

S. No.	Author (S)	Year of Publication	Title of Article	Name of Journal	Page numbers
1.	R. Ishaq, M. S. Ansari, Bushra Allah Rakha , S. Qadeer, S. Akhter	2019	Enrofloxacin for Use in Cryopreservation of Zebu Bull (<i>Bos indicus</i>) Semen	Biobanking and Biopreservation	DOI: 10.1089/bio.2018.0133
2.	M.S. Ansari, Bushra Allah Rakha , S. Akhter, E. Blesbois, S.	2019	Effect of cryopreservation on lipid peroxidation, antioxidant potential, chromatin integrity and mitochondrial activity of Indian red Jungle fowl (<i>Gallus gallus murghi</i>) semen	Biobanking and Biopreservation	DOI: 10.1089/bio.2018.0111
3.	Bushra Allah Rakha , Ansari, M.S. and Blesbois, E.	2018	Cryoprotective effect of glycerol concentrations on Indian Red Jungle Fowl (<i>Gallus gallus murghi</i>) spermatozoa	Avian Biology Research.	11: 80-88
4.	Bushra Allah Rakha , Ansari, M.S., S. Akhter, S. Moreno, E. Blesbois	2018	<u>Use of dimethylsulfoxide for semen cryopreservation in Indian red jungle fowl (<i>Gallus gallus murghi</i>)</u>	Theriogenology	112:61-67
5.	Bushra Allah Rakha , Ansari, M.S., S. Akhter, S. Moreno, E. Blesbois	2018	Cryoprotectant effects of egg yolk on Indian red jungle fowl (<i>Gallus gallus murghi</i>) sperm	Theriogenology	119:150-155
6.	Awan, M.A., Akhter, S., Husna, A.U., Ansari, M.S., Bushra Allah Rakha , Azam, A. and Qadeer, S	2018	Antioxidant activity of Nigella sativa Seeds Aqueous Extract and its use for cryopreservation of buffalo spermatozoa	Andrologia	50: e13020
7.	S. Akhter, Ansari, M.S, Bushra Allah Rakha , S. Iqbal	2018	Evaluation of pigeon egg yolk for post thaw quality, enzyme leakage and fertility of buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Theriogenology	119:137-142
8.	S. Akhter, M. S. Ansari, Bushra Allah Rakha , A. U. Husna, S. Iqbal and M. Khalid	2017	Evaluation of quail and turkey egg yolk for cryopreservation of Nili-Ravi buffalo bull semen	Theriogenology	87: 259-269
9.	Bushra Allah Rakha , M. S. Ansari, I. Hussain, M. Anwar, S Akhter, Syed Qasim Raza and E. Blesbois	2017	Cryopreservation of Indian red jungle fowl (<i>Gallus gallus murghi</i>) spermatozoa: a first approach	Avian Biology Research	10: 1-6
10.	S. Qadeer, M. A. Khan, M. S. Ansari, Bushra Allah Rakha , R. Ejaz, A. U. Husna, A. Azam, N. Ullah, V. K. Walker, S. Akhter	2017	Cryopreservation of Nili-Ravi buffalo bull sperm in cryodiluent supplemented with <i>Lolim Perenne</i> Protein preparations	Cryoletters	(38): 43-50
11.	AU, Husna, M. A. Awan, A. Mehmood, T. Sultana, Q. Shahzad, M. S. Ansari, Bushra Allah Rakha , S. M. S. Naqvi, S. Akhter	2017	Sperm sexing in Nili-Ravi buffalo through modified swim up: validation using SYBR [®] green real-time PCR	Animal Reproduction Science	(82):69-76
12.	Bushra Allah Rakha , M.	2017	Effect of season and age on	Theriogenology	(99): 105-

