- Punjab Agriculture and Meat Company (PEMCO) Lahore

## TECHNICAL SKILLS

### Molecular Biology Technique

- Standardization of PCR, RT-PCR, Real Time – PCR for different Bacteria, Viruses and protozoas.
- Multiplex PCR for genotyping
- Sequence analysis via Bioedit and construction of phylogenetic tree by using MEGA 7
- Protein analysis by using Phyre 2 and PyMOL etc.

### **Immunofluorescence technique**

- Fluorescent antibody test (FAT) for identification of virus and bacteria using monoclonal and group specific antibodies.

### **Microbial Technique**

- Isolation, Identification and Quantification of different type of bacteria such as *Salmonella*, *E coli*, *Staphylococcus*, *Streptococcus*, *Pseudomonas*, *Proteus*, *Clostridium* and *Klebsiella* etc.
- Antimicrobial susceptibility testing.

### **Egg Inoculation and Cell Culture Technique**

- Isolation and identification of virus via egg inoculation technique.
- Culture of different cell lines like Vero, BHK and preparation of primary cell lines like Chicken embryo fibroblast cells, Chicken embryo kidney cells, and Chicken embryo liver cells, etc.

### **Serological Technique**

- Identification and titration of virus/serum by Haemagglutination and Haemagglutination inhibition (HI) test.
- Different types of ELISA such as direct, indirect, Sandwich, competitive and dot ELISA
- Virus/Serum neutralization test, AGID, RBPT etc.

### **Parasitology**

- Haemoparasites diagnosis by direct smear method
- PCR based diagnosis of hemoparasites
- Fecal parasites examination by
- Direct smear,

- Fecal floatation and fecal sedimentation
- Egg per gram (EPG)

### **Hematology and blood chemistry**

- Complete blood count (CBC)
- Liver function test
- Renal function test
- Serum electrolytes

### **Animal handling experience**

- Experience in maintenance, care and handling of lab animal like mice, rat and chickens for experimental studies.

## **SOFTWARE SKILLS**

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- **MEGA 11**
- **Bio Edit**
- **Phyre 2**
- **Pimol**
- **Spd viewer**
- **SPSS20**
- **SAS 9.4**
- **Minitab**
- **Microsoft Windows applications, Primer 3, Blast2 Sequence, etc.**

## **SUBJECTS TAUGHT**

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### **UNDERGRADUATE DEGREE COURSES TAUGHT**

#### **Doctor of Veterinary Medicine**

CLSM 804	Medicine II (UDL clinic) 2008-2015)
CLSM 906	Surgery clinic III (UDL clinic) (2008-2015)
CLSM 709	Surgery Clinic II (UDL clinic) (2008-2015)
THER 708	Reproduction clinic I (UDL clinic) (2008-2015)

Ther 806	Reproduction clinic II (UDL clinic) ( 2008-2015)
Ther 906	Reproduction clinic III (UDL clinic) (2008-2015)
CLMS 02703	Surgery Clinic I (UDL clinic) (2016-2018)
CLMS 02903	Surgery Clinic III (UDL clinic) (2016-2018)
CLMS 2803	Medicine clinic II (UDL clinic) (2016-2018)
MICR 02306	Molecular Biology (Practical) (2016 -2017)
MICR 02405	Systemic veterinary virology (Practical) (2017-2018)

### **Doctor of Nutrition and Dietetics**

MICR 10506	Food Microbiology Theory and Practical, 3(2-1)(2013-2022)
MICR 10403	Medical Microbiology Theory and Practical 4(3-1) (2018-2019)
MICR 10207	Fundamentals of Microbiology Theory and Practical, 3(2-1) (2020-2022)

### **BS (Hons)Applied Microbiology**

MICR 5703	Diagnostic Microbiology Practical (2013-2022)
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### **BS (Hons) Medical Lab Technologist**

