

Sajid Umar, DVM, M.Phil, PhD



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Home: Pakistan/China



- 10 years of multifaceted work experience in Veterinary and Public health
- 5 years of experience in laboratory diagnostics and management
- Teaching and training of undergraduate students since 2009
- Global and country-level research on respiratory viruses at human animal interface
- Cross-disciplinary scientific and research expertise

SKILLS & EXPERTISE

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| <ul style="list-style-type: none">• Veterinary science• Virology• Epidemiology• Public Health• Global Health | <ul style="list-style-type: none">• Zoonoses• Emerging Infectious Diseases• Pathology• Respiratory Viruses• <i>In-vivo</i> experimentation |
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EDUCATION

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|---|-------------------------------------|
| <ul style="list-style-type: none">• Ph.D (Virology, Pathology)
<i>National Veterinary School of Toulouse, France</i>• M.Phil. (Pathology)
<i>University of Veterinary & Animal Science, Lahore Pakistan</i>• Bachelor's in Veterinary Medicine (DVM)
<i>University of Veterinary & Animal Science, Lahore Pakistan</i> | 2014-2017
2009-2011
2003-2008 |
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PROFESSIONAL EXPERIENCE

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| <ul style="list-style-type: none">• Assistant Professor of Global health
Global Health Research Center, One Health Research Laboratory
<i>Duke Kunshan University, Kunshan, China</i>• Postdoctoral Fellow
Global Health Research Center, One Health Research Laboratory
<i>Duke Kunshan University, Kunshan, China</i>• Postdoctoral Fellow
<i>Department of Virology, University of Istanbul, Turkey</i>• Lecturer
Department of Pathology,
<i>PMAS Arid Agriculture University, Rawalpindi Pakistan</i>• Teaching Assistant
Department of Pathology
<i>University of Veterinary & Animal Science, Lahore Pakistan</i>• Student Intern
Department of Pathology,
<i>University of Veterinary & Animal Science, Lahore Pakistan</i> | 2022- Present
2020-2022
2018-2019
2012-2020
2009-2011
2008-2009 |
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CERTIFICATION

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| • BSL-2 Laboratory & Biosafety certification
<i>Duke Kunshan University, Kunshan, China</i> | 2020-2021 |
| • Postdoctoral Researcher certification
<i>Department of Virology, University of Istanbul, Turkey</i> | 2018-2019 |
| • Use of laboratory Animals in Research certification
<i>National Veterinary School of Toulouse, France</i> | 2014-2015 |
| • Molecular Diagnostics certification
<i>University of Veterinary & Animal Science, Lahore, Pakistan</i> | 2009-2010 |

TEACHING EXPERIENCE

- | | |
|---|-----------|
| • PATH-402 Clinical Pathology
<i>University of Veterinary & Animal Science, Lahore, Pakistan</i> | 2009-2011 |
| • PATH-201 General Pathology
<i>University of Veterinary & Animal Science, Lahore, Pakistan</i> | 2009-2011 |
| • PATH-902 Poultry Pathology
<i>University of Veterinary & Animal Science, Lahore, Pakistan</i> | 2009-2011 |
| • PATH-401 Meat inspection & Public health
<i>University of Veterinary & Animal Science, Lahore, Pakistan</i> | 2009-2011 |
| • PATH-402 Clinical Pathology
<i>University of Veterinary & Animal Science, Lahore, Pakistan</i> | 2009-2011 |
| • MICR-302- General Virology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • MICR-303- Bacteriology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PARA-201- General parasitology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PARA-303- Veterinary entomology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PARA- 202- Veterinary helminthology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-701-Cellular and Molecular Pathology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-702-Diagnostic Hematology and Cytology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-703-Necropsy Practice
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-705-Oncology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-711-Techniques in Pathology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-715-Wildlife and Zoo Animal's Pathology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-718- Immunopathology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • PATH-501-Poultry Pathology
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • EPID-502 Veterinary Epidemiology and Public Health
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |
| • MICRO-306 Zoonosis & Public health
<i>PMAS Arid Agriculture University, Rawalpindi, Pakistan</i> | 2012-2020 |

- **BIOL-308 Evolution of Infectious Diseases**
Duke Kunshan University, China

2020- 2021

STUDENT MENTORING

University of Veterinary & Animal Science, Lahore, Pakistan

2012-2014

- Abdul Saeed (2006-VA-136) M.Phil (Epidemiology)

