

# Dr. Sohail Raza

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Assistant Professor  
Associate Fellow Higher Education Academy, UK  
HEC- Approved PhD Supervisor  
Volunteer for diagnosis of COVID-19  
IFBA Certified Professional in Biorisk  
Management  
Institute of Microbiology  
University of Veterinary and Animal Sciences,  
Lahore

Father's Name: Mirza Muhammad Saeed

Date of Birth: February 28, 1986

## EDUCATIONAL QUALIFICATIONS:

| University/College                                   | Degree/Diploma               | Division/CGPA | Year      |
|------------------------------------------------------|------------------------------|---------------|-----------|
| Huazhong Agricultural University, Wuhan, China       | PhD (Molecular Microbiology) | FIRST         | 2012-2016 |
| University of Veterinary and Animal Sciences, Lahore | MPhil (Microbiology)         | FIRST         | 2009-2011 |
| University of Agriculture, Faisalabad                | DVM                          | FIRST         | 2004-2009 |
| B.I.S.E Gujranwala                                   | FSc                          | FIRST         | 2002-2004 |

## SERVICE/FIELD EXPERIENCE:

| Position                        | Where Employed / Worked                                                                                                   | Duration                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Assistant Professor             | Institute of Microbiology, Faculty of Veterinary Science (FVS), University of Veterinary & Animal Sciences (UVAS), Lahore | November, 2016 to Date         |
| Postdoctoral Research Scientist | The Pirbright Institute, UK                                                                                               | September, 2024<br>March 2025  |
| Research Fellow                 | Animal Health Laboratories, Animal Science Institute (ASI), National Agriculture Research Centre, Islamabad               | October, 2011 to<br>June, 2012 |

## AWARDS / MERITS / HONOURS / LETTERS OF APPRECIATIONS:

- \* Chinese Government Scholarship for PhD (2012)
- \* 'Distinguished Research Scholar Award' from State key laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan, China (2016)

- \* 'Award for Outstanding Contribution in Research' from Huazhong Agricultural University, Wuhan , China (2016)