	S. Ansari, S. Akhter and E. Blesbois		Indian red jungle fowl (<i>Gallus gallus murghi</i>) semen characteristics: A 4-year retrospective study		110
13.	M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Akhter	2017	Cryopreservation of Nili-Ravi buffalo (<i>Bubalus bubalis</i>) semen in AndroMed® extender: in vitro and in vivo evaluation	Reproduction in Domestic Animals	52(6):992-997
14.	<u>Bushra Allah Rakha</u> , M. S. Ansari, S. Akhter, Z. Zafar, J. S. Moreno, E. Blesbois	2017	Cryopreservation of Indian red jungle fowl (<i>Gallus gallus murghi</i>) semen with polyvinylpyrrolidone	Cryobiology	(78):27-33
15.	R. Ejaz, M. S. Ansari, Ansari, <u>Bushra Allah Rakha</u> , S. Qadeer, AU Husna and S. Akhter	2017	Evaluation of alpha-linolenic acid for freezability and in vivo fertility of Nili-Ravi (<i>Bubalus bubalis</i>) buffalo semen	Theriogenology	(104):1-6
16.	<u>Bushra Allah Rakha</u> , M. S. Ansari, S. Akhter, Z. Zafar, A. Naseer, J. S. Moreno, E. Blesbois	2017	Dimethyleacetamide improves the cryosurvivability of Indian red jungle fowl (<i>Gallus gallus murghi</i>) sperm	Theriogenology.	103:83-89
17.	M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Akhter	2017	Cryopreservation of bull semen in OptiXcell® and conventional extenders: Comparison of semen quality and fertility	Animal Science Papers and Reports.	35(3):317-328
18.	M. S. Ansari, <u>Bushra Allah Rakha</u> , M.F. Malik, S. M. H. andrabi, N. Ullah, R. Iqbal., W. V. holt, and S Akhter	2016	Effect of cysteine addition to the freezing extender on the progressive motility, viability, plasma membrane and DNA integrity of Nili Ravi buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	J. Applied Anim. Res	(44):36-41
19.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S Akhter, M. Ashiq	2016	OPTIXcell® improves the post thaw quality and fertility of buffalo bull sperm	Theriogenology	(85):528-532
20.	<u>Bushra Allah Rakha</u> , M. S. Ansari, I. Hussain, M. Anwar, S Akhter and E. Blesbois	2016	Comparison of extenders for liquid storage of Indian red Jungle fowl (<i>Gallus gallus murghi</i>) spermatozoa	Avian Biology Research	9(3):207-212
21.	S. Qadeer, M.A. Khan, Q. Shahzad, A. Azam, M.S. Ansari, <u>Bushra Allah Rakha</u> , R. Ejaz, A.U. Husna, J.G. Duman, S. Akhter	2016	Efficiency of beetle (<i>Dendroides canadensis</i>) recombinant antifreeze protein for buffalo semen freezability and fertility	Theriogenology	86:1662-1669
22.	M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Akhter	2016	Effect of Thioglycol on fertility of frozen Nili-Ravi buffalo semen	Buffalo Bulletin	35(2):277-283
23.	R. Ejaz, M. S. Ansari, <u>Bushra Allah Rakha</u> , A. U. Husna, S. Qadeer, R. Iqbal, N. Ullah and S. Akhter	2016	Cholesterol supplementation in extender improves quality of frozen-thawed Nili-Ravi buffalo bull semen	Buffalo Bulletin	35(2):259-68

24.	S. Akhter, S. Qadeer, M. A. Khan, M. S. Ansari, B. A. Rakha	2016	Cryopreservation of Nili-Ravi buffalo bull sperm: The role of antifreeze glycoproteins (AFGPs)	Thai Veterinary Journal	46:91-94
25.	<u>Bushra Allah Rakha</u> , Muhammad Sajjad Ansari, S. Akhter, I. Hussain and E. Blesbois	2016	Cryopreservation of Indian red jungle fowl (<i>Gallus gallus murghi</i>) semen	Animal Reproduction Science	174:45-55
26.	U. Husna, R. Ejaz, S. Qadeer, A. Azam, <u>Bushra Allah Rakha</u> , M. S. Ansari, Q. Shahzad, M. Javed, M. H. Vazquez-Levin and S. Akhter	2016	A comparative analysis of sperm selection procedures prior to cryopreservation for Nili-Ravi buffalo (<i>Bubalis bubalis</i>) semen: Assessment of its impact on post-thaw sperm functional quality	Animal Reproduction Science	174:29-36
27.	Qadeer, S., M. A. Khan, M. S. Ansari, <u>Bushra Allah Rakha</u> , R. Ejaz, R. Iqbal, M. Younis, N. Ullah, Arthur L. DeVries and S Akhter	2015	Efficiency of Antifreeze Glycoproteins for Cryopreservation of Nili-Ravi (<i>Bubalus bubalis</i>) Buffalo Bull Sperm	Animal Reproduction Science	157:56-62
28.	<u>Bushra Allah Rakha</u> , M. S. Ansari, I. Hussain, M. F. Malik, S Akhter and E. Blesbois	2015	Semen characteristics of the Indian Red Jungle Fowl (<i>Gallus gallus murghi</i>)	Eur J Wildl Res	61:379–386
29.	<u>Bushra Allah Rakha</u> , M. S. Ansari, I. Hussain, M. F. Malik and S Akhter	2015	Impact of Ejaculate Frequencies on the Quality of Red Jungle Fowl (<i>Gallus gallus murghi</i>) Semen	Avian Biology Research	8 (2):1-4
30.	S. Qadeer, M. A. Khan, M. S. Ansari, <u>Bushra Allah Rakha</u> , R. Ejaz, A.U. Husna, M. Ashiq, R. Iqbal, N. Ullah and S. Akhter	2014	Evaluation of Antifreeze Protein III for Cryopreservation of Nili-Ravi (<i>Bubalus bubalis</i>) Buffalo Bull Sperm	Animal Reproduction Science	148:26-31
31.	R. Ejaz, M. S. Ansari, B.A. Rakha, N. Ullah, A. U. Husna, R. Iqbal and S. Akhter	2014	Arachidic acid in extender improves post-thaw parameters of cryopreserved Nili-Ravi buffalo bull semen	Reproduction in Domestic Animals	49:122-125
32.	Akhter, S, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, S. Qadeer, R. Iqbal, N. Ullah	2013	Efficiency of ciprofloxacin for bacterial control, post thaw quality and in vivo fertility of buffalo spermatozoa	Theriogenology	(80):378-383
33.	<u>Bushra Allah Rakha</u> , I. Hussain, S. Akhter, M. S. Ansari, N. Ullah and S.M.H. Andrabi	2013	Evaluation of tris-citric egg yolk, skim milk and egg yolk citrate extenders for the liquid storage Punjab urial (<i>Ovis vignei punjabiensis</i>) spermatozoa	Reproductive Biology	13:238–242
34.	S. Qadeer, A. Batool, K. Mehboob, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah, R. Iqbal, S. Akhter	2013	Comparison of traditional antibiotic streptomycin with neomycin, polymyxin B or Colistin in extender for buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Journal of Applied Animal Research	41:289-293