PMAS Arid Agriculture University Rawalpindi, Pakistan

- Muhammad Sami Ullah (08-Arid-294) M.Phil (Microbiology)

Virtual University, Pakistan

2017-2019

- Shujah Haider (MS160200245) M.Phil (Molecular Biology)
- Saima Parveen (MS160200051) M.Phil (Molecular Biology)
- Shahin Shah (MS160200243) M.Phil (Molecular Biology)
- Umm-i-Habiba (MS160401858) M.Phil (Molecular Biology)
- Nida Zia (MS160401607) M.Phil (Molecular Biology)
- Imtiaz Gillani (MS160200043) M.Phil (Molecular Biology)

Duke Kunshan University, China

2021- Present

- Kuanfu Chen (Uri)
- Junyi Li (Joanna)
- Qisen Guo (Bart)
- Qi Guo (Emma)
- Haibei Zhang
- Jiazheng Miao
- Yikai Ling
- Xiaoyuan Chen
- Siyuan Wu
- Caroline Robins
- Semin Kim
- Xinrong Guo (Carol)
- Thanaporn Thongthum (May)

PERSONAL MEETINGS

- **10th Hafez International Symposium on Turkey Diseases**

Berlin Germany

2014

Umar et al. Study on pathological changes induced by low pathogenic Avian Influenza (H9N2) viruses in fayoumi chicks and Turkeys (*poster presentation*)

- **XXII European Symposium on the Quality of Poultry Meat and XVI European Symposium on the Quality of Eggs and Egg Products**

2015

Westotel, Nantes, France

Umar et al. Prevalence of *Salmonella enteritidis* in hatcheries and broiler retail outlets in Rawalpindi, Pakistan (*Poster presentation*)

- **10th Hafez 8th Hafez International Symposium on Turkey production**

2015

Berlin Germany

Umar et al. Study on pathological changes induced by influenza viruses in chicken (*poster presentation*)

- **1st International Conference on Necrotic Enteritis in Poultry Copenhagen, Denmark**

2015

Copenhagen, Denmark

Umar et al. Pathological changes induced by Clostridium perfringens in

experimentally infected turkeys (oral presentation)

- **7th Orthomyxoviridae conference** 2015
Toulouse, France.
Umar et al. Low pathogenic avian influenza virus experimental infection in the turkey model: effect of the route of inoculation on the course of disease (*Poster presentation*)
- **The potential for poultry production in developing countries** 2015
Antalya, Turkey
Umar et al. Effects of *Nigella Sativa* on immune responses and pathogenesis of H9N2 viruses in turkeys (*oral presentation*)
- **11th Hafez International Symposium on Turkey Diseases** 2016
Berlin Germany
Umar et al. Low pathogenic avian influenza virus experimental infection in the turkey model: effect of the route of inoculation on the course of disease (*oral presentation*)
- **9th International symposium on Avian corona- and pneumoviruses and complicating pathogens** 2016
Utrecht (Leusden), Netherlands.
Umar et al. Molecular Epidemiology of Avian Infectious Bronchitis and Metapneumoviruses in Pakistan (*poster presentation*)
- **2nd international congress of Veterinary Microbiology** 2018
Antalya, Turkey
Umar et al. First molecular characterization of avian metapneumovirus in Turkish broiler flocks (*poster presentation*)

TRAINING & WORKSHOPS

• Appropriate Use of Research Funding — Accessing and Spending Your External and Internal Funding organized by Duke Kunshan University finance and procurement office	2021
• Workgroup Meeting COST Action FA1207: Towards Control of Avian Coronaviruses: Strategies for Diagnosis, Surveillance and Vaccination, Zagreb, Croatia.	2016
• Recent scientific advances on Avian Coronaviruses and complicating pathogens, Utrecht (Leusden), Netherlands.	2016
• Writing for scientific publications in Veterinary Medicine, National Veterinary School of Toulouse, France.	2016
• Scientific writing and research skills, (COST ACTION, FA 1207), Department of Infection and Immunity Luxembourg Institute of Health 29, rue Henri Koch, L-4354 Esch-sur-Alzette Luxembourg.	2016
• Quality assurance in research and good laboratory practice , University of Paul Sabatier Toulouse, France.	2015
• Image acquisition and analysis, University of Paul Sabatier Toulouse, France.	2015
• Computational analysis of sequences, University of Paul Sabatier Toulouse, France.	2015
• To control the scientific and technical information in research , University of Paul Sabatier Toulouse, France.	2014
• Statistical basis for research: a practical approach, University of Paul Sabatier Toulouse, France.	2014
• Laboratory animal Use and protection, National Veterinary School of Toulouse, France.	2014
• Creating scientific audio-visual animations, Ecole de Cinema D'Animation (ECA) 5	2014

