

Curriculum Vitae

Dr. Faisal Siddique (HEC Approved Supervisor)
Associate Professor/Chairman, Department of
Microbiology, Cholistan University of Veterinary &
Animal Sciences, Bahawalpur, Pakistan



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1. PERSONAL INFORMATION

Name: Faisal Siddique
Father's Name: Muhammad Siddique
Current Status: Associate Professor/Chairman, Department of Microbiology, Cholistan University of Veterinary & Animal Sciences, Bahawalpur, Pakistan.
Contact details: Department of Microbiology, Cholistan University of Veterinary & Animal Sciences, near DHA, Bahawalpur, Pakistan
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<https://cuvas.edu.pk/Faculties/FVS/Micro/faculty/Faisal.php>

2. ACADEMICS

2015 **PhD. Microbiology**
Thesis Title: "Preparation and field evaluation of cell culture based Thermostable Newcastle disease vaccine" University of Agriculture, Faisalabad, Pakistan, CGPA: 3.85/4.00
2011 **M.Phil. Microbiology**
Thesis Title: "Isolation, Identification and Characterization of Thermostable Alpha amylase Enzyme Producing Bacillus Species" University of Agriculture, Faisalabad, Pakistan, CGPA: 3.94/4.00
2009 **Doctor of Veterinary Medicine (DVM)**
University of Agriculture, Faisalabad, Pakistan, CGPA: 3.62/4.00
2003 **FSc (Pre-Medical)**
BISE, Faisalabad, Pakistan, Marks: 800/1100
2001 **Matric (Science)**
BISE, Faisalabad, Pakistan, Marks: 708/850

3. PROFESSIONAL POSITIONS HELD

2023 to date	Associate Professor, Department of Microbiology, CUVAS, Bahawalpur
2018-2022	Assistant Professor, Department of Microbiology, CUVAS, Bahawalpur
2017-2018	Assistant Professor, Riphah College of Veterinary Sciences, Lahore
2016-2017	Assistant Professor, University of Veterinary and Animal Sciences, Lahore
2011-2014	Research Associate, University of Agriculture, Faisalabad
2010-2011	Teaching Assistant, University of Agriculture, Faisalabad
2009-2009	Internee, Good Milk Pvt. Limited

4. ADMINISTRATIVE POSITIONS HELD

28-11-2023 to 04-06-2026	Registrar, CUVAS, Bahawalpur
2023 to date	Chairman, Department of Microbiology, CUVAS, Bahawalpur
2023 to date	Biosafety Expert, Department of Microbiology, CUVAS
2022 to 27-11-2023	Hall Warden, CUVAS, Bahawalpur
25-01-2022 to 31-12-2023	Director, Financial Aid Office, CUVAS, Bahawalpur
19-01-2022 to 18-01-2023	Assistant Warden, Boys Hostel-11, CUVAS, Bahawalpur
2020-2021	Director Student Affairs, Faculty FVS, CUVAS
2019–2021	Assistant, DSA, CUVAS, Bahawalpur

5. ADVISORY POSITIONS HELD

2023 to date	HEC-Approved Supervisor
2020 to date	Advisor, Blood Donor Society, CUVAS, Bahawalpur
2020 to date	Tutor, Allama Iqbal Tutorial Group

6. AWARDS AND ACHIEVEMENTS

2025	Appreciation Letter for the Successful Visit of Mr. Liang Xinlog, Undergraduate Guest Students from ZHEJIANG A&F University to CUVAS, Bahawalpur, awarded by Vice Chancellor
2025	Appreciation Letter for your exceptional commitment and Hard work in conducting the 1 st Convocation, CUVAS, Bahawalpur, awarded by Vice Chancellor
2025	Appreciation Letter for organizing Independence Day Celebration, 14 th August, 2025, CUVAS awarded by Vice Chancellor
2024	Appreciation Certificate from 3 rd Position as a Highest Impact Factor Award, 2024, Faculty of Veterinary Science, CUVAS
2024	Appreciation Certificate from CUVAS as a Co-PI
2015	Vaccine Specialist, Acknowledgment Letter by WVC, UAF
2011	First Position in M. Phil Microbiology (session 2009-2011)
2009-2011	Merit Scholarship, M. Phil Microbiology (session 2009-2011)
2004-2009	Merit Scholarship, DVM (session 2004-2009)
2003	Merit Scholarship, Pre-Medical FSc
2001	Merit Scholarship, Matric

7. RESEARCH PROFILE KEY WORDS

- Molecular epidemiology and diagnosis of different Emerging Infectious and Zoonotic Diseases e.g. SARS-CoV-2, HPAI, NDV, FMD etc.,
- Preparation and evaluation of Vaccines against emerging infectious diseases
- Antimicrobial Resistance (AMR) and Nanotechnology
- One Health

8. RESEARCH GRANTS (Completed, ongoing, under review)

No of total indigenous funded proposals: 3 (as PI) and 1 (as co-PI)

Total funding secured: > 45 million PKR

No	Title of Research grants	Amount	Funding agency	Year
1.	Development of indigenous recombinant human adenovirus 5-based vector vaccines against SARS-CoV-2 and its emerging variants (as Co-PI/Completed)	PKR. 12.8/70 million	Local Challenge Fund: Higher Education Commission of Pakistan	2022-2024
2.	Preparation and Evaluation of Nano-Oil Adjuvant Combo Vaccine Against Avian Influenza & Newcastle Disease for Poultry (as PI, Short Listed/Excluded).	PKR. 17 million	PARB	2025-2028
3.	Development and Evaluation of Novel Thermostable Nano-Vaccine Against Newcastle Disease (as PI, Short Listed/ Excluded).	PKR. 20.865 million	PARC-ALP	2025-2028
4.	Preparation and Field Evaluation of a Probiotic-Based Thermostable Oral NDV Vaccine in Poultry (Submitted)	PKR. 20.00 million	PARC-ALP	2026-2029

9. ACTIVE NATIONAL/ INTERNATIONAL COLLABORATIONS

- Prof. Dr. Asif Ali (T.I), Vice Chancellor, Muhammad Nawaz Shareef University of Agriculture, Multan, Email: asifbpg@gmail.com, Contact No. 03009651941
- Prof. Dr. Moaz-ur-Rehman, Director, Centre of Excellence in Molecular Biology, University of the Punjab, Email: moaz@cemb.edu.pk, Contact No. 03217582800
- Prof. Dr. Khushi Muhammad, X-Dean, Faculty of FVS, UVAS, Lahore, email id: drkhushi.muhammad@uvas.edu.pk, Contact No. 03334250708
- Prof. Dr. Rao Zahid Abbas, Department of Parasitology, University of Agriculture, Faisalabad, Pakistan, Email: rao.zahid@uaf.edu.pk, Contact No. 03006682811
- Prof. Dr. Imran Arshad, Dean Faculty of Health & Pharmaceutical Sciences, University of Agriculture, Faisalabad, Email: imran.arshad@uaf.edu.pk, Contact No. 03445007759

10. EXPERIENCE AND RESEARCH INTERESTS

Dr. Faisal Siddique is a distinguished academician, researcher, and scientific leader currently serving as Associate Professor and Chairman of the Department of Microbiology, at Cholistan University of Veterinary and Animal Sciences. Recognized as a Higher Education Commission (HEC) Approved PhD Supervisor, he possesses more than twelve years of professional experience in higher education, research innovation, university governance, and translational microbiology. His professional profile reflects a rare combination of strategic academic administration and advanced scientific expertise, enabling him to contribute simultaneously to institutional development and

internationally relevant biomedical research. Throughout his career, he has played a leading role in strengthening academic infrastructure, developing postgraduate research programs, promoting interdisciplinary collaborations, and enhancing biosafety and biosecurity systems within the university environment. As Chairman, he successfully designed and secured HEC approval for advanced M.Phil. and PhD programs in microbiology and allied disciplines, while as Registrar he has directed university-wide operational, regulatory, and academic coordination initiatives aimed at institutional excellence and sustainable growth. His administrative leadership has also included organizing international scientific conferences, promoting research commercialization, and fostering collaborative engagement between academia, industry, and public-sector organizations. Dr. Siddique's scientific contributions are deeply anchored within the One Health framework, focusing on the interconnected dimensions of human, animal, and environmental health. His research primarily addresses emerging and re-emerging infectious diseases, zoonoses, transboundary animal diseases, molecular epidemiology, vaccine biotechnology, and antimicrobial resistance (AMR). He has extensive expertise in advanced molecular diagnostics including RT-qPCR, genomic sequencing, phylogenetic analysis, pathogen characterization, and molecular surveillance systems. During the COVID-19 pandemic, he actively contributed to SARS-CoV-2 diagnostic and surveillance efforts in Southern Punjab, Pakistan, providing important molecular epidemiological insights into circulating variants and zoonotic transmission risks. His research on avian pathogens, particularly Highly Pathogenic Avian Influenza (HPAI) and Newcastle Disease Virus (NDV), focuses on genomic surveillance, virulence characterization, and molecular typing of circulating strains in high-risk ecological zones, including migratory bird corridors and livestock-intensive regions.

