

# Curriculum Vita/ Biodata

**Dr. Hamayun Khan**

**PhD (Biology of Reproduction -Japan)**

Associate Professor

**College of Veterinary Science (previously Department of Animal Health),**

FAH&VS, The University of Agriculture, Peshawar Pakistan

Email: [hamayunaup@yahoo.com](mailto:hamayunaup@yahoo.com) ; [hamayunkhan@aup.edu.pk](mailto:hamayunkhan@aup.edu.pk)



Current Position: **Associate Professor(BS-20 Regular), College of Veterinary Science previously known as Department of Animal Health**

## Education:

<b>Degree</b>	<b>Institute/uni</b>	<b>Division</b>	<b>Major Subject</b>
SSC	BISE Peshawar	Ist	Biology, Maths, Physics, Chemistry etc
HSSC	FBISE Islamabad	Ist	Premedical Subjects, Biology, Chemistry, Physics, Maths, English, etc
DVM	Sindh Agriculture University TandoJam	Ist	Parasiology , Entomology Biochemistry ,Physiology ,Genetics, Animal Biology ,Anatomy, Nutrition, Reproduction, Surgery, Histology, livestock Management, Zoo Management, Pathology, Medicine etc
M.Sc(Hons) Silver Medal	Sindh Agriculture university TandoJam	Ist	Veterinary Anatomy and Advanced Histology , advance endocrinology , Microbiology, Physiology and Biochemistry etc
PhD	Yamaguchi University Japan	Ist	Biology of Reproduction / DevelopmentalAnatomy, Parasitology,Entomology, Molecular Biology, Western Blotting , Advaced Histochemical techniques, Reproductive Biotechnology, Animal Sciences , Mammalian placentation immunohistochemistry , Microbiology, Pathology etc

### **Membership of Professional Organization:**

1. Pakistan Agricultural Scientists Forum (PAS)
2. Lifelong membership of Pakistan Veterinary Medical Council (PVMC) Islamabad, Pakistan
3. Society for Animal Reproduction of Pakistan (SARP)(elected as representative of KPK zone )
4. Membership of approved PhD supervisors list of Higher Education Commission
5. Member of Board of Studies for Clinical Science, The Gomal College of Veterinary Sciences, Gomal University D.I. Khan since January 2018
6. Member of Academics/ Course Development, the Department of Agricultural Sciences, Allama Iqbal Open University Islamabad
7. Subject Expert/ Technical Member Khyber Pakhtunkhwa Public Service Commission
8. Member ship of Japanese Association of Veterinary Anatomist (2009, 2011)
9. Membership of Asian Association of Veterinary Anatomist (2009)
10. Membership of Japanese Society of Veterinary Science (2011)
11. Membership of Pakistan veterinary medical Association. (2015)

### **Potential Reviewer National and International Research Journals that includes :**

- a) Sarhad Journal of Agriculture,
- b) Pakistan Journal of Science,
- c) Macedonian Veterinary Review.
- d) Additionally works as potential Reviewer for NRP (National Research Programme for Universities) Projects of Higher Education Commission of Pakistan (HEC) and
- e) Punjab Higher Education Commission Research projects

### **Previous Professional Appointment:**

**Jan12 2003 to Dec 2004 :** Visiting and / or Contract Lecturer at the Department of Livestock Management, The University of Agriculture Peshawar, Pakistan

**Jun25, 2004 to Nov10, 2005 :** Veterinary Officer at Directorate of Livestock Research and Development Peshawar, Pakistan and from 19/01/2005 to 10/11/2005 working as Veterinary Officer/ Farm Manger of Livestock Research and Development Station Surezai (Peshawar)

**Nov11, 2005 to Dec28, 2009:** Permanent Lecturer at the Department of Animal Health, The University of Agriculture Peshawar, Pakistan

**Dec29, 2009 to 17 October 2017:** Assistant Professor at the Department of Animal Health, The University of Agriculture Peshawar, Pakistan

**October 18, 2017 to till date :** **Associate Professor** at the Department of Animal Health, recently renamed as College of Veterinary Science, The University of Agriculture Peshawar, Pakistan

**Research Interest** : Animal reproduction, Biology of Reproduction; Comparative Placentation in Mammalian Species; Semen Biology in Domestic Animals; Functional Biology of Reproductive System in Domestic Animals; Stress Biology in Domestic Animal; Developmental Biology, Molecular Biology that includes extraction and quantification of RNA and DNA and total protein from biological samples ; Immunohistochemistry ; Western Blotting ; Advanced Histological Techniques, Recent trend in Biology , Recent trend in Zoology, Animal Management , Genetics, Animal Nutrition etc

## **Research Contribution and Accomplishments**

### **Research Supervision:**

**M.Phil Students produced as chairman or major or minor member of the Supervisory committee.**

<b>No.</b>	<b>Name</b>	<b>As a</b>	<b>Degree awarded</b>
<b>1.</b>	Khadium Mustafa	Chairman supervisory committee	<b>2021</b>
<b>2.</b>	Doulat Khan	Chairman supervisory committee	2019
<b>3.</b>	Anwar shah	Chairman supervisory committee	<b>2020</b>
<b>4.</b>	Adnan khan	Chairman supervisory committee	<b>2020</b>
<b>5.</b>	Sanaulah Khan	Chairman supervisory committee	<b>2021</b>
<b>6.</b>	Ali husnain	Major member	<b>2021</b>
<b>7.</b>	Abubakir sadiq	Mahor member	<b>2020</b>
<b>8.</b>	Adnan Khan	Major member	<b>2014</b>
<b>9.</b>	Hamid Rehman	Major member	<b>2014</b>
<b>10.</b>	Ibrar Ahmad Khan	Major member	<b>2014</b>
<b>11.</b>	Abdul Ghaffar Khan	Minor member	<b>2014</b>
<b>12.</b>	Abdul Wahab	Chairman supervisory Committee	<b>2015</b>
<b>13.</b>	Zakirullah	Chairman supervisory Committee	<b>2015</b>
<b>14.</b>	Chahat Ali	Chairman Supervisory Committee	<b>2016</b>
<b>15.</b>	Shahzada Khuram Adrian Shah	Chairman Supervisory Committee	<b>2016</b>
<b>16.</b>	Raiz Khan	Minor member	<b>2014</b>
<b>17.</b>	Asif Ali Khan	Minor member	<b>2014</b>
<b>19</b>	Noor Badshah	Chairman Supervisory committee	<b>2017</b>

