

# Dr. Sohail Raza

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Assistant Professor/ Institutional Biosafety Officer  
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

## RESEARC EXPERIENCE:

My passion lies in the construction and evaluation of recombinant herpesviruses to study their role in infection, a field in which I have accumulated extensive expertise. My skill set includes BAC Mutagenesis of herpesviruses, Recombinant DNA technology, Protein-Protein Interaction studies, Transmission Electron Microscopy, Tissue Culture, Confocal Microscopy, Protein production and characterization, Bioinformatic analysis, and *In vivo* experiments. Having worked in both BSL-2 and BSL-3 Laboratories, I have a profound understanding of the intricacies of these environments. Furthermore, my experience as a Biosafety Officer in BSL-3 settings has nurtured a deep appreciation for rigorous safety protocols and the adherence to responsible scientific practices.

## 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

**AWARDS / MERITS / HONOURS / LETTERS OF APRICIATIONS:**

- \* 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>
<b>Two days Training workshop Overview of ISO 35001</b> organized by IOM, UVAS and HSP, USA.	December 14 to 15, 2023	Resource Person
<b>02 Days Training workshop on Detection techniques for mycotoxigenic fungi in food and feed</b> Organized by IOM	06 December to 07 December, 2023	Participant
<b>Two days Hands-on Training Workshop on Building the Capacity of Laboratory Professionals in Bio-risk Assessment : The New WHO Approach</b> organized by IOM, Shifa Tameer-e-Millat University, and HSP, USA	08-09 December, 2023	Organizer
<b>China- Pakistan Training Forum of Major Livestock Disease Control</b> organized by IOM, CAU, L&DD and Royal Farms	14 <sup>th</sup> November, 2023	Secretary
<b>03 Days Training workshop on Establishing Effective Biosafety and Biosecurity management system at institutional level</b> Organized by ABM and HSP, USA	01 November to 03 November, 2023	Participant
<b>Two days Cybersecurity Training workshop</b> organized by IOM and IOM, GCF and HSP	25-26 October, 2023	Secretary
Secretary <b>One day Hands on Training Workshop on Operation of Lab Equipment</b> organized by IOM and The world wide scientific	16 August, 2023	Secretary

Participant <b>01 Day Establishing/Strengthening Institutional Biosafety Committees at Select Universities in Pakistan Second Meeting of the Technical Working Group</b> organized by HSP and ABM	18 July, 2023	Participant
Participant <b>04 Days training program on safe and secure collection and transportation of priority pathogen samples</b> Organized by US National Academies, HSP and ABM	18 June to 21 June, 2023	Participant
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	06 – 08 July, 2021	Resource Person

by IOM, UVAS, Lahore at Veterinary academy		
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 Students to bolster field biosafety organized by FVS, UVAS, Lahore in collaboration with Health Security Partners(USA)	11 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)	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	10 – 12 March, 2021	Resource Person

Lab L&DD Department, Punjab		
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 transport organized by PBSA and HSP	Sep 23 2020	Participated
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 -	Resource person

	04, 2020	
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 Dealing with COVID-19	April 14, 2020	Participant
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, 2018	Participant
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. 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**)
2. 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**)
3. 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**)
4. 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**)
5. 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**)
6. 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**)
7. **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**)
8. 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**)
9. 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**)
10. 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**)
  11. 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**)
  12. 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, Zarfishan 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**)
  13. 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**)
  14. 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**)
  15. 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**)
  16. 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**)
17. 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**)
  18. 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**)
  19. **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**)
  20. **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**)
  21. **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**)
  22. **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**).
  23. 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**).
  24. 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**).
  25. 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**)

26. **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**).
27. 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**).
28. **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**).

## Research Projects as 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) (On-Going)