

Dr. Muhammad Moazam Jalees

DVM, M.Sc (Hons.), PhD

I am an Assistant Professor of Veterinary Microbiology, with over 24 years of experience divided into administrative jobs and as a faculty member at the university and government administration sector. I have extensive administrative, teaching, research, clinical skills experience. I operated a prosperous pet clinic for one year and remained in the administrative job for over more than 16 years under ministry of communications government of Pakistan. In addition, served as faculty member and Head of the Microbiology department (3 years), Principal officer Estate management (three and half years) and Principal Security in-charge (6 years) at Cholistan university. Moreover, I initiated B.S Applied Microbiology and M. Phil Microbiology department as head of Microbiology department affiliated with Higher education commission Government of Pakistan. I was selected as a member of board of studies and faculty board of the university.

Personal Information

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<https://scholar.google.com/citations?user=x7DG9DIAAAAJ&hl=en>



Research Interest Score= 142.7

Citations= 254

h-index= 14

EDUCATION

University of Agriculture, Faisalabad, Pakistan

PhD Veterinary Microbiology Institute of Microbiology, 2016,

Dissertation: Epidemiology of Peste des petitis ruminants in small ruminants of Punjab.

Advisor: Prof. Dr. Iftikhar Hussain

University of Agriculture, Faisalabad, Pakistan

MSc (Hons), Veterinary Pathology, 2003.

Dissertation: Effects of cottonseed meal on hematological, biochemical and behavioral alterations in male Japanese quail (*Coturnix japonica*).

Advisor: Prof. Dr. Zargham Khan

GPA 3.65/4.0

University of Agriculture, Faisalabad, Pakistan

(D.V.M) Doctor of Veterinary Medicine, 2000

GPA 3.37/4.0

Worked as Chief Patrol Officer under National Highway and Motorway Police Ministry of Communications (2002-2018).

Joined as Assistant Professor in the department of Microbiology at Cholistan university of veterinary and animal Sciences, Bahawalpur on 2018.

Years of experience after PhD= 10 years 4 Months

Major= Biological science

Specialization/Concentration= Microbiology/ Virology

PUBLICATIONS (TOTAL IMPACT FACTOR 20.2)

Total Q1= 4 Total Q2= 1

Total Q3=5 Total Q4=3

Last 5 years

Total Q1= 2 Total Q2= 1

Total Q3=5 Total Q4=2

Teaching, research, and service philosophy

1. I believe in holistic development of students encompassing social and practical skills empowering students and providing them with the knowledge and skills to make informed decisions and contribute meaningfully to society.
2. Teaching must be focusing more on emphasizing the cultivation of critical thinking, problem-solving, and creativity rather than rote memorization.
3. My method of teaching is more on student-centered methods that focus on individual student needs, abilities, and learning styles. This could involve active learning, group projects, and personalized instruction.
4. Experiential Learning is the key point in students grooming as hands-on, experiential learning methods encourages practical application of knowledge. So, Technology Integration will be the key aspect of my research methodology and integration of technology in education to enhance learning experiences and prepare students for a technology-driven world.
5. My Service philosophy is focusing more on combined collaborative work, mentoring, outreach, and involvement in professional organization.

PROFESSIONAL TRAININGS/AFFILIATIONS

1. Post graduate training course on "Nuclear and Other Advance Techniques in Agricultural and Biological Research" held at Nuclear institute for Agriculture and Biology (NIAB) Faisalabad, Pakistan, on oct. 15-26, 2001.
2. Workshop on "Molecular Diagnosis of Avian Mycoplasma Species in Birds and Farm Premises" held on 10th and 11th of March, 2011 at Institute of Microbiology, University of Agriculture, Faisalabad, Pakistan.
3. Various training workshops of CEPA, SPSS, SAS and End note at Cholistan University of Veterinary and Animal Sciences, Bahawalpur.
4. International Buffalo Congress (I.B.C) Lahore 2019.
5. "In-Service Competency Enhancement Training for University Faculty"(Batch2).25th -26th April,2019,in collaboration with Center for Educational Policy and Administration, Cholistan University of Veterinary and Animal Sciences, Bahawalpur.
6. "1st International Workshop on Biodiversity: Techniques & Tools". As a part of "Exhibition on Biodiversity Conservation of Cholistan Desert", held on April 4-5, 2019, organized by Department of Zoology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur.