**My significant research publications in the last five years are listed below:**

N.O	Title and authorship	Impact Factor
1.	Guo, H.; Khan, R.; Abbas Raza, S.H.; Suhail, S.M.; <b>Khan, H.</b> ; Khan, S.B.; Abd El-Aziz, A.H.; Zan, L. RNA-Seq Reveals Function of Bta-miR-149-5p in the Regulation of Bovine Adipocyte Differentiation. <b>Animals</b> 2021, <b>11</b> , 1207. <a href="https://doi.org/10.3390/ani11051207">https://doi.org/10.3390/ani11051207</a>	<b>2.752</b>
2.	A.Khan, RU Khan, MS Qureshi, M Mobashar, A Gohar, S Ahmad, <b>Khan H</b> and Naz S.2021 Effects of Different Equilibration Times on Post-Thaw Cryopreserved Semen Quality of Cattle and Buffalo Bulls. <b>Pakistan Journal of Zoology</b> <b>53 (2);613-618</b>	<b>0.831</b>
3.	Ullah Z, <b>Khan H</b> , Hussain SM, Tarique Tunio M, Raihan Dilshad SM, Gohar A, Zahid H & Ali A (2019) Enhancement of Extender Excellence of Frozen Bull Semen Using $\alpha$ -Tocopherol as an Antioxidant <b>Acta Scientiae Veterinaria</b> . <b>47</b> , 1641. <a href="https://doi.org/10.22456/1679-9216.90447">https://doi.org/10.22456/1679-9216.90447</a> .	<b>0.321</b>
4.	<b>Khan, H</b> .R, Muhammad M, Mehmood, M. U., Shahzad, Q., Gohar, A, Alam, M, Ali, Q., Kumbar, H.K. (2014). Biometric Assessment of the Testis in Pakistani Adult Male Goats ( <i>Capra hircus</i> ). <b>Pakistan Journal of Zoology</b> <b>46: 880</b>	0.831
5.	Khattak NBS , <b>Khan H</b> , Tunio MT , Ahmad S , Ahmad N , Andrabi SMH , Obaidullah , Ali I and Fang NZ Dose-Dependent Effect of Green Tea ( <i>Camellia sinensis</i> ) Extract in the Post-Thawed Fertility Indicators of frozen Bovine Semen Extender <b>Pakistan J. Zool.</b> , pp 1-10, 2021. DOI: <a href="https://dx.doi.org/10.17582/journal.pjz/20181230051216">https://dx.doi.org/10.17582/journal.pjz/20181230051216</a>	<b>0.831</b>
6.	Ullah H, Khan RU, Mobashar M, Ahmad S, Sajid A, Khan NU, Usman T, Khattak I, <b>Khan H</b> (2019) Effect of yeast-based selenium on blood progesterone, metabolites and milk yield in Achai dairy cows. <b>Italian Journal of Animal Science</b> <b>18(1):1445–1450</b>	<b>1.805</b>
7.	D Khan, <b>H Khan</b> , A Nazir, MT Tunio, M Tahir, MS Khan, RU Khan Early Pregnancy Diagnosis using Pregnancy-Associated Glycoproteins in the Serum of Pregnant Ruminants <b>Pakistan Journal of Zoology</b> <b>52 (2), 785</b>	<b>0.831</b>
8.	Khan, Adnan; Khan, Rifat Ullah; Qureshi, Muhammad Subhan; Mobashar, Muhammad; Gohar, Ali; Ahmad, Shakoor; Khan, Kamran; <b>Khan, Hamayun</b> ; Naz, Shabana Effects of Different Equilibration Times on Post-Thaw Cryopreserved Semen Quality of Cattle and Buffalo Bulls. <b>Pakistan Journal of Zoology</b> . <b>Apr2021, Vol. 53 Issue 2, p613-618. 6p.</b>	<b>0.831</b>
9.	Khan, M.; Saleem, M.; Rahim, I.; <b>Khan, H.</b> ; Gohar, A.; Ahmad, S.; Salim, M.; Ali, Q. and Farmanullah, 2014. Assessment of morphometric, productive and reproductive characteristics of Azikheli buffalo in Swat valley in northern Pakistan. <b>Life Science Journal</b> <b>11:1-8.</b>	
10.	Mehmood, M.U.; Qamar, A.; Raza, S.; <b>Khan, H.</b> ; Shahzad, Q.; Sattar, A. Dystocia due to Perosomus Elumbis ( <i>Acaudatus</i> ) in a buffalo. <b>Pakistan Journal of Zoology</b> . <b>2014, 46, 1468–1470.</b>	0.831
11.	Fasiha Kamal , Hammad Ullah , <b>Hamayun Khan</b> , Yusuf Konca, Rifat Ullah Khan Effect of organic selenium on blood progesterone, metabolites, milk yield and service period of Jersey cows <b>Journal of Animal Physiology and Nutrition Science</b> <b>VOL. 1, NO. 1, 7-11</b> <a href="https://doi.org/10.46417/JAPN/2020.002">https://doi.org/10.46417/JAPN/2020.002</a>	