Currently, his research group is actively engaged in the development of recombinant adenovirus-based vector vaccines against SARS-CoV-2 variants and nano-oil adjuvanted combination vaccines targeting Avian Influenza and Newcastle Disease. His vaccine research integrates principles of immunology, molecular virology, and biotechnology with modern delivery systems aimed at improving vaccine stability, immunogenicity, and field applicability. In addition to conventional vaccine technologies, Dr. Siddique has developed strong expertise in nanotechnology-based biomedical applications, particularly the use of nanoparticles and nanoemulsions as antimicrobial and immunomodulatory agents. His laboratory investigates innovative alternatives to conventional antibiotics, including silver nanoparticles, zinc oxide nanoparticles, chitosan formulations, and essential oil nanoemulsions, with the objective of reducing antimicrobial dependency in livestock and poultry production systems. Another defining area of his scientific work is antimicrobial resistance, recognized globally as one of the most critical public health threats. His research integrates phenotypic antimicrobial susceptibility profiling with molecular identification of resistance genes in multidrug-resistant pathogens isolated from food animals, poultry farms, environmental samples, and clinical sources. Through these investigations, he has highlighted the growing impact of irrational antibiotic usage in veterinary practices and its role in amplifying resistance within food production chains. As Principal Investigator and Co-Principal Investigator, Dr. Siddique has successfully secured more than 45 million PKR in competitive indigenous research funding for projects related to molecular diagnostics, vaccine innovation, AMR surveillance, and nanobiotechnology. These projects have significantly contributed to laboratory strengthening, postgraduate research training, and scientific capacity building at institutional and national levels. Beyond his scientific

achievements, Dr. Siddique maintains a highly collaborative international outlook and actively promotes global scientific partnerships. He has established research collaborations and academic linkages with international institutions, particularly fostering scientific cooperation between Pakistan and China through joint initiatives with Zhejiang A&F University. His professional expertise has further been strengthened through advanced technical training in molecular diagnostics and gene sequencing at Prince Haya Biotechnology Centre. Alongside his research and administrative commitments, he remains deeply dedicated to academic mentorship and scientific capacity development. He has successfully supervised and graduated more than fifteen M.Phil. and PhD scholars while serving as reviewer and editorial contributor for several national and international scientific journals. His long-term vision is to establish a premier regional One Health Research Center dedicated to zoonotic disease surveillance, vaccine innovation, antimicrobial resistance mitigation, and integrated biosecurity preparedness. Through international collaboration, scientific diplomacy, and translational research innovation, Dr. Siddique aims to contribute substantially to global public health security, sustainable livestock development, and advancement of modern molecular microbiology.

11. COUNTRIES VISITED AS A PART OF SCIENTIFIC RESEARCH

No.	Name of Country	From	To	Purpose of Visit
1.	Jordan	15/09/2019	26/06/2019	15 days training title Molecular diagnostic advance technologies (PCR, qPCR, RT-PCR, Gene Sequencing, and ELISA) held at Prince Haya Biotechnology Centre, Jordan University of Science and Technology, Ibrid, Jordan 15-26 September, 2019

12. TEACHING ACTIVITIES

➤ **Delivers lectures in the following PhD/ MPhil/BS/DVM courses at CUVAS**

Course code	Course name	Level
MICR-763	Viral Zoonosis	PhD
MICR-756	Molecular Biology of Viruses	PhD
MICR-755	Oncogenic Viruses	PhD
MICR-701	Microbiological Techniques	M.Phil.
MICR-706	Vaccinology	M.Phil.
MICR-710	Microbial Physiology	M.Phil.
MICR-717	Antimicrobial Resistance	M.Phil.
MICR-503	Food and Dairy Microbiology	BS(Hons)
MICR-301	Fundamentals of Microbiology	BS(Hons)
MICR-304	General Virology	BS(Hons)
MICR-401	Quality control in Biologics	BS(Hons)
MICR-507	Systemic Virology	BS(Hons)
MICR-510	Microbial Enzymology	BS(Hons)
MICR-611	Antimicrobial resistance and Probiotics	BS(Hons)
MICR-603	General and Applied Vaccinology	BS(Hons)
MICR-605	Biosafety and Biosecurity	BS(Hons)

MICR-607
MICR-501
MICR-403

Biomedical Microtechnology and Nanotechnology
Veterinary Virology
Molecular Biology

BS(Hons)
DVM
DVM

13. PhD / MPhil THESES SUPERVISION

PhD Theses Supervision			
No	Thesis Title	Name of student	Degree/ status
1.	Molecular Epidemiology and Mechanisms of Antimicrobial Resistance in Zoonotic Bacterial Pathogens at the Human Animal Interface	Mr. Safdar Ali	PhD/On going
2.	Phenotypic and Genotypic Characterization of Antimicrobial Resistance in Food-borne Pathogens Isolated from Poultry Production Systems	Mr. Sajjad Ahmad.	PhD/On going

MPhil Theses Supervision			
No	Thesis Title	Name of student	Degree/ Status
1.	Preparation and Evaluation of a Nano-Oil Adjuvant NDV Genotype VII Vaccine in Pigeons	Ms. Umaima Nadeem (20-CUVAS-0007)	Semifinal Thesis Submitted
2.	Molecular characterization of <i>Lactobacillus apis</i> from honeybee and evaluation of its probiotic effects from laboratory animals.	Ms. Zarnisha Malik (20-CUVAS-0008)	Semifinal Thesis Submitted
3.	Molecular Base Identification of Antimicrobial Resistance Genes for <i>Escherichia Coli</i> and <i>Pseudomonas Aeruginosa</i> in Clinical Specimens of Tertiary Care Hospital in Dist. Bahawalpur	Nida Arzou (22-CUVAS-035)	Semifinal Thesis Submitted
4.	Molecular Detection of Methicillin Resistant Staphylococcus aureus (MRSA) in Hospital Acquired Infection at Bahawal Victoria Hospital, Bahawalpur	Saqib Iftikhar (22-CUVAS-032)	Semifinal Thesis Submitted
5.	Molecular Characterization of Helicobacter Pylori and Antibacterial Evaluation of Tea Tree Oil Nanoemulsion	Raheeq ul Makhtoom (2019-CU-MICRO-108)	Semifinal Thesis Submitted
6.	Isolation and characterization of thermostable subtilisin from novel Bacillus strain in agriculture soil	Shanza Habib (22-CUVAS-0057)	Semifinal Thesis Submitted
7.	Determinating the Antibacterial Effect of Clove and Cinnamon Essential Oils, Nano-Zinc oxide and Their Combinations Against <i>Campylobacter Jejuni</i>	Ms. Iqra Naeem (2019-CU-MICRO-051)	MPhil/ Awarded (2025)
8.	Isolation and Identification of <i>Enterococcus faecalis</i> from Vegetables and Fruits Irrigated by Sewage Water	Ms. Jaweria Muslim (2019-CU-MICRO-069)	MPhil/ Awarded (2025)

9.	Molecular Characterization of Multi-Drug Resistant <i>Yersenia enterocolitica</i> and Evaluation of Mustard Oil-nanoemulsion as an Antibacterial Agent	Ms. Urwa Gill (2019-CU-MICRO-104)	MPhil/ Awarded (2025)
10.	Evaluating the Anti-Methanogenic Activity of Angelica Archangelica Via in Silico Methyl Coenzyme M Reductase (MCR) Protein Targeting and In Vitro Antimicrobial Assay	Mr. M. Abdullah (23-CU-MICRO-0046)	MPhil/ Awarded (2025)
11.	Phytochemical Analysis and Antibacterial Effect of Ziziphus mauritiana Against Escherichia coli	Ms. Aiza Aqeel (23-CU-MICRO-0049)	MPhil/ Awarded (2025)
12.	Determination of Incidence of Swine Flu in Tertiary Care Hospital Bahawalpur	Ms. Umm E Rubab Zahra (23-CU-MICRO-0061)	MPhil/ Awarded (2025)
13.	Antimicrobial sensitivity and genomic analysis of <i>Salmonella typhimurium</i> isolate from fresh poultry meat	Ms. Irsa Mustafa (2019-CU-MICRO-088)	MPhil/ Awarded (2025)
14.	Green Synthesis of Silver Nanoparticles and their antibacterial efficacy on wound infection	Ms. Hamna Shahid (23-CUVAS-0004)	MPhil/ Awarded (2024)
15.	Characterization of indigenous isolates of <i>Bacillus lecheniformis</i> from textile polluted water and its potential role in wastewater treatment	Mr. M. Hamza (2019-CU-MICRO-028)	MPhil/ Awarded (2024)
16.	Epidemiological analysis of Rotavirus in farm workers and nursing animals in Dist. Bahawalpur	Ms. Arooj Fatima (2019-CU-MICRO-033)	MPhil/ Awarded (2024)
17.	Bactericidal action of peppermint oil (<i>Mentha piperita</i> L.) on food spoilage agent <i>Salmonella typhimurium</i>	Ms. Syeda Nudrat Ul Ain (21-CUVAS-0144)	MPhil/ Awarded (2023)
18.	Determination of Antimicrobial Susceptibility Pattern of Food borne Pathogen with a Particular Reference to <i>Escherichia coli</i>	Mr. Rehmat Ali (21-CUVAS-0137)	MPhil/ Awarded (2023)
19.	Comparative Efficacy of Castor Leaf Extract, Castor Oil and Silver Nanoparticles Against Different Pathogenic Bacteria	Ms. Shahnaz (21-CUVAS-0044)	MPhil/ Awarded (2023)