MLT 26601	Medical Lab instrumentation (Theory and Practical), 3(2-1)
MLT 26701	Medical Laboratory management skills (Theory and Practical), 3(2-1)
MLT 26602	Clinical Bacteriology (Theory and Practical), 3(1-2)

### **BS (Hons) Biochemistry**

BIOC 14606	Immunochemistry (Practical) 2017
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## **POST GRADUATE DEGREE COURSES TAUGHT**

### **M.phil Microbiology,**

MICR 1017	Techniques in Molecular Biology (2016- 2022)
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### **Ph.D**

MICR 1017	Techniques in Molecular Biology (2016-2022)
MICR 1024	Animal Food Microbiology (2017-2023)

## INTERNATIONAL TRAININGS, WORKSHOPS, CONFERENCES AND SYMPOSIUMS

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- Participated in 4<sup>th</sup> WPSA International Virtual **“One Health Conference”** organized by University of Veterinary and Animal Sciences, Lahore, & World’s Poultry Science Association-Pakistan Branch & Pakistan Veterinary Medical Council (PVMC) at Lahore during September 09-10, 2021.
- Participated in “International webinar on skills development for research and innovation” organized by KBCMA CVAS Narowal & Science and innovation club/ORIC, University of Veterinary and Animal Sciences, Lahore on September 07, 2021.
- Participated in **“1<sup>st</sup> International Conference on Bioinformatics & Computational Methods in Post Genomic Era”** organized by Department of Bioinformatics & Computational Biology, Virtual University of Pakistan at Lahore during November 09-10, 2021.
- One day virtual International conference on **“Food Security”** dated 30th May 2021, organized by international veterinary students association (IVSA) Pakistan.
- Participated in **“International Buffalo congress”** held at Pearl continental hotel Lahore, organized by University of Veterinary and Animal Sciences, Lahore, February 17-18, 2019.
- Participated in **“International Livestock Nutrition Summit”** held at University of Veterinary and Animal Sciences, Lahore, February 21-22, 2017.
- Participated in five days congress on **“One Health Eco health”** at Melbourne, Australia, Dec, 03-07, 2016.
- Participated in eighteen days hands on training on **“Advanced molecular diagnostics of Avian Mycoplasmosis”** at the molecular Diagnostic Laboratory Department of Pathobiology & Veterinary Sciences, **University of Connecticut, Storrs United States of America (USA)**, Aug, 19-Sep, 5 2014.
- Three days **International Conference in Tunisia** titled **“International Engagement: Responsible Bioscience for a Safe and Secure Society”** “organized by AAAS (2011).

- Three days “**34th SAARC countries science conference**” held at University of Veterinary and Animal Sciences (UVAS) Lahore on February 20- 22, 2006.

## **NATIONAL TRAININGS, WORKSHOPS, CONFERENCES AND SYMPOSIUMS**

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- Participated in Two days “**2<sup>nd</sup> Training workshop over overview of ISO 35001 Documentation**”for implementation of biorisk management for laboratories, organized by Institute of Microbiology (IOM) in collaboration with Health Security Partners held at , Institute of Microbiology (IOM),University of Veterinary and Animal Sciences Lahore, on April 23<sup>rd</sup>-24<sup>th</sup>, 2024.
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- Participated in Two days “**Training workshop over overview of ISO 35001**”for implementation of biorisk management for laboratories, organized by Institute of Microbiology (IOM) in collaboration with Health Security Partners held at , Institute of Microbiology (IOM),University of Veterinary and Animal Sciences Lahore, on December 14<sup>th</sup> -15<sup>th</sup>, 2023.
- Participated in one day training on “**How To Respond To An Emergency**” held on February 22<sup>nd</sup>, 2023, organized by Emergency response committee (ERC) UVAS in collaboration with Civil Defence, Lahore, at University of Veterinary and Animal Sciences (UVAS) Lahore.
- Participated in training on “**Women Leadership Development Program**” held from December 12, 2022- February 16<sup>th</sup>, 2023, organized by Women empowerment through women involvement in learning and Leadership (WE-WILL), at Veterinary Academy, University of Veterinary and Animal Sciences (UVAS) Lahore.
- Participated in “**39<sup>th</sup> All Pakistan International Science Conference**” held on December 14<sup>th</sup>-15<sup>th</sup>, 2022, organized by Pakistan Association for the Advancement of Science, at University of Veterinary and Animal Sciences (UVAS) Lahore.