12.	Tasbihullah , Rahman SU, Ali T , Saddique U , Ahmad S , Shafiq M , Ayaz S , <b>Khan H</b> , Ahmad I, Asadullah , Taj R , Nidaullah H and Khan A. High Occurrence Rate of Multidrug-Resistant ESBL-Producing E. coli Recovered from Table Eggs in District Peshawar, Pakistan <b>Pakistan Journal of Zoology ., vol. 52(4), pp 1231-1238, 2020</b>	0.831
13.	Zakirullah; <b>Khan, H</b> ; Gohar, A; Amanullah, H; Younas, M; Tunio, M T; Khan, MS; Khan, Ibrar M; Khan, N L-Cysteine Addition in Tris-Citric Acid Extender Enhances Functional Characteristics of Post-Thaw Spermatozoa in Achai and Holstein Friesian_ Bulls under Subtropical Environment. <b>Pakistan Journal of Zoology . Dec2019, Vol. 51 Issue 6, p2193-2198. 6</b>	0.831
14.	Shahzad Q, Imran M, <b>Khan H</b> , Wadood AA, Khan MA, Binyameen M, Niazi AA. Serum concentration of calcium, inorganic phosphorous and magnesium in cyclic, non cyclic and repeat breeder buffaloes. <b>Buffalo Bulletin 2016; 35: 73-76.</b>	0.110
15.	<b>Khan H</b> , Khan M, Qureshi MS, Ahmad S, Gohar A, Ullah H, Ullah F, Hussain A, Khatri P, Shah SSA, Rehman H and Khan A. 2017. Effect of green tea extract (Camellia sinensis) on fertility indicators of post-thawed bull spermatozoa. <b>Pakistan Journal of Zoology 49(4): 1243-1249</b>	0.831
16.	Shah S.S.A, Muhammad I.K., <b>Khan H</b> , Saddique U 2018. TBD's Exploiting The Black Gold (Buffalo) of Pakistan <b>Buffalo Bulletin Vol.37 No.4;569-576</b>	0.110
17.	Iqbal, N., Khan, M.T., Amanullah, H. Din I., <b>Khan H</b> ., Shah H., Ahmad M.. Effect of feeding different levels of discarded date palm ( <i>Phoenix dactylifera</i> ) on digestibility, milk yield, and composition in Damani sheep. <b>Tropical Animal Health and Production 51, 2181–2186 (2019). <a href="https://doi.org/10.1007/s11250-019-01919-w">https://doi.org/10.1007/s11250-019-01919-w</a></b>	1.333
18.	Khan D, <b>Khan H</b> , Ahmad N, Tunio MT, Tahir M, Khan MS, et al. Early pregnancy diagnosis using pregnancy-associated glycoprotein in the serum of pregnant ruminants. <b>Pakistan Journal of Zoology. 2020;52(2):785-788.</b>	0.831
19.	Hussain SM, Herling VR, Rodrigues PHM, Naz I, <b>Khan H</b> , Khan MT. Mini review on photosensitization by plants in grazing herbivores. <b>Tropical Animal Health and Production. 2018;36: 1–11. pmid:29623517 <a href="#">View Article PubMed/NCBI Google Scholar</a></b> Cited 10	1.333
20.	<b>Khan H</b> , Kusakabe KT, Wakitani S, Hiyama M, Takeshita A, Kiso Y 2012. Expression and Localization of NO Synthase Isoenzymes (iNOS and eNOS) in Development of the Rabbit Placenta., <b>Journal of Reproduction and Development Vol. 58( 2), 231-236</b>	1.735
21.	Aamir ZU, <b>Khan H</b> , Wahab S, Tunio MT, Amanullah H, Aimen O, Khan SM and Shah K. 2019 Chromatographic appraisal of fatty acid profile in camel's milk at different Temperatures <b>Pure and Applied Biology Vol. 8, Issue 2, pp1069 -1076</b>	
22.	Hayashi K ,Kusakabe KT, <b>Khan H</b> , Kuniyoshi N, AiTakeshita, Hiyama M, Kano K, Kiso Y Characteristic patterns of maternal and fetal arterial construction in the rabbit placenta. <b>Medical Molecular Morphology 2014. 47, pp.76-82</b>	2.429
23.	Spacing of the Embryo in the Uterus is Disrupted by the Supi Position of the Body During the Peri-implantation Period in Mic Sugiyama M, Terakawa J, <b>Khan H</b> , Wakitani S, Choi EK, Kiso Hondo E. <b>Journal of Reproduction and Development 2010. 56 (2010), pp. 191-194</b>	1.735
24.	Quantitative Expression and immunohistochemical Detection Glucose Transporters, GLUT1 and GLUT3 in the Rabbit Placenta during Successful Pregnancy. <b>Khan H</b> ,	1.049

