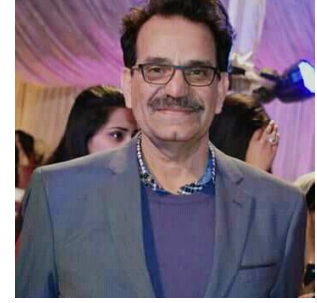


## CURRICULUM VITAE

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**Education**

| Year | Degree Obtained and Institution Attended   |
|------|--|
| 2008 | Post Doctorate Institute for Animal Health, Compton, UK  |
| 1998 | Doctor of Philosophy (PhD) Veterinary Microbiology, College of Veterinary Sciences Lahore, University of Agriculture Faisalabad, Pakistan.     |
| 1988 | Master of Science, M.Sc (Hons.) Veterinary Microbiology, College of Veterinary Sciences Lahore, University of Agriculture Faisalabad, Pakistan |
| 1986 | Doctor of Veterinary Medicine (DVM), College of Veterinary Sciences Lahore, University of Agriculture Faisalabad, Pakistan                     |
| 1982 | F.Sc (Premedical) Govt. Degree College Sahiwal.  |
| 1979 | Matriculation (Science Group) Govt. M.C high School, Mian Channu   |

## TITLE OF POST GRADUATE STUDIES

- M.Sc. (Hons.);** Cultural evidence of organism and specific antibody levels of *Pastuerella multocida* carriers in buffaloes.
- Ph.D;** Isolation and characterization Avian Influenza Virus
- Post Doctorate;** Molecular characterization and phylogenesis of H9 from Pakistan

## Honors and Awards

- Nominated for Civil award (Tamgha-e-Imtiaz) by Government of Pakistan for providing services during Coronavirus outbreak in Pakistan

## PROJECTS SUBMITTED AND COMPLETED

| Sr. # | Title of Project (attach one page summary of each project)   | Initiation date | Completion date | Amount             | Funding Agency  | Remarks/ As PI or Co-PI etc. |
|-------|--|-----------------|-----------------|--------------------|---|------------------------------|
| 1     | Preparation and evaluation of tick vaccine   | 2002            | 2004            | --                 | Pakistan Science Foundation (PSF/R&D, CDY-ST/P/LPRI/Bio(6)) | PI/Comp                      |
| 2     | Study of hemoglobinuria complex  | 2004            | 2005            | --                 | European Union  | PI/Comp                      |
| 3     | Transboundary Ecosystem Health in the Pamirs, Pakistan   | 2011            | 2012            | 74,980 US \$       | American Association for the Advancement of Science (AAAS)  | PI/Comp                      |
| 4     | Implementation of Bio-risk Management of Dengue Vectors in Lahore, Pakistan  | 2012            | 2014            | 142,000 US\$       | BEP, USA  | PI/Comp                      |
| 5     | A metagenomic approach to unbiased identification of pathogens endemic to Pakistan 4367-UVAS-DTRA-0081   | 2010            | 2015            | 5, 68,000 US\$     | Defense Threat Reduction Agency (DTRA), USA                 | Co-PI/Comp                   |
| 6     | Development of Vaccine for the Control of buffalo and cattle Calf Diarrhoea  | 2011            | 2014            | 14.130 Million PKR | Punjab Agriculture Research Board (PARB)                    | PI/Comp                      |
| 7     | Spatial Ecology and Epidemiology of Soil borne Human and Animal Bacterial Pathogens and its Public Health Significance in Pakistan-4368-UVAS-DTRA-0080 | 2010            | 2015            | 3, 60,000 US\$     | Defense Threat Reduction Agency (DTRA), USA                 | Co-PI/Comp                   |
| 8     | Biosafety and Biosecurity Capacity Building Measures in Pakistan   | 2012            | 2014            | 142,000 US\$       | BEP, USA  | PI/Comp                      |
| 9     | A pilot study for the Prevention and control of Rabies   | 2014            | 2015            | 12,00000 PKR       | WHO   | PI/Comp                      |
| 10    | Viral Hemorrhagic Fever disease Surveillance, diagnostic testing and laboratory capacity building in Pakistan  | 2014            | 2017            | 120,000 US\$       | NAMRU-3 Egypt   | PI/Comp                      |
| 11    | Combating avian influenza through systematic analysis of antigenic drift, genetic variation, and development of  | 2014            | 2018            | 32.5 Million PKR   | BBSRC, UK   | PI/Comp                      |

