

CURRICULUM VITAE

A: - PERSONAL PARTICULARS

Name Shahzad Akbar Khan

Date of Birth: 01 November 1978

Marital Status: Married

Present Address: Dean
Department of Pathobiology, Faculty of Veterinary & Animal Sciences,
University of Poonch, Rawalakot AJK.
E.mail:mughal_161@hotmail.com;shahzadakbar@upr.edu.pk
Mobile: 0345-9597136

B: - 1) ACADEMIC QUALIFICATIONS

<u>UNIVERSITY</u>	<u>DEGREE</u>	
<u>DATE</u>		
Sind Agriculture University Tandojam, Pakistan	DVM	2004
	(Gold Medallist)	
Sind Agriculture University Tandojam, Pakistan	M.Phil	2007
	(Distinction)	
State University of the Londrina, Brazil	¹ Ph.D	2015
	Pathology	
Obihiro University of Agriculture and Vety. Medicine	Post-Doc	2017
University of Chinese Academy of Sciences, China	Post-Doctorate	2019
University of Chinese Academy of Sciences, China	Post-Doctorate	2024

1. Fellow member of Pakistan Wild Life Association

THESIS TOPICS

- 1) **M.Phil. Thesis:** A Study on the Quality of Commercially available Adenovirus Vaccines.
- 2) **Ph.D. Thesis:** Immunotoxicopathological effect of Ochratoxin-A and Fumonisin-B1 in Broilers.

C: - WORKING EXPERIENCE

1. I worked as **Assistant Farm Manager in the Al-Noor Chicks Grand Parent Poultry** project Pakistan, since Sep. 1st 2004 till 30th Nov. 2005.
2. I worked as **Lecturer in Gomal College of Veterinary Sciences, Gomal University Dera Ismail Khan**, during the year-2005.
3. I Worked as **Veterinary Officer NRSP**, Since 1st Jan. 2007 to 27th April. 2007.
4. I worked as **Lecturer in the Department of Veterinary & Animal Sciences, University of Azad Jammu & Kashmir Muzaffarabad** from 28th April 2007 to 23rd Nov. 2011.
5. I worked as **Lecturer in the Department of Pathobiology, Faculty of Veterinary and Animal Sciences, University of Azad Jammu & Kashmir Muzaffarabad** from 24th Nov. 2011 to 15th March 2012.
6. I worked as **Lecturer in the Department of Pathobiology, Faculty of Veterinary and Animal Sciences, University of Poonch, Rawalakot** from 16th March 2012 to 2nd May 2017.
7. I worked as **Assistant Professor in the Department of Pathobiology, Faculty of Veterinary and Animal Sciences, University of Poonch, Rawalakot** from 3rd May 2017 to 2nd May 2021.
8. I worked as **Visiting Associate Professor at Guangzhou Institute of Biomedicine & Health, Chinese Academy of Sciences-China** from 1st May-2023 till now.
9. I am working as **Associate Professor in the Department of Pathobiology, Faculty of Veterinary and Animal Sciences, University of Poonch, Rawalakot** 2nd May 2021 till date.

D:- (i) TEACHING/RESEARCH EXPERIENCE²

I am involved in teaching and research both at undergraduate and post graduate level since 2005.

(II) EXPERIENCE OF DIAGNOSTIC EQUIPMENTS AND LAB. SETTING

1. Well versed with contemporary methodology and diagnostic instrumentation including ELISA reader and Washer, Tissue processing for histopathology and immunohistochemistry, Coulter counter for cell counting, Blood analyzer, Blood chemistry analyzer, Gel electrophoresis, Polymerase chain reaction and Electron microscopy.
2. Strong background in Clinical Pathology and Immunopathology, Laboratory design, project

(iii) CURRENT RESEARCH INTEREST

My research interest involve method of isolation of of Ochratoxins, Fumonisin, Pathology/Pathogenicity of toxins, vaccine biotechnology, immunological reactions as well as isolation and characterization of microbes of veterinary importance.