Rue Georges Vedel 31300 Toulouse, France.	
• Scientific writing & Editing, University of Paul Sabatier (UPS), Toulouse, France	2014
• Preparing for oral presentation in conference, University of Paul Sabatier (UPS), Toulouse, France.	2014
• Young researcher's skill development, National University of Sciences & Technology (NUST) Islamabad, Pakistan.	2011
• National Biotechnology Exhibition and seminar, Institute of Biochemistry & Biotechnology, University of Veterinary and Animal Sciences, Lahore, Pakistan.	2010
• Primer designing for microbial identification using PCR, University of Veterinary and Animal Sciences, Lahore, Pakistan.	2009
• Molecular techniques (PCR/RT-PCR for diagnosis of animal microbial diseases, University of Veterinary and Animal Sciences, Lahore, Pakistan.	2009

PUBLICATIONS

1. **Umar, S;** Anderson, B; Chen, K; Gray, G.C. Metagenomic Analysis of Endemic Viruses in Oral Secretions from Chinese Pigs. *Veterinary Medicine & Science* **2022**, XX, (XXX), (in press)
2. Yilmaz, A., **Umar, S.**, Turan, N., Richt J.A., Yilmaz, H, Current scenario of viral diseases of cattle in Turkey and vaccination strategies in cattle *Journal of infection in developing countries* **2022**, XX, (XXX), (in press)
3. Wang, X.; Wang, D.; **Umar, S.**; Qin, S.; Ling, Q.; Gray, G. C.; Liu, Y., Molecular typing of human adenoviruses among hospitalized patients with respiratory tract infections in a tertiary Hospital in Guangzhou, China between 2017 and 2019. *BMC Infectious Diseases* **2021**, 21, (1), 748
4. Cizmecigil, U. Y.; **Umar, S.**; Yilmaz, A.; Bayraktar, E.; Turan, N.; Tali, B.; Aydin, O.; Tali, H. E.; Yaramanoglu, M.; Yilmaz, S. G.; Kolukisa, A.; Sadeyen, J.-R.; Iqbal, M.; Yilmaz, H., Characterisation of Fowl Adenovirus (FAdV-8b) Strain Concerning the Geographic Analysis and Pathological Lesions Associated with Inclusion Body Hepatitis in Broiler Flocks in Turkey. *Journal of Veterinary Research* **2020**, 64, (2), 231-237
5. Yilmaz, A.; Turan, N.; Bayraktar, E.; Tali, H. E.; Aydin, O.; **Umar, S.**; Cakan, B.; Sadeyen, J. R.; Baigent, S.; Iqbal, M.; Nair, V.; Yilmaz, H., Molecular characterisation and phylogenetic analysis of Marek's disease virus in Turkish layer chickens. *British Poultry Science* **2020**, 61, (5), 523-530.
6. **Umar S.** , O. H., Bayraktar E. , Ozturk Gurgen H. , Sigirci B.D. , Satir E. , Ozkan K. , Turan N. , Yilmaz A. , Gurel A. , Ak S. , Cetinkaya B. , Yilmaz H., First report on the molecular detection, phylogeny, virological and pathological investigations of Avibacterium paragallinarum in chickens in Turkey. *Medycyna Weterynaryjna* **2020**, 74, (4), 226-231
7. Yilmaz, A.; **Umar, S.**; Turan, N.; Aydin, O.; Tali, H. E.; Oguzoglu, T. C.; Yilmaz, H.; Richt, J. A.; Ducatez, M. F., First report of influenza D virus infection in Turkish cattle with respiratory disease. *Research Veterinary Science* **2020**, 130, 98-102
8. Ali, S.,S. S., Muhammad Imran, Muhammad Rizwan, Khizar Iqbal, Ghulam Qadir, Haroon Ahmad, **Umar,S.**, Waseem Ahmad Khan, Iahtasham Khan and Heinrich Neubauer, Detection of Brucella antibodies in selected wild animals and avian species in Pakistan. *Indian Journal of Animal Research* **2020**, 54, 478-481.
9. **Umar, S.**; Teillaud, A.; Aslam, H. B.; Guerin, J.L.; Ducatez, M. F., Molecular epidemiology of respiratory viruses in commercial chicken flocks in Pakistan from 2014 through to 2016. *BMC Veterinary Research* **2019**, 15, (1), 351
10. Bayraktar, E.; Umar, S.; Yilmaz, A.; Turan, N.; Yilmaz, H., Current scenario of viral diseases in Turkish poultry industry. *World's Poultry Science Journal* **2019**, 75, (4), 515-534.
11. Zia, N., Umm-i-Habiba, Ayesha Maqbool, Muhammad Safdar, Altaf Mehmood, **Umar,S** Detection and phylogeny of fowl adenovirus associated with hydropericardium hepatitis syndrome in broilers. *Pakistan Journal of Zoology* **2019**, 51, (6), 1999-2399
12. Habiba, U., Nida Zia, Ayesha Maqbool, Muhammad Safdar, Altaf Mehmood, **Umar,S**, Detection and phylogeny of infectious bursal disease virus (IBDV) during field outbreaks in broilers. *Pakistan Journal of Zoology* **2019**, 52, 659-667