## **TRAININGS (FOREIGN / LOCAL) / COURSES / CERTIFICATES / WORKSHOPS:**

| <b>Title</b>                                                                                                                                                                               | <b>Year</b>              | <b>Organized/Participated</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| Medical Laboratory Technology Pre-internship Seminar organized by IOM                                                                                                                      | 17 January, 2024         | <b>Organizer</b>              |
| Two Days Training Workshop Overview of ISO 35001 Documentation organized by IOM and HSP                                                                                                    | April 22-23, 2024        | <b>Organizer</b>              |
| National Workshop on Genomic Analysis of Infectious Bronchitis Virus and Disease Control Interventions organized by IOM                                                                    | May 2 - 3, 2024          | <b>Organizer</b>              |
| Two Days Training Workshop Implementation of ISO 35001 organized by IOM and HSP                                                                                                            | August 08-09, 2024       | <b>Organizer</b>              |
| Assessment of Impact and Overcoming Challenges of EPI in Punjab organized by UVAS Society for Microbiology, and ASM Student Chapter UVAS                                                   | 30 April, 2024           | Organizer                     |
| Training workshop on Capacity Building Training of Lab Attendants Regarding Biosecurity Protocols in Research Institutes organized by IOM, PCSIR and HSP                                   | 24 April, 2024           | Secretary                     |
| One day Creative Art Poster Competition and Awareness Seminar on HIV/AIDS by IOM and Punjab Aids Control Program                                                                           | 21 March, 2024           | Secretary                     |
| Two Days Training Workshop Implementation of ISO 35001 organized by IOM and HSP                                                                                                            | August 08-09, 2024       | Resource Person               |
| Two Days Training Workshop Overview of ISO 35001 Documentation organized by IOM and HSP                                                                                                    | April 22-23, 2024        | Resource Person               |
| One Day training workshop on Patent Drafting Organized by ORIC, UVAS,                                                                                                                      | May 23, 2024             | Participant                   |
| Four Days Hands On Training on Techniques in Microbiology organized by IOM,                                                                                                                | February 20 to 23, 2024  | Resource Person               |
| Secretary One day Hands on Training Workshop on Operation of Lab Equipment organized by IOM and The world wide scientific                                                                  | 16 August, 2023          | Secretary                     |
| Participant 01 Day Establishing/Strengthening Institutional Biosafety Committees at Select Universities in Pakistan Second Meeting of the Technical Working Group organized by HSP and ABM | 18 July, 2023            | Participant                   |
| Participant 04 Days training program on safe and secure collection and transportation of priority pathogen samples Organized by US                                                         | 18 June to 21 June, 2023 | Participant                   |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------|
| National Academies, HSP and ABM                                                                                                                            |                                                    |                 |
| Capacity Building Course for Principal Investigators Lahore, Pakistan                                                                                      | 09 – 13 May, 2022                                  | Participant     |
| 1 <sup>st</sup> Pakistan National Biosafety Clearing House (BCH) workshop                                                                                  | 28 February to 2 <sup>nd</sup> March, 2022         | Participant     |
| Modern Diagnostic Techniques PCR and Ultrasonography                                                                                                       | 27 December, 2021 to 7 <sup>th</sup> January, 2022 | Resource Person |
| 04 Days Training on Safe and Secure Sample Collection and Transportation organized by Association for Biorisk Management                                   | 28–31 October, 2021                                | Participant     |
| Services as Conference Secretary in 4 <sup>th</sup> WPSA International (Virtual) One Health Conference, organized by UVAS, WPSA and PVMC, Islamabad        | 09 – 10 September, 2021                            | Organized       |
| Services as Editor of the Abstract Book in 4 <sup>th</sup> WPSA International (Virtual) One Health Conference, organized by UVAS, WPSA and PVMC, Islamabad | 09 – 10 September, 2021                            | Organized       |
| Services as Member Scientific Committee in 4 <sup>th</sup> WPSA International (Virtual) One Health Conference, organized by UVAS, WPSA and PVMC, Islamabad | 09 – 10 September, 2021                            | Organized       |
| Services as Reviewer in 4 <sup>th</sup> WPSA International (Virtual) One Health Conference, organized by UVAS, WPSA and PVMC, Islamabad                    | 09 – 10 September, 2021                            | Organized       |
| 02 Days BRM Refresher Course at Virology Laboratory organized by Association of Biorisk Management                                                         | 05 – 06 October, 2021                              | Organized       |
| 02 Days Training on Diagnosis of COVID-19 using RT-PCR organized by IOM, UVAS, Lahore at Veterinary academy                                                | 13 – 14 July, 2021                                 | Resource Person |
| 03 Days Training on Working in BSL-3 Laboratory for Emerging Pathogens organized by IOM, UVAS, Lahore at Veterinary academy                                | 06 – 08 July, 2021                                 | Resource Person |
| 05 Days Virtual Training of Biorisk Management organized by Association of Biorisk Management                                                              | June 28 – July 02, 2021                            | Participant     |
| Seminar on Cooperation in Animal Epidemic Prevention and Control for Belt & Road Countries by Ministry of commerce republic of China                       | 12 May - 01 June, 2021                             | Participant     |
| Virtual Training Program for Veterinary                                                                                                                    | 11 April, 2021                                     | Secretary       |