7. ORIC training workshop Feb.2022 CUVAS.
8. Training work shop on SAS and R languages 2023.
9. Three-day training workshop on BRM training at CUVAS 2023.
10. International training on Lumpy skin disease 2023.
11. Organization of Laboratory facilities of undergraduate and postgraduate extension Projects etc 2024.
12. International training Participation in IAEA RTC on "Use of Open-Source, Real-Time Geo-Visualization Tools in Monitoring Arthropod Vectors and Vector-Borne Diseases" from 25 - 29 August, 2025
13. Hands on training on feed formulations for Large Animals and Poultry 26 February, 2026.
 - 1- Prof. Dr. Sajjad-ur-Rahman, Ph.D. Department of Microbiology, university of agriculture Faisalabad.
Tel: +923336503912
Email: sajjadur@uaf.edu.pk, sajjadur@gmail.com
 - 2- Prof. Dr. Muhammad Zargham Khan, Ph.D. Department of Pathology, university of agriculture Faisalabad.
Tel: +92 300 7649 506
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 - 3- Prof. Dr. Pervez Akhtar Tel: 0333-8975912 Department of Animal breeding and genetics, university of agriculture, Faisalabad.
Email: drpervez_1@yahoo.com

CHRONOLOGICAL LIST OF POSITIONS

Administrative work

1. Worked as **officer in charge (HOD) for three and half years 2018-2021** in department of Microbiology and initiated Four(04)years Bachelors Programme B.Sc (Hons.) and M. Phil degree programs in Applied Microbiology (morning & evening) at University of Veterinary and Animal Sciences, Bahawalpur, Pakistan.
2. Worked as **Principal estate management officer/Security Incharge** till date of CUVAS Bahawalpur.
3. Higher education commission (H.E.C) approved supervisor Ref. HEC/HRD/ASA/2021/89489
4. Committee member for PVMC Accreditation Team Visit dated: 22nd July, 2019 and 8-9 July 2026
5. Committee member accreditation of Higher Education Commission (HEC) visit dated 27, Feb 2019.

Professional Responsibilities

1. Served as convenor **1st "Board of Studies"**, served 3 years as convenor board of studies, Department of Microbiology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan.
2. Serving as member **"Faculty Board of Studies"**, Department of Microbiology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan.
3. Member Pakistan Veterinary Medical council as Veterinarian (Life time) and as faculty member.
4. Committee member in organization of seminar of USAID PEEP session at CUVAS 2019
5. Committee for plantation by WWF dated 14-02-2019
6. Member of admission committee 2019.
7. Member of mess/canteen committee 2-04-2019.

8. Member of Sports Committee for conduction of trials for various admissions at CUVAS
9. Member of the selection committee of B.P.S 16 (Assistants) 2-4-2019
10. Member of the selection committee of drivers B.P.S 04 (2-4-2019)
11. Member of the selection committee of Sweepers B.P.S 01 (2-4-2019)
12. Served as incharge Central diagnostic Laboratory at cholistan university Bahawalpur.

RESEARCH INTEREST AND ACTIVITIES

1. Explored pathological changes induced by different mycotoxins in Japanese quails with using tools of hematology and histopathology.
2. Research experience using PCR and competitive ELISA techniques in Research project of PPR virus molecular characterization and seroprevalence.
3. Worked on different infectious and contagious viral and bacterial diseases on diagnostic and therapeutic aspects.
4. One-year clinical experience as a general veterinary medicine practitioner.
5. Worked on various contagious diseases and on their molecular identification and isolation.
6. Supervised 08 post graduate students.