35.	S. Akhter, M. S. Ansari, S. M. H. Andrabi, <u>Bushra Allah Rakha</u> , N. Ullah, M. Khalid	2012	Soya-lecithin in extender improves the freezability and fertility of buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Reproduction in Domestic Animals	47:815-819
36.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. M.H. Andrabi, N.Ullah, R. Iqbal, W. V. Holt, S. Akhter	2012	Glutathione-supplemented tris-citric acid extender improves the post-thaw quality and in vivo fertility of buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Reproductive Biology	12:271-276
37.	Akhter, S., M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah and M. Khalid	2011	Effect of low density lipoprotein on freezability and fertility of buffalo (<i>Bubalus bubalis</i>) bull semen	Theriogenology	76(4):759-764
38.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. Akhter	2011	Effect of L-cysteine in extender on post-thaw quality of Sahiwal bull semen	Animal Science Papers and Reports,	29:197-203
39.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. M. H. Andrabi and S. Akhter	2011	Effect of straw size and thawing time on quality of cryopreserved buffalo (<i>Bubalus bubalis</i>) semen	Reproductive Biology	11:49-55
40.	Akhter, S., M. S. Ansari., <u>Bushra Allah Rakha</u> , N. Ullah, S. M. H. Andrabi, M. Khalid	2011	<i>In vitro</i> evaluation of liquid-stored buffalo semen at 5°C diluted in soya lecithin based extender (Bioxcell®), tris-citric egg yolk, skim milk and egg yolk-citrate extenders	Reproduction in Domestic Animals	46:45-49
41.	Akhter, S., M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi and N. Ullah	2010	Cryopreservation of buffalo (<i>Bubalus bubalis</i>) semen in Bioxcell® extender	Theriogenology	74:951-955
42.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. M. H. Andrabi and S. Akhter	2010	Usefulness of powdered and fresh egg yolk for cryopreservation of Zebu bull spermatozoa	Reproductive Biology	10:235-240
43.	Akhter, S., <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, M. S. Ansari	2010	Comparison of egg yolks from three avian species in extender for cryopreservation of Sahiwal bull epididymal spermatozoa	Animal Science Papers and Reports	29:131-138
44.	Ansari, M. S., <u>Bushra Allah Rakha</u> , N. Ullah, S. M. H. Andrabi, S. Iqbal, M. Khalid and S. Akhter	2010	Effect of exogenous glutathione in extender on the freezability of Nili-Ravi buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Animal Science Papers and Reports	28:235-244

National Refereed Journals

S. No.	Author (S)	Year of Publication	Title of Article	Name of Journal	Page numbers
1.	M.R. Khan, <u>Bushra Allah Rakha</u> , M. S. Ansari	2019	Diversity and Distribution of Genera Schizothorax and Schizothorichthyes in River Swat, Pakistan	Pakistan Journal of Zoology	Accepted for Publication
2.	Husna, M. S. Ansari, <u>Bushra Allah Rakha</u> , R.	2017	Melatonin supplementation in extender enhances the post	Pakistan Journal of Zoology	49:163-167