- Participated as convener Stage Management Committee of **“Poultry Science Conference (PSC@IPEX2022)”** held on September 15<sup>th</sup>-17<sup>th</sup>, 2022, organized by University of Veterinary and Animal Sciences (UVAS) Lahore & Pakistan Poultry Association
- Participated in **“National Seminar on Lumpy Skin Disease ”** held on July 5<sup>th</sup>, 2022, organized by Department of Veterinary Medicine, University of Veterinary and Animal Sciences (UVAS) Lahore.
- Participated in one day **“BMR Refresher Training workshop”** held at Anthrax Lab, Institute of Microbiology (IOM), organized by Association for Biorisk Management in collaboration with Health Security Partners and University of Veterinary and Animal Sciences Lahore, on May 10<sup>th</sup>, 2022.
- Participated in **“Five days BMR Basic Training workshop”** held at, Institute of Microbiology (IOM), organized by Association for Biorisk Management in collaboration with Health Security Partners and University of Veterinary and Animal Sciences Lahore, on June 7<sup>th</sup>-11<sup>th</sup>, 2021.
- Participated in One day training on **“New ISO-17025:2017 Standard”** held on August 18, 2020, organized by University Diagnostic Lab, Institute of Microbiology, UVAS, Lahore
- Participated in two days **“Hands-on training workshop on research methodologies in food and nutrition”** held on March 5-6, 2020, organized by Department of Food Science and Human Nutrition, UVAS Lahore.
- Participated in two days **“National training workshop on the recombinant DNA technology for the production of biological products”** organized by Institute of Biochemistry and biotechnology (IBBT), October 30-31, 2019.
- Participated in **“The faculty development training”** held on 18th to 20 March 2019, at Conference Hall, UVAS Lahore.
- Participated in two days’ workshop on **“National workshop on Cell culture techniques for the production of biologics”** organized by Quality Operations Laboratory, October 24-25, 2018.

- Participated in three days **“international poultry expo”** held at expo centre Lahore , September 27-29, 2018.
- Participated in two days’ workshop on **“2nd workshop for biosafety officers”** organized by Institutional biosafety committee, April 13-14, 2018.
- Participated in one day workshop on **“1<sup>st</sup> workshop for biosafety officers”** organized by Institutional biosafety committee, April 12, 2018.
- Participated in three days **“international livestock, dairy and poultry congress (ILDPC)”** held at expo Centre Lahore, March 19-20, 2018.
- Participated in two days **“Bioinformatics Tools and Resources”** organized by Institute of Biochemistry and biotechnology (IBBT), UVAS, LHR, March 29-30, 2017.
- Participated in two days workshop on **“Hands on practical training on tools used for next generation sequencing based microbiome and sequencing data analysis”** under **CRDF funded international collaborative research project**, organized by Quality Operations Laboratory, December 14-15, 2016.
- Participated in three days training on **“Laboratory Management System”** at Marriot hotel Karachi, organized by NIH on Aug 9-11, 2016.
- Participated in Two days **“Fermenter studies and end-product analysis by HPLC”** held at Government college university (GCU), Lahore on June 29-30, 2015
- Participated at the eve of **“World camel day”** at department of livestock management, University of agriculture Faisalabad on June 21, 2014.
- Participated in Two days **“Laboratory Animals Hands-on Workshop”** held at UDL-UVAS, Lahore on June 18-19, 2014
- Participated in five days workshop on **“Data analysis methodologies and use of various statistical tools including SAS 9.4 , Minitab and SPSS 20”** organized by Bio Statistical Consulting Centre, Faculty of Life Sciences & Business Management (FLSBM), UVAS, LHR held on 4th-8th March,2014 at UVAS.
- .Participated in two days workshop on **“Project Formulation Workshop”** organized by Pakistan Science Foundation, on 27th-28<sup>th</sup> March, 2014 at UVAS.