M. Phil Students supervised

1. A study on post-covid-19 emergence of extensive drug resistance typhoid in south Punjab. Safdar ali (21-cuvas-0143) 2023.
2. Preparation and evaluation of combined oil base vaccine against chicken *Pasteurella multocida* & Avian influenza H5 infection in chicken. Muhammad Ahsan (21-cuvas-0046) 2023.
3. A Comparative study of different molecular methods and their efficacy in monitoring of Hepatitis B and C in Lodran/Bahawalpur region. Maria ahmad 22-CUVAS-0033 (2025)
4. Molecular characterization of *Anaplasma. phagocytophilum* strains by 16srna sequencing from Buffalo specie(*bubalis bubalis*). Nazish Fatima 2019-CU-Micro-027 (2024).
5. Evaluation of mucosal immunity induced by aerosol vaccine against Peste des Petitis Ruminants Virus (PPR) in laboratory animals. Syed M.Adnan 2019-cu-Micro-037 (2025).
6. A study on comparative analysis of pathogenic microorganism (*escherichia coli stx2*) in raw (Jaggery) and refined sugar. Marwa Waheed(2019-CU-MICRO-080) 2025.
7. A study on antibacterial potential of honeybee (*apis mellifera*) venom against *psuedomonas* spp. Mukarma Mahmood 23-CUVAS-0053 (2025).
8. In silico and in vitro studies on antimicrobial potential of papaya (*carica papaya*) against pathogenic *escherichia coli* . Hafsa Munir 2019-CU-MICRO-105.

M. Phil Students supervised as member supervisory committee

1. Evaluation of combined antimicrobial effect of bacteriophages and *cenchrus biflorus* against gram-negative rods clinically isolated from a tertiary care hospital in bahwalpur. Sheraz hussain (23-cuvas-0047)
2. Study of therapeutic effects of cholistani herbaceous plants and bacteriophages against *klabsiella* species. Shumaila khan 23-cuvas-0048
3. Evaluation fmd virus circulation at local farms in dera nawab sahib, cholistan. Minal hussain 23-cuvas-0059.
4. Evaluation of combined antimicrobial potential of bacteriophages and *azadiracta indica* extract against resistant strains of salmonella. Sadia batool 23-cuvas-0060
5. Microbiological and chemical analysis of water samples from government schools of bahawalpur. Nadia tahseen (21-cuvas-0145) 2023.
6. Prevalence of hepatitis b and c in bahawalpur city. Kainat raziq (2020-cuvas-0658)2022.

7. Surveillance of antimicrobial resistance (amr) in hospital sewage discharge in Rahimyar khan city. Pakistan. Maria rasheed (20-cuvas-0723)2022.
8. Surveillance of antimicrobial resistance (AMR) in hospital sewage discharge in Dera ghazi khan. pakistan. (Saima Sajid)20-CUVAS-0679.
9. Evaluation of mucosal immunity induced by aerosol vaccine in PPRV (Shafeeq ur rehman 2019-CU-MICRO-003).
10. Standardization of multiplex real-time pcr for robust molecular detection of Foot-And-Mouth disease (FMD) and Peste des petits ruminants (ppr) viruses. (Muhammad Shan 2019-CU-MICRO-014).
11. Preparation of hyperimmune sera against Parvo virus in laboratory animals. (M. Ahsan 2019-CU-MICRO-020)