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| Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA)                                         |                    |                 |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 11 April,2021      | Organizer       |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 11 April,2021      | Resource Person |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 10 April,2021      | Secretary       |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 10 April,2021      | Organizer       |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 10 April,2021      | Resource Person |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 4 April,2021       | Secretary       |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 4 April,2021       | Organizer       |
| Virtual Training Program for Veterinary Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA) | 4 April,2021       | Resource Person |
| 03 Days Hands on Training on Advanced Biorisk Management for Officer of Diagnostic Lab L&DD Department, Punjab                                                 | 10 – 12 March,2021 | Resource Person |
| Participated in Risk assessment for Covid-19 testing facilities Part I organized by PBSA and HSP                                                               | Sep 09 2020        | Participated    |
| Participated in Risk assessment for Covid-19 testing facilities Part II organized by PBSA and HSP                                                              | Sep 16 2020        | Participated    |
| Participated in Biosafety and biosecurity aspects of sample collection, packaging and                                                                          | Sep 23 2020        | Participated    |

|                                                                                                                             |                         |                            |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------|
| transport organized by PBSA and HSP                                                                                         |                         |                            |
| Participated in Use of biological safety cabinets (BSC) for COVID-19 samples handling organized by PBSA and HSP             | Sep 30 2020             | Participated               |
| Participated in Decontamination and extended use of PPE organized by PBSA and HSP                                           | Oct 07 2020             | Participated               |
| Participated in Specifications, appropriate and proper use of PPE organized by PBSA and HSP                                 | Oct 14 2020             | Participated               |
| Participated in Decontamination of material, equipment and laboratories organized by PBSA and HSP                           | Oct 21 2020             | Participated               |
| Participated in Good lab practices in a PCR lab organized by PBSA and HSP                                                   | Oct 28 2020             | Participated               |
| Participated in Samples inventory management: retention policy and practices, biosecurity aspects organized by PBSA and HSP | Nov 04 2020             | Participated               |
| Participated in Biological waste management organized by PBSA and HSP                                                       | Nov 11 2020             | Participated               |
| Participated in Competency assessment of laboratory professionals organized by PBSA and HSP                                 | Nov 18 2020             | Participated               |
| Participated in Occupational Health organized by PBSA and HSP                                                               | Nov 25 2020             | Participated               |
| Participated in Incidents: response, reporting, learning and corrective measures organized by PBSA and HSP                  | Dec 02 2020             | Participated               |
| One day awareness seminar and hands on training on novel coronavirus (2019-nCoV) at Institute of Public health, Lahore      | February 17, 2020       | Secretary/ Resource person |
| Working In BSL-3 Laboratory                                                                                                 | April 8 - 10, 2020      | Resource person            |
| Diagnosis Of Covid-19 Using RT-PCR                                                                                          | April 13 - 14, 2020     | Resource person            |
| Biorisk Management                                                                                                          | September 02 - 04, 2020 | Resource person            |
| Laboratory biosafety, equipment maintenance and waste disposal                                                              | October 13 – 15, 2020   | Resource person            |
| Emerging respiratory viruses including COVID-19: methods for detection, prevention, response and control                    | April 13, 2020          | Participant                |
| Lessons learned from Around the World in                                                                                    | April 14, 2020          | Participant                |