E:- MEMBERSHIP OF PROFESSIONAL AND HONORARY SOCIETIES

- 1. HEC Approved Ph.D Supervisor
- 2. Life Member Pakistan Veterinary Medical Council.
- 3. Member American association for science and technology(AASCIT)
- 4. Life Member of Pakistan Society for Microbiology.
- 5. Fellow Member Pakistan wild life foundation.
- 6. Member Brazilian Society for Microbiology.
- 7. Life Member Pakistan Biological safety Association.
- 8. Life member Japanese Society for Promotion of Science
- 9. Life Member Infectious Disease Society of Pakistan
- 10. Life Member World Poultry Science association
- 11. International Society for Development and Sustainability.
- 12. The Society for Theriogenology & Reproductive Medicine

F: - RESEARCH AND PUBLICATIONS

1. RESEARCH GRANTS SECURED

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- 1. Rs. 400,000/- was received from Health Security partners USA for winning centre of excellence Award workshop about Biosafety in 2024.
- 2. Rs. 300,00000/- was received from National Science Foundation of china for Molecular targets related characterization of M. tuberculosis Resistance Through Whole Genome Sequence Analysis to Support Diagnostics in 2023.
- 3. Rs. 50,000/- was received from Pakistan Science Foundation for organizing workshop in the year-2022.
- 4. 1158 USD was received from Health Security Parteners (USA) for Centre of Excellence-2023.

5. ~~Rs. 40,000/-~~ ^{Rs. 96,000/-} was received from CNPq Brazilian National Council for Science and Technology for conducting work on Ochratoxins and Fumonisin in Brazil (2013-2015).
6. Rs.150,000/- was received from University of Azad Jammu and Kashmir for Determination of effect of Pre-anaesthetic medication and general Anaesthesia in cattle in Rawalakot in-2011.
7. Rs.150,000/- was received from University of Azad Jammu and Kashmir for Determination of Pathological effects of oral administration of OTA(ochratoxin-A) in bantam layers in Rawalakot in-2011.

G. i) COMMENDATIONS

1. I have received **Post-Doctoral Fellowship Award**, Chinese Academy of Sciences, Guanzhou Institute of Biomedicine and Health (2023-24).
2. I have received **Post-Doctoral Fellowship Award**, Chinese Academy of Sciences, Guanzhou Institute of Biomedicine and Health (2019).
3. I have received an **International Training fellowship Award**, “Towards a one health approach to antimicrobial resistance” at Bangkok Thailand-June, 3-27 -2019.
4. I have received **Best Presenter Award** in South Asian Multidisciplinary research conference held at Colombo, Sri-Lanka in 2018.
5. I have received **TWAS-CNPq Fellowship Award** for post-graduate Studies in Brazil. (2013-2015)
6. I have received Presidential Award/Pride of Performance i.e; (**Izaz-E-Sabqat**), Ministry of science and technology, Govt. of Pakistan on the basis of outstanding Academic performance throughout the career by president of Pakistan in the year 2006.
7. I have received **Best University Teacher Award**, University of Azad Jammu and Kashmir in 2010.
8. I have received **Gold Medal** on the basis of outstanding academic performance in graduation (D.V.M.) in the Year 2004.
9. I have received **distinction** on the basis of outstanding academic performance in M.Sc(Hons) Veterinary Microbiology in the Year-200.
10. I have received **Quaid-E-Azam Aligarh scholarship** throughout in my graduation and masters.
11. I am a winner of debate competition held on 14 August 1995 organized by district Boy Scouts association Muzaffarabad Azad Kashmir and got first position.
12. I am a winner of Husn-I-Naat competition held on 1996⁴ organized by district Boy Scouts association Muzaffarabad Azad Kashmir and got first position.

ii) National Award Received

Was awarded Pride of Performance / Izaz-I-Sabqat award by the president of Pakistan, in the year 2006, for outstanding contribution in the field of Veterinary Sciences.