|    |  |      |      |                   |                             |              |
|----|--|------|------|-------------------|-----------------------------|--------------|
|    | novel diagnostic tools and vaccines  |      |      |                   |                             |              |
| 12 | The Development & Evaluation of Thermostable Vaccine against Peste Des Pestits Ruminants   | 2014 | 2016 | 2.015 Million PKR | Pakistan Science Foundation | PI/Comp      |
| 13 | Sero-Epidemiology and Molecular Characterization of Blue Tongue Virus in Pakistan  | 2014 | 2016 | 4.97 Million PKR  | HEC                         | PI/Comp      |
| 14 | Serological Evidences for Emerging Diseases at the Level of Human and Animal Interface   | 2015 | 2017 | 4.5 Million PKR   | CRDF                        | PI/Comp      |
| 16 | Deciphering the role of Bats as natural reservoir for zoonotic and emerging pathogens of public health (Project ID: GTR3-15-61876-0). Value    | 2015 | 2017 | 4.5 Million PKR   | CRDF                        | Co-PI/Comp   |
| 17 | Indirect Elisa based evaluation of indigenous rabies vaccine in Pakistan by IM administration  | 2016 | 2017 | 0.555Million PKR  | PMRC                        | PI/Comp      |
| 18 | Analyzing the spread of Anthrax in Pakistan and Jordan   | 2018 | 2021 | 70 Million PKR    | DTRA                        | PI/Completed |
| 19 | Reducing the Economic and Zoonotic Impact of Avian Influenza (REZIAI): delivering novel vaccines and diagnostics from laboratory to the field. | 2019 | 2021 | 11.2 Million PKR  | BBSRC                       | PI/Completed |
| 20 | Development and preclinical studies of Inactivated COVID-19 Vaccine  | 2021 | 2022 | 100 million PKR   | Punjab Government           | PI/Completed |
| 21 | Optimization of Smart Surveillance for Smart Lockdown Strategy Through Monitoring SARS COV-2 From Sewage Water                                 | 2020 | 2021 | 16.9 million PKR  | Punjab Government           | PI/Completed |
| 22 | Development of inactivated Lumpy Skin Disease Virus (LSDV): An interdisciplinary approach towards control of LSDV in Pakistan                  | 2023 | 2025 | 12.02 million PKR | Pakistan Science Foundation | PI/Ongoing   |
| 23 | Serological investigation of influenza A/H9N2 virus in goats and sheep in Pakistan   | 2023 | 2024 | 50,000 SGD        | SDGHI                       | PI/Ongoing   |

### Training Attended

- **Advanced Mosquito Surveillance and identification Molecular Techniques for Dengue Detection in Mosquitoes** Organized by **Department of Vector Biology**

- Research Program at U.S Naval Medical Research Unit no. 3 Cairo, Egypt** from 24-28 March, 2013.
- **Molecular and Serological tools for Dengue and CCHF Diagnostics** Organized by **Department of Virology at U.S Naval Medical Research Unit no. 3 Cairo, Egypt** from 16-20 June, 2013.
  - **Master Trainer's Course in Biorisk Management at Sandia** Organized by **Sandia National laboratories** at Albuquerque, New Mexico, USA from Nov. 28-Dec. 7, 2011
  - **Genome analysis using modern bioinformatics tools** Organized by **Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, USA** from July 25 - August 06, 2011.
  - **Log Frame Analysis and Microsoft Project, MPDD, Lahore, (2009)**
  - Training in **hematology and chemistry analyzer UVAS** Lahore, (2006)
  - Training in **power point presentation** In service training center, Lahore (2005).
  - IAEA/RCA Regional training on “**Nuclear and related methodologies for Quantification of tannins in shrub and tree leaves, agro-industrial by- products and other new feed resources** at NIAB Faisalabad (2003)
  - **Post graduate training course on nuclear and other advance techniques** in agriculture and biological research NIAB, Faisalabad (1999).

#### **Workshops Attended**

- **International Engagement: Responsible Bioscience for a Safe and Secure Society Workshop Series** Organized by **American Association for the Advancement of Science** at Tunis, Tunisia from October 31 to November 1, 2011
- Consultative Workshop on **Tick Born Diseases, its Complication & Control Measures** Organized by **Directorate of Animal Disease Reporting & Surveillance** on 10th Oct, 2011
- National workshop on the **lactoperoxidase system of milk preservation in Pakistan** Organized by **Ministry of Food, Agriculture and Livestock and FAO** (2003).

#### **Conference/Seminar Attended**

- National consultation for developing the anti-microbial resistance (AMR) national action plan (NAP) for Pakistan organized by **WHO** on 27<sup>th</sup> February -3<sup>rd</sup> March 2018.
- International Workshop on Biosafety Laboratory Management and Experimental Techniques organized by **Faculty of Sciences, Wuhan, China** on 18-28 October 2017.
- International conference on recent advances in clinical research organized by **Department of physiology, UVAS** on 19-20 December 2017.
- **8<sup>th</sup> Asian Buffalo Conference** at Istanbul
- Conference on “**Transboundary Animal Diseases in Pamirs and Outskirts**”, Dushanbe, Tajikistan from 5-7 March, 2012.

- **USAHAs conference** in Buffalo, New York Organized by **USAHA at Buffalo NY, USA** from Sep 28-Oct 5, 2011.
- **First International Biosafety Conference** Organized by **Pakistan Biological Safety Association** at Karachi, Pakistan on 19th November 2011