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| Dealing with COVID-19                                                                      |                                                      |                             |
| Introduction to Foot-and-Mouth Disease                                                     | July 01,2020                                         | Participant                 |
| Introduction to Progressive Control Pathway                                                | July 05,2020                                         | Participant                 |
| What is the Progressive Control Pathway                                                    | August 04,2020                                       | Participant                 |
| Public-Private Partnership in the Veterinary Domain: An Introductory Course                | June 27, 2020                                        | Participant                 |
| Microbiome, Immunity and Vaccines                                                          | August 30,2020                                       | Participant                 |
| International Webinar on COVID-19 (Biochemical Diagnosis & Community Response)             | August 21,2020                                       | Participant                 |
| 05 Days BRM Training Program at Virology Laboratory                                        | October 12 - 16, 2020                                | Secretary/ Organizer        |
| ASM 52 weeks of Biosafety (One Health Initiative Training Program)                         | 2019                                                 | ASM                         |
| Awareness Level Biosafety Workshop                                                         | 18 <sup>th</sup> June, 2019                          | Organizer & Resource Person |
| Academic writing for publication                                                           | 1 <sup>st</sup> – 12 <sup>th</sup> , April, 2019     | Participant                 |
| Poultry Viral Diagnostics                                                                  | 5 <sup>th</sup> – 12 <sup>th</sup> March,2018        | Resource Person             |
| 1 <sup>st</sup> workshop for Biosafety Officers (BSO)                                      | April 12,2018                                        | Organizer & Resource Person |
| 2 <sup>nd</sup> workshop for Biosafety Officers (BSO)                                      | 13 <sup>th</sup> – 14 <sup>th</sup> April,2018       | Organizer & Resource Person |
| International Halal Conference                                                             | April 17,2018                                        | Participant                 |
| Halal Training workshop on “Halal Food Safety Standards”                                   | April 18,2018                                        | Participant                 |
| International Training Workshop on Evaluation of Foot and Mouth Disease Virus Vaccine      | 23 <sup>rd</sup> – 28 <sup>th</sup> April,2018       | Participant                 |
| Hands on Training Workshop on Biosafety                                                    | June 22, 2018                                        | Resource Person             |
| “One Health Training Workshop” organized by The University of Tennessee at Bali, Indonesia | 23 <sup>rd</sup> – 26 <sup>th</sup> July, 2018       | Participant                 |
| Molecular Characterization and Field Surveillance of Foot and Mouth Disease Virus          | 30 <sup>th</sup> July – 3 <sup>rd</sup> August, 2018 | Participant                 |
| Awareness Level Biosafety Workshop                                                         | 8 <sup>th</sup> – 10 <sup>th</sup> August, 2018      | Organizer & Resource Person |
| International Poultry Expo-2018                                                            | 27 <sup>th</sup> – 29 <sup>th</sup> September,       | Participant                 |

|                                                                                                                     |                                                       |                             |
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|                                                                                                                     | 2018                                                  |                             |
| Advanced Level Biosafety Workshop                                                                                   | 26 <sup>th</sup> – 27 <sup>th</sup> November, 2018    | Organizer & Resource Person |
| Wet Workshop                                                                                                        | 10 <sup>th</sup> – 14 <sup>th</sup> September, 2017   | Participant                 |
| Master Trainer Workshop                                                                                             | 29 <sup>th</sup> July – 03 <sup>rd</sup> August, 2017 | Participant                 |
| National Workshop on Intellectual Property Protection for the Inventions Related to Agriculture and Animal Sciences | 9 <sup>th</sup> – 10 <sup>th</sup> October, 2017      | Participant                 |
| Isolation and molecular characterization of shiga toxin producing <i>E. Coli</i> 0157                               | 1 <sup>st</sup> – 5 <sup>th</sup> March, 2011         | Participant                 |
| Modern Techniques in Angiogenesis and Toxicology                                                                    | 1 <sup>st</sup> – 8 <sup>th</sup> June, 2010          | Participant                 |
| Biomass production of <i>Pasturella multocida</i> for vaccine preparation                                           | 23 <sup>rd</sup> – 27 <sup>th</sup> August, 2010      | Participant                 |
| Production and evaluation of cell cultured base FMD and HS Vaccine                                                  | 2 <sup>nd</sup> – 12 <sup>th</sup> August, 2010       | Participant                 |
| Propagation of Newcastle Disease Virus in Chicken & characterization of its immunogens using SDS-PAGE               | 31 <sup>st</sup> May – 4 <sup>th</sup> June 2010      | Participant                 |

## MEMBERSHIP OF PROFESSIONAL SOCIETIES:

1. Pakistan Biological Safety Association (Lifetime Member)
2. Pakistan Veterinary and Medical Council (PVMC) (Lifetime Member)
3. Member, Board of Studies, Department of Microbiology, UVAS, Lahore
4. American Society for Microbiology (ASM)
5. International Society for Infectious diseases (ISID)
6. International Veterinary Vaccinology Network (IVVN)