	<a href="#">Kusakabe KT</a> , <a href="#">Wakitani Hiyama M</a> , <a href="#">Kiso Y</a> <b>Journal of Veterinary Medical Science 2011</b>	
25.	Bisphenol-A (BPA) Affects Reproductive Formation acroGenerations in Mice. Hiyama M, <a href="#">Choi EK</a> , <a href="#">Wakitani S</a> , <a href="#">Tachibana Khan H</a> , <a href="#">Kusakabe KT</a> , <a href="#">Kiso Y</a> <b>Journal of Veterinary Medical Science 2011(9)1211-1215</b>	1.049
26.	Differentiation of uterine natural killer cells in the pregnant, <i>SCI(scid/scid)</i> mice. Hiyama M, <a href="#">Kusakabe KT</a> , <a href="#">Kuwahara A</a> , <a href="#">Wakitani Khan H</a> , and <a href="#">Kiso Y</a> <b>Journal of Veterinary Medical Science 2011.</b>	1.049
27.	Shah, MK, <a href="#">Sadique, U</a> , <a href="#">Ahmad S</a> , <a href="#">Qureshi S</a> , <a href="#">Rahman S U</a> , <a href="#">Hassan Z U</a> , <a href="#">Khan MA</a> , <a href="#">Ali T</a> , <a href="#">Anwar F</a> , <a href="#">Khan, H</a> and <a href="#">Khan H</a> . Molecular identification and comparative antimycoplasmal activity of three indigenous medicinal plants against mycoplasma putrefaciens isolated from sheep. <b>Journal of Animal and Plant Science ., 27: 5</b>	0.481
28.	Shahzad, Q.; <a href="#">Mehmood, M.U.</a> ; <a href="#">Khan, H.</a> ; <a href="#">ul Husna, A.</a> ; <a href="#">Qadeer, S.</a> ; <a href="#">Azam, A.</a> ; <a href="#">Naseer, Z.</a> ; <a href="#">Ahmad, E.</a> ; <a href="#">Safdar, M.</a> ; <a href="#">Ahmad, M.</a> Royal jelly supplementation in semen extender enhances post-thaw quality and fertility of Nili-Ravi buffalo bull sperm. <b>Animal Reproduction Science 2016, 167, 83–88.</b> [CrossRef] [PubMed]	1.660
29.	<a href="#">Wahab, A.</a> , <a href="#">Khan H.</a> , <a href="#">Ahmad S.</a> , <a href="#">Qureshi, M.S.</a> , , <a href="#">Younas M.</a> , <a href="#">Khan, S.</a> , <a href="#">Sadique, U</a> and <a href="#">Shah, M.K.</a> , 2016. Biochemical profile of local rabbits ( <i>Oryctolagus cuniculus</i> ) during successful pregnancy under backyard production system. <b>Pakistan Journal Zoology., 48: 625-630.</b>	0.831
30.	<a href="#">Sarwar, MS</a> ; <a href="#">Kalhor, AB</a> ; <a href="#">Khan, H</a> ; <a href="#">Kausarzeb</a> ; <a href="#">Shaukat H</a> ; <a href="#">Tariq A</a> ; <a href="#">Jan, S A</a> , <a href="#">Sardar A</a> ; <a href="#">Tariq K</a> Sedative and Analgesic Effects of Xylazine in Rabbits_ <b>Pakistan Journal of Zoology. 2014, Vol. 46 Issue 5, p1461-1464. 4p.</b>	0.831
31.	<a href="#">Khan, H.</a> , <a href="#">Rind, M.M.</a> , <a href="#">Mehmood, M.U.</a> , <a href="#">Shahzad, Q.</a> , <a href="#">Gohar, A.</a> , <a href="#">Alam, M.</a> , <a href="#">Ali, Q.</a> and <a href="#">Kumbar, H.K.</a> , 2014. Biometric Assessment of the Testis in Pakistani Adult Male Goats ( <i>Capra hircus</i> ). <b>Pakistan Journal of Zoology 46:880-884</b>	0.831
32.	<a href="#">Sultan, A.</a> , <a href="#">R. Ullah, S.</a> <a href="#">Khan, M. T. Khan, Khan H</a> and <a href="#">I. U. Zaman</a> (2014). Nutrient digestibility values and apparent metabolizable energy of corn, wheat and sorghum by pheasants ( <i>Phasianus colchicus</i> ). <b>Pakistan Veterinary Journal ., 34: 479- 483.</b>	1.175
33.	<a href="#">Shah, M.K.</a> , <a href="#">Saddique, U.</a> , <a href="#">Ahmad, S.</a> , <a href="#">Iqbal, A.</a> , <a href="#">Ali, A.</a> , <a href="#">Shahzad, W.</a> , <a href="#">Khan, M.S.</a> , <a href="#">Khan, H.</a> , <a href="#">Rehman, H.U.</a> , <a href="#">Shah, S.S.A.</a> & <a href="#">Israr, M.</a> (2017). Molecular characterization of local isolates of <i>Mycoplasma capricolum</i> subspecies <i>capripneumoniae</i> in goats ( <i>Capra hircus</i> ) of Khyber Pakhtunkhwa, Pakistan. <b>Pakistan Veterinary Journal 37(1): 90-94.</b>	1.175
34.	<a href="#">Sultan, A.</a> , <a href="#">Uddin, I.</a> , <a href="#">Khan, S.</a> , <a href="#">Ullah, R.</a> , <a href="#">Khan, H.</a> , <a href="#">Khan, N. A.</a> , & <a href="#">Khan, R. U.</a> (2015). Effect of yeast derived carbohydrate fraction on growth performance, apparent metabolizable energy, mineral retention and gut histomorphology of broilers during starter phase. <b>Pakistan Veterinary Journal, 35(4), 409-413.</b>	1.175
35.	<a href="#">Adnan M</a> , <a href="#">Khan H</a> , <a href="#">Kashif J</a> , et al., 2017. Clonal Expansion of Sulfonamide Resistant <i>Escherichia coli</i> isolates Recovered from Diarrheic Calves. <b>Pakistan Veterinary Journal 37:230-2.</b>	1.175
36.	<a href="#">Khan H</a> , <a href="#">Rind M.M.</a> , <a href="#">Gohar A</a> , <a href="#">Khan N</a> , <a href="#">Sarwar M.S</a> , <a href="#">Shah M.K</a> , <a href="#">Ali A.A.</a> A study on vas deference and seminal vesicle of male goats ( <i>Capra hircus</i> ) <b>Acta Scientiae Veterinariae, 2015. 43::1294.</b> [Google Scholar]	0.321