### **Training/Workshops Organized and Conducted**

- Organized an International training course on **“Poultry Viral Diagnostics”** funded by Royal Veterinary College, University of London, UK held on 05<sup>th</sup> - 12<sup>th</sup> March, 2018 at UVAS, Lahore.
- Organized **“Three-day workshop on “Advanced Lab Techniques”** at Department of Microbiology UVAS, Lahore on 10-12 January 2018.
- Organized an International Workshop on **“Devising Strategies to Control Viral hemorrhagic Fever in Pakistan”** funded by CRDF, Global, held on 14<sup>th</sup> -16<sup>th</sup> November, 2016 at UVAS, Lahore
- Organized an International Seminar on **“Emerging Pathogens and BSL-III Facility”** in a joint collaboration of Pirbright Institute UK, held on 25th October, 2016 at UVAS, Lahore
- Organized an International Workshop on **“Combating Avian Influenza through Systemic Analysis of Antigenic Drift, Genetic Variation and Development of Novel Diagnostic Tools and Vaccines”** in a joint collaboration of Pirbright Institute UK, funded by ZELS, held on 29<sup>th</sup> April – 3<sup>rd</sup> May, 2016 at UVAS, Lahore
- Organized an International Workshop on **“Master Trainer Program for laboratory Biosafety and Risk Management”** in a joint collaboration with Institute of Public Health, Lahore and UVAS, funded by NAMRU-3 Egypt, held on 7<sup>th</sup> -12<sup>th</sup> September, 2015 at UVAS, Lahore
- Organized a National Workshop on **“Controlling Laboratory Biorisks”** in a joint collaboration with Institute of Public Health, Lahore and UVAS, funded by NAMRU-3 Egypt, held on 11-13<sup>th</sup> May, 2015 at IPH, Lahore
- Organized a **“Consensus Building Workshop on Biorisk Management”** in a joint collaboration with Institute of Public Health, Lahore and UVAS, held on 3<sup>rd</sup> March, 2015 at IPH, Lahore
- National Awareness Conference on **“Tuberculosis: a Zoonosis”** Organized by Quality Operations Laboratory, held on 16<sup>th</sup> April, 2013 at UVAS, Lahore.
- National workshop on **“National Workshop on Recombinant Technologies in Vaccine Development”** Organized by Institute of Biochemistry & Biotechnology, held on 11<sup>th</sup> April, 2013 at UVAS, Lahore.
- National workshop on **“Newcastle Disease: Prevention and control in Pakistan”** Organized by Institute of Biochemistry & Biotechnology, held on 5th November, 2012 at UVAS, Lahore.
- Training conducted as Principle organizer on **“Laboratory Diagnostic Techniques”** for ADIO’S & VO’S of DADRS, L&DDD, Punjab at Quality Operation Laboratory, UVAS, Lahore from 12-14 June, 2012
- Training conducted as Principle organizer on **“Advanced Diagnostic Techniques”** for ADIO’S & VO’S of DADRS, L&DDD, Punjab at Quality Operation Laboratory, UVAS, Lahore from 6-8 June, 2012

- Training conducted as Principle organizer on “**Molecular Diagnosis & Analysis of Livestock Diseases**” for ADIO’S & VO’S of DADRS, L&DDD, Punjab at Quality Operation Laboratory, UVAS, Lahore from 7-11 May, 2012
- Training conducted as Principle organizer on “**Controlling Laboratory Biorisk**” at Quality Operation Laboratory, UVAS, Lahore from 4-5 Jan, 2012
- Training conducted as Principle organizer on “**Controlling Laboratory Biorisk**” at Quality Operation Laboratory, UVAS, Lahore from 18-19 Jan, 2012
- Training conducted as Principle organizer on “**Controlling Laboratory Biorisk**” at Quality Operation Laboratory, UVAS, Lahore from 23-24 Jan, 2012
- Training conducted as Principle organizer on “**Advanced Diagnostic & Control of Poultry Diseases**” at University Diagnostic Laboratory, UVAS, Lahore from 7-12 March, 2011
- Training conducted as Principle organizer on “**Lab Assisted Disease Diagnostic Techniques**” at University Diagnostic Laboratory, UVAS, Lahore from 12-18 April, 2011
- Training provided as Resource Person to ADIO’S & VO’S of DADRS, L&DDD, Punjab on “**Advanced Laboratory Techniques for Veterinary Disease Diagnostics**” at University Diagnostic Laboratory, UVAS, Lahore from May 17-21, 2010
- Training provided as Resource Person to ADIO’S & VO’S of DADRS, L&DDD, Punjab on “**Basic Disease Diagnostics in Livestock and Poultry**” at University Diagnostic Laboratory, UVAS, Lahore from April 5-10, 2010
- Training provided as Resource Person to SROs, VOs of Poultry Research Institute (PRI), L&DDD, Punjab on “**Advanced Diagnostics and Control of Poultry Diseases**” at University Diagnostic Laboratory, UVAS, Lahore from March 15-20, 2010

**Advisory Services rendered, if any:**

- In participation, made Quality Operations Laboratory, internationally Accredited to ILAC through ISO 17025 Certification by PNAC
- Implementation of Lab Management System (ISO 17025) for sustainability of Quality Operations Laboratory.

**Name of Membership of Societies:**

| Sr. No | Society                                | Membership Nature               | National/International |
|--------|--|---------------------------------|------------------------|
| 1      | Pakistan Veterinary Medical Council    | Lifetime                        | National               |
| 2      | Pakistan Biological Safety Association | Lifetime                        | National               |
| 3      | Punjab Public Service Commission       | Selection Board Member (Com-VI) | National               |