## PUBLICATIONS:

### RESEARCH ARTICLES PUBLISHED IN (HEC Approved) Journals

1. Abbas, S., Azeem, S., Raza, S. *et al.* Evaluating the presence of bovine coronavirus in diarrheic calves in Lahore, Punjab, Pakistan: a food security risk. *Braz J Microbiol* **57**, 125 (2026). <https://doi.org/10.1007/s42770-026-01931-x>
2. Ali, I., A. Javaria, F. Jamil, M. Ibrahim, S. Raza, M.T. Navid and M.A. Rasheed. 2026. Computer-aided drug design approaches for discovery of antiviral compounds targeting outer capsid vp5 protein of African horse sickness virus. *Pakistan Journal of Agricultural Sciences* 63:479-491.

3. Muhammad Usman Irshad, Sohail Raza, Imran Altaf, Sehrish Firyal, Aayesha Riaz and Muhammad Ilyas Riaz, 2025. First Molecular Evidence and Phylogenetic Analysis of Bovine Herpesvirus-4 in Bovine Milk of Mastitic and Healthy Cows in Pakistan. *Egyptian Journal of Veterinary Sciences*, 1-7.
4. Ali MM, Farhad Z, Wasim M, **Raza S**, Almutairi MH, Zahra K, et al. (2024) Evaluation of genotoxic effect via expression of DNA damage responsive gene induced by ivermectin on MDBK cell line. *PLoS ONE* 19(5): e0296255. <https://doi.org/10.1371/journal.pone.0296255>
5. Arshad, S Iqbal MA, Sarwar N, **Raza S**, Firyal S, Riaz R, Akram AM, Munir R, Khan AR, Sarwar M and Arshad MI. Comparative assessment of  $\beta$ -propiolactone, binary ethyleneimine and formaldehyde in inactivating Foot and Mouth Disease virus serotype O. *Asian J. Agric.Biol.* 2024(3) July-Sep: 2023349
6. Muhammad Ilyas Riaz, Masood Rabbani, **Sohail Raza**, Ali Raza Awan, Aleena Kokab and Rida Haroon Durrani. In Vivo Evaluation of purD Gene Deleted Brucella abortus in Mice as Potential Vaccine Candidate for Control of Brucellosis. *Pakistan Journal of Zoology* **2024**, 56, 1271-1278, <https://dx.doi.org/10.17582/journal.pjz/20220901090919>.
7. Shahin F, **Raza S**, Chen X, Hu C, Chen Y, Chen H, Guo A. Molecular Characterization of UL50 (dUTPase) Gene of Bovine Herpes Virus 1. **Animals**. 2023; 13(16):2607. <https://doi.org/10.3390/ani13162607> (**Impact Factor: 3.0**)
8. Arshad, **S.**; **Raza**, S.; Rafique, R.; Altaf, I.; Sattar, A. Lack of antiviral activity of ivermectin against foot-and-mouth disease virus serotype O in BALB/c mice. *Microb Pathog* **2023**, 182, 106245, doi:10.1016/j.micpath.2023.106245. (**Impact Factor: 3.8**)
9. Raza A, Asif Rasheed M, **Raza S**, Tariq Navid M, Afzal A, Jamil F. Prediction and analysis of multi epitope based vaccine against Newcastle disease virus based on haemagglutinin neuraminidase protein. *Saudi J Biol Sci* (2022) 29(4):3006-14. Epub 2022/05/10. doi: 10.1016/j.sjbs.2022.01.036. PubMed PMID: 35531218; PubMed Central PMCID: PMC9073007 (**Impact Factor: 4.219**)
10. Ali I, Shoukat T, Parveen T, **Raza S**, Jamil F, Kanwal S, Ibrahim M and Rasheed MA, 2022. Multi epitope based vaccine design and analysis against *Mycoplasma bovis* using immunoinformatic approaches. *Pak Vet J*, 42(1): 33-40. <http://dx.doi.org/10.29261/pakvetj/2021.068> (**Impact Factor: 1.175**)
11. Amoon Danial SA, **Sohail Raza** and Muhammad Hassan Mushtaq. Serological Evidence of Bovine Herpes Virus-1 in Goats in Lahore, Pakistan. *Pakistan Journal of Zoology* (2022) 54(6):2993 - 6. (**Impact Factor: 0.831**)
12. Nawaz M, Ashraf MA, Ali MA, Shabbir MZ, Shabbir MAB, Altaf I, **Raza S**, Rafique S, Hassan S, Sardar N, Mehmood A, Aziz MW, Fazal S, Khan MT, Atique HMM, Asif A, Ullah Z, Iqbal M, Imtiaz