External examiner for MPhil thesis review/Viva examination

- 1-Antibacterial activity of ethanolic extract of selected medicinal plants against multidrug resistance *Staphylococcus aureus*. Nabila khan (S21BMMICR3M01009) 2023 Islamia University Bahawalpur.
- 2- Molecular Characterization of Parvovirus from selected districts of Punjab, Pakistan. (S21BMMICR3M01010) 2023 Rizwan. Islamia University Bahawalpur.
- 3-Bacteriological analysis of food borne pathogens from raw chicken meat, 2023. Sahar Fatima (S21BMICR3M01004) Islamia University Bahawalpur.
- 4-Antibacterial activity of *Caloropsis procera* Against *Escherichia Coli*. Muhammad Zaman (S21BMICR3M01005) Islamia University Bahawalpur.
- 5-Thiram induces hemato- biochemical alterations and liver toxicity in broiler chicks via induction of oxidative stress:Ameliorative potential of betaine. Muhammad abdullah Roll No: F22BPATH3M01008
- 6- Investigation of testicular effects of *Moringa oleifera* coated and non-coated vanadium oxide nanoparticles in albino rat. Muhammad Waqas Nazar Roll No. F22BPATH3M01009.
- 7- Prevalence, Incidence, Hematological and Biochemical changes associated with Human *H. pylori* infection in District Dera ghazi Khan. Muhammad Shoaib Rafiq.
- 8- Insights into therapeutic potential of silymarin encapsulated CME@ZIF-8 nanocomposites against CCL4-induced brain and intestinal toxicity in broiler chicks. Abdur Rauf Roll No. F22BPATH3M01001.
- 9-Investigation of hepato- renal effects of *Moringa oleifera* coated and non-coated vanadium oxide nanoparticles in albino rats. Muhammad Ahmad Roll No. F22BPATH3M01006.
- 10- Prevalence, Incidence, Biochemical and Hematological Variations Amongst Human Hepatitis B & C Patients in District Dera Ghazi Khan. Sibtain Azeem.
- 11- Serological Detection of Severe Fever with Thrombocytopenia Syndrome Virus (SFTSV) in Rodents from Bahawalpur Samia Fatima F22BMICR3M01017.
- 12- Antimicrobial effect of fruit extracts of *Lycium barbarum* on *Pseudomonas aeruginosa*. SABAHAT ZAHRA F22BMICR3M01016.
- 13- Prevalence of Anti-Brucella Antibodies in Human and Animal Cohorts of Cholistan. Mohsin Abbas F22BMICR3M01003.
- 14- Role of Vanadium Oxide Nano-particles in Immune Response Associated with Cellular Toxicity in Albino Rats. Muhammad Perwaiz.
- 15- Molecular detection of human astrovirus in children of south Punjab, Pakistan. - Saba Siddique Registration No: S23BMICR3M01006.
- 16- Seroprevalence of *Toxoplasma Gondii* among Patients with Abortion History at Selected Hospitals of Bahawalpur, Pakistan Sidra Anjum F22BMICR3M01005.
- 17- "Inquisition of Immunosuppressive and Neurotoxic effects in Cockerels exposed to environmental relevant concentrations Pymetrozine" Muhammad Anam Sarfaraz Roll No. F23BPATH3M0100.
- 18- "Assessment of Hepato-renal effects induced by sub-lethal doses of Pymetrozine in Male

Cockerels” Muhammad Arbar Tahir (F23BPATH3M01002)

As Reviewer of journals:

- 1- European Journal of Microbiology and Infectious Diseases.
- 2- Asian Journal of Agriculture and Biology.

Publications List:

1-Jalees MM, MZ Khan, MK Saleemi and A Khan, 2011. Effects of cottonseed meal on hematological, biochemical and behavioral alterations in male Japanese quail (*Coturnix japonica*). Pakistan Veterinary Journal 31(3): 211-214 **IMPACT FACTOR 1.255 (Q1)**

2-Jalees MM, I Hussain, M Arshad, G Muhammad, QM Khan and MS Mahmood, 2013. Occurrence of peste des petits ruminants in five districts of Punjab, Pakistan. Pakistan Veterinary Journal 33(2): 165-169. **IMPACT FACTOR 1.255 (Q1)**

3- Jalees MM, I Hussain, M Arshad, G Mohammad and QM Khan. (2016), 14(1): 12-17. Seroprevalence and Molecular Detection of Peste des Petits Ruminants Virus (PPRV) in Different Breeds of Sheep and Goat of Punjab (Pakistan) and Its Status in Gravid Animals. Pakistan journal of life and social sciences. **Y category (Q4)**

4- Waqas Ashraf,¹ Qaiser Mahmood Khan,¹ Ameena Mobeen,¹ Hira Kamal,¹ Muhammad Moazam Jalees,² Muhammad Farooq,¹ Adama Diallo³ and Hermann Unger³ Molecular detection and genotyping characterization of PPRV in various areas of Pakistan, 2007 to 2012. *emphes- animal health* 360 | No. 45/2015.