- Two days “**International livestock, Dairy & poultry congress (ILDPC)**” held at Aiwan-e- Iqbal, Lahore on March 11-12, 2014.
- Three days “**International Poultry Expo**” held at expo centre Lahor, organized by Pakistan poultry association on Sep 26-28, 2013.
- Participated in national awareness conference on “**Tuberculosis a Zoonosis**” organized by QOL, UVAS, LHR on April 16, 2013.
- Participated in one day workshop on “**Genome extraction from soil samples & its processing**” batch-II held at UDL,UVAS on Feb 20, 2012.
- Two days training on “**Application of bioinformatics in understanding the nature of microbes**” under DTRA, USA funded research project Feb,21-22, (2012).
- One Day Provincial advocacy seminar on **World TB day** March 24, 2011 organized by Pakistan Medical Society in collaboration with Provincial TB control programme Punjab at UVAS.
- Participated in one month training on **Professional competency enhancement program for teachers (PCEPT)** organized by National academy of HEC, at UVAS Lahore on February,02-March 02,2011.
- Participated in two days workshop on “**Experimental Design and Data Analysis**” organized by Department of statistics & computer sciences FLSBM UVAS LHR on March 16-18, 2011.
- Participated in four days “**6<sup>th</sup> Asian Buffalo Congress**” held at pearl continental Lahore, organized by UVAS on Oct-27-30, 2009.
- One day national workshop on “**Techniques in transgenic**” organized by Department of livestock production and molecular biology & biotechnology, UVAS Lahore on September 02, 2008.
- One day National conference on “**Prion Disease A threat to livestock and Pakistan**” held at University of Veterinary and Animal Sciences (UVAS) Lahore on May 20, 2008.

- Two days “**International livestock & poultry congress (ILPC)**” held at University of Veterinary and Animal Sciences (UVAS) Lahore on April 22- 23, 2008.
- A talk on “**Importance of disease diagnostics in veterinary field**” at Radio station of Pakistan on March 20, 2008 at 12:30 p.m
- International conference and training on “**Education for wildlife sustainability**” organized by Department of wildlife & ecology, University of Veterinary and Animal Sciences (UVAS) Lahore from January 30 - 31 2008.
- Twelve days 35th Postgraduate training course on “**Nuclear & other advanced techniques in Agricultural & biological research**”,held at Nuclear institute for Agricultural and Biology (NIAB), Faisalabad, Pakistan on December 04- 15, 2007.
- One-day seminar on “**Rabies Day**” by University of Veterinary and Animal Sciences Lahore &, Marush (Pvt) Ltd, Pakistan on November 29, 2007.
- A talk on “**Guidelines for rural women’s to control diseases in their animals**” at Radio station of Pakistan on October 25, 2007 at 10:30 p.m
- Six days workshop on “**Molecular diagnosis of Bird flu virus**” University of Veterinary and Animal Sciences (UVAS) Lahore on September 25- 30, 2006.
- Participated in awareness seminar on antivivisection and demonstration of alternatives “**Cat works**” as speaker held at University of Veterinary and Animal Sciences (UVAS) Lahore by vets care organization on March 15, 2006.
- One day seminar on “**Rabies and Buffalo Pox**” by SAVERS, University of Veterinary and Animal Sciences Lahore, Pakistan on May 19, 2005.

## **MANAGEMENTAL COURSES AND TRAININGS PERTAINING TO ISO 17025**

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- Participated in two days training workshop on “**Uncertainty of Measurement**” organized by centre for improvement and change management on June 21-22, 2009.

- Participated in five days training workshop on **“Assessor training course based on ISOIEC 17025:2005 according to APLAC”** organized by Pakistan national accreditation council(PNAC) on March 24-28, 2009.