- T, Anwar M, Mukhtar N, Yaqub T. Renaissance Helps in Early Clearance of SARS-CoV-2: *In-Vivo* Activity of the Iodine Complex in *Rhesus macaque*. *Life*. 2022; 12(9):1424. <https://doi.org/10.3390/life12091424> (**Impact Factor: 3.253**)
13. **Raza S**, Mukhtar N, Nawaz M, Ali MA, Shabbir MAB, Ashraf MA, Ali Z, Saleem MR, Latif R and Yaqub T. A Cross-Sectional Survey of Knowledge, Attitude, and Practices of University Students in Pakistan Regarding COVID-19. *Front Public Health*. 2021; 9:697686. (**Impact Factor: 3.709**)
  14. Aayesha Riaz, B. J., Muhammad Ali Abdullah Shah, **Sohail Raza**, Arfan Yousaf, Saif-ur-Rehman, Awais Sial and Sadam Abbas. 2021. First Report on the Detection and Molecular Characterization of Bovine Herpesvirus 1 from a Clinical case of Infectious Bovine Rhinotracheitis in Pakistan. *Pakistan Veterinary Journal* 41:160 – 162. (**Impact Factor: 1.175**)
  15. Altaf, I., M. F. Nadeem, N. Hussain, M. Nawaz, **S. Raza**, M. A. B. Shabbir, M. A. Ashraf, M. A. Ali, S. Hassan, M. W. Aziz, N. Matti, M. Ashraf, I. Ulla, S. Fazal, S. Rafique, A. Mehmood, N. Sardar, M. T. Khan, H. M. M. Atique, S. Ashraf, Z. Tahir, N. Mukhtar, and T. Yaqub. 2021. An in vitro antiviral activity of iodine complexes against SARS-CoV-2. *Arch Microbiol* 203:4743-4749. (**Impact Factor: 1.88**)
  16. Areej, S., A. Sattar, A. Javeed, and **S. Raza**. 2021. Diphenhydramine and levofloxacin combination therapy against antimicrobial resistance in respiratory tract infections. *Future Microbiol* 16:409-420. (**Impact Factor: 2.907**)
  17. Ali I ST, Parveen T, **Raza S**, Jamil F, Kanwal S, Ibrahim M and Rasheed MA: Multi epitope based vaccine design and analysis against *Mycoplasma bovis* using immunoinformatic approaches. *Pakistan Veterinary Journal*, 2021. DOI: <http://dx.doi.org/10.29261/pakvetj/2021.068> (**Impact Factor: 1.175**)
  18. Tahir Yaqub MN, Muhammad Z. Shabbir, Muhammad A. Ali, Imran Altaf, **Sohail Raza**, Muhammad A. B. Shabbir, Muhammad A. Ashraf, Syed Z. Aziz, Sohail Q. Cheema, Muhammad B. Shah, Saira Rafique, Sohail Hassan, Nageen Sardar, Adnan Mehmood, Muhammad W. Aziz, Sehar Fazal, Nadir Hussain, Muhammad T. Khan, Muhammad M. Atique, Ali Asif, Muhammad Anwar, Nabeel A. Awan, Muhammad U. Younis, Muhammad A. Bhattee, Zarfshan Tahir, Nadia Mukhtar, Huda Sarwar, Maaz S. Rana, Omair Farooq. : A Longitudinal Survey for Genome-based Identification of SARS-CoV-2 in Sewage Water in Selected Lockdown Areas of Lahore City, Pakistan: A Potential Approach for Future Smart Lockdown Strategy. *Biomedical and Environmental Sciences*, 34 (9): 729-733, 2021. DOI: doi: 10.3967/bes2021.101. (**Impact Factor: 3.118**)