14. RESEARCHERS AND INTERNEES SUPERVISED

No	Project Title	Name /Designation	Status
1.	Biodegradation of PET plastic by using Microbes: Role of <i>Bacillus</i> spp.	Umaina Nadeem Internees	04-03-2024 to 27-05-2024
2.	Biodegradation of PET plastic by using Microbes: Role of <i>Pseudomonas aeruginosa</i>	Momina Malik Internees	04-03-2024 to 27-05-2024
3.	Development of indigenous recombinant human adenovirus 5-based vector vaccines against SARS-CoV-2 and its emerging variants	Ms. Shahnaz Research Assistant	30-06-2023 to 01-01-2024

4.	Development of indigenous recombinant human adenovirus 5-based vector vaccines against SARS-CoV-2 and its emerging variants	Ms. Iqra Naeem Research Assistant	03-07-2023 to 28-02-2024
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15. ACTIVITIES: MEMBER OF BOARDS/EDITORIAL BOARDS, EXPERT/REVIEWER/CO-CURRICULAR ACTIVITIES

- Convener, Post of the Plumber BPS-04, CUVAS, Bahawalpur
- Convener, Entry Test M. Phil Microbiology, CUVAS
- Convenor, Developed & Initiated Ph.D. Scheme to HEC for NOC
- Member of the admission committee for admission of UG and PG Students
- Member, Entry Test M. Phil Microbiology, CUVAS
- Members of Committee to prepare PC-1 regarding missing facilities, CUVAS
- Members of Committee to design degree and fee structure for degree program, CUVAS
- Member/Secretary of Committee to attend the M.Phil. and PhD regulation of, CUVAS
- Class coordinator BS (Hons) Applied Microbiology session 2020-2024
- Served as member "Board of Studies", Department of Microbiology, CUVAS
- Developed & Initiated (as team member) M.Phil. Microbiology, CUVAS
- Member of the selection committee for the post of driver BPS-04
- Member of the selection committee for the post of Gatekeeper BPS-02
- Developed & Initiated (as team member) Four (04) years Bachelors Programme B.Sc. (Hons.) Applied Microbiology (morning & evening), CUVAS.
- Member of the admission committee for admission of undergraduate students (2019-2020)

16. MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

- Pakistan Veterinary Medical Council
- Distinguish Member, World Society for Virology
- Member, NACMID (Clinical Microbiology & Infectious Diseases)
- Member, Alliance for the Prudent Use of Antibiotics (APUA / ISAC)
- Member, Global Outreach - Contributing Membership, American Society for Microbiology (ASM)
- Member of the International Society for the Viruses of Microorganisms (ISVM)

17. TRAININGS/WORKSHOPS/SEMINAR/CONFERENCES/ORGANIZED/ATTENDED

1. Attend as a Presenter/Organizer, International Multidisciplinary Conference on SDGs: Research, Policy and Action dated 17-19 November, 2025
2. Organized a seminar as a chairman, Department of Microbiology on Antibacterial Resistance Awareness (AMR) dated 19-11-2025.

3. Attend a symposium "Sustainable Aquaculture; Sustaining blue economy in a green future" Friday, 6th September, 2024, Department of Zoology, CUVAS, Bahawalpur.
4. Organized a seminar as a chairman, Department of Microbiology on Antibacterial Resistance Awareness (AMR) dated 24-11-2024.
5. Participate as a Guest of Honor, Hands on Training Workshops on SPSS for Data Analysis, organized by Directorate of Advance Studies, CUVAS, BWP dated 16-12-2024.
6. Organized International Conference entitled "Current Trends, Prospectus and Opportunities in Vaccine Research: Unlocking a Healthier Tomorrow: The Crucial Role of Vaccines" at Centre of Excellence in Molecular Biology (CEMB), University of Punjab, Lahore dated 28-29 February, 2024.
7. Three Days Training on Establishing Effective Biosafety and Biosecurity Management System at institutional Level, held 1-3 November, 2023, Ramada Hotel Multan, Pakistan Biological Safety Association (PBSA).
8. Organized five days training entitled "Technical assistance for control and prevention of Lumpy skin disease in Pakistan" at CUVAS dated 24-10-2022 to 28-10-2022.
9. Organized as a Logistic Coordinator 12th week training entitled "12th week training courses in Animal Breeding/Quantitative Genetics under HEC sponsored project of CUVAS" at CUVAS dated 07-07-2022 to 23-09-2022.
10. Organized one day hands on training on Lumpy Skin disease in CUVAS dated 21-06-2022
11. Workshop on effective financial aid office, held February 18-19, 2022 HEC Reginal Centre Lahore.
12. Two-day workshop (8-9th March, 2022) on diagnosis and control of Lumpy Skin Disease organized by National Veterinary Laboratory, Islamabad
13. Online, 02 days Bio-risk Management Training, 6-7 October, 2021, Pakistan Biological Safety Association (PBSA).
14. Four Days Training on Safe and Secure Sample Collection & Transportation, 28-31 October, 2021, Pakistan Biological Safety Association
15. Online, 05 days mandatory faculty orientation program organized by Punjab Higher Education Commission (PHEC) from November 02-06, 2020
16. Online, 05 days Bio-risk Management Training, 28-31 December, 2020, Pakistan Biological Safety Association
17. 15 days training title Molecular diagnostic advance technologies (PCR, qPCR, RT-PCR, Gene Sequencing, and ELISA) held at Prince Haya Biotechnology Centre, Jordan University of Science and Technology, Ibrid, Jordan 15-26 September, 2019.
18. "In-Service Competency Enhancement Training for University Faculty" (Batch 2). 25th -26th April, 2019, in collaboration with Center for Educational Policy and Administration, Cholistan University of Veterinary and Animal Sciences, Bahawalpur.
19. "1st International Workshop on Biodiversity: Techniques & Tools". As a part of "Exhibition on Biodiversity Conservation of Cholistan Desert", held on April 4-5,

2019, organized by Department of Zoology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur.

20. Member as an organizing committee: one week faculty training program on advanced veterinary surgical and clinical skills, organized by PVMC and Riphah College of Veterinary Sciences, Lahore, December; 11-15, 2017
21. Member as an organizing committee: workshop on Zoonotic and Vector-Borne Pathogens, Organized by PARB and Institute of Microbiology, UAF, March; 31, 2015.
22. 3rd National Computational Science Conference, Institute of Space Science Technology, Islamabad held May 13-15, 2015.
23. Member as an organizing committee: workshop on cell culture-based vaccine development, Organized by PARB and Institute of Microbiology, UAF, December; 18-20, 2014.
24. Advanced Technology in Gene Expression Analysis (PCR, RT-PCR, Microarrays) held at NIBGE on 23 September to 27 September 2013
25. 36th All Pakistan Science Conference on “National Prosperity through Livestock and Poultry Development”, at Gomel College of Veterinary Sciences, Gomel University, Dera Ismail Khan (November, 12-13, 2012).
26. Molecular analysis of Transgenic Plants held at NIBGE on 26 October to 27 October 2011
27. Cultivation and maintenance of Baby Hamster Kidney Cell Line (BHK-21) In Cell Culture Laboratory held at Department of Microbiology, UVAS, on 28 November to 01 December 2011
28. International conference on Applied Genetics & Biotechnology (December 8-10, 2011)

18. ACCESSION NUMBER

- GenBank Accession number: KM043779.1; Newcastle disease virus strain I2 fusion protein mRNA, partial cds

19. BOOKS CHAPTERS PUBLISHED

1. Tariq A, Tariq I, Hussain F, **Siddique F**, Ahmed R, Sadiq K, Shah MA, Maqbool M, Haider A, and Touseef M, 2025. Zoonotic Diseases and Their Impact on Public Health: Prevention and Control Strategies. Chapter: 02; In: Editors (eds), Veterinary Internal and Preventive Medicine, H & M Academic Publisher, Multan, Pakistan, Vol. 1: 12-21.
2. Hayat D, Ahmed R, **Siddique F**, Nadeem U, Malik M, Nazir M, Naeem F, Haneef MA and Afzal A, 2024. Role of T-Helper cells in generating effective humoral immune response in vaccinated cows. Complement Altern Med, Unique Scientific Publishers, Faisalabad, Pakistan, Chapter: 09: Vol. x: 67-74. <https://doi.org/10.47278/book.CAM/2024.257>

