

Faculty Profile Format – Institute of Microbiology (IOM)

1. General Information

Full Name: Hassaan Bin Aslam

Designation/Position: Lecturer

Department/Section: Microbiology

Email: hassaan.aslam@uvas.edu.pk

Date of Birth: 1st October, 1985

2. Academic Qualifications

Degree	Field	University/Institute	Year	Country
PhD	Pathobiology and population sciences	Royal Veterinary College, University of London.	2021	United Kingdom
M.Phil	Microbiology	UVAS, Lahore	2012	Pakistan
DVM	Veterinary Medicine	UVAS, Lahore	2008	Pakistan

3. Professional Experience

Position	Institute	Duration (Years)	From – To
Teaching Assistant	Microbiology	2.5 years	Feb 2009-Nov 2011
Lecturer	Microbiology	14 years	Nov 2011 to date
Intern	GALVmed	One month	Feb2020

4. Research Contributions

4.1 Research Papers (APA style):

1. **Aslam, H.B.**, Häsler, B., Iqbal, M., Yaqub, T. and Alarcon, P., 2024. Financial impact of low pathogenic avian influenza virus subtype H9N2 on commercial broiler chicken and egg layer production systems in Pakistan. *Preventive Veterinary Medicine*, p.106346.
2. **Aslam HB**, 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. Podowski, J.C., Forrester, S., Yaqub, T., Aqel, A., Abu Lubad, M., Mukhtar, N., Waqar Aziz, M., Sardar, N., **Bin Aslam, H.**, Pervaiz, H. and Wolfe, A.J., 2025. Genomic reconstruction of *Bacillus anthracis* from complex environmental samples enables high-throughput identification and lineage assignment in Pakistan.
4. Wong, F.Y., Yaqub, T., Zhang, R., Mukhtar, N., Pervaiz, H., Hussain Yawar, H.U., Iqbal, M., **bin Aslam, H.**, Aziz, M.W., Akram, M. and Raza, S., 2024. Highly pathogenic avian influenza H5 virus exposure in goats and sheep.
5. Chapot L, Whatford L, Compston P, Tak M, Cuevas S, Garza M, Bennani H, **Bin Aslam H**, 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.
6. Mukhtar, N., Younas, U., Pervaiz, H., Yaqub, T., Zahoor, M.Y., **Aslam, H.B.**, Karim, L., Raza, S., Mohid, M., Abid, S. and Abdullah, M., 2025. Gut Microbiota and Its Impact on Children with Autism Spectrum
7. Bakht, P., Ijaz, M., Iqbal, M.Z., **Aslam, H.B.** and Rehman, A., 2024. Repurposing of non-steroidal anti-inflammatory drugs for combination therapies to combat multidrug-resistant *S. aureus* of bovine reproductive tract origin. *Veterinary Research Communications*, pp.1-14.
8. Asif, M., Chaudhry, A.S., Ashar, A., Rashid, H.B., Saleem, M.H., **Aslam, H.B.** and Aziz, A., 2023. Zinc oxide nanoparticles accelerate the healing of methicillin-resistant *Staphylococcus aureus* (MRSA)-infected wounds in rabbits. *Asian Pacific Journal of Tropical Biomedicine*, 13(11), pp.488-496.
9. Bakht, P., Ijaz, M., Iqbal, M.Z., **Aslam, H.B.** and Rehman, A., 2024. Molecular Insights and Comparative Antibigram Profiling of Tetracycline and Aminoglycosides Resistant *Staphylococcus aureus* Strains Isolated from Bubaline Endometritis.
10. Khan, F.A., Mukhtar, N., **Aslam, H.B.**, Pervaiz, H., Aziz, M.W., Shahid, M.F., Nawaz, M., Durrani, A.Z. and Yaqub, T., 2024. Sequence based Characterization of Lumpy Skin Disease Virus from Punjab, Pakistan.
11. Amin, F., Mukhtar, N., Ali, M., Shehzad, R., Ayub, S., Aslam, A., Sheikh, A.A., Sultan, B., Mahmood, M.D., Shahid, M.F., **Aslam, H.B.** and Yaqub, S., 2024. Mapping genetic markers associated with antigenicity and host range in H9N2 Influenza A viruses infecting poultry in Pakistan. *Avian Diseases*, 68(1), pp.43-51.