5- Hussain T, Saleemi MK, Khan MZ, Khan A, Abbas RZ, Bilal Q, Deebe F, Irshad H, Fatima Z, Afzal F, Farooq U, Jalees MM (2019). Toxicopathological effects of endosulfan in female Japanese Quails (*Coturnix japonica*). *Adv. Life Sci.* 7(1) **Y category (Q3)**

6. Maryum Ilyas¹ , Firasat Hussain² , Faisal Siddique² , Waqas Ashraf² , Muhammad Moazam Jalees² , Ihsan Ali³ , Ikram Muhammad⁴ , Abdur Rauf⁵ , Naila Azam⁶ , Siraj Bahadar⁷ and Muhammad Shuaib⁸
Molecular screening for leaf and yellow rust resistance genes in Pakistani wheat varieties. *Bioscience research*, 2021 18(1): 929-935. **Y category (Q Green)**

7. Kashif Rahim¹ *, Ihtesham ul Haq , Firasat Hussain¹ *, Waqas Ashraf¹ , Abdul Basit³ , Muhammad Moazam Jalees¹ , Mushtaq Ahmad Gondal⁴ and Muhammad Shuaib . Increasing prevalence rate and epidemiological study of Typhoid fever in Khyber Pakhtunkhwa, Pakistan. *Bioscience research*, 2021 18(1): 221-228. **Y category (Q Green)**

8. Muhammad Moazam Jalees¹ , Muhammad Khalid Mansoor² , Hafsa Nasir³ , Usman Waheed⁴ , Waqas Ashraf¹ , Firasat Hussain¹ , Mubasher Rauf⁵ , Zeeshan Nawaz⁶ , Riaz Hussain⁷ , Muhammad Kashif Saleemi⁸ , Bilal Aslam⁶ , Imtiaz Ahmad Khan⁹ and Kashif Rahim. Rise in spread of peste des petits ruminants (PPR) lineage associated role of wild animals in Pakistan. *BIOSCIENCE RESEARCH*, 2021 18(1): 000-000. **Y category (Q Green)**

9. Jannat Razaa,^b Tauseef M. Asmata, *Mohammad Zahid Mustafaa, Hina Ishtiaq^c, Kiran Mumtaz^d, Muhammad Moazam Jaleese, Abdul Samada , Arsalan Ahmed Shaha , Salma Khalida , Habib ur Rehman. Contamination of ready-to-eat street food in Pakistan with *Salmonella* spp.: Implications for consumers and food safety. *International Journal of Infectious Diseases* 106 (2021) 123–127. **Impact factor 12.7 (Q1)**