3. Anoosha M, Muhammad, FN, Muhammad, D, Hina F, **Faisal S**, Muhammad S, 2024. Chapter 21: Phytochemicals activating non-coding RNAs (ncRNAs) to modulate ferroptosis in human cancers and aging. *Veterinary Medicine Enhancing Animal and Well Being*. Page: 415-475.
4. Haneef MA, Ahmed R, **Siddique F**, Bibi S, Khan S, Iqbal MU, Asadullah, Batool S, Nazir M and Naeem F, 2024. Role of cell adhesion molecules in extravasation of lymphocytes in immunized animals. *Complementary and Alternative Medicine: Immunization/Vaccinology* chapter: 47. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 403-411. <https://doi.org/10.47278/book.CAM/2024.177>.
5. Hussain, F., Hamid Ali, Ateeqah Siddique, Kashif Rahim, Umair Younas, **Faisal Siddique**, Muhammad Nisar, Muhammad Shuaib, Muhammad Saeed, Wen-Jun Li and Arooj Fatima. Host Genetic Diversity of SARS-CoV. *Genetic Diversity of Coronaviruses*, Bentham Science Publishers, Vol. 1, 2024, 87-120.
6. Firasat Hussain, Hamid Ali, Atteeqah Siddique, Tehmeena Nousheen, Kashif Rahim, Umair Younas, **Faisal Siddique**, Mukhtar Alam, Hidayat Ullah and Muhammad Nisar. Newly Emerging Variants of SARS-CoV. *Genetic Diversity of Coronaviruses*, Bentham Science Publishers, Vol. 1, 2024, 121-144.
7. Muhammad, S, **Faisal, Siddique**, Rizwana, S, Sabry, A.A.E, Sarah, Y.A.A, Mayada, RF, Mohamed, E.AE, Abdelrazeq, M.S. and Mahmoud, A. 2022. Chapter 7: Use of Chicory (*Cichorium intybus*) and its Derivatives in Poultry Nutrition. *Antibiotic Alternatives in Poultry and Fish Feed*, 2022, 98-110.
8. Mahmoud, A, Mohamed, EAE, Muhammad, S, Muhammad, SK, Asghar, AK, **Faisal, S**, Ali, R, Mayada, RF and Samir, M. 2022. Chapter 1: Hazards of Using Antibiotic Growth Promoters in the Poultry Industry. *Antibiotic Alternatives in Poultry and Fish Feed*, Bentham Science Publishers, 2022, 1-18.
9. Ihtisham, UH, Fatima, F, Amna, S, Abdul B, Firasat, H, Israr, A, Zarak IK, Amjad IA, **Faisal, S**, Umair, Y and Kashif, R. 2022. Phages and SARS-CoV-2. Book entitled *Application of Natural Products in SARS-CoV-2*. Application of Natural Products in SARS-CoV-2. DOI: <https://doi.org/10.1016/B978-0-323-95047-3.00021-6> © 2023 Elsevier Inc. All rights reserved.
10. Ihtisham, UH, Fatima, F, Amna, S, Abdul B, Firasat, H, Israr, A, Zarak IK, Amjad IA, **Faisal, S**, Umair, Y and Kashif, R. 2022. Natural products and SARS-CoV-2. Book entitled *Application of Natural Products in SARS-CoV-2*. Application of Natural Products in SARS-CoV-2. DOI: <https://doi.org/10.1016/B978-0-323-95047-3.00021-6> © 2023 Elsevier Inc. All rights reserved.
11. Abbas A, Rani Z, Abbas RZ, Hussain K, **Siddiqui F**, Rehman A, Ahmad B, Raza MA, Khan JA, Yasin R, Rajput SA, Zaib W, Rehman TU, Ayaz MM and Khera HRA, 2022. Botanical control of poultry coccidiosis. In: Abbas RZ, Khan A, Liu P and Saleemi MK (eds), *Animal Health Perspectives*, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. I, pp: 247-252. 2022
12. **Siddique F**, Abbas RZ, Akhtar T, Abbas A, Saeed M, Safdar M, Sajid M, Iqbal A, Masood S and Hussain R, 2022. Veterinary vaccines: where are they now? In:

- Abbas RZ, Khan A, Liu P and Saleemi MK (eds), Animal Health Perspectives, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. 2, pp: 139-147. <https://doi.org/10.47278/book.ahp/2022.532022>
13. **Faisal Siddique**, ES, Alghamdi, A, Abbas, M, Saeed, K, Rahim, S, Masood, A Javaid, F Hussain, 2022. Hosts genetic diversity of MERS-CoV. pp 296-310.
 14. **Siddique F**, Akram K, Saleh Alghamdi E, Arshad Q, Siddique A. The Immunomodulatory Role of Probiotics. Prebiotics and Probiotics - From Food to Health. IntechOpen; 2022.
 15. Amjad IA, M. Shoib, MA, Naseer, **Faisal Siddique** et al., 2021. Veterinary Nutraceuticals, Pharmaceuticals and Vaccines. Chapter 12, Frontier in Protein, and Peptide Sciences, Bentham Science Publishers, Volume: 2, 323-348.
 16. **Siddique F**, Abbas RZ, Babar W, Mahmood MS, Iqbal A, Section a: Parasitic diseases cryptosporidiosis. Vet. Pathobiol. Public Health. 2021:63-75.
 17. Ulhaq, I., Basit, A., Ali, I., Hussain, F., Ali, Z., **Siddique, F.**, Ahmed H., Aqib A.I., Rahim, K. Chapter Name: Coronavirus Disease-2019 (COVID-19) Epidemiology. Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers. 2020.
 18. Hayat Khan, Firasit Hussain, Kashif Rahim, **Faisal Siddique**. 2020. Chapter Name: Biochemical characterization of SARS-CoV-2 spike protein proteolytic processing: Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers, 2020.
 19. Muhammad FN, Ahmad U, Kamal N, Shoukat HM, Qudratullah, **Faisal S**, 2021. Chapter Name: Ultraviolet radiation A (UVA) modulates the production of nitric oxide to combat COVID-19. Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1; A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers. 2020.
 20. **Faisal Siddique**, Muhammad Farrukh Nisar, Maida Manzoor, Firasat Hussain, Muhammad Saeed, Kashif Rahim, Asif Javaid. 2020. Chapter Name: Genomic Organization of SARS-CoV-2: Book series title: Coronavirus Disease 2019 (COVID-19): Epidemiology, Biochemistry, Diagnostics and Treatment; Volume 1 page number 98-132 A Coronavirus Disease 2019 (COVID-19): A perspective of new Scenario; Bentham Science Publishers, 2020. Page Number 98-132.

20. PUBLICATIONS

1. Muhammad Sajid, Faiz-ul Hassan, Atique Ahmed Behan, Fethi Ahmet Ozdemir, **Faisal Siddique**, Sarfraz Ali Fazlani · Muhammad Asif Arain, Muhammad Saif-ur Rehman, 2026. Mesenchymal stem cell-based therapeutic strategies for female infertility: current evidence and emerging targeting approaches. *Biotechnol Lett* (2026) 48:63. (IF: 2.5, Q3) DOI: 10.1007/s10529-026-03731-7
2. Maria Nazir, Rais Ahmed, **Faisal Siddique**, Omer Naseer, Momina Malik, Duaa Hayat, Abdullah Saghir Ahmad, Abdul Whab Manzoor, Aqsa Mushtaq, Sobia Amir Chughtai, Hafiz Muhammad Waqar, 2026. Molecular Characterization and Phylogenetic Profiling of *Corynebacterium pseudotuberculosis* Isolates from Small Ruminants in Bahawalpur, Pakistan. *Pakistan Journal of Zoology*. pp 1-10, 2026. (IF: 0.5, Web of Science/Q4) Doi: 10.17582/journal.pjz/20251124144613
3. Duaa Hayat, Rais Ahmed, **Faisal Siddique**, Omer Naseer, Abdullah Saghir Ahmad, Abdul Whab Manzoor, Aqsa Mushtaq, Sobia Amir Chughtai, Hafiz Muhammad Waqar, 2026. Development and Immunogenicity Evaluation of an Inactivated *Corynebacterium pseudotuberculosis* Vaccine in Small Ruminants. *Pakistan Journal of Zoology* pp 1-9, 2026. (IF: 0.5, Web of Science/Q4) doi.org/10.17582/journal.pjz/20251121145009
4. Rais Ahmed, Waqas Ahmed, **Faisal Siddique**, Abdullah S Ahmed, Haleema Sadia, Duaa Hayat, Abdul W Manzoor, Aqsa Mushtaq, Razia Sultana, 2026. Unveiling Cancer Proteoforms: Insights into Biomarker Discovery and Therapeutic Strategies. *Pakistan Journal of Zoology* pp 1-9, 2026. (IF: 0.5, Web of Science/Q4)
5. Bilal RM, Rudayni HA, Siddique U, Ul Hassan F, **Siddique F**, Saeed S, Alawam AS, Allam AA, Farag MR, Abo-Samaha MI, Abass KS, 2026. Using herbal plants in broiler diets with special reference to coriander, garlic, cumin, fennel, and yarrow: toward sustainable broiler production. *World's Poultry Science Journal*. 2026 Jan 18:1-22. (IF: 3.5, Q1) 10.1080/00439339.2025.2611354.
6. Wang X, Hussain M, Ain QU, Zaynab M, Abdel-Maksoud MA, Almana TN, Almutair S, Alamri A, Saleh IA, Zomot N, Al-Qahtani WH, **Faisal Siddique** and Yasir Hameed. Pan-cancer analysis of PTPN6: prognostic significance and functional implications in tumor progression. *Discover Oncology*. **2025** Aug 25;16(1):1611. (IF: 2.9, Q2) doi: 10.1007/s12672-025-03384-4.
7. M.T. Arshad, A. Javaid, I.H. Raja, M.U. Akhtar, Z.M. Iqbal, A. Ahmad, **F. Siddique**, & S. Najeeb. Effects of Partial Replacement of Maize Stovers with Potato Culls on In Situ Digestion Kinetics of Cannulated Buffalo Bull. *Journal of Agriculture and Veterinary Science*, 2025. 4(1), 57-62. 10.55627/agrivet.004.01.0999
8. Arooj Fatima, Omer Naseer, **Faisal Siddique**, Urwah Ishaque, Sofia Kashif, Saima Talib, Tayyab- ur-Rehman, Unab Zahra, Ateeqah Siddique, 2025. Rotavirus in Calves: Cutting-Edge Insights and Emerging Challenges. *Journal of Zoology and Systematics*. 3(1), 95-109. (Y Category)
9. Qureshi TM, Muhammad G, Nadeem M, Akram K, Ibrahim SA, **Siddique F**, Ahmed R, Tarabulsi MK, Almuhayawi MS, Al Jaouni SK, Selim S. Quality and nutrition of cow's milk paneer supplemented with pastes from indigenous date varieties. *Future Foods*. 2024 Oct 18:100477. (IF: 8.2, Q1). 10.1016/j.fufo.2024.100477
10. Muhammad, Ahsan, Muhammad, MJ, Waqas, A, Aamir G, Muhammad, TM, **Faisal, S**, Syed, MH, Bilal, A, Zeeshan, N, Aimen S, Safdar, A. 2024. Immunization Potency and Protective Efficacy of a Bivalent Inactivated Fowl Cholera and Avian Influenza Vaccine in