H. ACADEMIC LEADERSHIP

1. I am working as **Dean, Faculty of Veterinary & Animal Sciences, University of Poonch Rawalakot Azad Kashmir** since March-2024 till date.
2. I served as **Director, Office of Research, Innovation and Commercialization (ORIC)**,

3. I served as a **Coordinator/Focal person for Prime Minister's Kamyab Jawan Pakistan Program (KJPP)** for University of Poonch Rawalakot from 2021-2023.
4. I served as **DDO, Faculty of Veterinary & Animal Sciences**, University of Poonch, Rawalakot during the year-2020-2021.
5. I am serving as **Chairman, Department of Pathobiology**, Faculty of Veterinary & Animal Sciences, University of Poonch, Rawalakot from Sep. 2021 till date.
6. I served as **Coordinator, Department of Pathobiology**, Faculty of Veterinary & Animal Sciences, University of Poonch, Rawalakot from May. 2015 till date.
7. I served as **Coordinator, Department of Pathobiology**, Faculty of Veterinary & Animal Sciences, University of Poonch, Rawalakot from Dec. 2011 till March-2013.
8. I am serving as **member Selection committee, Faculty of Veterinary and Animal Sciences**, University of the Poonch, Rawalakot from June-2016 till date.
9. Had served as **Convener, Board of Studies of Department of Pathobiology, Faculty Board of Studies, Faculty of Veterinary and Animal Sciences**, University of the Poonch, Rawalakot AJK from July 2017 till Nov. 2018.
10. I have served as **member, Faculty Board of Studies, Faculty of Veterinary and Animal Sciences**, University of the Poonch, Rawalakot AJK from March-2013 till Aug-2019.
11. Have served as **member, Faculty Board of Studies, Faculty of Agriculture, Rawalakot University of Azad Jammu & Kashmir** from September-2010 till November, 2012.
12. Have served as **member Faculty Board of studies, Faculty of Sciences, Mirpur University of Science & Technology, Mirpur Azad Kashmir** from Dec. 2018 till Aug. 2019.
13. Served as **Incharge, Students Jinnah Tutorial Group Faculty of Veterinary & Animal Sciences, Rawalakot Azad Jammu and Kashmir** from March, 2013 till May, 2016.
14. Served as **member students career counseling / Planning, Faculty of Agriculture of Agriculture Rawalakot, University of Azad Jammu & Kashmir-Muzaffarabad** from October, 2010 till November, 2012.
15. Served as **Chairman Quality Assurance Committee, University of the Poonch, Rawalakot** from August, 2016 till December, 2017.
16. Served as **member Quality Assurance Committee, University of the Poonch, Rawalakot** from August, 2016 till December, 2017.
17. Served as **Chairman Examination Committee, Faculty of Veterinary & Animal Sciences, Rawalakot** from March, 2012 till March, 2013).
18. Have served as **Chairman semester System Implementation Committee, Faculty of Veterinary & Animal Sciences**, University of the Poonch, Rawalakot from March, 2012 till March, 2013.
19. Served as **Chairman Purchase Committee, Faculty of Veterinary & Animal Sciences**, University of the Poonch, Rawalakot from March 2017 till December, 2017.
20. Served as **Chairman Purchase Committee, Department of Pathobiology, Faculty of Veterinary & Animal Sciences**, University of the Poonch, Rawalakot from September 2021

21. Served as a **member admission Committee, Faculty of Veterinary & Animal Sciences, The University of Poonch, Rawalakot** from October,2017 till October, 2018.

I. TRAINING RECEIVED:

i) INTERNATIONAL TRAINING RECEIVED:

1. Received an International training on **Toward a One Health Approach to Antimicrobial Resistance** at Chulalongkorn University from 14-27 May, 2019-Bangkok **Thailand**.
2. Received a special training about **Biorisk Management Curriculum Development Workshop** July 9-11, 2018 Bangkok, **Thailand**.
3. Received two months post-graduate training on **“Cattle management for milk and meat production using regional resources”** Obihiro University of Agriculture and Veterinary Medicine from September, 2017 till November,2017, **Japan**.
4. Received training on **Cellular and Molecular immunology** at State University of Londrina, from 8th July till 13th July, 2013-**Brazil**.
5. Received training of advance course on **Cellular and Molecular immunology** at State University of Londrina, Brazil, Centre of Biological Sciences, Department of Pathologic Sciences, from 11th August till 15th August, 2014-**Brazil**.
6. Received special training on **Chemotaxis of human neutrophils in vitro**, at State University, Londrina, from 11th August till 15th August,2014- **Brazil**.
7. Received a training of **Analysis of Polymorphism of receptor of chemokine CCR5 and infection by HIV**, at State University, Londrina, from 11th August till 15th August,2014- **Brazil**.
8. Received a training about **BCG vaccine development in adults** at Guangzhou Institute of Biomedicine & Health, Chinese Academy of Sciences-China from October-2019 to September-2020-**China**.
9. Received a training about **Drug discovery against Mtb in animal model** at Guangzhou Institute of Biomedicine & Health, Chinese Academy of Sciences-China from 1st May-2023 to 28th February-2024-**China**.

❖ Countries Visited: **Brazil, Japan, Thailand, Egypt, Sri-Lanka, China, UAE**

ii-NATIONAL TRAININGS/WORKSHOPS RECEIVED:

1. Has participated and attended International training workshop on **“Current trends in Virology and Epidemiology: Women’s Health”** held at COMSTECH Secretariat Islamabad on 27th September-2022.
2. Has participated and attended International training workshop on **“ Development of Novel Anticancer Compounds Targetting Mitochondrial Protein Hemostasis”** held at COMSTECH Secretariat Islamabad 29 November to 01st December-2022.
3. Has participated in a workshop entitled **“Entrepreneurship; Environmental Leadership; and Educational Leadership”** organized by Karakoram International University, Gilgit at University of Poonch, Rawalakot from March14-15,2022.
4. Has attended a workshop on COMCEC-COMSTECH Training and Workshop on **“New Breeding Technologies for Food and Nutritional Security”** from November 30 –2nd December, 2021.

5. Has attended an online workshop on **“Diagnostic Poultry Pathology from necropsy room to microscope”** Organized by Austrian society for veterinarian from Mach 02, 2022.
6. Has successfully attended one day training workshop on **“FM Knowledge- CAASE-2014 Methodology for mentoring of Thinking Graduates”** Organized by Directorate Office of Research, Innovation & Commercialization, University of Poonch, Rawalakot, held on January 13, 2021.
7. Has attended online workshop on **“Recent developments in drug discovery and medicinal chemistry”** Organized by OIC Ministerial Standing Committee on Scientific and Technological Cooperation from July 26-27, 2021.
8. Has participated in an online workshop entitled **“Academic Writing Skills Workshop”** Organized by CST Asia on November 30, 2021.
9. Has participated in Prof. Dr. Qasim Mehdi Memorial Symposium on **“Human Population and Disease Genomics”** April 10, 2018 at COMSTECH secretariat Islamabad.
10. Has successfully attended an **“International Workshop on Fundamental Techniques in Viral Diseases Diagnostics”** from January 25-28, 2021 at COMSTECH, Islamabad.
11. Has attended **five days training course on “ Livestock Management for Poverty Alleviation”** March 8-12, 2021. At AHK National Centre for Rural Development, Islamabad.
12. Has completed the course for verified certificate in **“An Introduction to Plant and Animal Whole Genome Sequencing”** a program offered by Novogene on 28-01-2021.
13. Has **successfully completed two months “PBSA-HSP Biorisk Management Virtual Training for Covid-19 testing”** from September 9th to 16th December-2020.
14. Has actively participated and attended Three days training entitled **“Ruminant Diseases including wild Ruminants”** at University of Veterinary and Animal Sciences, Lahore with Davis Thompson Foundation, USA from March. 21-23, 2022.
15. Has actively participated and attended Three days training entitled **“ Knowing cancer in small animals to improve the quality of life”** Organized Pakistan Veterinary Medical Council at UVAS, Lahore from July 8-10, 2021.
16. Has attended an online training entitled **“Environmental Health and food safety”** Jointly organized by Thailand International Cooperation Agency (TICA) and Mahidol University from December 07 – 21, 2021.
17. Has attended an online training course on **“Geographic Information System for Public Health”** Applications hosted by Association of Science and Technology Professionals, Deqing Geospatial Information Town, PRC (DQGAST) from October 23 – November 17, 2021.
18. Has attended an online training on **“An Overview of Clostridial Diseases”** organized by College of Veterinary and Animal Sciences Jhang, in collaboration with Global Health Pathology Network USA on February 02, 2022.
19. Has participated virtually in the **“A 2-day online Training Course on Inclusive Science Technology and Innovation (STI) policy for OIC Member States”** Organized by COMSTECH from September 20-21, 2021.