**PUBLICATIONS:**

| <b>Sr. no</b> | <b>Title</b>   | <b>Authors</b>  | <b>Journal</b>                               | <b>Volume</b> | <b>IF (238.056)</b> |
|---------------|--|---|--|---------------|---------------------|
|               | <b>Publication of Year 2023</b>  |   |  |               |                     |
| <b>1</b>      | One Health Assessment of Bacillus anthracis Incidence and Detection in Anthrax-Endemic Areas of Pakistan   | Sardar, N.; Aziz, M.W.; Mukhtar,N.; <b>Yaqub,T.</b> ; Anjum, A.A.; Javed,M.; Ashraf, M.A.; Tanvir, R.; Wolfe, A.J.; Schabacker, D.S.; S.F; M.A.W; A.A Amin; M.Z, Shabbir; <b>2023</b> | Microorganism                                | 11(10), 2462  | <b>4.926</b>        |
| <b>2</b>      | Molecular Characterization and Selection of Indigenous SARS-CoV-2 Delta Variant for the Development of the First Inactivated SARS-CoV-2 Vaccine of Pakistan. | Aziz, M.W., Mukhtar,N., Anjum,A.A., Mushtaq, M.H., Shahid, M.F., Ali, M., Shabbir, M.A.B., Ali, M.A., Nawaz, M. and <b>Yaqub, T.</b> , 2023.  | Vaccines                                     | 11(3), p.607. | <b>4.961</b>        |
| <b>3</b>      | Temporal study of wastewater surveillance from September 2020 to March 2021: an estimation of COVID-19 patients in Lahore, Pakistan                          | MA Ashraf, M Nawaz, A Asif, MA Ali, A Mehmood, MW Aziz,MZ Shabbir, N Mukhtar, M.A.B. Shabbir, <b>Yaqub, T.</b> , 2023.  | Environmental Science and Pollution Research | 1-8           | <b>5.19</b>         |
| <b>4</b>      | Genomic Diversity and Evolution of SARS-CoV-2 Lineages in Pakistan   | MW Aziz, N Mukhtar, AA Anjum, MH Mushtaq, MA Ashraf, A Nasir, MF Shahid, M Nawaz, MZ Shabbir, N Sarwar, R Tanvir, <b>Yaqub, T.</b> , 2023   | Viruses                                      | 15(7),p. 1450 | <b>5.048</b>        |
| <b>5</b>      | The Fabrication of Gold–   | Zubair,M.,  | Crystals                                     | 13(2), p.340. | <b>2.670</b>        |

|          |   |  |   |                             |              |
|----------|---|--|---|-----------------------------|--------------|
|          | Silver Bimetallic Colloids by Microplasma: A Worthwhile Strategy for Counteracting the Surface Activity of Avian Influenza Virus.   | Rafique, M.S., Khalid, A., <b>Yaqub, T.</b> , Shahid, M.F., Alomar, S.Y. and Shar, M.A., 2023.   |   |                             |              |
|          | <b>Publication of Year 2022</b>   |  |   |                             |              |
| <b>1</b> | Mucormycosis an added burden to Covid-19 Patients: An in-depth Systematic Review.   | Shah, N.N., Khan, Z., Ahad, H., Elderderly, A.Y., Alomary, M.N., Atwah, B., Alhindi, Z., Alsugoor, M.H., Elkhalfifa, A.M., Nabi, S. Bashir, S.M., <b>Yaqub, T.</b> , Rather, G.A., Ansari, M.A., 2022. | Journal of Infection and Public Health. | 15, no 11 (2022): 1299-1314 | <b>7.537</b> |
| <b>2</b> | CRISPR-Cas system: an adaptive immune system's association with antibiotic resistance in Salmonella enterica serovar enteritidis.   | Haider, M.Z., Shabbir, M.A.B., <b>Yaqub, T.</b> , Sattar, A., Maan, M.K., Mahmood, S., Mehmood, T. and Aslam, H.B., 2022.  | BioMed Research International           |                             | <b>3.246</b> |
| <b>3</b> | Integration of RT-LAMP and Microfluidic Technology for Detection of SARS-CoV-2 in Wastewater as an Advanced Point-of-care Platform. | Donia, A., Furqan Shahid, M., Hassan, S.U., Shahid, R., Ahmad, A., Javed, A., Nawaz, M., <b>Yaqub, T.</b> and Bokhari, H., 2022.   | Food and Environmental Virology         | 14(4), pp.364-373.          | <b>4.034</b> |
| <b>4</b> | The transmission of human mitochondrial DNA in four-generation pedigrees.   | Liu, Q., Iqbal, M.F., <b>Yaqub, T.</b> , Firyal, S., Zhao, Y., Stoneking, M. and Li, M., 2022.   | Human Mutation,                         | 43(9), pp.1259-1267.        | <b>4.7</b>   |
| <b>5</b> | Renessans Helps in Early Clearance of SARS-CoV-2: In-Vivo Activity of the Iodine Complex in Rhesus macaque                          | Nawaz, M., Ashraf, M.A., Ali, M.A., Shabbir, M.Z.,   | Life                                    | 12(9), p.1424.              | <b>3.253</b> |



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|---|--|---|---|----------------------------|--------------|
|   |  | Shabbir, M.A.B.,<br>Altaf, I., Raza, S.,<br>Rafique, S.,<br>Hassan, S.,<br>Sardar, N. and<br><b>Yaqub, T.</b> , 2022.   |   |                            |              |
| 6 | Synthesis of Gold-PVP Nanostructured Composites by Microplasma: A Test to Study Their Inhibiting Tendency of Avian Influenza Virus Activity                            | Zubair, M.,<br>Rafique, M.S.,<br>Khalid, A.,<br><b>Yaqub, T.</b> ,<br>Alomar, S.Y. and<br>Gohar, H., 2022.  | Applied Sciences                                      | 12(11), p.5352.            | <b>2.838</b> |
| 7 | Activity of plant essential oils against antibiotic resistant Enterococcus faecalis isolated from diarrheic children.  | Ali, T., Sarwar,<br>A., Anjum, A.A.,<br><b>Yaqub, T.</b> ,<br>Zeshan, B., Ali,<br>M.A. and Sattar,<br>M.M.K., 2022.   | Pakistan Journal<br>of<br>Pharmaceutical<br>Sciences, | 35(3).                     | <b>0.863</b> |
| 8 | Rate of Multiple Viral and Bacterial CoInfection (s) in Influenza A/H9N2–Infected Broiler Flocks.  | Amin, F.,<br>Mukhtar, N.,<br>Aslam, A.,<br>Sheikh, A.A.,<br>Sultan, B.,<br>Hussain, M.,<br>Shehzad, R., Ali,<br>M., Shahid, M.F.,<br>Aziz, M.W. and<br><b>Yaqub, T.</b> , 2022.                                   | Avian Diseases,                                       | 66(2), pp.197-<br>204.     | <b>1.734</b> |
|   | <b>Publication of Year 2021</b>  |   |   |                            |              |
| 1 | Genetic Characterization of Highly Pathogenic Avian Influenza A (H5N8) Virus in Pakistani Live Bird Markets Reveals Rapid Diversification of Clade 2.3. 4.4 b Viruses. | Ali, Muzaffar,<br><b>Tahir Yaqub</b> ,<br>Muhammad<br>Furqan Shahid,<br>Foong Ying<br>Wong, Nadia<br>Mukhtar,<br>Muhammad<br>Naeem, Pauline<br>Lam, Jayanthi<br>Jayakumar, Gavin<br>JD Smith, and<br>Yvonne CF Su | Viruses   | 13, no. 8 (2021):<br>1633. | <b>5.048</b> |
| 2 | An in vitro antiviral activity of iodine complexes against SARS-CoV-2.   | Altaf, I., Nadeem,<br>M. F., Hussain,<br>N., Nawaz, M.,<br>Raza, S., bakr   | Archives of<br>Microbiology                           | , 1-7                      | <b>2.552</b> |