10. Ali Noman, Muhammad Aqeel, Waqar Islam, Noreen Khalid, Noreen Akhtar, Muhammad Qasim, Ghulam Yasin, Mohamed Hashem, Saad Alamri, Omar Mahmoud Al-Zoubi, Muhammad Moazam Jalees, Abdullah Al-sadi, Insects–plants–pathogens: Toxicity, dependence and defense dynamics, *Toxicon* (2021) 197 (87-98). **Impact factor 2.73 (Q3)**
11. Khalid Javed Iqbal¹, Irfan Baboo^{2*}, Arshad Javid³, Noor Khan⁴, Hamid Majeed⁵, Azra Anwer¹, Zahid Farooq², Muhammad Altaf⁶ and Moazam Jalees⁷. Toxicity of Iron-Oxide Nano-Particles on the Hematology of *Cyprinus carpio* Pakistan J. Zool., pp 1-4, 2022. **Y category (Q4)**
12. Riaz Hussain^{1, *}, Syed Ehtisham-ul-Haque², Ishaq Khan³, Ghazala Jabeen⁴, Abu Baker Siddique⁵, Abdul Ghaffar⁶, Rao Zahid Abbas⁷, Qudratullah⁸, Hafiz Muhammad Ishaq⁹, Muhammad Tariq Javed¹⁰, Narmeen Tariq¹¹, Muhammad Taslim Ghori¹², Abdul Qayyum¹², Asghar Abbas⁹, Muhammad Moazzam Jalees¹³ and Gamal Wareth¹⁴, Clinico-hematological, patho-anatomical and molecular based investigation of blackleg disease in cholistani cattle. Pak. J. Agri. Sci., Vol. 58(3), 1017-1025; 2021 **(Q3)**
13. Hussain T, Saleemi MK, Khan MZ, Khan A, Abbas RZ, Bilal Q, Deebea F, Irshad H, Fatima Z, Afzal F, Farooq U, Jalees MM (2019). Toxicopathological effects of endosulfan in female Japanese Quails (*Coturnix japonica*). *Adv. Life Sci.* 7(1) **Y category (Q3)**
14. Hussain SM, M Arshad, S Ali, MM Jalees, F Ahmad, F Bashir, A Sharif, Z Yousaf (202x). Effects of α -tocopherol supplemented corn gluten meal based diet on growth, nutrient digestibility and antioxidant activity of *Catla catla* fingerlings. *Intl J Agric Biol* 00:000–000. **(Q3)**
15. Waqas Ashraf, Qaiser Mahmood Khan¹, Muhammad Moazam Jalees, Ameena Mobeen circulation of peste des petits ruminants virus lineage-iv haplotypes in pakistan: implication for control and eradication. *Pak-Euro Journal of Medical and Life Sciences* DOI: 10.31580/pjmls.v5i1.2437 Vol. 5 No. 1, 2021: pp. 19-30 (2022). **(Q Green)**
16. Moeed Ahmad¹, Abu Baker Siddique¹, Saima Muzammil¹, Muhammad Shafique¹, Zeeshan Nawaz¹, Mohsin Khurshid¹, Muhammad Hidayat Rasool¹, Muhammad Moazam Jalees², Noreen Sarwar³ and Bilal Aslam Occurrence of Hypervirulent *Klebsiella pneumoniae* in Clinical Settings and Lytic Potential of Bacteriophages Against the Isolates. *Jundishapur J Microbiol.* 2022 January; 15(1):e120027 **Impact factor 0.6 (Q4)**
17. Shafiq, M., Khan, M.T., Rauf, M., Raziq, F., Bughio, E., Gondal, M.A., Jalees, M.M. and Liaqat, S. (2022). Comparative Evaluation of Hatching Traits in Four Phenotypes of Naked Neck Chicken. *Indian Journal of Animal Research*. DOI: 10.18805/IJAR.BF-1449. **Impact factor 0.4 (Q2)**
18. Abbas R, Nawaz Z, Siddique AB, Aslam R, Rafique A, Zahoor MA, Qamar MU, Ahmad MZ, Jalees MM, Qasim M and Alsayeqh AF, xxxx. Molecular detection of biofilm production among multidrug resistant isolates of *Pseudomonas aeruginosa* from meat samples. *Pak Vet J.* **Impact factor 2.3 (Q1)**
19. Safdar Ali¹, Muhammad Moazam Jalees, Waqas Ashraf, Maimona Sadia, Rafia Anwar, Saleha Zafar, Tariq Mahmood, Muhammad Rizwan, Abdul Mannan. (2024) Emergence of extensive drug resistance typhoid in hospitalized covid-19 patients in south punjab, Pakistan. 31(2): JPTCP (753-763). DOI: 10.53555/jptcp.v31i2.4393.
20. Muhammad Rizwan, Waqas Ashraf, Muhammad Moazam Jalees, Rafia Anwar, Hafiz Muhammad Siddiq, Bushra Nizam, Firasat Hussain, Saleha Zafar, Noman Ahmed, Muhammad Hanzala Imran, Safdar Ali. (2024) A study on extended-spectrum β -lactamase genes from clinically isolated gram-negative bacteria in Bahawalpur. 31 (2) (2024): JPTCP (2008 – 2023). DOI: 10.53555/jptcp.v31i2.4571.

- 21.** Safdar Ali , Muhammad Moazam Jalees, Waqas Ashraf , Maimona Sadia, Qudratullah, Rafia Anwer, Mubasher Rauf, Hafsa Nasir. (2024) Medicinal use of plants' extracts against clinical isolates of methicillin-resistant staphylococcus aureus. 7(1), 2024: pp. 67-78. DOI: 10.31580/pjmls.v7i1.2877.
- 22.** Ali S, Sultan R, Jalees MM, Ashraf W.(2023) Rh-Positive Patients Having Anti-D Antibody with Cross Match Compatible with Rh-Positive. Clin Case Rep Int. 2023; 7: 1502.
- 23.** Shafeeq Ur Rehman, Waqas Ashraf, Muhammad Moazam Jalees, Tariq Abbas, Humera Nazir, Jahanzaib, Muhammad Arslan Akbar, Mubasher Rauf, Shabir Ahmad, Laiba Qadir, Muhammad Shan, Faizan Ali. A Meta-Analysis of the Preventive Potential of Mucosal Vaccines for Foot and Mouth Disease J. Micro. Sci. Vol. 4(2), 212-221, 2025.