## **TRAININGS CONDUCTED AS RESOURCE PERSON**

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**(Over 1000 persons all over Pakistan are being trained under these training programs)**

- Resource person for two days training course on **“Molecular Detection of Lumpy Skin Disease Virus (LSDV) In Cattle And Guidelines For Its Control And Prevention”**, Organized by University Diagnostic Lab, Institute of Microbiology (IOM), UVAS, Lahore, from March 31<sup>st</sup>- April 1<sup>st</sup>, 2022.
- Resource person for two days training course on **“Diagnosis & Surveillance Technique”** for officers of L& DD Department, Govt of Punjab, Organized by Institute of Microbiology (IOM), UVAS, Lahore and Directorate of Disease Diagnosis Reporting and Surveillance in Punjab L& DD Govt. of Punjab, from January 5<sup>th</sup>-7<sup>th</sup>, 2022.
- Resource person for **“Theoretical and Practical International School On Necropsy and Sampling in NDV”** from December 1<sup>st</sup>-2<sup>nd</sup>,2021, Organized by HIPRA University in collaboration with UDL, Institute of Microbiology (IOM), UVAS, Lahore.
- Resource person for **“Laboratory biosafety, equipment maintenance and waste disposal”** for lab assistants of L & DD, Punjab.” from October 13<sup>th</sup>-15<sup>th</sup> 2020, Organized by Institute of Microbiology (IOM), UVAS, Lahore
- Resource person for five days professional development training program on **“Advance competency in compliance with OIE”** from November 25<sup>th</sup>- 29<sup>th</sup>, 2019.
- Resource person for **“Lab assisted disease diagnostic techniques”** from December 26<sup>th</sup>, 2016 - January 6<sup>th</sup> 2017.

- Resource Person on “**Lab assisted disease diagnostic techniques** 1<sup>st</sup> session (May 31-June 01, 2016) Organized by University Diagnostic Lab, UVAS, Lahore
- Resource Person on “**Lab assisted disease diagnostic techniques** 2<sup>nd</sup> session (June 02-June 03, 2016) Organized by University Diagnostic Lab, UVAS, Lahore
- Resource Person on “**Molecular based testing of microbial contaminants in bull’s semen**” 1<sup>st</sup> session (May 30-June 01, 2016) Organized by University Diagnostic Lab, UVAS, Lahore.
- Resource Person on “**Molecular based testing of microbial contaminants in bull’s semen**” 2<sup>nd</sup> session (June 02-June 06, 2016) Organized by University Diagnostic Lab, UVAS, Lahore.
- Resource Person on “**Molecular and microbiological lab techniques**” (for professionals of fisheries department Punjab) from May 24-June 06, 2016, Organized by University Diagnostic Lab, UVAS, Lahore.
- Training provided as Resource Person on “**Lab assisted disease diagnostic techniques**” from December 07-18, 2015, Organized by University Diagnostic Lab, UVAS, Lahore
- Training provided as Resource Person on “**Molecular Diagnostics**” from June 23-25, 2015, Organized by University Diagnostic Lab, Institute of biochemistry and biotechnology (IBBT) and Quality Operations Lab (QOL), UVAS, Lahore.
- Training provided as Resource Person on “**Master trainer program for laboratory biosafety & risk management**” from Sep 07-11, 2015, under research project, viral and hemorrhagic fever disease surveillance, diagnostic testing and laboratory capacity building in Pakistan.
- Training provided as Resource Person on “**Practical aspects of poultry health management**” from Feb 04, 2015, Organized by University Diagnostic Lab, UVAS, Lahore.
- Training provided as Resource Person on “**Accreditation of labs over ISO 17025**” from December 04-06, 2013, Organized by University Diagnostic Lab, UVAS, Lahore.