- Poultry. *Journal of Population Therapeutics & Clinical Pharmacology*, 31:7 501-513. (IF: 1.2, Q3) <https://doi.org/10.53555/jptcp.v31i7.6973>
11. Ahmed Abdelkader Aboamer, Hossam Mahrous Ebeid, Faisal Siddique, Muhammad Asif Arain, Faiz-ul Hassan. Nutraceutical potential of essential oils in dairy animal diets: challenges and opportunities. *Proceedings of the Indian National Science Academy*. 91:28-42; s43538-024-00310-0. (IF: 0.9, Q3). 10.1007/s43538-024-00310-0
 12. Ullah, Aftab, Marina Khan, Muhammad Akram, Muhammad Abdullah, Sayka Sayka, Imran Iqbal, **Faisal Siddique**, Muhammad Asif Arain, Faiz-Ul Hassan, and Muhammad Shafi. 2024. "CRISPR Cas-9 for Treatment and Control of Avian Viral Diseases: Challenges and Opportunities." *World's Poultry Science Journal*, May, 1–21. (IF: 3.5, Q1). doi.org/10.1080/00439339.2024.2344124
 13. Safdar M, Ozaslan M, Mustafa RM, Smail SW, Khan SS, Khan MS, Akhtar MA, Ali HK, Younas U, Saeed M, **Siddique F**, Naveed M, Rehman S. The severity of COVID-19 in hypertensive patients is associated with mirSNPs in the 3' UTR of ACE2 that associate with miR-3658: In silico and in vitro studies. *J Taibah Univ Med Sci*. 2023 Oct;18(5):1030-1047. (IF: 1.9, Q2). doi: 10.1016/j.jtumed.2023.02.009.
 14. Sardar Ali, Muhammad Imran Arshad, Qudrat Ullah, **Faisal Sadique**, Ameer Hamza Rabbani, Noor ul Akbar, Omer Naseer, Mubasher Rauf, Muhammad Moazam Jalees, Fazal Wadood, Hafiz Muhammad Safwan and Muhammad Shahid, 2023. Sero-molecular epidemiology of blood donors infected with Hepatitis C virus (HCV) in Peshawar, Pakistan. *Pure and Applied Biology*. 12:2: 1009-1016. (Y Category). doi.org/10.19045/bspab.2023.120103
 15. Sidra Altaf, Rao Zahid Abbas, Tayyaba Akhtar, **Faisal Siddique**, Muhammad Shahid Mahmood, Muhammad Kasib Khan, Khurram Ziaf, Muhammad Rafay, Muhammad Azam Khan, Asghar Abbas, Liliana Aguilar Marcelino, Muhammad Zia, Hanem Fathy Khater, Nahla Muhammad Saeed, Karim Yar Abbasi, 2023. Antioxidant rich medicinal plants as a potential candidate to treat gastric ulcer. *Boletin Latinoamericano Y Del Caribe De Plantas Medicinales Y Aromáticas*, 22(5). (IF: 0.7, Q4). <https://doi.org/10.37360/blacpma.23.22.5.41>
 16. Hassan, Faiz-ul, Chunjie Liu, Muhammad Asif Arain, and **Faisal Siddique**. "Potential of dietary hemp and cannabinoids to modulate immune response to enhance health and performance in animals: opportunities and challenges." *Frontiers in Immunology* 14 (2023): 1285052. (IF: 5.7, Q1). <https://doi.org/10.3389/fimmu.2023.1285052>
 17. Muneer MA, Arshad M, Abbas G, Arshad M, Munir K, Iqbal A, Mustafa A, Amin Q, Khan MA, Qureshi RA, **Siddique F**. Insight of Pandemic COVID-19: Developments and Challenges. *Pakistan Journal of Science*. 2023 Mar 1;75(1):134-57. (Y Category). DOI: 10.57041/pjs.v75i1.831
 18. M.S. Mahmooda, A. Ashraf, S. Alia, A.B. Siddique, F. Asadb, R.Z. Abbasd, **F. Siddique**, A. Aslam, R. Aslama and A. Rafiqueb, 2023. Portrayal of Punica granatum L. peel extract through High Performance Liquid Chromatography and antimicrobial activity evaluation. *Brazilian Journal of Biology* 83:1-7. (IF: 1.57, Q2). doi: 10.1590/1519-6984.244435.
 19. Z. Hashmat, I.S. Channa, M. Safdar, M. Ozaslan, M. Saeed, **F. Siddique** & Y. Junejo, 2022. Adrenergic blocker terazosin potentially suppresses acetaminophen induced-

- acute liver injury in animal models via CYP2E1 gene. *Toxicological Research*, s43188-021-00116-y: (IF: 2. 1, Q2) doi: 10.1007/s43188-021-00116-y.
20. M.A. Zaman, A. Rafique, U. Mehreen, S. Mehnaz, F.A. Atif, A. Abbas, K. Hussain, M.A. Raza, S. Altaf, **F. Siddique**, R.M. Masudur and M. Oma, 2022. Epidemiological Investigation and Development of Loop Mediated Isothermal Amplification for the Diagnosis of Ovine Theileriosis. *Pakistan Veterinary Journal*, 10.29261 (IF: 2.28, Q1). <https://doi.org/10.3390/foods13111635>
 21. U. Mehtab, M.A. Tahir, R.Z. Abbas, A. Abbas, M.A. Raza, K. Hussain, **F. Siddique**, M. Mohsin, M. Kashif, 2021. Ochratoxin A occurrence, its pathological effects on poultry health and decontamination approaches. *Journal of Hellenic Veterinary medical Society*. 72 (3) 2861-2866 (IF: 0.4, Q4). DOI: 10.12681/jhvms.29355
 22. **F. Siddique**, Rao ZA, Muhammad KM, Etab SA et al., 2021. An Insight into the COVID-19 a 21st Century Disasters and its Relation with Immune-Competence and Food Antioxidants. *Frontiers in Veterinary Science*, 7, 1168. (IF:3.21, Q1). <https://doi.org/10.3389/fvets.2020.586637>
 23. **Faisal S**, Rao ZA, Asif I, Masood R, Azhar R, Irshad H, Rais A, Mahmood MS and Alireza L, 2021. Development of humoral immune response to thermostable Newcastle disease vaccine strain I-2 in ring-necked pheasant (*Phasianus colchicus*). *Kafkas Üniversitesi Veteriner Fakültesi Dergisi*, 27 (2): 253-258 (IF: 0.75, Q3). DOI: 10.9775/kvfd.2020.25021
 24. M. Saeed· MS. Khan, M. Alagawany, MR. Farag, O. Alqaisi, Al. Aqib, M. Kumar, **F. Siddique**, MF, Ramada, 2021. Clove (*Syzygium aromaticum*) and its phytochemicals in ruminant feed: an updated review. *Rendiconti Lincei. Scienze Fisiche e Naturali*. 10:1-3. (IF: 2.7, Q2). DOI: 10.1007/s12210-021-00985-3
 25. Maryum Ilyas, Firasat Hussain, **Faisal Siddique** et al. 2021. Molecular screening for leaf and yellow rust resistance genes in Pakistani wheat varieties. *Bioscience Research*, 18(1): 929-935. (IF: 0.737, Q4).
 26. K. Hussain, R.Z. Abbas, A. Abbas, M.A. Asif Raza, K. Samiullah, M.K. Khan, T. Ahmad, **F. Siddique** et al. 2021. Anticoccidial potential of *Ageratum conyzoides* and its effect on Blood parameters of experimentally infected Broiler Chickens. *Journal of the Hellenic Veterinary Medical Society*, 72(3), 3085-3090. (IF:0.4, Q4). DOI: 10.12681/jhvms.28497
 27. **F. Siddique**, R.Z. Abbas, M.S. Mahmood, A. Iqbal, A. Javaid, and I. Hussain, 2020. Eco-epidemiology and pathogenesis of Newcastle disease in ostriches (*Struthio camelus*), *World's Poultry Science Journal*, 76(2): 249-258. (IF:2.92, Q1). DOI: 10.1080/00439339.2020.1746220
 28. Abbas RZ, Zaman MA, Sindhu ZUD, Sharif M, Rafique A, Saeed Z, Rehman TU, **Siddique F**, Zaheer T, Khan MK, Akram MS, Chattha AJ, Fatima U, Munir T and Ahmad M, 2020. Anthelmintic effects and toxicity analysis of herbal dewormer against the infection of *Haemonchus contortus* and *Fasciola hepatica* in goat. *Pakistan Veterinary Journal*, 40(04):455-460, (IF: 1.8, Q1). <http://dx.doi.org/10.29261/pakvetj/2020.083>
 29. Gao N, Du Y, Zheng X, Shu S, Suo J, Han M, Ma X, Huang R, Peng W, Fu C, **Siddique F**, Xu S, Zhu W, Khan A, Dong J and Zhang J, 2020. Endometritis in donkeys associated with *Streptococcus equi* subspecies *Zooepidemicus* infection. *Pakistan Veterinary Journal*, 40(4): 537-539. (IF: 1.803, Q1). <http://dx.doi.org/10.29261/pakvetj/2020.081>