37.	Khan, I, Qureshi, MS, Ahmad S, Akhtar S. And <b>Khan h.</b> 2016. Effect of Lactation and Breed on Reproductive Cyclicity Under Various States of Oxidative Stress in Dairy Cattle Breeds. <b>Pakistan Journal of zoology</b> , <b>48(5): 1431–1441.</b>	0.831
38.	Effects of medetomidine on serum glucose in cattle calves. Tariq M, Kalhoro AB, Sarwar MS, <b>Khan H.</b> Ahmad S, Hassan SM, Zahoor A. <b>Pakistan Journal of Pharmaceutical Science 2016 ;29(3):941-944.</b>	0.562
39.	Relationship of Age, Breed and Libido with Semen Traits of Cattle Bulls H. Rehman, I.A. Alhidary, R.U. Khan, M.S. Qureshi, U.Sadique, <b>H. Khan</b> , and S.H. Yaqoob <b>Pakistan Journal of Zoology volume 48 issue 6 Page:1793-1798 2016</b>	0.831
40.	Assessment of Alpha Lipoic Acid Inclusion in Semen Extender on Cryopreservation of Nili-Ravi Buffalo Bull Spermatozoa. Gohar A, <b>Khan H</b> , Yousaf M S, Ahmad J, Ali Q, Khan M, Khan D, Hayat Y, Ali F, Ahmad I, Saleem M, Ullah F 2014. 11(9s),pp45-50 <b>Life Science indexed in ISI and Scopus</b>	Indexed in ISI and Scopus
41.	Study on quality and efficacy of commercial tylosin and doxycycline products against local isolates of mycoplasma in broilers. Riazuddin , Khan S, Imtiaz N, Aslam S, Ahmad S, Khan H, Rabbani M, Muhammad J, Tanveer ZI, Ali S. <b>Pakistan Journal of Pharmaceutical Science</b> 2017 Mar; 30(2):541-549	0.562
42.	Effect of L-ascorbic acid on Nili Ravi buffalo oocytes during In Vitro Maturation. Ullah I, Jalali S, <b>Khan H</b> , Shami SA, Kiyani MM 2006. <b>Pakistan Journal of Biological Science</b>	Y category HRJS
43.	Sarwar MS, Ali A, Usman T, Khan UN , <b>Khan. H.</b> Khan I, Ali M, Rabbani F A study on immunological response of leukocytes to ticks in cattle reared in sub-tropical region of Khyber Pakhtunkhwa Pakistan. <b>Pure and Applied Biology 2019 Vol.8 No.2 pp.1655-1660 ref.19</b>	
44.	Use of Schaeffer's Formula for the prediction of Body weight of slaughtering Cattle. <b>Khan H</b> , MM Rind, R Ahmad, N Ahmad and G Shah 2003 <a href="#">Journal of Animal And Veterinary advances</a> , 2(3):176-178	
45.	Gross anatomical study on Normal Kidneys of Adult Goat. <b>Khan H</b> , MM Rind, R Ahmad, N Ahmad and G Shah 2003 <a href="#">Journal of Animal And Veterinary advances</a> 2(9):539-541	
46.	Biometrical study on Normal spleen of Cattle. <b>Khan H</b> , M Pardehi, R Rind and MM Rind 2003. <a href="#">Journal of Animal And Veterinary advances</a> , 2(2):92-94	
47.	Study on Testicular Dimensions and Size in Male Buffalo. <b>Khan H</b> , N Ahmed(Sr.), S Khan, R Ahmed; M M Rind 2003. <a href="#">Journal of Animal And Veterinary advances</a> 2(11):639-643.	
48.	Garlic (Allium Sativum) Modulated Serum Cholesterol Level, Improved Immune Status And Carcass Yield Of Broilers. S. Khan, A. Sultan, N. Chand, Rafiullah, M. S. Qureshi MS, Tanweer AJ, Akhtar A, Tauqeer AM and <b>Khan H</b> .vol 66(2):171-174, 2014 <b>Pakistan Journal of Science</b>	
49.	Culminating the Influence of Heat Stress in Broilers by Supplementing Zinc and Vitamin C. Naila Imtiaz, Asad sultan, Sarzamin Khan, Ajab Khan and <b>Hamayun Khan</b> 2014. <b>World Applied Science Journal ;30(8):1064-1069</b>	



50.	Humoral Immune response to Newcastle disease vaccine (Lastoa strain) in broilers. Shuaib M, <b>Khan H</b> , Sajid-ur-Rehman, Ashfaq M 2006. <b>International Journal of Poultry Science 5(5): 411-414</b>	
51.	RIND MM, KHAN H, RIND B, ALAM M, MEMON IA (2006). Biometrical observations on bovine epididymis. J Anim Vet Adv, 5: 376-379.	
52.	Ali, A., Sarzamin, Khan S., Mobashar, M., Inam, M., Ahmed, I., Khan, N.A., Ali, M., <b>Khan, H</b> . 2013. Effect of different levels of organic acids supplementation on feed intake, milk yield and milk composition of dairy cows during thermal stress. <b>Greener J. Agri. Sci. Vol. 3 (11). 762-768.</b>	
53.	Khan N, M.Khan, S. Naz, H.Khan, S.Khan and M.H. Khan 2017. “Effects of Zarai Taraqiati Bank Limited Credit Program on Buffalo Production in Rural Areas of Distract Mardan , Pakistan”. Journal of Poverty, Investment and Development www.iiste.org ISSN 2422-846X An International Peer-reviewed Journal Vol.32. Pages 59-64	Indexed in ISI and Scopus
54.	Ali F, Khan H, Ahmed S, Khan MA, Raza MH, Abuakar M, Khan NA, Mahmood ZU, Khan N and Sadeeq ur Rahman. Nomad-Animals Are Associated With Exposure To Emerging Diseases Pathogens. Life Sci J 2016;13(9):84-89]. ISSN: 1097-8135 (Print) / ISSN: 2372-613X (Online). <a href="http://www.lifesciencesite.com">http://www.lifesciencesite.com</a> . 9. doi:10.7537/marslsj130916.09.	Indexed in ISI and Scopus

## Extension and outreach Activities:

- Attended the ILDP Congress in Awan Iqbal in Lahore.
- Subject Specialist in Khyber Pakhtunkhawa **Public Service Commission** for interview of Veterinary/ Research Officer BPS-17.
- Agriculture Training Institutes (ATI) was assisted as paper setter, checker and conduct the practical in the subject of Introduction to Veterinary Anatomy for diploma in Veterinary Science three year course.
- Attended seminar on **Future Strategies to improve Buffalo Reproduction**, held in Buffalo Research Institute, Pattoki held dated April 16, 2014.
- **Editorial Board Membership:** i) Editorial board member of the International Journal of Agricultural Policy and Research.
- Actively involved in outreach activities by providing and coordinating the short training Programme for community based progressive farmers, women, etc. As co-coordinator successfully completed one year diploma course on livestock manager in the **Short term skill development under Prime Minister Hunarmand Pakistan programme.**
- **Resource Person** in 6 week capacity building training in **Artificial Insemination** for Veterinarian and Para-veterinary staff of Khyber Pakhtunkhawa **sponsored by ASF and funded by US-AID.**