- Training provided as Resource Person on “**Current approaches for the diagnosis and control of avian mycoplasmas**” from September 03-04, 2012, Organized by University Diagnostic Lab, UVAS, Lahore, in collaboration with University of Connecticut (UCONN), USA.
- Training provided as Resource Person to ADIO’S & VO’S of DADRS, L&DDD, Punjab on “**Advanced Laboratory Techniques for Veterinary Disease Diagnostics**” from May 17-21, 2010, Organized by University Diagnostic Lab, UVAS, Lahore.
- Training provided as Resource Person to ADIO’S & VO’S of DADRS, L&DDD, Punjab on “**Basic Disease Diagnostics in Livestock and Poultry**” from April 5-10, 2010, Organized by University Diagnostic Lab, UVAS, Lahore.
- Training provided as Resource Person to SROs, VOs of Poultry Research Institute (PRI), L&DDD, Punjab on “**Advanced Diagnostics and Control of Poultry Diseases**” from March 15-20, 2010, Organized by University Diagnostic Lab, UVAS, Lahore.

## RESEARCH EXPERIENCE

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### POSTGRADUATE RESEARCH PROJECT:

#### *M.phil* project

“Study on immunogenicity of *in-vitro* propagated Hydropericardium syndrome virus in broilers”

#### PhD project

“Genotyping of pathogenic *Ecoli* from animals, poultry, human, and sewage water”

## RESEARCH PROJECTS EXECUTION

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Sr. No	Title of the Research Project	Principal Investigator	Collaborating Scientist	Estimated cost	Funding Agency	Current Status

1.	Molecular Identification and Sequence Characterization of Ornithobacterium rhinotracheale Isolates in Punjab, Pakistan	Dr Rabia Tanvir,	Co PI, Dr Fareeha Akhtar	1.5 Million	Research & Development component of Endowment Fund, University of Agriculture, Faisalabad, during 2019.	<b>Recommended in 2021</b>
2.	Characterization of <i>Mycoplasma gallisepticum</i> isolates from Pakistan and their use in production of biologics.	Prof. Dr. Masood Rabbani (Pakistan Side) Prof. Dr. Mazhar I. Khan (US Side)	Dr.Fareeha Akhtar (Team member)	\$ 2,25,440	BEP, USA under PAK-US S&T Coop. Program	<b>Completed</b>
3.	Molecular Diagnosis and control of early calf mortality	Prof.Dr. Tahir Yaquub	Dr.Fareeha Akhtar (Team member)	Rs: 17.407 Million	Punjab Agriculture research Board (PARB), Pakistan	<b>Completed</b>



4.	Strengthening of Facilities at University Diagnostic Lab and Establishment of Animal House at University of Veterinary and Animal Sciences, Lahore	Prof. Dr. Masood Rabbani	Dr. Fareeha Akhtar (Team member)	Rs: 38.108 Million	HEC, Islamabad	<b>Completed</b>
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## RESEARCH PUBLICATIONS

Topic of Paper	Name of Journal	Year of Publication
Utilization of fermentatively produced antimicrobial peptide-silver nanoconjugates against selected bacterial pathogens	International journal of Agriculture and Biology	2024
First substantiation of clinic-molecular investigation of pathogenic <i>Listeria monocytogenes</i> in Nili-Ravi buffaloes. Munir, M.Z, Khan.J,Ijaz, M. <b>Akhtar, F.</b>	Iranian journal of veterinary research <b>(Impact Factor 2.729)</b>	2022
Molecular characterization and hematological analysis of <i>Listeria monocytogenes</i> infection in dairy cows in Punjab (Pakistan), Munir, M.Z, Khan.J,Ijaz, M. <b>Akhtar, F.</b>	Archives of Microbiology <b>(Impact Factor 2.55)</b>	2022
Assessment of aflatoxin M1 exposure and associated determinants in children from Lahore, Pakistan. W. Ashraf, A. Rehman, M.D Ahmad, M.Rabbani, M.H. Mushtaq, <b>F. Akhtar</b> and J. S. Wang.	Journal of food additives and contaminants <b>(Impact Factor 3.54)</b>	2022
“Effect of storage temperature on the microbiological quality of fish meat from two different managemental systems” Published in Pakistan journal of zoology. Ms Ridda Haroon, <b>Dr Fareeha Akhtar</b> , Dr Ali Ahmad Sheikh.	Pakistan journal of zoology <b>(Impact Factor 0.7)</b>	2021
Comparative antibiotic resistance profile of <i>Acinetobacter</i> spp. isolated from fish, chicken and beef meat	Int. J. Biosci. 14(4), 305-316,	2019