20. Received **one-day workshop on “Avian Microbiology and Immunology”** held at K&N’s Poultry diagnostic and research institute Karachi on 2005.
21. Received **one week Training on “ Molecular Diagnosis of Animals Diseases”** October 15-19, 2012, From NIBGE Faisalabad, Pakistan.
22. Received **orientation training Workshop** (January 01-Jan 22, 2005): From Institute of Rural Management (IRM) NRSP, Islamabad.
23. Received **two-weeks training on “Orthopaedic Surgery in small Animals”** November 10-21, 2003, Sind Agriculture University Tandojam, Pakistan
24. Received **three-days training programme on “Equine Surgery and Diagnostics”**, November 01-20,

25. Received **one-week training program on “Advanced diagnostic and Surgical Techniques in Veterinary Practice”** November 10-15, 2002, Sind Agriculture University Tandojam, Pakistan.
26. Received a **training on “Necropsy of Avian diseases”** from 13th -15th November, 2018 at UVAS, Lahore.
27. Received a **training on “Preparation of PC-I”** from 3rd -5th September, 2018 at Pakistan Planning Management Institute, Islamabad.
28. Received a **training on Train the Trainer, s workshop about “Advanced Biological Risk Mitigation”** from September 10-14, 2018 at COMSTECH Secretariat Islamabad.
29. Received **three days training course on “Livestock Emergency Guidelines and Standards (LEGS)”** FAO, USDA, Muzaffarabad AJK, May 8th-10th, 2017 at Muzaffarabad.
30. Received a **training on “Project Formulation by Natural Sciences Linkage Program”** from August 17-18, 2015 by Pakistan Science Foundation at University of the Poonch, Rawalakot.
31. Received **one week Training on “ Molecular Diagnosis of Animals Diseases”** NIBGE from October, 15-19, 2012 at Faisalabad.
32. Received **special “Orientation training Workshop”** at Institute of Rural Management (IRM) NRSP, from 1st to 22nd January, 2005 at Islamabad.
33. Received **two-weeks training on “Orthopaedic Surgery in small Animals”** from 10th to 21st November, 2003 at Sind Agriculture University Tandojam, Pakistan.
34. Received **three-days training on” Equine Surgery and Diagnostics”** from 1st to 3rd November, 2002 at Sind Agriculture University Tandojam, Pakistan.
35. Received **one week training on “Advanced diagnostic and Surgical Techniques in Veterinary Practice”** from 10th to 15th October, 2002 at Sind Agriculture University Tandojam, Pakistan.

WORKSHOPS ORGANIZED:

1. Was the focal person/Chief organizer of **“Two Days Poultry Necropsy Workshop” on 24-25 August-2022**, held at Department of Pathobiology, University of Poonch, Rawalakot.
2. Was the focal person/Chief organizer of **“One Day Small Ruminants Necropsy Workshop” on 12th September, 2022** held at Department of Pathobiology, University of Poonch, Rawalakot.
3. Was the focal person/Chief organizer of **“Two Days Poultry Necropsy Workshop”** held at Department of Pathobiology, University of Poonch, Rawalakot.
4. Was the focal person/Chief organizer of **“Laboratory Diagnosis of Zoonotic Tuberculosis; A public health concern related to one health”** on 21-20th September-2022, held at Department of Pathobiology, University of Poonch, Rawalakot in collaboration with Pakistan Science Foundation, Islamabad.

K:- CONFERENCES / SEMINARS ORGANIZED

1. Was the member of the organizing committee of the **6th Interational Conference sustainable agriculture in changing climate: strategies and management** june, 2019, Universiy of Poonch Rawalakot-Pakistan.

