

# HASSAAN BIN ASLAM

PhD, M.Phil, DVM

Senior Lecturer

Institute of Microbiology

University of Veterinary and Animal Sciences

Lahore

E-mail:

[hassaan.aslam@uvas.edu.pk](mailto:hassaan.aslam@uvas.edu.pk)

[hbinaslam@rvc.ac.uk](mailto:hbinaslam@rvc.ac.uk)

Telephone: 0092-300-6955622



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## **PROFILE:**

I have a multidisciplinary teaching and project management experience in microbiology related to animal source food systems, veterinary public health, One health and food safety of animal origin. Extensively trained in the fields of molecular virology, food and integration of biological data into mathematical models to inform decision making and policies regarding control of diseases. My skills include teaching, designing and executing multiple disciplinary projects, overseeing postgraduate work, excellent communication skills, team work and efficiently integrating into new work environments.

## **CAREER GOALS:**

- Acquisition of latest knowledge and advance skills in the field of microbiology, epidemiology and one health economics.
- Exploring new methods and techniques to design novel diagnostics and disease control interventions and evaluating their cost-effectiveness.
- Community engagement and capacity building to supplement disease control in the livestock production.

## **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**

- Virome/Microbiome and sequence analysis
- Health economics, Decision analysis, Economic evaluation of policies and disease control programs.
- Quantitative and qualitative data analysis using tools like NVivo, R, @Risk SPSS and Excel
- Teaching and mentoring postgraduates
- Scientific communication with specific and general audiences.

## **CURRENT POSITION**

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

## **RESEARCH PROJECTS**

- **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).
- **An integrated approach to translate perceptions into intentions of the chicken farmers regarding Avian Influenza virus (2022-2024).**
- Estimation of knowledge, attitudes and practices of pastoral communities regarding Crimean Congo hemorrhagic fever (Ongoing).
- **Interdisciplinary approaches** to control lumpy skin disease virus and estimation of **economic efficiency** of its control measures in Pakistan (Ongoing, as team member).
- **Economic impact estimation** of *Brucella abortus* infection in dairy sector and its impact on the **quality of life of farmers** (Ongoing).

## **WORK EXPERIENCE**

- **Senior Lecturer** (2011-to date): **Institute of Microbiology**, UVAS Lahore, Pakistan. Job description includes teaching undergraduate and postgraduate students and supervising M.Phil and Ph.D students.
- **Internship** (January-February 2020): Global alliance for livestock and veterinary medicines (**GALVmed**), Edinburgh
  - Capacity building of field staff regarding economic approaches and their use in health systems
  - Developed production and economic models to estimate Newcastle disease virus impact and its vaccines on backyard chicken farmers of India and Kenya

## TRAINING COURSES

Name and Place of Institution	Year attended	Title
PCSIR, Laboratories	2023	Good laboratory practices
University Diagnostic Laboratory	2022	ISO certification
Bio risk management and mitigation	2022	WHO, Pakistan
Royal Veterinary College, UK	2019	Scientific writing
Royal Veterinary College, UK	2018	Advanced statistical analysis using R
Royal Veterinary College, UK	2017	Scientific working and networking
Royal Veterinary College, UK	2017	Economics of One Health
University of Liverpool, UK	2017	Qualitative data analysis
Institute of Public Health, Lahore	2015	Consensus Building Workshop On Bio risk Management Guidelines
Penn State University	2014	Microbiome analysis using Megan and Mothur
American Naval Medical Research Unit 3 Cairo, Egypt	2013	Molecular and serological diagnosis of Dengue and Crimean Congo Hemorrhagic Fever
National Institute for Biotechnology and Genetic Engineering, Faisalabad Pakistan	2010	Second National Training Workshop on Electron and Confocal Microscopy