13. Maan,M.K., G. M., Munibullah and **Umar,S.**, Bovine Ocular Squamous Cell Carcinoma: Clinico-pathological Report of Twenty Five Cases. *Pakistan Journal of Zoology* **2019**, 51, 387-389.
14. Mahmood,S., M. Y., A. Aslam, A.A. Anjum, **Umar,S.**, Aamerzish Mushtaq and M.L. Sohail, Evidence of Biological Detoxification Potential of *Saccharomyces cervisiae* against Aflatoxin B1 in Quails (*Coturnix japonica*). *Pakistan Journal of Zoology* **2019**, 51, 887-893
15. Azeem,T., M. Y. T., Asim Aslam, Sajjad Ahmed, Salman Ahmed Abid, Abdullah Iqbal, Naeem Akhtar, Muhammad Saleem, Aamerzish Mushtaq and **Umar, S.**, Hematobiochemical Disorder in Camels Suffering from different Hemoparasites. *Pakistan Journal of Zoology* **2019**, 51, 591-596.
16. Naveed, A.; Ali, S.; Ahmed, H.; Simsek, S.; Rizwan, M.; Kaleem, I.; Gondal, M. A.; Shabbir, A.; Pervaiz, F.; Khan, M. A.; Nadeem, M. S.; Afzaal, M. S.; **Umar, S.**, Seroprevalence and Risk Factors of *Toxoplasma gondii* in Wild Birds of Punjab Province, Pakistan. *Journal of Wildlife Diseases* **2019**, 55, (1), 129-135.
17. Bayraktar, E.; **Umar, S.**; Yilmaz, A.; Turan, N.; Franzo, G.; Tucciarone, C. M.; Cecchinato, M.; Cakan, B.; Iqbal, M.; Yilmaz, H., First Molecular Characterization of Avian Metapneumovirus (aMPV) in Turkish Broiler Flocks. *Avian Diseases* **2018**, 62, (4), 425-430.
18. Daud, S.; Ahmed, N.; Naudhani, S.; Younus, M.; Manzoor, S.; Firyal, S.; Yaqub, T.; Hashmi, A. S.; Riaz ul, A.; Wasim, M.; **Umar, S.**, In-Silico Analysis of Gene ALS2 Genetic Variants Identified in the Affected Horses and Humans With Motor Neuron Disease. *Journal of Equine Veterinary Science* **2018**, 62, 60-65.
19. Yaqoob, M.; Wang, L. P.; Kashif, J.; Memon, J.; **Umar, S.**; Iqbal, M. F.; Fiaz, M.; Lu, C. P., Genetic characterization of phenicol-resistant *Escherichia coli* and role of wild-type repressor/regulator gene (acrR) on phenicol resistance. *Folia Microbiol (Praha)* **2018**, 63, (4), 443-449.
20. Yasmin, F.; Yaqub, T.; Idrees, M.; Shahzad, W.; Hashmi, A. S.; Aqil, K.; Mukhtar, N.; Zahoor, M. Y.; Akhtar, N.; **Umar, S.**, Cloning and Expression of NS3 Gene of Pakistani Isolate Type 2 Dengue Virus. *Journal of Veterinary Research* **2018**, 62, (1), 17-26.
21. Yasmin F, Y. T., Khan I, Shahzad W, Saeed Hashmi A, **Umar,S.**, Antiviral Activity of Thiazolidine Derivatives Against Dengue Virus in Huh-7 Cell Line *Jundishapur Journal of Microbiology* **2018**, 11, (2), e62467.
22. Nisa, Q. M. Y., Azhar Maqbool and **Umar,S.** Mycoplasma gallisepticum Modifies Virus Shedding and Immune Response of Newcastle Disease Virus in Broilers. *Indian Journal of animal Research* **2018**.