30. M.Z Latif, Khushi Muhammad, Riaz Hussain, **Faisal Siddique**, et al., 2018. Effect of Stabilizers on Infectivity Titer of Freeze Dried Peste Des Petits Ruminants Virus Vaccine. Pakistan Veterinary Journal 38(2):169-173 (IF:0.7, Q3). <http://dx.doi.org/10.29261/pakvetj/2018.032>
31. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Farrah Deebea, 2017. Evaluation of efficacy of vero cell adapted thermostable Newcastle Disease I-2 vaccine in challenged broiler birds. J. Appl. Poult. Res. 26 (1): 145-153. (IF:1.064, Q2). 2017 J. Appl. Poult. Res. 26:145–153 <http://dx.doi.org/10.3382/japr/pfw055>
32. Nighat Fatima, Muhammad Shahid Mahmood, Iftikhar Hussain, **Faisal Siddique** and Sidra Hafeez, 2016. Transesterification of Oil Extracted from Fresh Water Algae for Biodiesel Production. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. 38 (15) 2306-2311. (IF:0.527, Q4). <https://doi.org/10.1080/15567036.2015.1048387>
33. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Farrah Deebea, 2015. Antibody response of broilers to cell culture adapted Thermostable Newcastle disease I-2 strain vaccine. Journal of Animal and Plant Sciences, 25(6): 1562-1565. (IF: 0.48, Q4). <https://thejaps.org.pk/AbstractView.aspx?mid=2015-JAPS-211>
34. **Faisal Siddique**, Iqbal A, Sabir H, Manzoor M, Hussain I, Mahmood MS and Ahmad SI, 2015. Eco-Epidemiology and Control of Waterborne Gastroenteritis: A Review. J Food Process Technol 6: 477.
35. Muhammad Shahid Mahmood, **Faisal Siddique**, Iftikhar Hussain, Syied. I. Ahmad, Azhar Rafique 2014. Thermostable Vaccines for Newcastle Disease: A Review. World's Poultry Science Journal 70:04: 829-838. (IF:1.259, Q4). DOI: 10.1017/S0043933914000889
36. **Faisal Siddique**, Iftikhar Hussain, Muhammad Shahid Mahmood, Saiyed. I. Ahmed and Asif Iqbal, 2014. Isolation and Characterization of a Bacterium Producing a Highly Thermostable Alpha-Amylase Enzyme. Pakistan Journal of Agriculture Sciences, 50 (1): 1-6. (IF:1.259). (Online) 2076-0906 <http://www.pakjas.com.pk>
37. **Faisal Siddique**, Iftikhar Hussain, Muhammad Shahid Mahmood, Azar Rafique, Asif Iqbal, 2014. Descriptions of Alpha-Amylase Produced from Aspegillus Niger. Pakistan Journal of Science (Vol. 66 No. 2 June, 2014). HEC-recognized Y category
38. A. Iqbal, M. S. Sajid, **Faisal Siddique** and M. S. Mahmood, A. Shamim, 2014. Descriptive Epidemiology of Hypodermatosis in Bufaloes (Bos Bubalis Bubalis) of District Toba Tek Singh, Punjab, Pakistan. Pakistan Journal of Science, 66: 16-19.
39. Asif Iqbal, **Faisal Siddique**, Muhammad Shahid Mahmood and Tayyab Zafar, 2014. Dynamic Dispersal and Chemotherapy of Bovine Pediculosis in Selected Population of Central Punjab, Pakistan. Global Veterinaria 12 (2): 187-192.
40. Ayesha Khan, Muhammad, Shahid Mahmood, Iftikhar Hussain, **Faisal Siddique**, Azhar Rafique, Asif Iqbal and Rao Zahid Abbas, 2014. Bacteriological and Epidemiological Investigations of Pullorum Disease in Selected Poultry Farms of Faisalabad, Pakistan. Global Veterinaria 12 (4): 455-460.
41. Muhammad Sohail Sajid, Asif Iqbal, Muhammad Nisar Khan, Ghulam Muhammad, Rao Muhammad Siddique, Zafar Iqbal, Muhammad Kasib Khan, and **Faisal Siddique** 2013. "Descriptive epidemiology of insects infesting domestic sheep (Ovis aries) of district

- Toba Tek Singh, Punjab, Pakistan." Pakistan Journal of Agricultural Sciences 50 (1): 117-122. (IF: 1.15). <http://www.pakjas.com.pk>
42. Iftikhar Hussain, **Faisal Siddique**, Muhammad Shahid Mahmood, Saiyed I. Ahmed, 2013. A review of the Microbiological Aspect of Alpha-amylase Production: An important industrial enzyme. International Journal of Agriculture & Biology, 5; 1029–1034. (IF: 1.066). Corpus ID: 82334716
 43. Adil Shahzad, Muhammad Shahid Mahmood, Iftikhar Hussain, **Faisal Siddique** and Rao Zahid Abbas, 2012. Prevalence of Salmonella Species in Hen Eggs and Egg Storing-Trays Collected from Poultry Farms and Marketing Outlets of Faisalabad, Pakistan. Pakistan Journal of Agricultural Sciences 49(4):565-568. (IF: 1.288). ISSN (Online) 2076-0906 <http://www.pakjas.com.pk>

21. ABSTRACTS PUBLISHED IN PROCEEDINGS OF NATIONAL/ INTERNATIONAL CONFERENCES AND SYMPOSIUMS

1. Umaima Nadeem, **Faisal Siddique**, Rais Ahmed, Kashif Rahim, Abdul Moez Qureshi, Santosh Kumar, and Firasat Hussain, 2025. Use of CRISPR-CAS in Genetic Modification of Rabies Virus. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
2. Fazeela Fareed, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Abdullah Saghir Ahmad, Kashif Rahim, Santosh Kumar and Firasat Hussain, 2025. Physico-Chemical Characteristics and Antioxidant Potential of Date Fruit Added Dahi. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
3. Abdul Rehman, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Genomic Identification, Evolution, and Functional Characterization of Heat Shock Protein Genes in *Thermomonas Hydrothermalis*. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
4. Ayesha Tariq, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Abdullah Saghir Ahmad, Kashif Rahim, Ieman Tariq, Santosh Kumar and Firasat Hussain. 2025. Brain Tumor Detection Using Artificial Neural Networks: A Simple and Fast Approach for Early Diagnosis. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
5. Abdul Moez Qureshi, **Faisal Siddique**, Rais Ahmed, Hamid Majeed, Kashif Rahim, Santosh Kumar and Firasat Hussain 2025. The Potential of Lemongrass Essential Oil Nanoemulsion in Resistance Modulation of Milk Derived *Staphylococcus aureus*. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
6. Areesha Sagheer, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Muhammad Adeel Hassan, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Quantitative Bacteriological Analysis and Antibiotic Resistance Characterization in Powdered Infant