## SCIENTIFIC RESEARCH PAPERS, RESEARCH / TECHNICAL REPORTS

Title of publication	Impact factor	Journal
<b>Bin Aslam, H.</b> , Häsler, B., Iqbal, M., Yaqub, T. and Alarcon, P., Financial Impact of Low Pathogenic Avian Influenza Virus Subtype H9N2 on Commercial Chicken Production Systems in Pakistan. Preventive veterinary Medicine, 2024 Apr 26;15;41	2.6	Preventive veterinary Medicine
<b>Aslam HB</b> , Alarcon P, Yaqub T, Iqbal M, Häsler B. A value chain approach to characterize the chicken sub-sector in Pakistan. Frontiers in veterinary science. 2020 Jul 3;7:361.	3.47	Frontiers in Veterinary Sciences
Chapot L, Whatford L, Compston P, Tak M, Cuevas S, Garza M, Bennani H, <b>Bin Aslam H</b> , Hennessey M, Limon G, Queenan K. A global media analysis of the impact of the covid-19 pandemic on chicken meat food systems: Key vulnerabilities and opportunities for building resilience. Sustainability. 2021 Aug 23;13(16):9435.	3.88	Sustainability (MDPI)
Shabbir, M.A.B., Ul-Rahman, A., Iftikhar, M.R., Rasheed, M., Maan, M.K., Sattar, A., Ahmad, M., Khan, F.A., Ahmad, W.,	2.6	Medicina

Riaz, M.I. and <b>Aslam, H.B.</b> , 2024. Exploring the Interplay of the CRISPR-CAS System with Antibiotic Resistance in <i>Staphylococcus aureus</i> : A Poultry Meat Study from Lahore, Pakistan. <i>Medicina</i> , 60(1), p.130.		
Zou, W., Hassan, I., Akram, B., Sattar, H., Altaf, A., Aqib, A.I., <b>Aslam, H.B.</b> , Almutairi, M.H. and Li, K., 2023. Validating Interactions of Pathogenic Proteins of <i>Staphylococcus aureus</i> and <i>E. coli</i> with Phytochemicals of <i>Ziziphus jujube</i> and <i>Acacia nilotica</i> . <i>Microorganisms</i> , 11(10), p.2450.	4.92	Microorganisms
Bakht, P., Ijaz, M., Iqbal, M.Z., <b>Aslam, H.B.</b> and Rehman, A., 2024. Repurposing of non-steroidal anti-inflammatory drugs for combination therapies to combat multidrug-resistant <i>S. aureus</i> of bovine reproductive tract origin. <i>Veterinary Research Communications</i> , pp.1-14.	2.2	Veterinary Research Communications
Amin, F., Mukhtar, N., Ali, M., Shehzad, R., Ayub, S., Aslam, A., Sheikh, A.A., Sultan, B., Mahmood, D., Shahid, M.F., Yaqub, S., <b>Aslam, HB.</b> , Aziz, MW., Yaqub, T., 2023. Mapping genetic markers associated with antigenicity and host range in H9N2 Influenza A viruses infecting poultry in Pakistan.	1.66	Avian Diseases.
Sardar N, Yaqub T, Anjum AA, Javed M, Ayub S, Mukhtar N, <b>Aslam HB</b> , Wolfe AJ, Schabacker DS, Forrester S, Khemmani M. ENDEMIC SEROPREVALENCE AND FARMER CONTROL MEASURES OF ANTHRAX AMONG RUMINATE ANIMALS IN PAKISTAN. <i>JAPS: Journal of Animal &amp; Plant Sciences</i> . 2023 Aug 1;33(4).	0.57	Journal of animal and plant sciences
Faisal Amin, Nadia Mukhtar, Asim Aslam, Ali Ahmed Sheikh, Bakht Sultan, Muzaffar Hussain, Rehman Shehzad, Muzaffar Ali, Muhammad Furqan Shahid, Muhammad Waqar Aziz, Shahan Azeem, <b>Hassan Bin Aslam</b> , and Tahir Yaqub "Rate of Multiple Viral and Bacterial CoInfection(s) in Influenza A/H9N2–Infected Broiler Flocks," <i>Avian Diseases</i> 66(2), 197-204, (5 April 2022).	1.77	Avian diseases
Saleem G, Farooq U, Naseer R, <b>Aslam HB</b> , Mustafa G, Omar MO, Liaqat I. Pathobiological and Immunohistochemical Findings in Broiler Chickens Naturally Infected with <i>Salmonella</i> Enterica Serotype Gallinarum Biotype Gallinarum. <i>Pakistan Veterinary Journal</i> . 2022 Jan 1;42(1).	1.80	Pakistan Veterinary Journal
Umar S, Teillaud A, <b>Aslam HB</b> , Guerin JL, Ducatez MF. Molecular epidemiology of respiratory viruses in commercial chicken flocks in Pakistan from 2014 through to 2016. <i>BMC veterinary Research</i> . 2019 Dec;15:1-2.	2.74	BMC Veterinary Research
Malik AI, Ijaz M, Yaqub T, Avais M, Shabbir MZ, <b>Aslam HB</b> , Aqib AI, Farooqi SH, Sohail T, Ghaffar A, Ali A. Sero-epidemiology of bluetongue virus (BTV) infection in sheep and goats of Khyber Pakhtunkhwa province of Pakistan. <i>Acta tropica</i> . 2018 Jun 1;182:207-11.	3.22	Acta Tropica