2. Was the Organizer of the seminar on **career counseling** in collaboration with Altech Pvt. Ltd at Faculty of Veterinary and Animal Sciences, University of the Poonch, June-2019.
3. Was the member of organizing committee of ICCPC 2014: XII International Conference on Cervical Pathology and Colposcopy, London, May, 26-27, 2014, **UK**.
4. Was the member of organizing committee of ICP 2015: XIII International Conference on Pathology, Miami, March 9-10, 2015, **USA**.
5. Was the member of organizing committee of 8th International Veterinary Conference, November 27-30, 2014-**Egypt**.

L:- i) PRESENTATION IN INTERNATIONAL CONFERENCES

1. Has successfully attended Wiley Online Science Conference-2021 on **“Simplifying fluorescence microscopy. Easy-to-use laser engines optimized for fluorescence excitation”** held on April 20, 2021 | 7-8 pm (CEST) | 1-2 pm (EDT).
2. Has successfully attended Wiley Online Science Conference-2021 on **“Light Sheet-based Fluorescence Microscopy for dynamic three-dimensional Imaging”** april 20, 2021 | 6-7 pm (CEST) | 12-1 pm (EDT).
3. Has successfully participated and orally presented a paper on **“Therapeutic efficacy of BCG Vaccination against Amikacin resistant tuberculosis”** in a conference entitled **“4th International Conference on Innovative Biological and Public Health Research (IBPHR-2019)”** at GC University, Lahore from December 07 to 08, 2021.
4. Has successfully presented a paper online entitled **“Measurement of serum ochratoxin A (OTA) in chicken exposed to OTA contaminated diet”** in Parane Conference of Microbiology at State University of Londrina, Brazil from November 20-22, 2021.
5. Has attended **“1st COMSTECH International Virtual Conference of Neuroscience”** from February 9-10, 2022.
6. Has attended **“International conference on social and islamic studies (SIS-2021)”** held virtually organized by Universitas Islam Nigeri Alaud din Makassar, Indonesia on december 21-22, 2021.
7. Has Participated and presented in international conference on sustainable agriculture in changing climate strategies and management held at Faculty of Agriculture, University of the Poonch, Rawalakot **AJK- Pakistan**, June, 19-21.2019⁹
8. Paper presented in **South Asian Conference on Multidisciplinary Research**, October, 2018 at Colombo, **Sri-Lanka**.
9. Paper presented in **Second International conference on Mycology in MENA (ICM- 2018)**, October, 2018 at **Egypt**.
10. Paper presented in **4th International Poultry Meat Congress**, November 2017 at **Turkey**.
11. Paper presented in **International conference of Biomedicine**, Centre of Biological Sciences at State University of Londrina, September, 2014, **Brazil**.

12. Paper presented in **National poultry symposium on health and welfare** December, 2018 at PMAS Arid Agriculture University Rawalpindi-**Pakistan**.
13. Paper presented in Ist Congress Parane of microbiology and symposium of South American of Escherichia coli at Centre of Biological Sciences, State University of Londrina, August-2014, **Brazil**.
14. Paper presented in **2nd International Conference on Agriculture, Food and Animal Sciences**, February 2015 at Sindh Agriculture University Tandojam, **Pakistan**.
15. Paper presented in **International Conference On Advances In Parasitology And Public Health (ICAPPH-2014)**, October, 2014, UVAS, Lahore-**Pakistan**.
16. Paper presented in **International. Livestock Nutrition Conference**, October-2013, at UVAS, Lahore-**Pakistan**.
17. Paper presented in **2nd International Workshop Dairy Science Park**, November, 2013 at University of Agriculture, Peshawar- **Pakistan**.
18. Paper presented in **International Conference on Agriculture and Food Security Issues in Global Environmental Perspectives**, July, 2012 at University of the Poonch Rawalakot, **Pakistan**.
19. Paper presented in **International Conference on prospects and challenges to sustainable Agriculture**, July, 2011 at University of Azad Jammu & Kashmir, **Pakistan**.
20. Paper presented in Conference on **Advances in Agriculture: Prospects and Potentials of natural Resources in food security**, August, 2010 at University of Azad Jammu & Kashmir, **Pakistan**.

ii) KEY NOTE LECTURE:

1. Delivered a key note lecture on Ochratoxin A and Fumonisin B1 induced changes in meat and blood of broilers in **12th International Biennial Conference of Pakistan Society for Microbiology (PSM-2019)**, February, 2019 at Abbotabad University of Science and Technology Havellian –Pakistan.