Aftab Ahmad, <b>Fareeha Akhtar</b> , Muhammad Ilyas Khan, Hameed Ur Rehman, Syeda Alia Gerdazi, Uzma Ghani, Muhammad Hanzalah Khan, Uzma Ayaz, Hira Mushtaq, Nausheen Abdul Malik, Nasir Mahmood, Matiullah, Wahid Shah, Malik Nawaz Shuja		
“Optimization Of Multiplex PCR For Detection Of Gram Positive Foodborne Pathogens From Retail Quail Meat” Iqra Safdar , Ali Ahmad Sheikh, <b>Fareeha Akhtar</b> , Javed Muhammad , Tanveer Hussain , Mawra Gohar , Amna Kanwal and Ayesha Tabassum	Pak. J. Agri. Sci., Vol. 55(4), 955-958; <b>(Impact Factor 0.618)</b>	2018
“Physicochemical factors affecting persistence of Francisella tularensis in soil” J. Muhammad, M. Rabbani, K. Muhammad, M. Wasim, A. Ahmad, A. A. Sheikh, <b>F. Akhtar</b> , A. Rasool, I.Khattak, T. Bashir, Z. U. Islam and M. Rasheed.	Published in <i>J Ani. Plant Sci vol 27, No 3.</i> <b>(Impact Factor 0.44)</b>	2017
“Lipopolysaccharide gene based development and optimization of diagnostics for Francisella tularensis” J. Muhammad, M. Rabbani, K. Muhammad, M. Wasim, K. Dewan, A. A. Anjum, A. A. Sheikh, A. Ahmad, <b>F.Akhtar</b> , M. Nisar, B. M. Jayarao and G. S Kirimanjeswara..	Published in <i>J Ani. Plant Sci vol, 27(4):1161-1166</i> <b>(Impact Factor 0.44)</b>	2017
“Molecular Characterization And Phylogenetic Analysis Of Mycoplasma Synoviae Isolated From Chicken” A. Rasool , A. A. Anjum, M. Rabbani , M. Lateef , <b>F. Akhter</b> , H. Afroz <sup>3</sup> , J. Muhammad and M. Nawaz	Published in <i>J Ani. Plant Sci vol 27, No 5(The J. Anim. Plant Sci. 27(5):2017)</i> <b>(Impact Factor 0.44)</b>	2017
Preparation of Mycoplasma synoviae antigens and evaluation by Rapid Slide Agglutination and Enzyme linked Immunosorbent Assay” A. Rasool <sup>1</sup> , A. A. Anjum , M. Rabbani, M. Lateef , M. Nawaz , <b>F. Akhtar</b> , A. Kanwal and S. Sattar	Published in <i>J Ani. Plant Sci vol 27, No 3(27(3): 2017, Page: 841-847</i> ISSN: 1018-7081) <b>(Impact Factor 0.44)</b>	2017

