

Dr Sher Hayat Khan

Associate Professor

Institute of Biotechnology and Genetic Engineering

University of Agricultural Peshawar, KP, Pakistan

Mob. 0092-316-1818316Email: drshkhan@aup.edu.pk**ACADEMIC QUALIFICATION:**

Degree/ Certificate	Year of completion	University/institute.
PhD	2016	China Agricultural University Beijing
MSc (Hons.) (Parasitology)	2005	UVAS Lahore Pakistan.
DVM (Doctor of Vet. Med)	2002	Uni of Agri. Faisalabad.

EMPLOYMENT RECORD:

Scale of Pay	Designation	Dates		Name and address of Employer
		From	To	
17	Livestock Production Officer	Jan 2006	May 2007	Livestock and Dairy Development Department, Barani Area Development Project District Hangu.
18	Lecturer	May 2007	November 2017	The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan
19	Assistant Professor	November 2017	November 2025	The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan
20	Associate Professor	December 2025	Till date	The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan

Distinctions and Awards; awarded with HEC Funded Scholarship for study abroad Under SIBGE Project.

Supervision:

- 2 PhD under supervision as Chairman supervisory committee (In progress)
- 1 PhD Supervised as major Member (Graduated)
- 14 M.Phil. Supervised as Chairman supervisory committee (Graduated)
- 3 M.Phil. under supervision (In progress)
- 7 MPhil as major Member
- 14 B.Sc. (Hons.) internship students supervised

PUBLICATIONS

- Total Publication; 26
- Impact factor publication; 19 (W=15, X=6, Y=1)
- Non-Impact Factor Journals: 2

NCBI / Gene Bank Submission.

- 6 Nucleotide Sequences of PRNP gene in different sheep breeds of KPK submitted to genebank (Accession # allotted and published)

PUBLICATIONS

S.No.	Publication	Impact Factor	Catagory
1.	Anees Ahmad, Muhammad Ibrahim, Muhammad Yaqoob, Muhammad Fahim, Sher Hayat Khan , Israr Ud Din, Majid Khan, Sohail Ahmad (2026) Genome sequencing reveals genes under selection for olfactory transduction in highland sheep. Mol Genet Genomics 301, 155 . https://doi.org/10.1007/s00438-026-02477-1	2.1	W
2	Hanan Al-Khalaifah , Muniza Kiran, Sher Hayat Khan , Ihtesham Ulhaq, Muhammad Ibrahim, Sohail Ahmad, Haris Bilal, Zeng Shenming, Shabana Naz, Rifat Ullah Khan, Ibrahim A Alhidary (2025) Detection of Genetic Polymorphism in Growth Hormone Receptor Gene and Its Influence on Growth Traits in Kari and Balkhi Sheep. Vet Med Sci. ;11(6):e70633. doi: 10.1002/vms3.70633.	1.7	W
3	Sheraz Khan, Haidar Ali, Amir Muhammad Khan, Sher Hayat Khan , Muhammad Ibrahim, Ihtesham UIHaq, Navid Iqbal (2025) Genome wide association studies of growth differentiation factor 9 (GDF9) gene in indigenous sheep in Khyber Pakhtunkhwa, Pakistan.		