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|----------|--|---|---|------------------------|--------------|
|          |  | Shabbir, M. A., ...<br>& <b>Yaqub, T</b>  |   |                        |              |
| <b>3</b> | Seroprevalence of contagious bovine pleuropneumonia in cattle of Punjab, Pakistan and assessment of risk factors.                        | Anjum, A.,<br>Aslam, A.,<br>Akhtar, R.,<br>Yaqub, T.,<br>Naseer, J.,<br>Mushtaq, A.,<br>Munir, M.A. and<br>Khan, A.U.,<br>2021.                             | Indian Journal of<br>Animal Research                      | 55(1), pp.101-<br>104. |              |
| <b>4</b> | Prevalence and phylogenetic analysis of Crimean-Congo hemorrhagic fever virus in ticks collected from Punjab province of Pakistan. 2021. | Shahid, M.F.,<br><b>Yaqub, T.</b> , Ali,<br>M., ul-Rahman,<br>A., Bente, DA.,   | Acta Tropica  |                        | <b>2.555</b> |
| <b>5</b> | Analysis of the Spike Proteins Suggest Pangolin as an Intermediate Host of COVID-19 (SARS-CoV-2). 2021                                   | Raza, S., Navid,<br>M.T., Zahir, W.,<br>Khan, M.N.,<br>Awais, M.,<br><b>Yaqub, T.</b> ,<br>Rabbani, M.,<br>Rashid, M.,<br>Saddick, S. and<br>Rasheed, M.A., | International<br>Journal of<br>Agriculture and<br>Biology | 25(3)                  | <b>0.822</b> |
| <b>6</b> | Bm86 Genetic Diversity of Indigenous Tick Population from Punjab Province Pakistan. 2021   | Rasool, M.F.,<br>Ahmad, N.,<br>Akbar, H.,<br><b>Yaqub, T.</b> ,<br>Ashraf, K.,<br>Anjum, A.A.,<br>Hafeez, M.A. and<br>Ali, M.M.,                            | Kafkas<br>Universitesi<br>Veteriner<br>Fakultesi Dergisi  | 27(2).                 | <b>0.43</b>  |
| <b>7</b> | Molecular Detection of Colistin Resistance Gene (MCR-1) in E. coli Isolated from Cloacal Swabs of Broilers.                              | Zulqarnain, M.,<br>Sarwar, N.,<br>Anjum, A.A.,<br>Firyal, S., <b>Yaqub,<br/>T.</b> and Rabbani,<br>M.,  | Pakistan<br>Veterinary<br>Journal                         |                        | <b>1.4</b>   |
| <b>8</b> | Comparing the Efficacy of Multi-Source Serum for in vitro Culture of Equine Achilles Tendon Fibroblasts. 2021.                           | Shehzadi, S.,<br>Awan, S.J.,<br>Javed, M.,<br>Nadeem, A. and<br><b>Yaqub, T.</b> ,  | Pakistan Journal<br>of Zoology,                           | 53(2), p.769.          | <b>0.790</b> |
| <b>9</b> | can we develop oncolytic sars-cov2 to specifically target  | Donia, A.,<br>Bokhari, H.,  | Therapeutic<br>Advances in                                |                        | <b>8.168</b> |