<b>F.Akhtar</b> , M. Rabbani, K. I. Muhammad, M .Younus, AA.Sheikh,A. Ghafoor, A Ahmad, J.Muhammad, A. Rasool, A.Y.Shaheen (2016) Comparative antibiotic resistance profile of the multidrug resistant e. Coli isolated from commercial and backyard poultry ( <i>J Ani. Plant Sci vol 26,No 5</i> )	The Journal of Animal & Plant Sciences ( <b>Impact Factor 0.44</b> )	2016
<b>F.Akhtar</b> , M. Rabbani, K. I. Muhammad, M .Younus, AA.Sheikh, R. Akhtar, J. Muhammad, A.Rasool (2016) Determination of phylogenetic groups of pathogenic <i>E. coli</i> isolated from commercial chicken from Pakistan. ( <i>J Ani. Plant Sci vol 26, No</i> ).	The Journal of Animal & Plant Sciences ( <b>Impact Factor 0.44</b> )	2016
A. Rasool, S. Akhtar <sup>1</sup> , K. Muhammad, M. Rabbani, A. A. Anjum, J.Muhammad, A.Ahmad, A.A.Sheikh, F.Liaqat, <b>F.Akhtar</b> , R.Tahir Comparative Evaluation Of Factors Affecting Hemagglutinatingactivity Of Avian Influenza (H9) Virus (2016). Turk J Vet Anim Sci (2016) 40, doi:10.3906/vet-1504-80	Turkish journal of veterinary and animal sciences( <b>Impact Factor 0.2</b> )	2016
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Nasir, A., M. Ashraf, M. S. Khan, T. Yaqub, A. Javeed, M. Avais and <b>F. Akhtar</b> (2010). Seroprevalence of Neospora Caninum in dairy buffalo in Lahore District, Pakistan. <i>J. Parasitol.</i> doi: 10.1645/GE-2687.1.	Journal of parasitology <b>(Impact Factor 1.4)</b>	2010
Shabbir, M. Z., M. Rabbani, T. Yaqub, A. Ahmad, <b>F. Akhtar</b> , K. Muhammad, M. Hussain and M. Ahmed (2009). Trends in isolation and antimicrobial susceptibility of mastitis causing pathogens of Nili Ravi Buffalo. <i>Pakistan J. Zool. Suppl. Ser.</i> , 9: 273-279.	Pakistan journal of zoology <b>(Impact Factor 0.338)</b>	2009
Ahmad, A., M. Rabbani, M. Z. Shabbir, T. Yaqub, A. Ahmed, and <b>F. Akhtar</b> . (2008). Status of IgG antibodies against Mycoplasma gallisepticum in non vaccinated commercial poultry breeder flocks. <i>J. Ani. Plant Sci.</i>	The Journal of Animal & Plant Science (JAPS) <b>(HEC “Y” Category)</b>	2008

## AWARDS/MERITS/HONOURS

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- Technical Assessor of Pakistan national accreditation council (PNAC) Pakistan
- Got HEC Indigenous PhD Scholarship
- Selected as Veterinary Officer by Federal Public Service Commission in November 2006.
- Selected as Veterinary Officer in Punjab Rural Support Programme in February 2006.
- Merit Scholarship during DVM (UVAS)

## AWARDS/MERITS/HONOURS

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- Member of the 125<sup>th</sup> year History Book Committee of UVAS
- Workshop Manual of molecular and microbiological techniques
- Workshop Manual for ADIOS on Lab assisted disease diagnosis 1<sup>st</sup> session
- Workshop Manual of molecular based testing of microbiological contaminants in Bull's

- Training manual of “Lab assisted disease diagnostic techniques”
- Sampling guide UDL

#### **ADVISORY SERVICES RENDERED, IF ANY:**

- Technical assessor of Pakistan national accreditation council (PNAC).
- In participation, made University Diagnostic Lab, internationally Accredited to ILAC through ISO 17025 Certification by PNAC
- Implementation of Lab Management System (ISO 17025) for sustainability of University Diagnostic Lab.

#### **MEMBERSHIPS**

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- Member of American Society of Microbiology (**ASM**)
- **Life time member of Pakistan Biosafety association (P.B.S.A)**
- Member **P.V.M.C** Pakistan
- Advisor **Vets Care club**
- Advisor **Blood donor society**
- President **Vets Care club** 2004-05
- Member **SAVERS** 2004-05
- Member **Literary club** 2002
- Executive Member of **Society of veterinary physiology** 2001

#### **SPORTS ACHIEVEMENTS**

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- Vice President of girls hockey club (2008).

#### **REFERENCES**

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