	Archives of Ecotoxicology, Vol. 7, No. 2, pp. 32-36,		
4	Hussain Shah1*, Muhammad Zahid, Sher Hayat Khan and Rehman Mehmood Khattak (2025) Evaluation of Stray Dogs as Sentinels of Zoonotic Parasites in Khyber Pakhtunkhwa Pakistan. Intl J Agric Biol 34:340405. https://doi.org/10.17957/IJAB/15.2377	0.54	X
5	Izaz Ali, Muhammad Ibrahim, Sohail Ahmad, Sher Hayat Khan , Ihtesham Ul Haq, Ibrahim A. Alhidary, Rifat Ullah Khan, Naseer Khan Momand & Marco Ragni. (2025) Genetic variation in zona pellucida-3 (ZP3) gene and its association with litter size variation in Kari sheep. Animal Biotechnology, 36:1, 2450364, DOI: 10.1080/10495398.2025.2450364	1.9	W
6	Tahira Mir, Muhammad Ibrahim*, Muhammad Siraj, Sajid Ali Khan Bangash, Sher Hayat Khan , Majid Khan, Muhammad Tayyab, Sohail Ahmad (2025) Novel mutations in exon 2 of follistatin (FST) gene associated with wool fiber diameter in sheep. Small Ruminant Research 243 ; 107426	1.6	W
7	Gul I. Hina, Najeeb Ullah Khan, Sidra Tul Muntaha, Asad Ullah, Sher Hayat Khan , Abdullah R. Alanzi, Ijaz Ali, Tianhui Chen (2024) "Association analysis of miRNA-146a and miRNA-196a polymorphism with breast cancer risk in Khyber Pakhtunkhwa, Pakistan: a preliminary study" Molecular Biology Reports 51:827 https://doi.org/10.1007/s11033-024-09765-2	2.3	W
8	Ibrahim, Muhammad, Sohail Ahmad, Israr Ud Din, Waqas Ahmad, Ijaz Ahmad, Sher Hayat Khan , Ihtesham Ul Haq, Jehan Zeb, and Olivier Andre Sparagano. 2022. "Microsatellite Analysis Revealed Potential DNA Markers for Gestation Length and Sub–Population Diversity in Kari Sheep" <i>Animals</i> 12, 23: 3292. https://doi.org/10.3390/ani12233292	3	W
9	Badshah N, Mattison KA, Ahmad S, Chopra P, Johnston HR, Ahmad S, Khan SH , Sarwar MT, Cutler DJ, Taylor M, Vadlamani G, Zwick ME and Escayg A (2022) Novel Missense CNTNAP2 Variant Identified in Two Consanguineous Pakistani Families With Developmental Delay, Epilepsy, Intellectual Disability, and Aggressive Behavior. Front. Neurol. 13:918022	4.003	W
10	Ali, T., Kamran, A. Raziq, I.U. Wazir, A. Ali, M.I. Ali, M.S. Khan, S. Ullah and S.H. Khan . 2022. Bacteriology, Antimicrobials resistance and susceptibility profiles of bacteria from mastitic cattle and buffaloes of Khyber Pakhtunkhwa. Sarhad Journal of Agriculture , 38(4): 1240-1245. 1240-1245.	-	Y
11	Badshah N, Ahmad S, Khan SH , Qureshi SA, Sarwar MT. 2022 Epilepsy in the consanguineous families at tribal society of Khyber Pakhtunkhwa-Pakistan. J Med Sci ;30(1):32-36	-	Y
12	Haidar Ali, Sher Hayat , Sohail Ahmad, Adnan Haider, Sami Ullah, Shahzad Ahmad, Ihtesham Ul Haq. (2021) Anti-Apoptotic Role of p21andp27Genes during Different Stages of Corpus Luteum Progressionin Bovine, Iranian Journal of Applied Animal Science (IJAAS) 11 (2): 297-303	0.4	Y
13	Shahin Shah Khan, Haidar Ali, Sher Hayat , Sohail Ahmad, Muhammad Ibrahim, Syed Adnan Haider, Ijaz Ahmad, Ihtesham Ul Haq (2020) Expression Of ISG15 And Conjugating Enzyme During Peri-Implanation Period In Sheep, Biotechnology in Animal Husbandry 36 (2), 215-223	-	-