23. Nisa, Q. M. Y., Azhar Maqbool and **Umar, S.** Pathological alterations during co-infection of Newcastle disease virus with *Escherichia coli* in broiler chicken. *Pakistan Journal of Zoology* **2018**, 50, 495-503.
24. Aqil, A., Muti-ur-Rehman Khan, Rizwan Qayyum, Abdul Wahab Manzoor, Farkhanda Yasmeen, Muhammad Luqman Sohail, **Umar,S.**, Patho-biological studies of PPR virus in experimentally infected goats with reference to immunomodulatory activity of *Nigella. Sativa* seeds. *Journal of Animal and Plant Sciences* **2018**, 28, 474-484
25. Imran, M., Ahmed, S., Ditta, Y., Mehmood, S., Khan, M., Gillani, S., Rasool, Z., SohaiL, M., Mushtaq, A., & **Umar, S.**, Effect of microencapsulated butyric acid supplementation on growth performance, ileal digestibility of protein, duodenal morphology and immunity in broilers. *Journal of the Hellenic Veterinary Medical Society* **2018**, 69, (3), 1109-1116
26. **Umar,S.**; Ana Triana Maiyah , Mehwish Shareef , Hajra Qadir , Qamar un Nisa Seema Abbas. Susceptibility of avian pathogenic *Escherichia Coli* from zoo birds in Indonesia to antibiotics and disinfectants. *Pakistan Journal of Pharmaceutical Sciences* **2018**, 31(2), 593-598.
27. **Umar, S.**; Muhammad Irfan Khan, Muhammad Younus, Kiran Aqil, Rizwan Qayyum, Muhammad Yaqoob, Muhammad Tanveer Munir, Muhammad Ali Abdullah Shah. Safety of Fenbendazole in common peafowl (*Pavo cristatus*) *Pakistan Journal of Pharmaceutical sciences* **2018**, 31(1):159-167.
28. Rehman, Z. U.; Meng, C.; Sun, Y.; Mahrose, K. M.; **Umar, S.**; Ding, C.; Munir, M., Pathobiology of Avian avulavirus 1: special focus on waterfowl. *Veterinary Research* **2018**, 49, (1), 94.
29. **Umar, S.**; Guerin, J. L.; Ducatez, M. F., Low Pathogenic Avian Influenza and Coinfecting Pathogens: A Review of Experimental Infections in Avian Models. *Avian Diseases* **2017**, 61, (1), 3-15.
30. Belkasm, S. F. Z.; Fellahi, S.; **Umar, S.**; Delpont, M.; Delverdier, M.; Lucas, M. N.; Bleuart, C.; Kichou, F.; Nassik, S.; Guerin, J. L.; Fihri, O. F.; Ducatez, M. F.; El Houadfi, M., Efficacy of Massachusetts and 793B Vaccines Against Infectious Bronchitis Moroccan-Italy 02 Virus in Specific-Pathogen-Free Chickens and Commercial Broilers. *Avian Diseases* **2017**, 61, (4), 466-471.
31. Yaqoob, M.; Wang, L. P.; Memon, J.; Kashif, J.; **Umar, S.**; Naseer, Z.; Iqbal, M. F.; Fiaz, M.; Lu, C. P., Role of topoisomerase mutations, plasmid mediated resistance (qnr) and acrAB efflux pump in