	Iqbal, R. Ejaz, N. Ullah, S. Akhter		thaw quality of buffalo bull spermatozoa		
3.	N.A.Qureshi, S. Ali, N.A. Abbasi and <u>Bushra Allah Rakha</u>	2016	Morphometrics of Common Quail (<i>Coturnix coturnix</i>) in Pothohar, Pakistan	Pakistan Journal of Wildlife	7:37-40
4.	Akhter S, M. S. Ansari, <u>Bushra Allah Rakha</u> , T. Aziz, S. M. H. Andrabi, N. Ullah, M. Anwar and M. Qayyum	2015	Effect of Milk Based Extenders on Motility and Acrosomal Integrity of Buffalo Bull (<i>Bubalus bubalis</i>) Spermatozoa at 5°C	Pakistan Journal of Zoology	47:1645-1648
5.	Fiza, Y., <u>Bushra Allah Rakha</u> , S. Akhter and M. S. Ansari	2015	Breeding Biology of Scaly-Bellied Woodpecker, <i>Picus squamatus</i> , in Margalla Hills National Park, Pakistan	Pakistan Journal of Zoology	(47):1003-1007
6.	M. S. Ansari, <u>Bushra Allah Rakha</u> , R. Iqbal, S. Akhter	2014	Effect of glutathione in extender on the Freezability of Sahiwal bull spermatozoa	Pakistan Journal of Zoology	(46):17-21
7.	S. Akhter, <u>Bushra Allah Rakha</u> , R. Iqbal, M. S. Ansari	2014	Effect of bovine serum albumin on motility, plasmalemma, viability and chromatin integrity of buffalo bull spermatozoa	Pakistan Journal of Zoology	(46):115-120
8.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah, R. Iqbal, W. V. Holt and S. Akhter	2014	Thioglycol in extender improves the post-thaw quality of buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	J. Anim. Plant Sci	24:1256-1259
9.	Zia, U., M. S. Ansari, S. Akhter and <u>Bushra Allah Rakha</u>	2014	Breeding biology of red vented bulbul (<i>Pycnonotus cafer</i>) in the area of rawalpindi/Islamabad	J. Anim. Plant. Sci	24:656-659
10.	Akhter S, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, M. Qayyum and N. Ullah	2014	Effect of Fructose in Extender on Fertility of Buffalo Semen. Short Communication	Pakistan Journal of Zoology	46:279-281
11.	Ali, S., <u>Bushra Allah Rakha</u> , I. Hussain, M. S. Nadeem and M. Rafique	2013	Ecology of Feral Pigeon (<i>Columba livia</i>) in Urban Areas of Rawalpindi/Islamabad, Pakistan	Pakistan Journal of Zoology	45:1229-1234
12.	Mehmood, A., M. S. Ansari, S. Akhter, A. A. Khan, I. Hussain, Shams-ul-Hassan, T. Z. Qureshi and <u>Bushra Allah Rakha</u>	2012	Ocuurence of Pathogenic bacteria in small mammals-inhabiting poultry farms of Rawalpindi/Islamabad, Pakistan	Pakistan Journal of Zoology	44(4):1185-1187
13.	Mehmood, A., M. S. Ansari, T. Hussain, S. Akhter, S. A. Khan, S. Hassan, A. A. Khan and <u>Bushra Allah Rakha</u>	2012	Common shrew (<i>Suncus murinus</i>): A potential reservoir of pathogenic bacteria at poultry farms, Rawalpindi, Pakistan	Pakistan Journal of Zoology	44(3):879-880
14.	N. A. Qureshi, M. S. Ansari, S. Akhter, A. A. Khan, I. Hussain and <u>Bushra Allah Rakha</u>	2012	Feeding Habits of Common Quail (<i>Coturnix coturnix</i>) migrating through Rawalpindi, Pakistan	Pakistan Journal of Zoology	44(6):1760-1762

15.	Batool, K. Mehboob, S. Qadeer, M. S. Ansari, <u>Bushra Allah Rakha</u> , N. Ullah, S. M. H. Andrabi, S. Akhter	2012	Effect of α -tocopherol acetate and ascorbic acid in extender on quality of Zebu bull spermatozoa	Pakistan Journal of Zoology	44(6):1487-1491
16.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. Akhter	2011	Effect of butylated hydroxytoluene in extender on motility, plasmalemma and viability of Sahiwal Bull Spermatozoa	Pakistan Journal of Zoology	43:311-314
17.	Akhter, S., <u>Bushra Allah Rakha</u> , M. S. Ansari, S. M. H. Andrabi, N. Ullah	2011	Effect of glucose supplementation in skim milk diluter on motility, plasma membrane and acrosomal integrity of Nili-Ravi buffalo bull spermatozoa stored at 5°C	Pakistan Journal of Zoology	43:291-294
18.	Akhter, S., <u>Bushra Allah Rakha</u> , M. S. Ansari, S. M. H. Andrabi and N. Ullah	2011	Storage of Nili-Ravi buffalo (<i>Bubalus bubalis</i>) semen in skim milk extender supplemented with ascorbic acid and α -tocopherol	Pakistan Journal of Zoology	43:273-277
19.	Ansari, M. S., <u>Bushra Allah Rakha</u> , N. Ullah, S. M. H. Andrabi and S. Akhter	2011	Glutathione addition in tris-citric egg yolk extender improves the quality of cooled buffalo (<i>Bubalus bubalis</i>) bull semen	Pakistan Journal of Zoology	43:46-55
20.	Mehmood, A., M. S. Ansari, T. Hussain, S. Akhter, S. A. Khan, S. Hassan, A. A. Khan and <u>Bushra Allah Rakha</u>	2011	Bandicoot rat (<i>Bandicota bengalensis</i>): A Novel Reservoir of Pathogenic Bacteria at Poultry Farms, Rawalpindi/Islamabad, Pakistan	Pakistan Journal of Zoology	43:201-202
21.	Ansari, M. S., <u>Bushra Allah Rakha</u> , N. Ullah, S. M. H. Andrabi, M. Khalid, S. Akhter	2011	Effect of L-cysteine in tris-citric egg yolk extender on post thaw quality of Nili-Ravi buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Pakistan Journal of Zoology	43:41-47
22.	Akhter, S., M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi M. Anwar and N. Ullah	2010	Effect of fructose addition in skim milk extender on the quality of liquid Nili-Ravi buffalo (<i>Bubalus bubalis</i>) semen	Pakistan Journal of Zoology	42:227-231
23.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah and S. Akhter	2010	Cryopreservation of Sahiwal bull epididymal spermatozoa	Pakistan Journal of Zoology	42:241-243