14	Sher Hayat Khan , Deming Zhao, Syed Zahid Ali Shah ¹ , Mohammad Farooque Hassan ¹ , Ting Zhu ² , Zhiqi Song ¹ , Xiangmei Zhou ¹ and Lifeng Yang ¹ “Parkin overexpression ameliorates PrP106-126–induced neurotoxicity via enhanced autophagy in N2a cells”. Cellular And Molecular Neurobiology DOI: 10.1007/s10571-016-0407-7	3.895	W
15	Mohammad Farooque Hassan [#] , Sher Hayat Khan [#] Masroor Ellahi Babar, Lifeng Yang, Tariq Ali, Jamal Muhammad Khan, Syed Zahid Ali Shah, Xiangmei Zhou, Tanveer Hussain, Ting Zhu, Tariq Hussain, Deming Zhao, Polymorphism Analysis Of Prion Protein Gene In Eleven Pakistani Goat Breeds Prion Journal DOI:10.1080/19336896.2016.1178422	2.241	Y
16	Zhiqi Song, Ruichao Yue, Yanming Sun, Chunfa Liu, Sher Hayat Khan , Chaosi Li, Ying Zhao, Xiangmei Zhou, Lifeng Yang, Deming Zhao “Fatal bacterial septicemia in a bottlenose dolphin <i>Tursiops truncatus</i> caused by <i>Streptococcus iniae</i> ” Diseases of aquatic organisms 122:195-203 (2017) - DOI: https://doi.org/10.3354/dao03069	1.549	W
17	Yang Zhou . Deming Zhao . Ruichao Yue . Sher Hayat Khan . Syed Zahid Ali Shah . Xiaomin Yin . Lifeng Yang . Zhongqiu Zhang . Xiangmei Zhou. Inflammasomes-dependent regulation of IL-1b secretion induced by the virulent <i>Mycobacterium bovis</i> Beijing strain in THP-1 macrophages. Antonie van Leeuwenhoek DOI 10.1007/s10482-015-0475-6	2.137	W
18	Khan JM, El-Ashram S, Liu HB, Khan SH , Ayan A, Liu XY, Wang H, Tang XM, Suo X and Hassan MF, 2016. Transgenic <i>Eimeria</i> mitis expressing chicken IL-4 mediated decrease in pathogenicity compared to wild type <i>Eimeria</i> mitis strains in broiler chickens. Pak Vet J , 36(4): 415-420.	0.822	X
19	Syed Zahid Ali Shah, M.S.Khan, Sher Hayat Khan “Comparative Anthelmintic Efficacy of Caesalpinia Crista, Nigella Sativa and Oxfendazole in Broilers with Experimentally Induced <i>Ascaridia Galli</i> Infection” Universal Journal of Clinical Medicine 2(3): 53-57, DOI: 10.13189/ujcm.2014.020301	-	-
20	Syed Zahid Ali Shah & Deming Zhao & Sher Hayat Khan & Lifeng Yang Unfolded Protein Response Pathways in Neurodegenerative Diseases. J Mol Neurosci DOI 10.1007/s12031-015-0633-3	2.352	-
21	Syed Zahid Ali Shah, Deming Zhao, Sher Hayat Khan ¹ & Lifeng Yang. Regulatory Mechanisms of Endoplasmic Reticulum Resident IP3 Receptors. J Mol Neurosci DOI 10.1007/s12031-015-0551-4	2.757	-
22	Yu Guangmin ^s , Ihteshamul Haq ^s , Sher Hayat Khan ¹ and Zeng Mingsheng. Actin Filaments are Necessary for FSH-Induced CYP19A1 Transcription in Bovine Granulosa Cells <i>in vitro</i> Pakistan Vet. J. , 2014,	1.392	X
23	Ting Zhu, Sher Hayat Khan , Deming Zhao, and Lifeng Yang. Regulation of proteasomes in prion disease, <i>Acta Biochim Biophys Sin</i> 2014, 46: 531–539	2.089	
24	Huinan Wang & Lifeng Yang & Mohammed Kouadir & Rongrong Tan & Wenyu Wu & Huarong Zou & Jin Wang & Sher Hayat Khan & Dongfeng Li & Xiangmei Zhou & Xiaomin Yin & Yunsheng Wang & Deming Zhao. Expression and Distribution of Laminin Receptor Precursor/Laminin Receptor in Rabbit Tissues. J Mol Neurosci DOI 10.1007/s12031-013-0032-6	2.5	W
25	Xiu Jin Yang & Li Feng Yang & Xiang Mei Zhou & Sher Hayat Khan & Hui Nuan Wang & Xiao Min Yin & Zhen Yuan & Zhi Qi Song & Wen Yu Wu & De Ming Zhao. Using Protein Misfolding Cyclic Amplification Generates a Highly Neurotoxic PrP Dimer Causing Neurodegeneration. J Mol Neurosci DOI 10.1007/s12031-013-0039-z	2.5	W
26	Hao Yao, Deming Zhao, Sher Hayat Khan , and Lifeng Yang. Role of	1.376	