- fluoroquinolone resistant clinical isolates of avian Escherichia coli. *Molecular Genetics, Microbiology and Virology* **2017**, 32, (1), 49-54
32. Aqil, K., M.-u. R. K., Asim Aslam, Aqeel Javeed, Rizwan Qayyum, Farooque Yousaf, Farkhanda Yasmeen, Muhammad Luqman Sohail,, **Umar, S.**, In vitro Antiviral activity of Nigella Sativa against peste des petits ruminants (PPR) virus. . *Pakistan's Journal of zoology*. **2017**, 50, 2223-2228.
 33. Khan, N.U., M. H. S., Aneela Zameer Durrani, Nisar Ahmad, Ayesha Hassan, Sultan Ayaz, **Umar, S.**, Muhammad Luqman Sohail, Muhammad Shafee, Ikramullah Khan, Mumtaz Ali Khan, Azmat Ullah Khan, Naimat Ullah Malik and Abdul Razzaq, Cryptosporidium: An Emerging Zoonosis in Southern Khyber Pakhtunkhwa (KPK), Pakistan. *Pakistan Journal of Zoology* **2017**, 49, 1455-1461.
 34. Shahid, N.; Rao, A. Q.; Kristen, P. E.; Ali, M. A.; Tabassum, B.; **Umar, S.**; Tahir, S.; Latif, A.; Ahad, A.; Shahid, A. A.; Husnain, T., A concise review of poultry vaccination and future implementation of plant-based vaccines. *World's Poultry Science Journal* **2017**, 73, (3), 471-482
 35. Rehman, Z. U.; Meng, C.; **Umar, S.**; Mahrose, K. M.; Ding, C.; Munir, M., Mast cells and innate immunity: master troupes of the avian immune system. *World's Poultry Science Journal* **2017**, 73, (3), 621-632.
 36. Rehman, Z. U.; **Umar, S.**; Meng, C.; Ullah, Z.; Riaz, F.; Rehman, S. U.; Ding, C., Dendritic cell harmonised immunity to poultry pathogens; a review. *World's Poultry Science Journal* **2017**, 73, (3), 581-590.
 37. Ahmed, H. A., Ali, A., Ali, A., Abid, S.A. and **Umar, S.**, Surgical Correction of Intermittent Unilateral Hind Limb Extension in Buffalo and Cattle. *Pakistan Journal of Zoology* **2017**, 49, 717-719.
 38. Ali, S., Neubauer, H., Melzer, F., Khan, I., Akhter, S, Jamil, T. and **Umar, S.**, Molecular Identification of Bovine Brucellosis Causing Organisms at Selected Private Farms in Pothohar Plateau, Pakistan. *Pakistan Journal of Zoology* **2017**, 49, 1111-1114
 39. Ali, S.; Akhter, S.; Neubauer, H.; Melzer, F.; Khan, I.; Abatih, E. N.; El-Adawy, H.; Irfan, M.; Muhammad, A.; Akbar, M. W.; **Umar, S.**; Ali, Q.; Iqbal, M. N.; Mahmood, A.; Ahmed, H., Seroprevalence and risk factors associated with bovine brucellosis in the Potohar Plateau, Pakistan. *BMC Research Notes* **2017**, 10, (1), 73
 40. Prince, K., M. S. K., Muhammad Ijaz, Aftab Ahmad Anjum, Muhammad Asad Ali, Jawaria Ali Khan, Nisar Ahmad, Rais Ahmed, Aamerzish Mushtaq, **Umar, S.** and Yung-Fu Chang,, Dynamics of Selenium Deficiency in Bovines in District Kasur, Punjab, Pakistan. *Pakistan Journal of Zoology* **2017**, 50, 611-617.
 41. Sohail; Mashwani, Z. R. U. R.; Raja, N. I.; Ghaffar, A.; Shah, M. A.; Yameen, M.; **Umar, S.**; Sohail, M. L., Sliver Nanoparticle; A Promising Anti-Mosquito's Agent: A Review. *Nanoscience and Nanotechnology Letters* **2017**, 9, (12), 1875-1890.
 42. Usman, M.; Sarwar, F.; **Umar, S.**; Subhan, S.; Sohail, M. L.; Younus, M.; Shah, M. A. A clinical Survey of viral respiratory diseases of commercial poultry in Pakistan. *Journal of Animal & Plant Sciences* **2017**, 27 (6) 2086-2089.
 43. Rehman, Z. U.; Tayyab Aziz, Shaukat Ali Bhatti, Gulraiz Ahmad, Jamil Kamran, **Umar, S.**; Chunchun Meng and Chan Ding (2016) Effect of Beta Mannanase on the Performance and Digestibility of Broilers. *Asian Journal of Animal and Veterinary Advances* **2016**, 11, 393-398.
 44. Rehman, Z. U.; Meng, C.; **Umar, S.**; Munir, M.; Ding, C., Interaction of infectious bursal disease virus with the immune system of poultry. *World's Poultry Science Journal* **2016**, 72, 805-820.
 45. Abid, S. T. A., Z. I. Chaudhary1 , Mansur-ud-din Ahmad2 Z. U. Rehman, **Umar, S.**, Emerging threat of necrotic enteritis in poultry and its control without use of antibiotics: a review. *Journal of Plant and Animal Sciences* **2016**, 26, 1556-1667.
 46. Ahsan, U.; Cengiz, Ö.; Raza, I.; Kuter, E.; Chacher, M. F. A.; Iqbal, Z.; **Umar, S.**; Çakir, S., Sodium butyrate in chicken nutrition: the dynamics of performance, gut microbiota, gut morphology, and immunity. *World's Poultry Science Journal* **2016**, 72, 265-275.
 47. Ali, S., Shamim Akhter, Ali Muhammad, Iahtasham Khan, Muhammad Naeem Iqbal, **Umar, S.**, Haroon Ahmed and Quran Ali. Identification, Characterization and Antibiotic Sensitivity of Aeromonashydrophila, a Causative Agent of Epizootic Ulcerative Syndrome in Wild and Farmed Fish from Pothwar, Pakistan. *Pakistan Journal of Zoology*. **2016**, 48, 899-901
 48. Munir, M. T.; **Umar, S.**; Shahzad, K. A.; Shah, M. A., Potential of Magnetic Nanoparticles for Hepatitis B Virus Detection. *Journal of Nanoscience and Nanotechnology* **2016**, 16, 12112-12123