PARTICIPATION & PRESENTATION IN NATIONAL CONFERENCES

- i) Has participated in a conference “**Virtual International Conference on Zoonosis as a Threat to Global health**” held on 20th of April-2021 organized by University of Veterinary & Animal Sciences Lahore.
- ii) Has successfully attended “**3rd Annual Bovine Udder Health Symposium**” held online on 18th of February-2021 organized by University of Veterinary and Animal Sciences, Lahore-Pakistan.

INTERNATIONAL WEBINARS:

1. Has attended a webinar on “**Covid-19 Pandemic and role of Microbiologists**” Organized by American Society for Microbiology on 14th April-2021. ¹⁰
2. Has attended a webinar on “**Covid-19 Pandemic and role of Microbiologists**” Organized by American Society for Microbiology on 28th of April-2021.
3. Has attended a “**Hoard’s Dairyman webinar on Feeding Cows with \$5 corn and \$450 soybean meal**” which was held on 12th of April-2021.
4. Has attended a webinar on “**Covid-19 Pandemic and role of Microbiologists**” Organized by American Society for Microbiology My Covid-19 Experience as HCW from bench to bed Myths and Facts held on 12th May-2021.
5. Has attended a webinar on “**COVID-19 and Mental Health Organized by American Society for Microbiology**” on October 20, 2021.

6. Has attended a webinar on **“Microbiology as Subject and Career”** Organized by American Society for Microbiology” on August 04, 2021.
7. Has attended a webinar on **“Risk of COVID-19 in Children and its Prevention”** Organized by American Society for Microbiology on September 01,2021.
8. Has attended a webinar on **“Emergency in COVID and COVID in Emergency (ER)”** Organized by American Society for Microbiology on September 08,2021.
9. Has attended a webinar on **“COVID-19 and Impact on Antimicrobial Resistance (AMR)”** Organized by American Society for Microbiology, on July 28, 2021.
10. Has attended a webinar on **“Metabolomics Gateway for Milestone Discoveries in the Prehistoric and Post Genomic Era”** Organized by OIC Ministerial Standing Committee on Scientific and Technological Cooperation on January 7, 2022.
11. Has attended a webinar on **“Genome webinar on Multiomic Analysis of Immune Regulation in Triple-Negative Breast Cancer Points”** on October 14, 2021.
12. Has attended a webinar on **“PacBio Hifi Longread sequencing for rare and inherited diseases”** on November 18, 2021.
13. Has attended a webinar on **“Practical aspects of the treatment of diabetic kidney diseases”** Organized by International Society of Nephrology on December 15, 2021.
14. Has attended An International Webinar on **“Water : A Carrier organized”** by Clean Care on December 10, 2021.
15. Has attended a webinar on **“Hemicalide, a complex marine natural product with strong biological activity: structure and synthesis”** Organized by COMSTECH on November 29, 2021.
16. Has attended a webinar on **“Escherichia coli as a Model Organism”** Organized by COMSTECH on November 11, 2021.
17. Has attended “COMSTECH Lecture Series: **“Emerging Technologies for Science and Technology-Nanomaterials in Biological Applications”** on November 5, 2021.
18. Has attended a webinar on “Technological Trends for Beyond 5G Networks” December 9, 2021.
19. Has attended a webinar on **“Phonological awareness and word recognition to improve reading fluency”**. Organized by Eblity on January 06, 2022.
20. Has virtually participated in COMSTECH-NTD Network Joint Lecture Series **“Identifying and Validating New Drug Targets for Neglected Tropical Diseases”** on September 27, 2021 .
21. Has attended an Online meeting about **“Recent developments in drug discovery and medicinal chemistry”** Organized by COMSTECH and ICCBS, University of Karachi on July 26-27, 2021.
22. Has attended COMSTECH-ICCBS International Seminar on **“Improving Stroke Care in Low and Middle Income Countries”** on January 24, 2022.
23. Has attended a webinar on **“Strategies and techniques to improve academic outcomes of Children with ADHD”** Organized by Eblity on January 11, 2022.
24. Has attended a webinar on **“A Global View of Disparities in Back Pain”** Organized by International Association for the study of Pain on October 6, 2021.