	autophagy in prion protein-induced neurodegenerative diseases. ActaBiochimBiophys Sin 2013, 45: 494–502		
27	W Gan, X Zhou, H Yang, H Chen, J Qiao, SH Khan , L Yang, X Yin, D Zhao 2013, Development of a test for bovine tuberculosis in cattle based on measurement of gamma interferon mRNA by real- time PCR. Veterinary Record 173 (5), 117-117	2.695	W
28	LatifurRehman, IhasnUllah, Ijaz Ali1, Imtiaz Ali Khan, Aqib Iqbal, Sanaullah Khan, Sher Hayat Khan ,KhaleeqUzZaman, Najibullah Khan, Zahoor Ahmed Swati and Anila Tariq Jahangiri. Active hepatitis C infection and HCV genotypes prevalent among the IDUs of Khyber Pakhtunkhwa. Virology Journal 2011, 8:327	2.34	W
29	Sahidullah, sadeeq-ur-rahman, m. Rabbani, m. Kamal shah, s. Naseem, S. H. Khan and k. Muhammad. Development of standard protocols for preparation and evaluation of liver homogenate vaccines against hydropericardium syndrome Virus in poultry. Pakistan Vet. J. , 2008, 28(4).	0.822	

a) NCBI / Gene Bank Submission.

S. No.	Nucleotide Sequences	GenBank accession numbers
1	sequence analysis of PRNP gene in Ghalji Sheep of KP	BankIt2292042 GJ-PRNP MN818817
2	sequence analysis of PRNP gene in Kari Sheep of KP	BankIt2292042 KR-PRNP MN818818
3	sequence analysis of PRNP gene in Kutta Sheep of KP	BankIt2292042 KT-PRNP MN818819
4	sequence analysis of PRNP gene in Mazai Sheep of KP	BankIt2292042 MZ-PRNP MN818820
5	sequence analysis of PRNP gene in Tirahi Sheep of KP	BankIt2292042 TR-PRNP MN818821
6	sequence analysis of PRNP gene in Wazari Sheep of KP	BankIt2292042 WZ-PRNP MN818822

- Conferences, Meetings, Workshops:**

- Participated as invited speaker in “**Livestock Genetic and Genomic conference**” held on 19,20 November 2025 at PMAS Arid Agriculture University Rawalpindi.
- Successfully organized one day workshop on “**Integration of ICT in Agriculture and Applied Research**” held on 21st February 2019 by the ORIC, The University of Agriculture, Peshawar as organizing committee member.
- Successfully organized one day workshop on “**Developing a winning research proposal**” held on 26th December 2018 by the ORIC, The University of Agriculture, Peshawar as organizing committee member.
- Participated in two days training on “**Bio risk Management**” on December 19-20, 2019. Arranged by Association of Bio risk Management in collaboration with AUP.
- Organized and participated in a two day training on “**R-Programing and Genomic analysis**” on December 2-3, 2021, under the project National Center For Livestock Breeding Genetics & Genomics.
- Participated as a **Jury Member** in “**One day Poster competition on Cancer Genetics**” held on 1st March 2022 at IBGE, The University of Agriculture Peshawar.