49. **Umar, S.**; Muhammad Irfan Khan, Muhammad Younus, Muhammad Yaqoob, Qamar-un-Nisa. A Report on An outbreak of botulism in broilers in Pakistan. *Pakistan Journal of Zoology*, **2016**, 48, 298-300
50. Ahmed, S., Muhammad Mehran, Anjum Khalique, Khalid Javed, Abdur Rahman, **Umar, S.**, Sami Ullah Cumulative effect of phytase and vitamin D supplementation on performance and bone mineralization in broiler. *Eurasian Journal of Veterinary Sciences*. **2105**, 31, 102-108.
51. Khan, M. S. A., Abdur Rahman, Fayyaz Ahmad, Anjum Khaleeq, Nisar Ahmad, **Umar, S.**, Sami Ullah, Burhan E Azam. Comparative efficacy of urea and slow-release non-protein nitrogen on performance of Nili-ravi buffalo calves. *Pakistan Journal of Zoology* **2015**. 47, 1097-1102.

52. **Umar, S.**, Muhammad Younus, Hafiz Umar Arshad, Muhammad Ali Abdullah Shah, Imtiaz Ahmad Khan Muhammad Numan and Farooq Tahir. Recent Advances in Vaccination Strategies and Future Perspectives for the Control of Newcastle Disease in Pakistan: A Review. *International Journal of Veterinary Science* **2015**, 4: 136-141.
53. **Umar, S.**, A. A., Muhammad Younus, Muhammad Kashif Maan, Shahzad Ali, Waseem Ahmad Khan and Muhammad Irfan. Prevalence of Canine Parvovirus infection at different Pet clinics in Lahore, Pakistan. *Pakistan Journal of Zoology* **2015**, 47, (3), 2148-14.
54. Sarwar, F; Muhammad Usman, **Umar, S.**; Mehdi Hassan, Abdul Rehman, Abdul Rashid. Some Aspects of Backyard Poultry Management Practices in Rural Areas of District Rawalpindi, Pakistan. *International Journal of Livestock research* **2015**, 5, 5,14-20.
55. Shah, M. A.; **Umar, S.**; Ali, Z.; Yang, H.; Liu, K.; Mao, L., Applications of nanoparticles for DNA based rabies vaccine. *Journal of Nanoscience Nanotechnology* **2014**, 14, (1), 881-91
56. **Umar, S.**, Bilal Ahmad, Muhammad Younas Rana, Jabar Zaman Khan Khattak and Muhammad Imran Shabbir. Hepatic.Dysfunction in Patients Infected with Dengue Virus. *Journal of the College of Physicians and Surgeons Pakista*. *Journal of the College of Physicians and Surgeons Pakistan* **2014**, 24, (1), 73-74.
57. Ullah, S.; Riaz, N.; **Umar, S.**; Shah, M. A. A., DNA Vaccines against Avian Influenza: current research and prospects. *World's Poultry Science Journal* **2013**, 69, (1), 125-134.
58. **Umar, S.**, Abida Arshad, Bilal Ahmad and Muhammad Arshad Clinicobiochemcal and hematological changes in broilers induced by concurrent exposure to Aflatoxins B1 and Ochratoxins A. *Journal of Public Health and Biological Sciences* **2013**, 1, 79-85.