- Performed duty as **coordinator for guidance and supervision** in Study and exposure visit of M.Phil students of University of Peshawar, University of Agriculture Peshawar, Baluchistan University Quetta to NVL Islamabad, UVAS Lahore and University of Agriculture Faisalabad duly sponsored by Relief International Decmber1-6, 2013
- Attended One day consultative workshop on reversion / updating and inclusion of zoonotic diseases in training curricula of Ahiti” Organized by LDD (Extension) Khyber Pakhtunkhwa In collaboration with Relief International- Pakistan held at FAHVS, University of Agriculture Peshawar dated August 28,2013
- Resource person in **Pakistan Forest Institute** dated Oct 8, 2015 for lecture on Use of Medicinal Plants in Animal Reproduction
- **Resource person and organizer** for workshop on urea molasses block for the progressive dairy farmers in SWABI district duly sponsored by Directorate of Science and Technology (DOST) in collaboration with Department of Animal Nutrition, university of Agriculture.

### **Book Publication:**

<b>No.</b>	<b>Title</b>	<b>Publishing company</b>
<b>1.</b>	Assessment of NOS and GLUTS in development of the rabbit placenta ISBN 978-3-8484-8799-8	LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8 66121, Saarbrücken, Germany
<b>2.</b>	Gross Morphometry of Male Reproductive Organs of Local Adult Goats ISBN978-3659662638	LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8 66121, Saarbrücken, Germany- publishing year 2014

### **Abstract published in proceeding of National and/ or International Conferences:**

- 1.** Ahsan Ul HAQ, Qaisar SHAHZAD, Sajid IQBAL, Hina TAHİR, Burhan E AZAM, **Hamayun KHAN**.Effects of Manganese Chloride on Semen Quality of Nili-Ravi Buffalo Bull Asian buffalo congress Istanbul Turkey to be held on 21-25 ,April 2015
- 2.** Qaisar SHAHZAD, Amjad RIAZ, Maqsood AKHTAR, Burhan E AZAM, Muhammad Usman MEHMOOD, Ahsan Ul HAQ, **Hamayun KHAN**.Antral Follicular Count (Afc): A Reliable Tool To Assess Reproductive Potential In Nili-Ravi Buffalo Asian buffalo congress

Istanbul Turkey held in 21-25 ,April 2015

3. Sanan Raza, **Humayun Khan**, Muhammad Younus, Ahmad Yar Qamar, Tariq Abbas, Mujahid Zafar. Comparative assessment of hCG with Estrogen in increasing pregnancy rate in mixed parity buffaloes. International Science Index Vol:2, No:4, 2015 waset.org/abstracts/23361
4. Zakirullah, **Hamayun Khan**, Muhammad Subhan Qureshi, Muhammad Younas, Ali Gohar, Rifat Ullah Khan, Shuaib Sultan Afridi ,Hamid Rehman ,Umar Saddique, Ibrar Muhammad Khan, Adnan Khan Cysteine supplementation Enhanced Post-thaw quality of Spermatozoa in Achai and Holstein Fresian bulls” J.Vet.Anim.Sci.Vol.5 (suppl.1); Pp16
5. Ibrar Muhammad Khan, Muhammad Subhan Qureshi, Rifat Ullah Khan, Umar Saddique, Adnan Khan, Syed Murtaza Hussan Andrabi, Ali Gohar, Muhammad Younas, **Hamayun Khan**, Hamid Rehman and Zakirullah Cross Breeding Promotes Deterioration of Semen Quality in Cattle” .J.Vet.Anim.Sci.Vol.5 (suppl.1); Pp20
6. Abdul Ghaffar Khan<sup>1</sup>, Muhammad Subhan Qureshi, **Hamayun Khan**, Muhammad Younas, Ali Gohar, Sohail Akhtar ,Rifat Ullah Khan, Hamid Rehman, Umar Saddique Testicular Biometry, Scrotal Circumference, Serum Testosterone And Semen Characteristics In Jersey And Achai Bulls J.Vet.Anim.Sci.Vol.5 (suppl.1); Pp26
7. Adnan Khan, Muhammad Subhan Qureshi, Rifat Ullah Khan, Umar Saddique, Ibrar Muhammad Khan, Syed Murtaza Hussan Andrabi, Ali Gohar, Muhammad Younas, **Hamayun Khan**, Hamed Rehman and Zakirullah Effects of Different Equilibration Times on Cell Membrane and DNA Integrity of Sperm after Cryo-preservation in Cattle” J.Vet.Anim.Sci.Vol.5 (suppl.1); Pp19
8. Hamed Rehman, Muhammad Subhan Qureshi, Rifat Ullah Khan, Umar Saddique, Adnan Khan, Ali Gohar, Muhammad Younas, **Hamayun Khan**, Ibrar Muhammad Khan and Zakirullah Relationship of Age, Breed and Libido with Semen Traits of Cattle Bulls” J.Vet.Anim.Sci.Vol.5 (suppl.1); Pp20
9. **Hamayun Khan**, Abdul Wahab, Muhammad Subhan Qureshi, Shakoor Ahmad, Muhammad Younas and Sir Zamin Khan Studies on the Selected Biochemical Indicators of the Amniotic Fluid in local Rabbits during Successful Pregnancy, the Proceeding of the international conference on agriculture, food and animal science held in Sind Agriculture University TandoJam on 25-26 February 2015. page 49