XIV. Conference Papers

Abstracts in International Conferences

S. No.	Author (s)	Conference paper	Name of conference / Venue	Date
1.	Bushra Allah Rakha	Identification of Environmental stressors and climate change impacts on avian population ecology	3 rd World Summit on Climate Change and Global Warming, Prague, Czech Rrepublic	February 27-28, 2019

2.	Bushra Allah Rakha , Javeria Batool, Komal Shakeel, Faryal Akhter, Muhammad Sajjad Ansari	Breeding biology of Himalayan Bulbul (<i>Pycnonotus leucogenys</i>) in Margalla Hills National Park, Pakistan	2 nd Wildlife Reintroduction Conference Lincoln Park Zoo, 2001 North Clark Street Chicago	November 13- 16, 2018
3.	M. S. Ansari, Bushra Allah Rakha , S. Akhter	Effect of cryodiluents on quality, enzyme leakage and fertility of Zebu bull spermatozoa	International Agricultural, Biological & Life Science Conference, Edirne, Turkey Trakya University Edirne, Turkey.	September 2-5, 2018
4.	M. S. Ansari, Bushra Allah Rakha , S. Akhter	Semen quality and fertility of liquid-store buffalo semen in AndroMed [®] , skim milk and tris-citric egg yolk extender	International Agricultural, Biological & Life Science Conference, Edirne, Turkey. Trakya University Edirne, Turkey.	September 2-5, 2018
5.	Bushra Allah Rakha , M. S. Ansari, S. Akhter	Morphometry of Indian red jungle fowl (<i>Gallus gallus murghi</i>) spermatozoa	International Agricultural, Biological & Life Science Conference, Edirne, Turkey. Trakya University Edirne, Turkey.	September 2-5, 2018
6.	M. S. Ansari, Bushra Allah Rakha , M. Zohaib	Breeding biology of purple sunbird (<i>Cinnyris asiaticus</i>) in district Okara, Pakistan	Fifth Regional Meeting of the Society for Conservation Biology Asia Section. Mainstreaming Conservation in a Changing Asia American University of Central Asia. Bishkek, Kyrgyz Republic	6-10 August, 2018
7.	Bushra Allah Rakha , M. S. Ansari, S. Akhter, S. Bashir	Effect of dietary vitamin E on semen quality of Indian red jungle fowl (<i>Gallus gallus murghi</i>): An ex situ cryoconservation perspective	Fifth Regional Meeting of the Society for Conservation Biology Asia Section. Mainstreaming Conservation in a Changing Asia. American University of Central Asia. Bishkek, Kyrgyz Republic	6-10 August, 2018
8.	Bushra Allah Rakha , M. Z Waseer, M. S. Ansari	Breeding Biology of red vented bulbul (<i>Pycnonotus cafer</i>) in District Okara, Pakistan	7 th International Conference on Biodiversity Conservation and Ecosystem Management, Melbourne, Australia	July 26-27, 2018
9.	M. S. Ansari, Bushra Allah Rakha , S. Akhter, E. Blesbois, J. Santiago-moreno	Lipid peroxidation, antioxidant potential, DNA integrity and mitochondrial activity of Indian redjungle fowl (<i>Gallus gallus murghi</i>) semen	55 th Annual Meeting of the Society for Cryobiology. Scientific Challenges of Cryobiology, Madrid, Spain.	10-13 July, 218
10.	M. S. Ansari, Bushra Allah Rakha , S. Akhter, J. Santiago-moreno, E. Blesbois	Cryopreservation of Indian red jungle fowl semen with dimethylformamide	55 th Annual Meeting of the Society for Cryobiology. Scientific Challenges of Cryobiology. Madrid, Spain.	10-13 July, 2018
11.	S. Akhter, M. S. Ansari, Bushra Allah Rakha , M. Khaild	Avian egg yolk and cryopreservation of buffalo semen	14 th symposium of animal biology and nutrition / Ramada Plaza Bucharest Str. Poligrafiei nr. 3-5, Sectorul 1 Bucharest, Romania,	28-29, September 2017.

