

# HASSAAN BIN ASLAM

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## **PROFILE:**

More than 10 years of extensive experience in the field of veterinary microbiology and livestock production systems to inform policies ensuring safe and sustainable food systems and farm-level decision making. Other skills include working in teams and efficiently integrating into new work environments.

## **CAREER GOALS:**

- Acquisition of latest knowledge and advance skills in the veterinary microbiology, epidemiology and economics of animal health.
- Development of strategies for control of infectious diseases in farm animals (livestock and poultry).
- Exploring new methods and techniques to help farmers with assessment of impact of diseases and their control interventions.
- Community engagement at the level of farmer-animal interface to control the spread of infectious diseases.

## **QUALIFICATIONS**

- **PhD**  
**Royal Veterinary College, University of London, 2021**  
Major: Pathobiology and Population Sciences
- **M. Phil Veterinary Microbiology**  
**University of Veterinary and Animal Sciences, Lahore, 2012**  
Major: Microbiology, GPA: 3.85/4.00
- **Doctor of Veterinary Medicine**  
**University of Veterinary and Animal Sciences Lahore, Pakistan, 2009**  
Major: Veterinary Medicine, GPA: 3.61/4.00

## **AREAS OF INTEREST**

- Virology, Immunology, Epidemiological and economic modelling of infectious diseases and livestock production systems

## **CURRENT POSITION**

**Lecturer** at the Institute of Microbiology, University of Veterinary and Animal Sciences Lahore

## **RESEARCH PROJECT**

- **Economics of Avian Influenza** virus subtype H9N2 and **cost-effectiveness** of its vaccination in chicken production sub-sector in Pakistan. (duration from Nov, 2016-June, 2021)

## **WORK RXPERIANCE**

- **Lecturer** (2011-2017): **Institute of Microbiology**, UVAS Lahore, Pakistan
- **Internship** (January-February 2020): Global alliance for livestock and veterinary medicines (**GALVmed**), Edinburgh
  - Developed production and economic models to estimate Newcastle disease virus impact and its vaccines on backyard chicken farmers of India and Kenya

## **RESEARCH EXPERIENCE**

- Prevalence of *Salmonella enterica* and *Campylobacter jejuni* in poultry eggs. (for quality control of poultry products in Pakistan)
- Microbiome analysis of respiratory microbiota of goats, under the project “A metagenomic approach for unbiased identification of novel veterinary pathogens endemic to Pakistan”. (2014)
- Serological Evidences for Emerging Diseases at the Level of Human and Animal Interface in Pakistan (2016).

## **TRAINING COURSES**

<b>Name and Place of Institution</b>	<b>Year attended</b>	<b>Title</b>
Royal Veterinary College, UK	June, 2019	Scientific writing
Royal Veterinary College, UK	March, 2018	Advanced statistical analysis using R
Royal Veterinary College, UK	February, 2017	Scientific working and networking
Royal Veterinary College, UK	January, 2017	Economics of One Health
University of Liverpool, UK	June, 2017	Qualitative data analysis
Institute of Public Health, Lahore	April, 2015	Consensus Building Workshop On Bio risk Management Guidelines
Penn State University	January, 2014	Microbiome analysis using Megan and Mothur

American Naval Medical Research Unit 3 Cairo, Egypt	June, 2013	Molecular and serological diagnosis of Crimean Congo Hemorrhagic Fever
National Institute for Biotechnology and Genetic Engineering, Faisalabad Pakistan	December, 2010	Second National Training Workshop on Electron and Confocal Microscopy

### **SCIENTIFIC RESEARCH PAPERS, RESEARCH / TECHNICAL REPORTS**

<b>Title of publication</b>	<b>Publication date</b>	<b>Journal</b>
Rate of Multiple Viral and Bacterial co-Infection(s) in Influenza A/H9N2–Infected Broiler Flocks	February, 2022	Avian diseases
CRISPR-Cas System: An Adaptive Immune System’s Association with Antibiotic Resistance in Salmonella enterica Serovar Enteritidis	March, 2022	BioMed Research International
Pathobiological and Immunohistochemical Findings in Broiler Chickens Naturally Infected with Salmonella Enterica Serotype <i>Gallinarum</i> Biotype <i>Gallinarum</i>	January, 2022	Pakistan Veterinary Journal
A Global Media Analysis of the Impact of the COVID-19 Pandemic on Chicken Meat Food Systems: Key Vulnerabilities and Opportunities for Building Resilience	August, 2021	Sustainability (MDPI)
A Value Chain Approach to Characterize the Chicken Sub-sector in Pakistan	July, 2020	Frontiers in Veterinary Sciences
Molecular epidemiology of respiratory viruses in commercial chicken flocks in Pakistan from 2014 through to 2016	October, 2019	BMC Veterinary Research
Sero-epidemiology of bluetongue virus (BTV) infection in sheep and goats of Khyber Pakhtunkhwa province of Pakistan	March, 2018	Acta Tropica
Development and evaluation of vaccine against Staphylococcus aureus recovered from naturally	March, 2018	Microbial Pathogenesis

occurring mastitis in she-camels		
Transovarian Transmission of Hydropericardium Syndrome Virus in Experimentally Infected Poultry Birds	October, 2017	Hosts and Viruses
Prevalence and antibiotic trials against <i>Salmonella enterica</i> isolated from diarrheic lambs and kids	November, 2017	Pakistan Journal of Pharmaceutical Sciences
Molecular Characterization of Bovine <i>Rotaviruses</i> in Pakistan	April, 2016	Jundishapur journal of Microbiology
Genetic diversity of Newcastle disease virus in Pakistan: a countrywide perspective	May, 2013	Virology Journal
Endemic seroprevalence and farmer control measures of anthrax among ruminant animals in Pakistan	April, 2023	Journal of animal and plant sciences

### **SCIENTIFIC CONFERENCES/ SYMPOSIUM**

- **Oral presentation** at ISESSAH, October 2020 Denmark.
- **Poster presentation** at 11<sup>th</sup> European congress on tropical Medicine and International Health, September 2019, Liverpool.
- **Poster presentation** at conference “Global Alliance for Research on Avian Diseases” (GARAD) Jan-2018, Hanoi, Vietnam
- **Attended and member of symposium organizing committee** on “One Health, Many Perspectives: Emerging Research from Lower Middle Income Countries” Liverpool School of Tropical Medicine, Liverpool, 2018.
- **Oral presentation** at “Zoonosis and Emerging Livestock Systems” (ZELS) grant holders meeting (2017) at Nelson’s Mandela Institute of Science and Technology, Arusha, Tanzania.

### **References**

- **Dr Barbara Haesler**  
Professor of Pathobiology and Population Sciences  
Royal Veterinary College, London UK  
[bhaesler@rvc.ac.uk](mailto:bhaesler@rvc.ac.uk)
- **Prof. Dr. Tahir Yaqub**  
Professor emeritus  
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