- Milks. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
7. Duaa Hayat, Firasat Hussain, Muhammad Mazhar Ayaz, **Faisal Siddique**, Omer Naseer and Rais Ahmed, 2025. Development and Assessment of An Inactivated Vaccine for Controlling Lympho Disease in Small Ruminants. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 8. Leman Tariq, Muhammad Mazhar Ayaz, **Faisal Siddique**, Ayesha Tariq, Abdullah Saghir Ahmad, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Integrating Advanced Sound Analysis, Cellular Biology, and Epigenetics to Investigate the Therapeutic Effects of Quranic Recitation Frequencies on Human and Microbial Systems. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 9. Iqra Naeem, Firasat Hussain, Muhammad Mazhar Ayaz, Rais Ahmed, Faiz-ul-Hassan, and **Faisal Siddique**. 2025. Microbiome-Targeted Interventions for Preventing Zoonotic Disease Transmission in Animal Populations. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 10. Maria Nazir, Firasat Hussain, Muhammad Mazhar Ayaz, **Faisal Siddique**, Abdullah Saghir Ahmad and Rais Ahmed. 2025. Molecular Profiling of *Corynebacterium Pseudotuberculosis* Isolates and Virulence Factors Associated with Caseous Lymphadenitis in Bahawalpur. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 11. Momina Malik, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Epigenetic Reprogramming of Immune Cells by Epstein-Barr Virus: A Novel Approach. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 12. Muhammad Adnan, Firasat Hussain, Muhammad Mazhar Ayaz, **Faisal Siddique**, Abdullah Saghir Ahmad, and Rais Ahmed. Comparative Efficacy of Alum-Based Adjuvanted Vaccine of *Corynebacterium pseudotuberculosis* in Small Ruminants. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 13. Munaza Rasheed, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Muhammad Adeel Hassan, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Biofilms In Pathogenesis: A Critical Component of New and Emerging Infectious Diseases. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 14. Shanza Habib, Firasat Hussain, Rais Ahmed, Faiz-ul-Hassan and **Faisal Siddique**. 2025. Determining The ability of Thermostable Serine Protease Enzyme Isolated from *Bacillus Subtilis* from Cholistan Desert Bahawalpur. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 15. Um E Rubab Zahra, Firasat Hussain, Rais Ahmed, Faiz-ul-Hassan and **Faisal Siddique**. 2025. Prevalence of Avian Influenza H9 Viruses in Commercial Broilers in South Punjab, Pakistan. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 16. Urwa Gill, Firasat Hussain, Muhammad Mazhar Ayaz, Rais Ahmed, Faiz-ul-Hassan and **Faisal Siddique**. 2025. Investigating The Antimicrobial Potential of Essential Oil Against

- Multidrug Resistant Bacteria. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
17. Zarmish Habib, Muhammad Mazhar Ayaz, **Faisal Siddique**, Rais Ahmed, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Prevalence of *Trichophyton Verrucosum* Infection in Farm Animals of The Cholistan Desert of District Bahawalpur, Pakistan. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 18. Zarnisha Malik, Muhammad Mazhar Ayaz, Faisal Siddique, Rais Ahmed, Kashif Rahim, Santosh Kumar and Firasat Hussain. 2025. Response to COVID-19, Recent Developments, Challenges and A Way Out. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 19. Muhammad Hamza, Firasat Hussain, Muhammad Mazhar Ayaz, Rais Ahmed, Faiz-ul-Hassan and **Faisal Siddique**. 2025. Digestive Challenges for Vertebrate Animals: Microbial Diversity, Cardiorespiratory Coupling, and Dietary Specialization. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 20. Arooj Fatima, Firasat Hussain, Muhammad Mazhar Ayaz, Rais Ahmed, Faiz-ul-Hassan, Omer Naseer and **Faisal Siddique**. 2025. Genomic Epidemiology and Contamination Colistin-Resistant *Klebsiella Pneumoniae*'s Development in Livestock and Possible Zoonotic Transmission. 43rd International Pakistan Congress of Zoology Department of Zoology, University of Okara, Okara dated 22-24 April, 2025.
 21. **Faisal Siddique**, Muhammad Mazhar Ayaz, Faiz-ul-Hassan, Qandeel Arshad, Iqra Naeem, and Muhammad Sajid. 2024. Thermostable Nano-Vaccine against Newcastle Disease; A Review. International Conference entitled "Current Trends, Prospectus and Opportunities in Vaccine Research: Unlocking a Healthier Tomorrow: The Crucial Role of Vaccines" at Centre of Excellence in Molecular Biology (CEMB), University of Punjab, Lahore dated 28-29 February, 2024.
 22. Iqra Naeem, **Faisal Siddique**, Muhammad Mazhar Ayaz, Faiz-ul-Hassan, Qandeel Arshad. 2024. Vaccines-Bridging the Gap for One Health; A Review. International Conference entitled "Current Trends, Prospectus and Opportunities in Vaccine Research: Unlocking a Healthier Tomorrow: The Crucial Role of Vaccines" at Centre of Excellence in Molecular Biology (CEMB), University of Punjab, Lahore dated 28-29 February, 2024.
 23. Faiz-ul-Hassan, **Faisal Siddique**, Rana Muhammad Bilal, and Muhammad Sajid, 2024. Immunoinformatics identifies Apigetrin and Kaempferol as promising adjuvants for Lumpy Skin Disease vaccine. International Conference entitled "Current Trends, Prospectus and Opportunities in Vaccine Research: Unlocking a Healthier Tomorrow: The Crucial Role of Vaccines" at Centre of Excellence in Molecular Biology (CEMB), University of Punjab, Lahore dated 28-29 February, 2024.
 24. Maryam Zafar, Sofia Irfan, Moaz-ur Rahman, **Faisal Siddique**, Mazhar Iqbal, Aamir Shehzad, Wasim Abbas, 2024. Development of indigenous recombinant human adenovirus 5-based vector vaccines against SARS-CoV-2 and its emerging variants International Conference entitled "Current Trends, Prospectus and Opportunities in Vaccine Research: Unlocking a Healthier Tomorrow: The Crucial Role of Vaccines" at Centre of Excellence in Molecular Biology (CEMB), University of Punjab, Lahore dated 28-29 February, 2024.

25. **Faisal Siddique**, Wasim Babar, Muhammad Sajid, Haseeb Khaliq, Asghar Abbas, Kashif Hussain, Atif Rehman, Riffat Yasin, Asif Javaid. 2022. Honeycomb gum as an immune's boosting agent in poultry for its application in COVID-19; A review International Conference on Sustainable Bio-economy in Livestock & Crop Production. ISBN: 978-969-2201-02-5, The Muhammad Nawaz Shareef University of Agriculture is a public university.
26. M Sajid, H Khaliq, A SQ, **F Siddique**, S Masood, A Abbas and MF Nisar. 2022. Socio-ecological Factors Affecting the Camel Production. International Conference on Sustainable Bio-economy in Livestock & Crop Production. ISBN: 978-969-2201-02-5, The Muhammad Nawaz Shareef University of Agriculture is a public university
27. Haseeb K, M Younas, M Sajid, **F Siddique**, A Abbas. 2022. Comparative Efficiency of Biogas Production from Livestock and Agricultural Residues. International Conference on Sustainable Bio-economy in Livestock & Crop Production. ISBN: 978-969-2201-02 5, The Muhammad Nawaz Shareef University of Agriculture is a public university.
28. M. Sajid, **Faisal S**, Anas SQ, Asif, M. The exploration of micro-ecological effect of camel reproduction in Pakistan, National Camel conference on health, reproduction, production and products held UAF, 25th June, 2019.
29. Muhammad S, Haseeb K, Muhammad FN, Zahid M, Yasir W, **Faisal S** and Saima M, 2021. Recent Technology Trends in Stem Cell. International Conference Science, Technology, Engineering, Mathematics and Social Sciences. March 30-31, 2021
30. **Faisal Siddique**, Kashif Akram, Wasim Babar, Muhammad Saeed, Asif Javaid. Inappropriate Use of Hand Sanitizer During The COVID-19 Outbreak Led to An Increase in Multiple Drugs Resistance; A Review. 4th International (Virtual) One health conference, University of Veterinary and Animal Sciences, Lahore, Pakistan, 9-10 September, 2021
31. Asif Iqbal and **Faisal Siddique**. A brief knowledge about the development of subunit vaccines against bovine tropical Theileriosis in Pakistan. Global Conference on Vaccines, April 13-15, 2015, Dubai, UAE.
32. Ayesha Khan, **Faisal Siddique** and Asif Iqbal. Sero-epidemiology and immunogenic evaluation of bioterrorist agent brucella in district Rawalpindi, Pakistan. Global Conference on Vaccines, April 13-15, 2015, Dubai, UAE.
33. Maida Manzoor, Iftikhar Hussain, Muhammad Shahid Mahmood, **Faisal Siddique** and Sidra Hafeez, 2015. Epidemiological and Bacteriological Investigation of Waterborne Bacterial Pathogens Associated with Gastroenteritis in District Faisalabad, Pakistan. 3rd National Computational Science Conference, May 13-15, 2015, P. 76
34. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Syied I. Ahmad and Asif Iqbal, 2015. Hepatitis Is a Silent Tsunami in Pakistan: A Review. 3rd National Computational Science Conference, May 13-15, 2015, P. 71.
35. Sidra Hafeez, Muhammad Shahid Mahmood, Iftikhar Hussain, **Faisal Siddique** and Maida Manzoor, 2015. Comparative Analysis of Emerging Bacterial and Viral Food Borne Pathogens; A Review. 3rd National Computational Science Conference, May 13-15, 2015, P. 79.
36. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Syied I. Ahmad, Asif Iqbal and Ayesha Khan, 2014. Thermostable Vaccine: A new approach against New Castle Disease in Pakistan. Global Conference on Vaccines, April 13-15, 2015, Dubai, UAE.
37. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Azhar Rafique, Syied I. Ahmad, Asif Iqbal and Farrah Deeba, 2014. Comparison and Immunogenic Evaluation of thermostable NDV I-2 and LaSota vaccines against Newcastle disease virus in Pakistan. 4th

International Conference on Vaccines & Vaccination, September 24-26, 2014 Valencia Convention Centre, Spain.