12. Shabbir, M.A.B., Ul-Rahman, A., Iftikhar, M.R., Rasheed, M., Maan, M.K., Sattar, A., Ahmad, M., Khan, F.A., Ahmad, W., Riaz, M.I. and **Aslam, H.B.**, 2024. Exploring the Interplay of the CRISPR-CAS System with Antibiotic Resistance in *Staphylococcus aureus*: A Poultry Meat Study from Lahore, Pakistan. *Medicina*, 60(1), p.130.
13. Zou, W., Hassan, I., Akram, B., Sattar, H., Altaf, A., Aqib, A.I., **Aslam, H.B.**, Almutairi, M.H. and Li, K., 2023. Validating Interactions of Pathogenic Proteins of *Staphylococcus aureus* and *E. coli* with Phytochemicals of *Ziziphus jujube* and *Acacia nilotica*. *Microorganisms*, 11(10), p.2450.
14. Sardar N, Yaqub T, Anjum AA, Javed M, Ayub S, Mukhtar N, **Aslam HB**, Wolfe AJ, Schabacker DS, Forrester S, Khemmani M. Endemic seroprevalence and farmer's control measures of anthrax among ruminant animals in Pakistan. *JAPS: Journal of Animal & Plant Sciences*. 2023 Aug 1;33(4).
15. 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, **Hassaan Bin Aslam**, and Tahir Yaqub "Rate of Multiple Viral and Bacterial CoInfection(s) in Influenza A/H9N2–Infected Broiler Flocks," *Avian Diseases* 66(2), 197-204, (5 April 2022).
16. Saleem G, Farooq U, Naseer R, **Aslam HB**, Mustafa G, Omar MO, Liaqat I. Pathobiological and Immunohistochemical Findings in Broiler Chickens Naturally Infected with *Salmonella Enterica* Serotype Gallinarum Biotype Gallinarum. *Pakistan Veterinary Journal*. 2022 Jan 1;42(1).
17. Umar S, Teillaud A, **Aslam HB**, Guerin JL, Ducatez MF. Molecular epidemiology of respiratory viruses in commercial chicken flocks in Pakistan from 2014 through to 2016. *BMC veterinary Research*. 2019 Dec;15:1-2.
18. Malik AI, Ijaz M, Yaqub T, Avais M, Shabbir MZ, **Aslam HB**, 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. *Acta tropica*. 2018 Jun 1;182:207-11.
19. Aqib AI, Anjum AA, Ijaz M, Hussain R, Ahmed R, Farooqi SH, **Aslam HB**, 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.
20. Tahir R, Muhammad K, Rabbani M, Khan F, Khan F, **Aslam HB**, Mehboob A. Transovarian transmission of hydropericardium syndrome virus in experimentally infected poultry birds. *Hosts and Viruses*. 2017 Dec 1;4(6):88-91.
21. Iqbal MK, Ijaz M, **Bin Aslam H**, 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.
22. Nadia M, Tahir Y, Ambreen M, Hasnain J, Jawad N, Asim A, Akhtar A, Maryam J, Asif N, Tanveer H, Zarfashan T, **Hassaan BA**. Molecular characterization of bovine rotaviruses in Pakistan. *Jundishapur Journal of Microbiology*. 2016;9(12).

23. Shabbir MZ, Zohari S, Yaqub T, Nazir J, Shabbir MA, Mukhtar N, **Aslam HB**, 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.

4.2 Books/Chapters:

- Bin Aslam, H., et al. (2016). One Health: Open Source Bacteriology: Amazon Press.

4.3 Conferences:

- “International Society of Economics and Social Sciences in Animal Health, Denmark”, 2020 Denmark. (Oral Presentation)
- “Zoonosis and Emerging Livestock Systems” (ZELS) grant holders meeting at Nelson’s Mandela Institute of Science and Technology, Arusha, Tanzania, 2017 (Oral Presentation)
- “Global Alliance for Research on Avian Diseases” (GARAD) Jan-2018, Hanoi, Vietnam, 2018 (Poster presentation)
- , Pakistan Science Forum, 2024 (Oral Presentation)
- “Modelling of infectious disease transmission for decision making” at Pakistan Science Conference November 2022.
- “Economic impact assessment of animal diseases; One Health perspective” at Innovations in biochemistry, medicine and pharmacology, Pakistan, 2023. (Oral Presentation)
- 11th European congress on tropical Medicine and International Health, September 2019, Liverpool. (Poster presentation)
- “One Health, Many Perspectives: Emerging Research from Lower Middle Income Countries” Liverpool School of Tropical Medicine, Liverpool, 2018. (Attended and Organised)

5. Trainings

5.1 Trainings Received

Title	Institution	Year	Duration
Bio risk management and mitigation	WHO	2022	One week
Supervising PhD	UVAS-HEC	2024	One week
Advanced Statistical analysis	RVC, UK	2018	60 days
Economics in One Health	RVC	2017	30 days

Microbiome Analysis	Penn State Uni, USA	2014	30 days
Molecular and serological detection of viral hemorrhagic fever	NMRU, Cairo	2013	7 days
Second National Training Workshop on Electron and Confocal Microscopy	NIBGE	2010	14 days
Detection of FMDv using LAMP	NIAB	2011	7 days

5.2 Trainings Conducted

Title	Audience	Institution	Year	Duration
Mocern Diagnostis Techniques in Vet Medicine	VO across Baluchistan	International Trade Centre	2022	10 days
Diagnosis of COVID-19 using RT PCR	Public health experts	IOM	2021	Two days
Working in BSL 3	Life scientists	IOM	2021	Two days
Devising stratagies to control emerging viral hemorrhagic fever	Medics and Vets	Global CRDF-UVAS	2016	Two days

6. Memberships & Accreditations

- Member, International Society for Economics and Epidemiology in Animal Health (From 2017)
- World Society for Virology (From 2023)

7. Services & Contributions

- Public Sector:

Resident tutor: 2010 to 2013

Class advisor: 2022 to date

- Community Services:

Awareness campaign against influenza A viruses (2015)

8. Awards & Recognitions

- Merit Scholarship Holder, UVAS (2008)
- God Medalist in all District Okara Speech Competition (1997)

9. Administrative Roles

Role	Institute/Committee	Period
Resident tutor	UVAS Hostels	2010-2012
Class Advisor	IOM	2022 to date
Lab in charge Bacteriology	IOM	2022 to date

10. Research Interests & Future Plans

- Example: FMD vaccine development (purified 146S antigen platform)
- Example: Indigenous vaccine production and export strategies
- Example: Brucella control in cattle and buffalo

11. Additional Information

- Languages: English, Spanish_
- Reviewer:
 - Canadian Journal of infectious diseases and medical microbiology
 - Cogent food and agriculture
 - Discover Nature (Springer Nature)