|          |   |   |  |                |                   |
|----------|---|---|--|----------------|-------------------|
|          | cancer cells?   | <b>Yaqub, T.</b> , Ali, I., Nawaz, M., Shahid, R.,  | Medical Oncology                             |                |                   |
|          | <b>Publications of Year 2020</b>  |   |  |                |                   |
| <b>1</b> | Treatment and control strategies for COVID-19: Prospects and possibilities. 2020.   | Khan, K. and <b>Yaqub, T</b>  | Pakistan Journal of Pharmaceutical Sciences, | 33(4).         | <b>(IF:0.596)</b> |
| <b>2</b> | Sentinel surveillance of selected veterinary and public health pathogens in camel population originating from Southern Punjab province, Pakistan. 2020. | Shabbir, M.Z., Sohail, T., Ul-Rahman, A., Abbas, T., Ali, Q., Rehman, Z.U., Khan, I., <b>Yaqub, T.</b> , Muhammad, J., Khan, S.A. and Imran, M.S.,            | Acta tropica                                 | 205, p.105435  | <b>(IF:2.555)</b> |
| <b>3</b> | Effect of lactic acid spray on microbial and quality parameters of buffalo meat. 2020.  | Manzoor, A., Jaspal, M.H., <b>Yaqub, T.</b> , Haq, A.U., Nasir, J., Avais, M., Asghar, B., Badar, I.H., Ahmad, S. and Yar, M.K.,                              | Meat science                                 | 159, p.107923. | <b>(IF:3.126)</b> |
| <b>4</b> | Sero-Epidemiological Survey of Crimean-Congo Hemorrhagic Fever among the Human Population of the Punjab Province in Pakistan.                           | Shahid, M.F., Shabbir, M.Z., Ashraf, K., Ali, M., Yaqub, S., Ul-Rahman, A., Sardar, N., Mukhtar, N., Tahir, Z. and <b>Yaqub, T.</b> ,                         | Virologica Sinica,                           |                | <b>(IF:3.242)</b> |
| <b>5</b> | Tickborne Crimean-Congo hemorrhagic fever virus in humans and livestock, Pakistan. 2020   | Zohaib, A., Saqib, M., Athar, MA., Hussain, MH., Sial, A-u-R., Tayyab, MH., Batool, M., Sadia, H., Taj, Z., Tahir, U., Jakhrani, MY., Tayyab, J., Kakar, MA., | Emerging infectious diseases                 |                | <b>(IF:7.422)</b> |

|           |  |   |   |                        |                   |
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|           |  | Shahid, MF.,<br><b>Yaqub, T.</b> ,<br>Zhang, J., Wu,<br>Q., Deng, F.,<br>Corman, VM.,<br>Shu, S., Khan, I.,<br>Shi, ZL.,                |   |                        |                   |
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| <b>7</b>  | Prevalence, Molecular Epidemiology and Drug Resistance Pattern of Human Immunodeficiency Virus Type 1 among Injecting Drugs Users in Lahore, Pakistan. | Yaqub, S.,<br><b>Yaqub, T.</b> ,<br>Shabbir, M.Z.,<br>Nadeem, A.,<br>Rahman, A.,<br>Shahid, M.F.,<br>Tahir, Z.,<br>Mukhtar, N.,<br>2020 | Pakistan Journal<br>of Zoology,                       | pp. 1-10.              | <b>(IF:0.790)</b> |
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| <b>5</b>  | Cloning and expression of NS3 gene of Pakistani isolate type 2 dengue virus.   | Yasmin, F.,<br><b>Yaqub, T.</b> ,<br>Idrees, M.,<br>Shahzad, W.,<br>Hashmi, A. S.,<br>Aqil, K., Umar, S. (2018).     | Journal of Veterinary Research,      | 62(1), 17-26.  | <b>(IF:0.811)</b>       |
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| 2 | A novel multiplex PCR assay for simultaneous detection of nine clinically significant bacterial pathogens associated with bovine mastitis | Ashraf, A., Imran, M., <b>Yaqub T.</b> , Tayyab, M., Shehzad, W. and Thomson, P.C., 2017.  | Molecular and Cellular Probes         | 33, pp.57-64    | (IF:1.869) |
| 3 | Detection of selected arboviral   | <b>Yaqub T.</b>  | Acta tropica                          | 176, pp.34-38   | (IF:2.509) |

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| <b>9</b>  | Molecular Characterization of Bovine Rotaviruses in Pakistan   | Mukhtar, N., T. Yaqub, A. Masood, H. Javed, J. Nazir, A. Aslam, A. Ali, M. Javed, A. Nadeem, T. Hussain, Z. Tahir, H. Aslam       | <b>Jundishapur J.</b> | DOI: 10.5812/jjm.41001                           | <b>1.233</b> |
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| 13 | Evaluation of cross protection against Avian Influenza Virus (AIV) and Newcastle Disease Virus (NDV) in broiler chickens after vaccination in Pakistan | M.Ali, B.<br>Muneer, <b>T.</b><br><b>Yaqub</b> , S.<br>Rehmani and M.<br>Naeem   | J. Anim. Plant.<br>Sci.,       | 26(2): 431-436    | <b>0.407</b> |
| 14 | Conventional and Molecular Detection of Infectious Bursal Disease Virus in Broiler Chicken.  | Zahid. B., A.<br>Aslam, Y. Tipu,<br><b>T. Yaqub</b> and T.<br>Butt   | Pakistan J. Zool.,             | 48(2): 601-603.   | <b>0.547</b> |
| 15 | Cox-2 And Brcal Have Altered Expression Profile In Different Canine Tumors.  | H. Sadia, S.<br>Manzoor, A.<br>Wajid, M.<br>Tayyab, S. Firyal,<br>A. S. Hashmi, <b>T.</b><br><b>Yaqub</b> , Z. U.<br>Mughal, A. K.   | J. Anim. Plant.<br>Sci.,       | 26(1): 103-115.   | <b>0.407</b> |