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12.	Bushra Allah Rakha , M. S. Ansari, I. Hussain, A. Maqsood, S. Akhter and E. Blesbois	Evaluation of extenders for short and long-term storage of Indian red jungle fowl (<i>Gallus gallus murghi</i>) spermatozoa	The 6 th congress on the “Asia Pacific Initiative on Reproduction”/ Aspire, Jakarta, Indonesia	8-10, April 2016
13.	S. Akhter, S. Qadeer, M. A. Khan, M. S. Ansari, Bushra Allah Rakha	Cryopreservation of Nili-Ravi buffalo bull sperm: The role of antifreeze glycoproteins (AFGPs)	The 15 th Chulalongkorn University Veterinary Conference CUVAC 2016: Research in Practice, , Bangkok, Thailand	April 20-22, 2016
14.	Bushra Allah Rakha	Evaluation of tris-citric acid, skim milk and sodium citrate extenders for liquid storage of Punjab urial (<i>Ovis vignei punjabiensis</i>) spermatozoa	Proceedings of International Conference and exhibition on Tissue Preservation and Bio-Banking, Barcelona Spain	July 20-22, 2015
15.	S. Akhter, Bushra Allah Rakha , M. S. Ansari, N. Kamal, S. Rani, S. Bibi, S. Naz, S. Qadeer, and M. Khalid	Effect of amino acid supplementation of extender on post-thaw quality of sahiwal bull spermatozoa.	The 11th Annual Conference Asian Reproductive Biotechnology Society ARBS 2014. Thailand, Sukosol Hotel, Bangkok	November 3-8, 2014
16.	S. Akhter, M. S. Ansari, Bushra Allah Rakha , S. M. H. Andrabi, S. Qadeer, N. Ullah	Evaluation of ciprofloxacin for cryopreservation of buffalo spermatozoa.	16 th Annual conference of “European society for domestic animal reproduction”, Dublin, Ireland	29 th August-1 st September 2012
17.	S. Akhter, M. S. Ansari, S. Andrabi, Bushra Allah Rakha , N. Ullah, and M. Khalid	Soya-lecithin in Extender Improves the Freezability and Fertility of Buffalo (<i>Bubalus bubalis</i>) Bull Spermatozoa.	The 15th Annual Conference of “the European Society for Domestic Animal Reproduction (ESDAR)”/ Antalia, Turkey	15-17 September 2011
18.	S. Akhter, M. S. Ansari, Bushra Allah Rakha , N. Ullah, S. M. H. Andrabi, S. Iqbal, and M. Khalid.	Glutathione supplementation in extender improves the quality of cryopreserved buffalo (<i>Bubalus bubalis</i>) bull semen.	Annual Conference of “Society for Reproduction and Fertility” / Oxford, UK.	12-14 July, 2009

Abstracts in National Conferences

S. No.	Author (s)	Conference paper	Name of conference / Venue	Date
1.	R. Ejaz, S. Qadeer, I. Maqsood, M. S. Ansari, Bushra Allah Rakha , A. Husna, A. Azam and S. Akhter	Fertility of cryopreserved buffalo semen can be improved by supplementation of arachidic acid in extender	Proceedings of the 39 th International Congress of Zoology held at Islamia College University-Peshawar	March 04-06, 2019
2.	Khurshed, F., Bushra Allah Rakha , S. Akhter, M. S. Ansari	Cryopreservation of Indian red jungle fowl (<i>Gallus gallus murghi</i>) with ethylene glycol	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
3.	Akhter, A., Bushra	Impact of habitat	Proceedings of the 38 th International	February 27-

	Allah Rakha , S. Mehmood, T. Mahmood, I. Hussain, N. Munawar and M. S. Ansari	manipulation on rodent population in wheat cropping system of Rawalpindi	Congress of Zoology held at University of the Punjab-Lahore	March 01, 2018
4.	Naseer, A., Bushra Allah Rakha , S. Akhter and M. S. Ansari	Effect of feeding on growth of ring-necked pheasant (<i>Phasianus colchicus</i>)	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
5.	Mahboob. N., Bushra Allah Rakha , S. Akhter and M. S. Ansari	Influence of group size and environmental conditions on breeding performance of Indian Peafowl (<i>Pavo cristatus</i>) in captivity	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
6.	Waseer, Z., M. S. Ansari and Bushra Allah Rakha	Breeding biology of laughing dove (<i>Spilopelia senegalensis</i>) in District Okara, Pakistan	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
7.	Hussain, A., S. Ullah and Bushra Allah Rakha	Diversity and distribution of avian fauna Tehsil Matta, Swat, Pakistan	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
8.	Ishfaq, K., M. Anwar, M. Rais, T. Mahmood and Bushra Allah Rakha	Population density and habitat association of Himalayan Ibex (<i>Capra Ibex</i>) in Qurumber National Park, Gilgit-Baltistan	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
9.	Basit, A., M. Anwar, M. Rais, T. Mahmood, I. Ashraf and Bushra Allah Rakha	Population density and habitat association of black partridge (<i>Francolinus francolinus</i>) in Kala Chitta National Park	Proceedings of the 38 th International Congress of Zoology held at University of the Punjab-Lahore	February 27-March 01, 2018
10.	M. S. Ansari, Bushra Allah Rakha , S. Akhter and E	Effect of Season and age on Indian red jungle fowl (<i>Gallus gallus murghi</i>) semen characteristics: A 4-year retrospective study	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
11.	Qadeer, S., M. A. Khan, M. S. Ansari, Bushra Allah Rakha , R. Ejaz, A. U. Husna, N. Ullah, V. K. Walker and S. Akhter	A novel recombinant eel pout (<i>Macrozoarces americans</i>) type III antifreeze protein improve cryosurvival of buffalo sperm	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
12.	Bushra Allah Rakha , M. S. Ansari, I. Hussain, M. Anwar, S. Akhter and E. Blesbois	Cryo-protective effect of glycerol concentrations of Indian red jungle fowl (<i>Gallus gallus murghi</i>) spermatozoa	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
13.	S. Nasreen, M. A. Awan, A. U. Husna, Bushra Allah Rakha , M. S. Ansari, and S. Akhter	Evaluation of honey as alternative to antibiotics in extender for cryopreservation of buffalo bull semen	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
14.	Bashir, S., Bushra Allah Rakha , M. S.	Effect of vitamin E in extender on cryopreservation	Proceedings of the 37 th International Congress of Zoology held at	February 28-March 02,