Aqib AI, Anjum AA, Ijaz M, Hussain R, Ahmed R, Farooqi SH, <b>Aslam HB</b> , Hussain K, Mehmood K, Zhang H. Development and evaluation of vaccine against Staphylococcus aureus recovered from naturally occurring mastitis in she-camels. Microbial pathogenesis. 2018 Apr 1;117:341-7.	3.84	Microbial Pathogenesis
Tahir R, Muhammad K, Rabbani M, Khan F, Khan F, <b>Aslam HB</b> , Mehboob A. Transovarian transmission of hydropericardium syndrome virus in experimentally infected poultry birds. Hosts and Viruses. 2017 Dec 1;4(6):88-91.	---	Hosts and Viruses
Iqbal MK, Ijaz M, <b>Bin Aslam H</b> , Farooqi SH, Ahmad SS, Akhtar R. Prevalence and antibiotic trials against Salmonella enterica isolated from diarrheic lambs and kids. Pak. J. Pharm. Sci. 2017 Nov 1;30(6):2265-9.	0.86	Pakistan Journal of Pharmaceutical Sciences
Nadia M, Tahir Y, Ambreen M, Hasnain J, Jawad N, Asim A, Akhtar A, Maryam J, Asif N, Tanveer H, Zarfashan T, <b>Hassaan BA</b> . Molecular characterization of bovine rotaviruses in Pakistan. Jundishapur Journal of Microbiology. 2016;9(12).	0.74	Jundishapur journal of Microbiology
Shabbir MZ, Zohari S, Yaqub T, Nazir J, Shabbir MA, Mukhtar N, <b>Aslam HB</b> , Shafee M, Sajid M, Anees M, Abbas M, Khan MT. Genetic diversity of Newcastle disease virus in Pakistan: a countrywide perspective. Virology journal. 2013 Dec;10:1-0.	5.91	Virology Journal

### **BOOK/BOOK CHAPTER/MANUAL**

<b>Title</b>	<b>Role</b>	<b>ISSN</b>	<b>Publisher</b>
Dynamics of MRSA infections - Animals, People and Environment	Co-author /Co-Editor	ISBN:978-0-85014-055-2	IntechOpen
One Health: Open Source Bacteriology	Co-author /Co-Editor	ISBN: ISBN-13:9781494746889 ISBN-10:1494746883	Amazon

### **SCIENTIFIC CONFERENCES/ SYMPOSIUM**

- **Oral presentation** at ISESSAH, October, 2020 Denmark.
- **Oral presentation** at Pakistan Science Conference November, 2022.
- **Oral presentation** at Innovations in biochemistry, medicine and pharmacology, January, 2023.
- **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.

### **SUPERVISOR**

<b>M.Phil Students supervised= 15</b>	<b>PhD. students under supervision= 2</b>
<b>M.Phil students under supervision= 6</b>	

### **REVIEWER**

- Canadian Journal of infectious diseases and medical microbiology
- Cogent food and agriculture

### **REFERENCES**

- **Dr Barbara Haesler**  
Professor of Pathobiology and Population Sciences  
Veterinary Epidemiology Economics and Public Health group  
Royal Veterinary College, London UK  
[bhaesler@rvc.ac.uk](mailto:bhaesler@rvc.ac.uk)
- **Prof. Dr Tahir Yaqub**  
Professor of Microbiology  
Institute of Microbiology, UVAS  
[tahiryaqub@uvas.edu.pk](mailto:tahiryaqub@uvas.edu.pk)