

Muhammad Abbas

Quality Control Laboratory

Veterinary Research Institute Lahore, Cantt.

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Employment Experience

Working at Quality Control Laboratory (QCL) *Veterinary Research Institute (VRI) Lahore, Pakistan* as Veterinary Officer (Research) from 2006-date

Qualification

- **MS in Molecular biology**
2009-2010
Pass with distinction
(*University Of Skövde, Sweden*) thesis project from *National Veterinary Institute, Statens Veterinärmedicinska Anstalt (SVA)/Swedish University of Agricultural Sciences (SLU), Sweden* entitled: *Phylogenetic analysis and immunomodulation of Equine Influenza NS1 protein isolated during 1963-2003.*
- **Master in Business Administration,**
3.32/4.00, (70.57%)
2007-2009
(*University of Veterinary and Animal Sciences, Pakistan*). Covered Marketing, Organization Behavior, Project Management, Human Recourse Management and life Science Business Management
- **Doctor of Veterinary Medicine**
3.35/4.00 (70.77%)
2001-2005
(*University of Veterinary and Animal Sciences, Pakistan*). Covered the subjects of Pathology, Microbiology, Virology, Anatomy, Physiology, Biochemistry, Parasitology, Surgery, Medicine, Pharmacology and toxicology

Research Collaborations

- Research group of Prof. Mikael Berg SVA, SLU Uppsala Sweden
- Research Group of Prof. Dr. John Gilleard Department of Comparative Biology and Experimental Medicine Faculty of Veterinary Medicine, University of Calgary, Canada.

Ongoing Research

- Investigating evolutionary and phylogenic relationship of Influenza virus from 2006 to 2011 from Pakistan
- Phylogenic evolution and genetic characterization of Newcastle Disease virus in backyard poultry, and wild birds of Pakistan
- Cellular immune-modulation by NS1 protein of Equine Influenza viruses.
- Anthelmintic resistance and host distribution of *Haemonchus contortus* & *Haemonchus placei*
- Quality control of vaccines i.e. bacterial and viral produced at VRI Lahore Pakistan
- Bird Flue, Fowl Pox, Spirochetosis, and Newcastle Disease Vaccine production at VRI Lahore

Techniques learnt

- Cell culture, Cloning, ELISA, PCR, qPCR, florescent *in-situ* hybridization (FISH), DNA Sequencing, Proximity Ligation assay, Luciferase assay, Protein purification using nickel chromatography, SDS-PAGE, and Western Blot

Selected Publications

- Muhammad Munir,, Siamak Zohari, Munir Iqbal, Muhammad Abbas, Daniel Roberto Perez and Mikael Berg (2013) The non-structural (NS) gene segment of H9N2 influenza virus isolated from backyard poultry in Pakistan reveals strong genetic and functional similarities to the NS gene of highly pathogenic H5N1 *Virulence* 4:7, 1–12. doi.org/10.4161/viru.26055
- Muhammad Munir, Siamak Zohari, Muhammad Abbas, Muhammad Zubair Shabbir, Muhammad Nauman Zahid, Muhammad Saqib Latif, Muhammad Iqbal, Zafar Ul Ahsan Qureshi, Mikael Berg. (2013) Isolation and characterization of low pathogenic H9N2 avian influenza A viruses from a healthy flock and its comparison to other H9N2 isolates 2013 *Indian Journal of Virology* DOI 10.1007/s13337-013-0144-1.
- Muhammad Abbas†, Muhammad Zubair Shabbir†, Syed Abdul Khaliq, Sajjad Ali , Muhammad Munir (2012) Sequence analysis of the hemagglutinin-neuraminidase gene of Newcastle disease virus from Pakistan. *Asian Pacific Journal of Tropical Medicine* (accepted)
- Muhammad Zubair Shabbir1†, Muhammad Abbas2†, Tahir Yaqub, Nadia Mukhtar, Atta Subhani, Hasham Habib, Muhammad Umar Sohail, Muhammad Munir. (2012) Genetic analysis of Newcastle disease virus from Punjab, Pakistan *Virus genes* DOI 10.1007/s11262-012-0862-2
- † authors contributed equally as first author

Selected Publications

- Muhammad Zubair Shabbir, MohsanUllah Goraya, **Muhammad Abbas**, Tahir Yaqub, Muhammad Abu Bakr Shabbira, Arfan Ahmad, Muhammad Anees and Muhammad Munir. (2012) Complete Genome Sequencing of a Velogenic Viscerotropic Avian Paramyxovirus-1 Isolated from Pheasants (*Pucrasia macrolopha*) in Lahore, Pakistan. *Journal of Virology* 86(24):13828. DOI: 10.1128/JVI.02626-12
- Muhammad Zubair Shabbir, Rana Khurram Khalid, Derek Matthew Freitas, Muhammad Tariq Javed, Masood Rabbani, Tahir Yaqub, Arfan Ahmad, Muhammad Abu Bakr Shabbir and **Muhammad Abbas**. Serological Evidence of Selected Abortifacients in a Dairy Herd with History of Abortion *Pakistan Veterinary Journal* 2013, 33(1): 19-22
- Muhammad Munir, Martí Cortey, **Muhammad Abbas**, Zafar ul Ahsan Qureshi, Farhan Afzal, Muhammad Zubair Shabbir, Muhammad Tanveer Khan, Safia Ahmed, Saeed Ahmad, Claudia Baule, Karl Ståhl, Siamak Zohari, Mikael Berg. (2012) Phylogenetic analysis and biological characterization of a novel genetic group of Newcastle Disease Virus (NDV) isolated from outbreaks in commercial poultry farms and from healthy backyard poultry flocks. *Infection, Genetics and Evolution* DOI:10.1016/j.meegid.2012.02.015
- Muhammad Munir, **Muhammad Abbas**, Muhammad Tanveer Khan, Siamak Zohari, Mikael Berg. (2012) Genomic and biological characterization of a velogenic Newcastle disease virus isolated from a healthy backyard poultry flock in 2010 in Pakistan. *Virology Journal* 2012, 9:46 DOI:10.1186/1743-422X-9-46
- Muhammad Munir, Siamak Zohari, **Muhammad Abbas**, Mikael Berg. (2012) Sequencing and analysis of the complete genome of Newcastle disease virus isolated from a commercial poultry farm in 2010 *Archives of Virology* 157:765–768 DOI 10.1007/s00705-011-1220-8
- Muhammad Abbas**, Muhammad Munir, Syed Abdul Khaliq, Muhammad Ikram Ul Haq, Muhammad Tanveer and Zafar-Ul-Ahsan. (2011) Detection of Paratuberculosis in breeding bulls at Pakistani Semen Production Units: A continuous source of threat. *ISRN Veterinary Science* Volume DOI:10.5402/2011/501235
- Muhammad Tanveer, Khan, Kamran Ashraf , **Muhammad Abbas**, Umer Naveed Chaudhary, Muhammad Azhar Alam, Muhammad Munir. (2011) Prevalence and chemo-therapeutical investigations of gastrointestinal nematodes in domestic pigeons in Lahore, Pakistan. *Tropical Biomedicine* 28(1): 102–110.