38. Asif Iqbal and **Faisal Siddique**, 2014. Approaches for Incipient Contagious Peril of Zoonotic Bacterial Tick-borne Diseases. International conference on Emerging Trends for Life Sciences for Sustainable Development from 9 to 11 October 2014.
39. Iftikhar Hussain, Muhammad Shahid Mahmood, **Faisal Siddique**, Syied I. Ahmad and Asif Iqbal, 2014. Isolation, identification and characterization of different foodborne pathogens in Indigenous buffalo raw milk of Faisalabad city. International conference on Emerging Trends for Life Sciences for Sustainable Development from 9 to 11 October 2014.
40. Muhammad Ijaz Saleem, Syed Asher Mahfooz, A. Iqbal, **Faisal Siddique**, 2013. Descriptive epidemiology and in vivo therapeutic efficacy of herbal and allopathic compounds against Theileriosis in Cattle of Faisalabad, Punjab, Pakistan. "International Conference on Pharmaceutical Toxicology" Organized by University of Veterinary and Animal Sciences, Lahore, Pakistan, April, 25-26, P. 26.
41. Tayyab Zafar, Syed Asher Mahfooz, A. Iqbal, **Faisal Siddique**, 2013. Incidence and Treatment of Babesiosis in Selected cattle population of District Faisalabad. "International Conference on Pharmaceutical Toxicology" Organized by University of Veterinary and Animal Sciences, Lahore, Pakistan, April, 25-26, P. 25.
42. Ayesha Khan, Muhammad Shahid Mahmood, Iftikhar Hussain and **Faisal Siddique**, 2013. Invitro efficacy of enterococcus faecium J96 against Pullorum Disease. "International Conference on Pharmaceutical Toxicology" Organized by University of Veterinary and Animal Sciences, Lahore, Pakistan, April, 25-26, P. 32
43. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Azhar Rafique, Syied I. Ahmad and Asif Iqbal, 2013. Standardization of stabilizer for lyophilization of cell cultured adapted thermostable Newcastle Disease Vaccine. "International Conference on Pharmaceutical Toxicology" Organized by University of Veterinary and Animal Sciences, Lahore, Pakistan, April, 25-26, P. 22.
44. Muhammad Shahid Mahmood, **Faisal Siddique**, Iftikhar Hussain and Azhar Rafique, 2013. Ninth International Biennial Conference of Pakistan Society of Microbiology, scheduled at January 28 – 31, 2013.
45. Iftikhar Hussain, **Faisal Siddique**, Muhammad Shahid Mahmood and Azhar Rafique, 2013. Wolbachia Based Dengue Virus Control. Ninth International Biennial Conference of Pakistan Society of Microbiology, scheduled at January 28 – 31, 2013.
46. Iqbal A., Sajid M.S., **Siddique F.**, 2013. "Some Aspects of Crimean–Congo Hemorrhagic Fever: A Tick-Borne Viral Disease". Ninth International Biennial Conference of Pakistan Society of Microbiology, scheduled at January 28 – 31, 2013.
47. Muhammad Shahid Mahmood, **Faisal Siddique**, Iftikhar Hussain, Azhar Rafique¹, Syied I. Ahmad, Asif Iqbal², Shahid Ali and Azhar Aslam, 2013. Development and In vitro Evaluation of Cell Culture Adapted Thermostable Newcastle Disease Vaccine in Pakistan. The fourth international conference on: modern vaccines/adjuvants formulation, impact on future development – 15-17 May 2013, CHUV, Lausanne, Switzerland.
48. **Faisal Siddique**, Muhammad Shahid Mahmood, Iftikhar Hussain, Azhar Rafique¹, Syied I. Ahmad, Asif Iqbal², Ayesha Khan and Misbah Razaq, 2013. Thermostable Vaccines: A new Horizon in Poultry Industry; Review. An International Conference on "Biotechnology: Prospects and Challenges in Agriculture, Industry, Health and Environment" is being

organized from April 22-26, 2013 at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.

49. Misbah Razaq, Muhammad Shahid Mahmood, Iftikhar Hussain, **Faisal Siddique** and Ayesha Khan, 2013. Epidemiological and Molecular Analysis of Human Papillomavirus Infection in Pakistan. An International Conference on "Biotechnology: Prospects and Challenges in Agriculture, Industry, Health and Environment" is being organized from April 22-26, 2013 at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.
50. Ayesha Khan, Muhammad Shahid Mahmood, Iftikhar Hussain, **Faisal Siddique** and Misbah Razaq 2013. Morphological and Molecular analysis of Pullorum Disease. An International Conference on "Biotechnology: Prospects and Challenges in Agriculture, Industry, Health and Environment" is being organized from April 22-26, 2013 at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.
51. Ghulam A., F. Ahmad, S. Mahmood, M. Yousaf, A. Iqbal and **F. Siddique**, 2013. Comparative therapeutic efficacy of ivermectin and piperazine citrate against *Ascaridia galli* in commercial and rural poultry. "International Conference on Pharmaceutical Toxicology" Organized by University of Veterinary and Animal Sciences, Lahore, Pakistan, April, 25-26, 2013. P. 28.
52. Iqbal A, Muhammad Sohail Sajid, **Faisal Siddique**, 2013. Comparative therapeutic efficacy of Calotropis procera and Oxytetracycline against bovine tropical theileriosis in selected population of cattle and buffaloes of district Toba Tek Singh. "International Conference on Pharmaceutical Toxicology" Organized by University of Veterinary and Animal Sciences, Lahore, Pakistan, April, 2013. 25-26, P. 27.
53. Iqbal A., **Siddique F.**, Sajid M.S., 2012. Descriptive epidemiology of Hypodermatosis in bubaline population of district Toba Tek Singh, Punjab, Pakistan. 36th All Pakistan Science Conference on "National Prosperity through Livestock and Poultry Development", November, 12-13, 2012, Organized by Gomal College of Veterinary Sciences, Gomal University, Dera Ismail Khan.
54. **Siddique F.**, Hussain I., Mahmood M.S., Iqbal A., 2012. Purification and Characterization of alpha amylase produced from *Aspergillus niger*. 36th All Pakistan Science Conference on "National Prosperity through Livestock and Poultry Development", November, 12-13, 2012, Organized by Gomal College of Veterinary Sciences, Gomal University, Dera Ismail Khan.
55. Iqbal A. and **Siddique F.**, 2012. The spreading of parasitic diseases through food: A challenge for developing countries. "2nd international conference, Future prospective of food processing industry in Pakistan" December, 11-12-2012, Organized by Department of food science, government college university Faisalabad, Pakistan. P. 51.
56. Adil Shahzad, Muhammad Shahid Mahmood, **Faisal Siddique**, Iftikhar Hussain, 2012. Egg Born Food Poisoning Associated with Salmonella. "2nd international conference, Future prospective of food processing industry in Pakistan" December, 11-12-2012, Organized by Department of food science, government college university Faisalabad, Pakistan. P. 69.
57. **Siddique F.**, Hussain I., Mahmood M.S. and Iqbal A., 2012. Microbial Amylases as a source of food additives. "2nd international conference, Future prospective of food processing industry in Pakistan" December, 11-12-2012, Organized by Department of food science, government college university Faisalabad, Pakistan. P. 69.
58. Muhammad Shahid Mahmood, **Faisal Siddique**, Iftikhar Hussain, Farrah Deeba, 2012. An augmented review about an emerging Issue of Dengue Fever in Pakistan. 36th All Pakistan

Science Conference on “National Prosperity through Livestock and Poultry Development”, November, 12-13, 2012, Organized by Gomal College of Veterinary Sciences, Gomal University, Dera Ismail Khan.

59. **Faisal Siddique**, Iftikhar Hussain, Muhammad Shahid Mahmood, Saiyed. I. Ahmed, 2011. Isolation and Characterization of a Bacterium Producing a Highly Thermostable Alpha-Amylase Enzyme that is Heat Resistant upto 100°C. International conference on Applied Genetics & Biotechnology (December 8-10, 2011).

22. Extension Articles

1. M. Sajid and **Faisal Siddique**, 2019. Shelter of Livestock during Flood situation in Pakistan. Agro-Veterinary News, Page No. 10.
2. **Faisal Siddique**, 2016. Zika Virus: An Emerging Public Health Newborn Threat in under Developing Countries, The Veterinary News & Views, page 05, Issue No. 110, dated; November, 2016.
3. **Faisal Siddique**, 2014. Awareness about Ebola Virus. The Nation Newspaper, November 10, 2014.
4. Asif Iqbal and **Faisal Siddique**, 2012. Crimean-Congo Hemorrhagic Fever (CCHF): A volcano near to burst in Pakistan. The Veterinary News & Views, page 9, Issue No. 23, dated; April 23, 2012.
5. Asif Iqbal and **Faisal Siddique**, 2012. Biological Control of Ticks. The Veterinary News & Views, page 10, Issue No. 36, dated; July 31, 2012.
6. Muhammad Shahid Mehmood, **Faisal Siddique** and Asif Iqbal, 2012. Vaccine (Prevention is better than cure).

22. Professional and Academic Profile Links

1. **ORCID ID**: 0000-0002-5237-5256
2. **LinkedIn**: <https://www.linkedin.com/in/dr-faisal-siddique-851b421a3/>
3. **Google Scholar**: <https://scholar.google.com/citations?user=3rrTL0oAAAAJ&hl=en>
4. **ResearchGate**: https://www.researchgate.net/profile/Faisal-Siddique?ev=hdr_xprf