M:- EDITORIAL BOARD MEMBER OF JOURNALS

1. Serving as editorial board member of Sky Journal of Microbiology Research
2. Serving as editorial board member of World Journal of Microbiology

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3. Serving as editorial board member of International Journal of Veterinary Science and Animal Husbandry
 4. Serving as editorial board member of American Journal of Microbiology and Biotechnology
 5. Serving as editorial board member of International Journal of Biological Sciences and Applications
 6. Serving as editorial board member of International Journal of Agricultural Sciences and Natural Resources
 7. Serving as editorial board member of American Journal of Biosciences
 8. Serving as editorial board member of International Journal of Current Microbiology and Applied Sciences.
 9. Serving as editorial board member of International Journal of Biology, Pharmacy and Applied Sciences
 10. Serving as editorial board member of Animal and Veterinary Sciences
 11. Serving as editorial board member of Cell Biology
 12. Serving as editorial board member of Member editorial Board, International journal of Biology, Pharmacy and Applied sciences.

N:- REVIEWER OF RESEARCH PAPERS FOR:

1. Serving as a reviewer for Tropical animal health and production
2. Frontiers in Veterinary Sciences
3. Serving as a reviewer for Avian Pathology
4. Serving as a reviewer for Italian Journal of Animal Sciences
5. Serving as a reviewer for African Journal of Biochemistry
6. Serving as a reviewer for African Journal of Microbiology Research
7. Serving as a reviewer for African Journal of Biotechnology¹²
8. Serving as a reviewer for Journal of Medicinal Plants Research
9. Serving as a reviewer for Revistaudo Agricola
10. Serving as a reviewer for Journal of Livestock Production and Management.

O:- AUTHOR OF BOOKS

1. Adenovirus infections in Pakistan

P:- COURSES TAUGHT

1. Molecular biology
2. General Veterinary Pathology
3. Clinical Veterinary Pathology
4. Necropsy Practices
5. Systemic Veterinary Pathology
6. Poultry Pathology
7. Meat Hygiene and Public Health

Q:- PUBLICATIONS

Description

1. Faisal Rasool, Zaheer Ahmed Nizamani, Khawaja Shafique Ahmad, Fahmida Parveen, **Shahzad Akbar Khan** & Naveed Sabir.**2024**.An appraisal of traditional knowledge of plant poisoning of livestock and its validation through acute toxicity assay in rats.Frontiers in Pharmacology.doi: 10.3389/fphar.2024.1328133
2. Tarique Hussain, Elsayed Metwally, Ghulam Murtaza, Dildar Hussain Kalhoro, Muhammad Ismail Chughtai, Bie Tan, Ali Dogan Omur, Shakeel Ahmed Tunio, **Muhammad Shahzad Akbar** , Muhammad Saleem Kalhoro 2024.Redox mechanisms of environmental toxicants on male reproductive function.Frontiers in cell and Developmental Biology.://10.3389/fcell.2024.1333845
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Referees

2. Dr. Rahmatullah Rind

Professor / Chairman

Department of Microbiology, Faculty of Animal Husbandry & Veterinary
Sciences, Sindh Agriculture University, Tandojam, Pakistan.

Cell# 03063076462

3. Prof. Dr. Eiko Nakagawa Itano.

Post-Graduate Studies Coordinator

Department of Experimental Pathology

Laboratory of Applied Immunology,

Centre for Biological Sciences

State University Londrina, Brazil.