	Ansari, and S. Akhter	of Indian red jungle fowl sperm	Government College, University Faisalabad	2017
15.	Ejaz, R., M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Qadeer, A. U. Husna, A. Azam and S. Akhter	Linoleic acid supplementation in extender improves sperm progressive motility and plasma membrane integrity of cryo-preserved nili-ravi buffalo spermatozoa	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
16.	Basharat, H., R. Ejaz, M. S. Ansari, <u>Bushra Allah Rakha</u> , and S. Akhter	In vitro longevity of cryopreserved semen from various cattle breeds	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
17.	Zafar, Z., <u>Bushra Allah Rakha</u> , M. S. Ansari, S. Akhter, M. Anwar, A. Naseer and E. Blesbois	Effect of antibiotics in extender on bacterial control and spermatozoa quality of Indian red jungle fowl (<i>Gallus gallus murghi</i>)	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
18.	Khan, M. I., M. A. Awan, R. Ejaz, <u>Bushra Allah Rakha</u> , M. S. Ansari, F. Tahir and S. Akhter	Acrosomal and DNA integrity of spermatozoa from patients visiting NIH, Islamabad	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
19.	Naseer, A., <u>Bushra Allah Rakha</u> , M. S. Ansari, M. Anwar and Z. Z. Butt	Population density and habitat preferences of red fox (<i>Vulpus vulpus</i>) in Chakwal, Pakistan	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
20.	Zaman, M., <u>Bushra Allah Rakha</u> , M. Anwar and M. S. Ansari	Population density and habitat of cape hare (<i>Lepus capensis</i>) in Shigar Valley, CKNP, Pakistan	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
21.	Khan, M. R., W. A. Shah, <u>Bushra Allah Rakha</u> and M. S. Ansari	Study on diversity and distribution of genera <i>Schizothorax</i> and <i>Schizothorichthyes</i> in River Swat	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
22.	Awan, M. A., S. Nasreen, A. U. Husna, S. Ahmad, <u>Bushra Allah Rakha</u> , M. S. Ansari, and S. Akhter	Antioxidant activity of Nigella Sativa seeds extract and its use for cryopreservation of nili-ravi buffalo bull spermatozoa	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
23.	Munir, S., M. Rais, S. Abbasi, M. Razzaq, A. Ibrahim, A. Hussnain, A. Asadi and <u>Bushra Allah Rakha</u>	A note on morphometric measurements of burrowing frog (<i>Sphaerotheca breviceps</i>) from North Punjab	Proceedings of the 37 th International Congress of Zoology held at Government College, University Faisalabad	February 28-March 02, 2017
24.	M. S. Ansari, <u>Bushra Allah Rakha</u> , M. Anwar and S. Akhter	Effect of Cryopreservation on Indian Red Jungle Fowl (<i>Gallus gallus mgrghi</i>) Spermatozoa.	Proceedings of the 36 th International Pakistan Congress of Zoology held at University of Sindh, Jamshoro	16-18, February 2016
25.	Rasool, A., M. Anwar, I. Hussain, M. S. Nadeem and <u>Bushra Allah Rakha</u>	Prevalence and Habitats of Carnivore Species in Riverine Forest of Dera Ghazi Khan Forest Sub-Division	Proceedings of the 36 th International Pakistan Congress of Zoology held at Centre of excellence in marine biology, University of Karachi	1-4, March 2015