UNDERDEVELOPMENT/UNDER REVIEW

1. **Umar, S.**, Chen. K., Anderson, B., Grey, GC (2021) Multiple Viral Pathogens Detected in Swine Oral Secretion Samples Among Healthy Production Pigs. *Veterinary Medicine & Science (under review)*.
2. Anderson, B., Gleason, J., **Umar, S.**, Gray GC (2021) Molecular characterization of Adenovirus from hospitalized patients in North Carolina US (*under development*)
3. Anderson, B., Thanaporn, M., **Umar, S.**, Gray GC (2021) A review article on swine pathogens in China (*under development*)
4. Benjamin D. Anderson, Dingmei Zhang, Myagmarsukh Yondon, **Umar, S.**, Ege K. Duman, Nancy Henshaw, and Gregory C.Gray (2021) Feline Kidney Cells (CRFK) are Permissive to Adenovirus Type 1 Isolated from Human Clinical Samples (*under development for Clinical Virology*)

BOOK CHAPTER

1. Anderson, B., Thanaporn, M., **Umar, S.**, Barne, A., Gray GC. Reverse Zoonotic Transmission (Zooanthropozoonosis): An Increasing Threat to Animal Health. Book chapter for Zoonosis- infection affecting humans & animals. (*Under development and review*)

RESEARCH SUPPORT

Master research award (PI: Prof. Younus Rana)

Department of Pathology, University of Veterinary & Animal Science, Lahore Pakistan

- Toxicopathological and immunosuppressive effects induced by concurrent exposure of AflatoxinB1 and Ochratoxin A in broilers

Role: M.Phil scholar

PhD fellowship Award (PI: Prof. Maxence Delverdier)

INRA, UMR 1225, National Veterinary School Toulouse, France

- Avian influenza and co-infections: investigation of the interactions in the poultry model"/Molecular epidemiology of avian respiratory pathogens in Pakistan (2014-2017).

Role: PhD Scholar

Tubitak Postdoctoral fellowship Award (PI: Prof. Huseyin Yilmaz)

Department of Virology, Istanbul University, Istanbul, Turkey

- Molecular detection and genetic diversity of influenza D virus in Turkish dairy cattle
- Molecular identification and phylogeny of avian metapneumovirus in Turkish broiler flocks
- Molecular detection, phylogeny, and pathology of *A. paragallinarum* from infectious bronchitis virus vaccinated chickens in Turkey

Role: Postdoctoral fellow

DKU-Postdoctoral fellowship award (PI: Prof. Gregory Gray/Benjamin Anderson)

NIH/NIAID grant R01AI108993-01A1, Global Health Research Center, Duke Kunshan University, China

- Multiple Virus Coinfections Detected in Pig Oral Secretion Samples Collected from Swine Farms in China

Role: Postdoctoral fellows

HONORS & AWARDS

- Member of Duke Kunshan University (DKU) Institutional Animal Care and Use Committee (IACUC (2021-Present))
- Competitively awarded **Postdoctoral fellowship award** by Turkish Funding agency (TUBITAK) Turkey (2018-2019)
- Competitively awarded 4-year **PhD fellowship** award by Campus France & HEC Pakistan for Doctoral studies in France (2014-2017)
- **Chancellor's award** for securing first position in "Master degree" (2009-2011), CGPA 4.0 out of 4.0
- **Chancellor's award** for securing first position in "Undergraduate program" (2003-2008) CGPA 3.96 out of 4.0
- **Certificate of excellence** (Star laureate Award) in recognition of outstanding achievements in the field of Education (2008).
- Presented research work in various conferences held in France, Germany, Netherland, Luxembourg, Croatia, Turkey, China and Pakistan.