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| 16 | Identification of two novel ALS2 mutations in infantile-onset ascending hereditary spastic paraplegia.                           | Daud, S., N.<br>Kakar, I.<br>Goebel, A.S.<br>Hashmi, T.<br><b>Yaqub, G.</b><br>Nürnberg, P.<br>Nürnberg, D.J.<br>Morris-<br>Rosendahl, M.<br>Wasim, A.E.<br>Volk, C.<br>Kubisch, J.<br>Ahmad & G.<br>Borck   | Amyotroph<br>Lateral Scler<br>Frontotemporal<br>Degener, | DOI:<br>10.3109/2167842<br>1.2015.1125501 | <b>2.982</b> |
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| 18 | Prevalence and distribution of soil-borne zoonotic pathogens in Lahore district of Pakistan.                                     | MZ. Shabbir, T.<br>Jamil, M. Asad,<br>A. Ali, A.<br>Ahmad, M.<br>Naeem, M. H.<br>Chaudhary, M.<br>Bilal, M.A. Ali,<br>K. Muhammad,<br><b>T. Yaqub, A.</b><br>Bano, A.I. Mirza,<br>M.A.B. Shabbir,<br>W.R. McVey, K.<br>Patel, S.<br>Francesconi,<br>B.M. Jayarao and<br>M. Rabbani | Frontiers in<br>Microbiology                             | DOI:<br>10.3389/fmicb.20<br>15.00917      | <b>4.019</b> |
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|    | molecular dynamics simulations.   | Awan, S. Firyal, <b>T. Yaqub</b> , M.A. Siddiqui  |  |                 |              |
| 20 | Isolation and Characterization of Phytase Producing Bacterial Isolates from Soil.   | G. Aziz, M. Nawaz, A. A. Anjum, <b>T. Yaqub</b> , Mansur-ud-din Ahmed, J. Nazir, S. U. Khan and K. Aziz                   | The Journal of Animal & Plant Sciences | 25 (3): 771-776 | <b>0.407</b> |
| 21 | Isolation, characterization and effect of auxin producing bacteria on growth of triticumaestivum.                               | K. Aziz, M. Nawaz, J. Nazir, A.A. Anjum, <b>T. Yaqub</b> , M.U.D. Ahmad, M.U. Rehman, G. Aziz, M. Khan                    | J. Anim. Plant. Sci.                   | 25(4):1003-1007 | <b>0.407</b> |
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| 23 | Presence of Virulent Newcastle Disease Virus in Vaccinated Chickens Farms in Pakistan.  | Rehmani. SF, A. Wajid, T. Bibi, B. Nazir, N. Mukhtar, A. Hussain, NA. Lone, <b>T. Yaqub</b> and CL Afonso                 | Journal of Clinical Microbiology       | 53(5):1715-8    | <b>4.054</b> |
| 24 | Molecular evidence shows that the liver Fluke Fasciolagigantica is the predominant Fasciola species in ruminants from Pakistan. | U. Chaudhry, B. van Paridon, M.Z. Shabbir, M. Shafee, K. Ashraf, <b>T. Yaqub</b> and J. Gilleard                          | Journal of Helminthology.              | 11:1-8          | <b>1.344</b> |
| 25 | Microbial communities present in the lower respiratory tract of clinically healthy birds in Pakistan.                           | M. Z. Shabbir, J. Park, T. Malys, Y. Ivanov, M. Rabbani, <b>T. Yaqub</b> , E. T. Harvill                                  | Poultry Science,                       | 94(4): 612-620  | <b>2.216</b> |

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4. Khanum, S.A., M. Hussain, R. Kausar, M.A. Jabbar, **T. Yaqoob**, S. Sadaf, R.Ahmad and S. Rehman. 2006. Sustainable improvement of livestock production through strategic supplementation with urea molasses multi-nutrient block (UMMB) and other feed resources available in Pakistan. IAEA TECHDOC 1495: 91-110. **ISSN 1011-4289.**
5. Khanum, S.A., M. Hussain, Kausar, M.A. Jabbar, **T. Yaqoob**, S. Sadaf and S.Rehman, (2006). Unconventional feed resources for livestock production in Pakistan. IAEA TECHDOC 1495: 231-238. **ISSN 1011-4289.**

## Oral Presentations:

1. **Yaqub, T.**, N. Mukhtar, M.Z.Shabbir, M.Munir, J. Nazir, A. Masood, Z. Tahir, M.Javed (2015). Prevalence And Epidemiology Of Bovine Rota Virus In Calves In Punjab Province, Pakistan In 8th Asian Buffalo Congress Held In Istanbul, Turkey From 21 - 25 April 2015.
2. Mukhtar, N., M.Z.Shabbir, M. Munir, A. Masood, Z. Tahir, J. Nazir, **T. Yaqub** (2015). Molecular Based Investigation Of Vp4 And Vp6 Gene Of Bovine Rotavirus In Pakistan 8th Asian Buffalo Congress Held In Istanbul, Turkey From 21 - 25 April 2015.

## POSTER PRESENTATION

### Abstract/Posters:

1. Shabbir MZ, Ivanov Y, Park J, Rabbani M, **Yaqub T**, Mukhtar N, Ahmad A, Harvill ET (2015). Culture-independent analysis of gastrointestinal tract microbiome of clinically healthy and diseased calves. 8<sup>th</sup> Asian Buffalo Congress, Istanbul Turkey. Page 76.
2. Shabbir MZ, Ivanov Y, Rabbani M, **Yaqub T**, Harvill ET (2015). Investigation of a respiratory outbreak in calves; isolation of *Pasteurella multocida* and metagenomics of clinical samples. 8<sup>th</sup> Asian Buffalo Congress, Istanbul Turkey. Page 31.