19. Hammad Ur Rehman, M. R., Aamir Ghafoor, Amjad Riaz, Farhat Nazir Awan and **Sohail Raza**. 2021. First Isolation and Genetic Characterization of Bovine Herpesvirus 1 From Cattle in Pakistan. Pakistan Veterinary Journal 41:163 - 165. (**Impact Factor: 1.175**)
20. Iqra Nazir, M. R., Ali Ahmad Sheikh, Muhammad Ilyas Riaz, **Sohail Raza**, Qurat ul Ain, Arfat Yousaf Shaheen and Aleena Kokab. 2021. Evaluation of In Ovo Antiviral Activities of Medicinal Flowers against Newcastle Disease Virus and Avian Influenza Virus. INTERNATIONAL JOURNAL OF AGRICULTURE & BIOLOGY 26:185 - 192. (**Impact Factor: 0.822**)
21. Iqra Nazir, M. R., Ali Ahmad Sheikh, Sehrish Firyal, **Sohail Raza** and Muhammad Ilyas Riaz. 2021. Antibacterial Activity of Medicinal Flowers against Multi Drug Resistant E. coli. Pakistan Veterinary Journal 41:166 -168. (**Impact Factor: 1.175**)
22. Muhammad Asif Rasheed , **Sohail Raza**, Ali Zohaib , Muhammad Ilyas Riaz , Amina Amin , Muhammad Awais , Sami Ullah Khan , M. Ijaz Khan ,Yu-Ming Chu. 2021. Immunoinformatics based prediction of recombinant multi-epitope vaccine for the control and prevention of SARS-CoV-2. Alexandria Engineering Journal 60:3087 - 3097. (**Impact Factor: 2.46**)
23. Naeem, Z., **S. Raza**, S. Afzal, A. A. Sheikh, M. M. Ali, and I. Altaf. 2021. Antiviral potential of ivermectin against foot-and-mouth disease virus, serotype O, A and Asia-1. Microb Pathog 155:104914. (**Impact Factor: 2.914**)
24. Saba Afzal, **Sohail Raza**, Masood Rabbani, Sehrish Firyal, Imran Altaf and Zahra Naeem. 2020. Antiviral Potential of Ivermectin against Peste des Petits Ruminants Virus (PPRV). Pakistan Journal of Zoology 53:1575 - 1578. (**Impact Factor: 0.831**)
25. **Sohail Raza**, M. T. N., Wajeeha Zahir, Muhammad Nabeel Khan, Muhammad Awais, Tahir Yaqub, Masood Rabbani<sup>1</sup>, Muhammad Rashid, Salina Saddick and Muhammad Asif Rasheed. 2021. Analysis of the Spike Proteins Suggest Pangolin as an Intermediate Host of COVID-19 (SARS-CoV-2). INTERNATIONAL JOURNAL OF AGRICULTURE & BIOLOGY 25:639 - 640.(**Impact Factor: 0.822**)
26. **Raza S**, Shahin F, Zhai W, Li H, Alvisi G, Yang K, et al. Ivermectin Inhibits Bovine Herpesvirus 1 DNA Polymerase Nuclear Import and Interferes with Viral Replication. Microorganisms. 2020;8. (**Impact Factor: 4.167**)
27. **Raza, S.**; Siddique, K.; Rabbani, M.; Yaqub, T.; Anjum, A.A.; Ibrahim, M.; Azhar, M.; Jamil, F.; Rasheed, M.A. In silico analysis of four structural proteins of aphthovirus serotypes revealed significant b and t cell epitopes. *Microb Pathog* **2019**, 128, 254-262. (**Impact Factor: 2.33**)