10. Abdul Wahab, **Hamayun Khan**, Muhammad Subhan Qureshi, Muhammad Younas and Sir Zamin Khan Pregnancy related changes in gross morphometry of the Placenta and Developing Fetus in local Rabbits the proceeding of the international conference on agriculture, food and animal science held in Sind Agriculture University TandoJam on 25-26 February 2015.Pp51
11. **Hamayun Khan** Assessment of glucose transporters in development of the mammalian placenta using Rabbit as Animal model during successful pregnancy. Proceeding of International Conference on Advances in Parasitology and Public health (ICAPPH-2014) College of Veterinary and animal science, Jhang on October 22-23, 2014.
12. Ahmad S., T.Nazir, R.Kayali and **H.Khan** In Vitro quality assessment of commercially available brands of diclofenac Sodium tablets Proceeding of the 2<sup>nd</sup> international workshop on Dairy science Park held in the university of agriculture Peshawar November18-20,2013 Pp169 abstract no EQE-12
13. A.Sultan,S.Khan,A.Khan,,N.Imtiaz,M.S.Khan,Rafiullah and **H.Khan** supplementation of Zinc and Vitamin C in heat stressed broilers. Proceeding of the 2nd international workshop on Dairy science Park held in the University of agriculture Peshawar November18-20,2013 Pp169 abstract no PS-33
14. Asar Ali shah,Rifatullahkhan, Muhammad Saleem khan, Sirzamin Khan,Nazirahmad and **Hamayun** effect of different levels of vitamin E on the performance traits,serum antioxidant enzymes and trace minerals in Japanese quail (CoturnixcoturnixJapanica) Proceeding of the 2nd international workshop on Dairy science Park held in the university of agriculture Peshawar November18-20,2013 Pp142 abstract no PS-4
15. S.Khan, M.Inam, A.Sultan, M.S.Qureshi,N.imtaiz,**H.Khan** and Rafiullah Semen quality of local and exotic roosters (Gallus Gallus Domesticus) during extremes of summers supplemented with ascorbic acid and electrolytes (Ec-Cool) Proceeding of the 2nd international workshop on Dairy science Park held in the university of agriculture Peshawar November18-20,2013 Pp140 abstract no PS-2
16. Yasir Hayat Sher, IllahiBuxKalhoru, **Hamayun Khan**, Ghiasuddin Shah,Abdul Latif Bhutto, and Muhammad Misri RindBiometric Observations on the normal lymph Nodes and Spleen of

Barbari Goat. Proceeding of the 2nd international workshop on Dairy science Park held in the university of agriculture Peshawar November 18-20, 2013 Pp68 abstract no AH-45

- 17.** Yasir Hayat Sher, Illahi Bux Kalhoro, **Hamayun Khan**, Ghiasuddin Shah, Abdul Latif Bhutto, and Muhammad Misri Rind Micrometrical Assessment of the Normal Lymph Nodes and Spleen of Barbari Goat. Proceeding of the 2nd international workshop on Dairy science Park held in the university of agriculture Peshawar November 18-20, 2013 Pp68 abstract no AH-46
- 18.** Khan H, Miyandad P, MM Rind and Rind R 2006. Gross Anatomical Study on Spleen in Cattle (*Bos indicus*). 3<sup>rd</sup> National conference on Agriculture and Animal Sciences, Sindh Agriculture University TandoJam, Pakistan Nov 21-23 Pp24
- 19.** Khan H., Fayed M, Hondo E, and Kiso Y 2009. Comparative Histology of Epitheliochorial Placenta in the Horse, Pig and Camel. 3<sup>rd</sup> congress of the Asian Association of Veterinary Anatomist (AAVAIII2009) Chungbuk National University Cheongju, South Korea Nov 4-6 Pp81.
- 20.** Khan H and Kiso Y 2010. Quantitative Expression of Glucose Transporter genes, GLUT1 and GLUT3 in the Rabbit Placenta. Veterinary Science Seminar, Yamaguchi University, Japan Aug 25-28 Pp 17
- 21.** Terai K, Khan H and Kiso Y 2010. Morphological aspects of the fetal blood supply in the Rabbit Placenta. 150<sup>th</sup> meeting of the Japanese Society of Veterinary Science, Obihiro University Hokkaido, Japan Sept 16-18 Pp156
- 22.** Khan H, Kusakabe KT, Kiso Y 2011. Assessment of NO synthase isoenzymes (eNOS and iNOS) in the rabbit placenta during successful pregnancy. 152<sup>th</sup> meeting of the Japanese Society of Veterinary Science, Osaka Prefecture University Osaka, Japan Sept 20-23 Pp166

### **Courses and Training Received:**

- **Staff Development Course:** National Academy of Higher Education (2007, 26 days)
- **Dairy Training on Milk Processing:** Under the project “Induction of Nili-Ravi & Azakhaili Buffaloes and Achai Cattle” at Livestock Research & Development Station Surezai, Peshawar (2005, 05days)
- **Fodder & Forages: Under the project “Improvement & Development of Fodder and Forages in N.W.F.P,** Directorate of Livestock Research and Development Peshawar (2005, 06 days)
- **Livestock Production in Barani Areas:** Barani Livestock Production Research Institute Khari-Murate District Attock (2005, 04 days)
- **Histological & Histochemical Techniques:** Department of Veterinary Anatomy, University of Agriculture, Faisalabad, Pakistan (2002, 10days)
- **Methodology of Diseases Diagnosis:** Central Veterinary Diagnosis Laboratory TandoJam (2002, 32 days)

### **Teaching:**

I am actively involved in the dissemination of Veterinary Knowledge to undergraduate and postgraduate students at the Faculty of Animal Husbandry and Veterinary Sciences. Recent subjects taught after successful completion of PhD from Japan are listed below (from March 2012 till date ).