3. Shabbir MZ, Park J, Malys T, Ivanov Y, Rabbani M, **Yaqub T**, Harvill ET (2014). Microbial communities present in the lower respiratory tract of clinically healthy birds in Pakistan. *Poultry Science* 93(E-Suppl. 1), Corpus Christi, USA: Page 58.
4. Shabbir MZ, **Yaqub T**, Abbas M, Berg M, Munir M (2013). Genetic diversity of Newcastle disease virus in Pakistan: A countrywide perspective. Page 191 at EPIZONE Belgium.
5. Shabbir MZ, Park J, Shabbir MAB, Ivanov Y, **Yaqub T**, Rabbani M, Muhammad K, Rana MY and Harvill ET (2013). Culture-Independent analysis of respiratory microbiota of birds in the free range system. Page 192 EPIZONE, Belgium.
6. Munir M, Shabbir MZ, **Yaqub T**, Berg M. Peste des petits ruminants virus in Pakistan (2013). Page 194 EPIZONE, Belgium.
7. Yongqing Li, Kolli Reddy, Michelle Hill, **TahirYaqub**, John McCauley and MunirIqbal 2010. Levels of cross-reactivity of recombinant haemagglutinin H5, H7 and H9 glycoproteins with reference antiserum against H1-H16 subtypes of influenza A viruses. Oxford Conference.
8. M. Iqbal, **T. Yaqub**, K. Reddy, J.W. McCauley. Novel Genotypes of H9N2 Influenza A Viruses Isolated from Poultry in Pakistan Containing NS Genes Similar to Highly Pathogenic H7N3 and H5N1 Viruses. *Bird Flu*, Oxford, UK. September 9-10, 2009.
9. Sumara S, Shabbir MZ, Ahmad A, Bajwa AG, and **Yaqub T** (2009). Determination of lactoperoxidase enzyme in bovine milk. Page 236. 6<sup>th</sup> Asian Buffalo Congress (ABC).
10. Shabbir MZ, Rabbani M, **Yaqub T**, Ahmad A, Akhtar F, Muhammad K, Hussain M and Ahmed M (2009). Trends in isolation and antimicrobial susceptibility of mastitis causing pathogens of Nili Ravi Buffalo. Page 283. 6<sup>th</sup> Asian Buffalo Congress (ABC).
11. **TahirYaqub**, Michelle Hill, Kolli Reddy, John McCauley & MunirIqbal (2008). Production of Soluble Recombinant Haemagglutinin Glycoprotein as an Alternative to Egg grown whole virus for Haemagglutination Inhibition and ELISA Based Assays; Poster Presentation at Oxford UK.

**Particulars of whole-time employment since completion of education**

| Post held                  | Where Employed  | Federal or Provincial Govt. / Autonomous or Private | Permanent / Temporary / Adhoc | BPS | Monthly Salary | Duration<br>Give Exact Dates: |                  | Cause of leaving | Brief Description  |
|----------------------------|---|---|-------------------------------|-----|----------------|-------------------------------|------------------|------------------|--|
|                            |   |   |                               |     |                | From                          | To               |                  |  |
| Veterinary Officer         | Livestock Production Research Institute Bahadurnagar Okara                            | Autonomous  | Permanent                     | 17  |                | 01-06-1988                    | To<br>03-11-1998 | -                | Responsible for the treatment of animals   |
| Assistant Research Officer | Livestock Production Research Institute Bahadurnagar Okara                            | Autonomous  | Permanent                     | 18  |                | 04-11-1998                    | To<br>09-09-2004 | -                | Analysis of feed, milk, wool/hair and carcass, guidance of the respective veterinary officers  |
| Research Officer           | Livestock Production Research Institute Bahadurnagar Okara                            | Autonomous  | Permanent                     | 18  |                | 10-09-2004                    | To<br>24-06-2007 | -                | Responsible for collecting data on nutritive value of feeds used in experiments and of any products and by-products available in Pakistan which may be used for feeding of livestock |
| Associate Professor        | University of Veterinary and Animal Sciences Lahore                                   | Autonomous  | Permanent                     | 20  |                | 25-06-2007                    | 13-11-2011       | -                | Teaching, research and disease diagnostics   |
| Professor                  | University of Veterinary and Animal Sciences Lahore                                   | Autonomous  | Permanent                     | 21  |                | 14-11-2011 to date            |                  | -                | Teaching, research and disease diagnostics   |
| TTS Professor              | University of Veterinary and Animal Sciences Lahore                                   | Autonomous  | Permanent                     | 21  |                | 2014-todate                   |                  | -                |  |
| Consultant                 | Punjab TB Control Program, Primary & Secondary HealthCare Department, Govt. of Punjab | Autonomous  | Contract                      |     |                | Dec-2017 to Dec-2018          |                  |                  | Development of BSL-3 model facility, Diagnosis of tuberculosis using advanced techniques like LPA and GeneXpert  |
| Senior Tutor               | University of Veterinary and Animal Sciences Lahore                                   | Autonomous  |                               |     |                |                               |                  |                  |  |
| Director QOL               | University of Veterinary and Animal Sciences Lahore                                   | Autonomous  |                               |     |                |                               |                  |                  |  |
| Biosafety Officer          | University of Veterinary and Animal Sciences Lahore                                   | Autonomous  |                               |     |                |                               |                  |                  |  |

|                                    |  |            |  |  |  |                      |  |  |
|------------------------------------|--|------------|--|--|--|----------------------|--|--|
| Director Institute of Microbiology | University of Veterinary and Animal Sciences Lahore                                  | Autonomous |  |  |  | June-2020 – May 2023 |  |  |
| Professor Emeritus                 | Institute of Microbiology, University of Veterinary & Animal Sciences (UVAS), Lahore | Autonomous |  |  |  | May 2023 to date     |  |  |