28. **Sohail Raza**, GA, Farzana Shahin, Urooj Husain, Masood Rabbani, Tahir Yaqub, Aftab Ahmad Anjum, Ali Ahmad Sheikh, Muhammad Nawaz and Muhammad Asad Ali. Role of Rab GTPases in HSV-1 infection: Molecular understanding of viral maturation and egress. *Microbial Pathogenesis*. 2018;118:146-53. (**Impact Factor: 2.009**).
29. Rasheed MA, Ansari AR, Ihsan A, Navid MT, Ur-Rehman S, **Raza S**. Prediction of conserved sites and domains in glycoproteins B, C and D of herpes viruses. *Microb Pathog*. 2018;116:91-9. (**Impact Factor: 2.009**).
30. Shahin F, **Raza S**, Yang K, Hu C, Chen Y, Chen H, et al. Bovine herpesvirus 1 tegument protein UL21 plays critical roles in viral secondary envelopment and cell-to-cell spreading. *Oncotarget*. 2017;8:94462-80 (**Impact Factor: 5.168**).
31. Rais Ahmed KM, Masood Rabbani, Muhammad Sarwar khan, Asad Ali, Saira Naureen, Faria kanwal, **Sohail Raza**, Amjad Islam Aqib, Haleema Sadia and Yung-Fu-Chang. Phylogenetic Analysis of Soil Borne Brucella Species by Targeting Insertion Sequence 711 Element in Punjab-Pakistan. *International Journal of Agriculture & Biology*. 2017. (**Impact Factor: 0.75**)
32. **Sohail Raza**, Mingliang Deng, Farzana Shahin, Kui Yang, Changmin Hu, Yingyu Chen, Huanchun Chen and Aizhen Guo. A *bovine herpes virus 1* pUL51 deletion mutant shows impaired viral growth *in vitro* and reduced virulence in rabbits. 2016. *Oncotarget*, doi: 10.18632/oncotarget.7771. (**Impact Factor: 6.359**).
33. Mingliang Deng, Sukun Ji, Wentao Fei, **Sohail Raza**, Chenfei He, Yingyu Chen, Huanchun Chen, Aizhen Guo. Prevalence study and genetic typing of Bovine Viral Diarrhea Virus (BVDV) in members of *Bos taurus* and *Bubalus bubalus* in China. *Plos one*. doi: 10.1371/journal.pone.0134777. (**Impact Factor: 3.534**).
34. **Raza S**, Rabbani M, Ahmad N, Sheikh AA, Muhammad K, Akhtar F and Rehman HU. Uterine Microbial Flora of Nili-Ravi Buffalo during Estrus and its Relationship with Pregnancy Rate in Pakistan. *Buffalo Bulletin*. 2013; 32:564-567. (**Impact Factor: 0.06**).

### Postgraduate Students Produced as Major Supervisor:

|        |                |
|--------|----------------|
| Master | 13 (Completed) |
| PhD    | 02 (On Going)  |

### Research Projects as Principal Investigator (PI):

1. Construction of Glycoprotein E deleted Bovine Herpes Virus 1 using Bacterial Artificial Chromosome (BAC) Recombineering. (0.495 Million) **(Completed)**
2. Production and Evaluation of Recombinant Foot-and-Mouth disease Virus-like Particles (VLPs) for the Effective Control of Foot-and-Mouth Disease in Pakistan. (6.5 Million) **(Completed)**