1.	General and Systemic Anatomy 4(1-3)	DVM 1 <sup>st</sup> students
2.	Systemic Veterinary Histology 3(1-2)	DVM 1 <sup>st</sup> students
3.	Meat Hygiene and Public Health 2(1-1)	DVM 4 <sup>th</sup> year students

4.	Comparative Anatomy 4(1-3)	DVM 1 <sup>st</sup> students
5.	Introduction to Reproductive Biotechnology 2(2-0)	DVM 4 <sup>th</sup> year students
6.	Equine Reproduction 3(2-1)	M.Phil and PhD Theriogenology students
7.	Comparative Reproduction 3(2-1)	M.Phil Theriogenology students
8.	Infertility and Genital Diseases 3(2-1)	PhD Theriogenology students
9.	Artificial insemination 3(2-1)	M.Phil and PhD Theriogenology students

### **Administrative Experiences:**

- Currently working as Staff Proctor in Department of Animal Health, The University of Agriculture, Peshawar Khyber Pakhtunkhawa since 2014 till date.
- Have worked as care taker of the Department of Animal health routine activates in the absentia of the Chairman Department of Animal Health, The University of Agriculture, Peshawar, Khyber Pakhtunkhawa.
- Have worked as a resident warden of Hostel 6 since March 2014 till April,2015.
- Have worked as member of tour committee of The University of Agriculture Peshawar, Khyber Pakhtunkhawa like Tour Committee.
- Have worked as senior member of Scrutiny and Quantification Committee of Department of Animal Health, The University of Agriculture, Peshawar.
- Have worked as Co-opted Member of the Board of Studies of Department of Animal Health, The University of Agriculture, Peshawar.
- Have been worked as Co-opted Member of the Board of Studies of Faculty of Animal Husbandry and Veterinary Sciences, The University of Agriculture, Peshawar.
- Have been working as Member of the scrutiny and quantification committee of Faculty of Animal Husbandry and Veterinary Sciences The University of Agriculture, Peshawar.
- Have been working as member of the editorial board of the **International Journal of Agricultural Policy and Research.**
- Currently working as member of ethical committee of the Department of Pharmacy, University of Peshawar

- Assisted the Secrecy or examination section of the University by conducting the supervisory duty in the undergraduate examinations. Rechecking/ retotaling of Paper in secrecy.
- Assisted Directorate of Advance studies and research; assistance was provided by evaluation of M.Phil/M.SC (Hons) Thesis seminars. Also representing DASR in board of study of Department of Livestock Management and Department of Animal Nutrition.
- NTS MCQs were prepared in the subject of Animal Reproduction for entry test in M.Phil / PhD
- Worked as Member of the auction committee of animals at University Dairy Farm.
- Assisted the directorate of teaching by preparation of timetable for DVM students
- Member of the assessment team for internal assessment and evaluation of degree programme offered by the Department of Animal Nutrition, the University of Agriculture Peshawar.
- Coordinated field visit of the 26 LHV students of the Public Health School, Hayatabad Peshawar on 18-03-2015
- Subject Specialist/ expert in Khyber Pakhtunkhwa Public Service Commission for interview of recruitment of Veterinary/ Research Officer BPS-17.
- Agriculture Training Institutes (ATI) was assisted as paper setter, checker and conduct the practical in the subject of Veterinary Anatomy.
- Student affair coordinator or Section head of the post graduate M.Phil degree programme in Theriogenology of the Department of Animal Health. Preparation of time table for M.Phil/ PhD students.
- Editorial Board Membership: i) Editorial board member of the International Journal of Agricultural Policy and Research.
- Celebrated world Veterinary day in the University
- Celebrated world Rabies day in the University
- Attended One-Day Symposium on Irradiation as Sanitary and Phytosanitary Treatment of Medicinal Herbs/Plants on October 29,2015, held at Nuclear Institute of Food and Agriculture (NIFA), Tarnab, Peshawar

### **Achievements/Awards:**

- Obtained **Silver medal** in M.Sc (Hons) from Sindh Agriculture University TandoJam
- Obtained Overseas PhD fellowship (Japan) from HEC of Pakistan under Faculty Development



- Have supervised two M.Phil students for their thesis/research as major supervisor in the subject of Animal reproduction.
- Have supervised about 10 DVM students for their internship program/report.
- Have supervised one student for his special problem for award of M.Sc(Hons) degree.
- Keynote oral speaker in International Conference on Advances in Parasitology and Public health (ICAPPH-2014) held College of Veterinary and animal science, Jhang on October 22-23, 2014.
- Presented Paper in 3rd National conference on Agriculture and Animal Sciences, Sindh Agriculture University TandoJam, Pakistan Nov 21-23 Pp24
- Presented Paper in 3rd congress of the **Asian Association of Veterinary Anatomist (AAVAIII2009)** Chungbuk National University Cheongju, South Korea Nov4-6 Pp81.
- Part-Time Teaching Assistant in the Laboratory of Veterinary Anatomy, Yamaguchi University, was helping the graduate students in Anatomy Practical Demonstration Classes.
- Part-Time Research Assistant in the Laboratory of Veterinary Anatomy Yamaguchi University, was helping the graduate students in Histological and Immunohistochemical researches.
- Presented paper in Veterinary Science Seminar, Yamaguchi University, Japan
- Presented paper in 152th meeting of the Japanese Society of Veterinary Science, Osaka Prefecture University Osaka, Japan Sept 20-23 2011.
- Attended seminar on Future Strategies to improve Buffalo Reproduction, held in Buffalo Research Institute, Pattoki held on April 16, 2014.
- Letter of appreciation by the worthy Vice Chancellor at the occasion of the Silver Jubilee Celebrations of the University, held on February 3 and 4, 2006.
- International Poultry Congress, Lahore, Pakistan Sep 27-28, 2002
- 33<sup>rd</sup> All Pakistan Science Conference, University of Agriculture, Faisalabad Dec25-28 2002
- Attended Veterinary Science Seminar held in Miyazaki University Japan July 1-4 2008
- Attended Veterinary Science Seminar held in Kagoshima University Japan July 1-4 2009
- Resource Person in 6 week capacity building training in Artificial Insemination for Veterinarian and Para-veterinary staff of Khyber Pakhtunkhawa sponsored by ASF and funded by US-AID.

- Actively involved in outreach activities by providing and coordinating the short training Programme for community based progressive farmers, women, etc. As co-coordinator successfully completed one year diploma course on livestock manager in the Short term skill development under Prime Minister Hunarmand Pakistan programme .
- Resource Person in 6 week capacity building training in Artificial Insemination for Veterinarian and Para-veterinary staff of Khyber Pakhtunkhawa sponsored by ASF and funded by US-AID.