26.	Asadi, M. A., M. Rais, <u>Bushra Allah Rakha</u> , A. Saleem, M. Anwar, I. Hussain, T. Mahmood, M. Saeed and M. J. Jilani	Breeding and Spatio-Temporal Variations in Abundance and Red-Wattled Lapwing (<i>Vanellus lillidicus</i>) in North Punjab, Pakistan	Proceedings of the 36 th International Pakistan Congress of Zoology held at Centre of excellence in marine biology, University of Karachi	1-4, March 2015
27.	Saeed, M., M. Anwar, M. Rais, I. Hussain, <u>Bushra Allah Rakha</u> , T. 2015. Mahmood and A. R. Kayani.	Baseline Study on Abundance and Habitat of White-Breasted Waterhen (<i>Amaurornis phoenicurus</i>) in Rawalpindi-Islamabad Area, Pakistan	Proceedings of the 36 th International Pakistan Congress of Zoology held at Centre of excellence in marine biology, University of Karachi	1-4, March 2015
28.	, S., M. Anwar, I. Hussain, T. Mahmood, M. Rais and <u>Bushra Allah Rakha</u>	Identification of Threats to Grey Partridge (<i>Francolinus pondicerianus</i>) in Salt Range, Punjab Pakistan	Proceedings of the 36 th International Pakistan Congress of Zoology held at Centre of excellence in marine biology, University of Karachi	1-4, March 2015
29.	M. Jabbar, M. S. Ansari, <u>Bushra Allah Rakha</u> , R. Iqbal R. Ejaz, A. U. Husna, N. Ullah, and S. Akhter	Melatonin in extender improves the freezability of Sahiwal bull semen	Proceedings of the 33 rd International Pakistan Congress of Zoology held at Pakistan Museum of Natural History, Islamabad	2-4 April 2013
30.	Husna, A. U., M. S. Ansari, <u>Bushra Allah Rakha</u> , R. Iqbal, M., Jabbar, R. Ejaz, N. Ullah and S	Melatonin supplementation of extender improves the post thaw quality of buffalo bull spermatozoa	Proceedings of the 33 rd International Pakistan Congress of Zoology held at Pakistan Museum of Natural History, Islamabad	2-4 April 2013
31.	Ansari, M. S., <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah and S	Use of powder egg yolk in extender for cryopreservation of buffalo bull spermatozoa	Proceedings of the 32 nd International Pakistan Congress of Zoology held at Government College University, Lahore	6-8 March 2012
32.	<u>Bushra Allah Rakha</u> , S. Akhter, M. S. Ansari, N. Ullah, S. M. H. Andrabi and I. Hussain	Evaluation of tris-citric egg yolk, skim milk and egg yolk-citrate extenders for the liquid storage of urial (<i>Ovis vignei punjabiensis</i>) spermatozoa	Proceedings of the 32 nd International Pakistan Congress of Zoology held at Government College University, Lahore	6-8 March 2012
33.	N. Ullah, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi and S. Akhter	Effect of cysteine in extender on motility, viability, plasma membrane integrity and DNA integrity of Nili-Ravi buffalo (<i>Bubalus bubalis</i>) bull semen	Proceedings of the 31 st International Pakistan Congress of Zoology held at University of Azad Jammu and Kashmir, Muzaffarabad	19-21 April, 2011
34.	S. Akhter, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi and N. Ullah. 2011	Effect of thioglycol in extender on quality of buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Proceedings of the 31 st International Pakistan Congress of Zoology held at University of Azad Jammu and Kashmir, Muzaffarabad	19-21 April, 2011
35.	E. Rabea, S. Basit, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah and S. Akhter	Anatomical studies on Jattal goat cervix for artificial insemination	Proceedings of the 31 st International Pakistan Congress of Zoology held at University of Azad Jammu and Kashmir, Muzaffarabad	19-21 April, 2011

36.	S. Qadeer, A. Batool, K. Mehboob, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. M. H. Andrabi, N. Ullah and S. Akhter	Effect of streptomycin, neomycin, polymyxin B and E with penicillin in extender on bacterial control and quality of buffalo spermatozoa	Proceedings of the 31 st International Pakistan Congress of Zoology held at University of Azad Jammu and Kashmir, Muzaffarabad	19-21 April, 2011
37.	Mehmood A., <u>Bushra Allah Rakha</u> , M. S. Ansari, T. Hussain, S. Akhter, S. A. Khan, S. Hassan and A. A. Khan	Occurrence of Salmonella spp. In black rat (<i>Rattus rattus</i>), house mouse (<i>Mus musculus</i>) and mangoes (<i>Herpestes javanicus</i>) at poultry farms of Rawalpindi/Islamabad, Pakistan	Proceedings of the 30 th International Pakistan Congress of Zoology held at University of Agriculture, Faisalabad	2-3 March, 2010
38.	Mehmood A., <u>Bushra Allah Rakha</u> , M. S. Ansari, T. Hussain, S. Akhter, S. A. Khan, S. Hassan and A. A. Khan	Common shrew (<i>Suncus murinus</i>): Potential reservoir of pathogenic bacteria at poultry farms, Rawalpindi, Pakistan	Proceedings of the 30 th International Pakistan Congress of Zoology held at University of Agriculture, Faisalabad	2-3 March, 2010
39.	Mehmood A., <u>Bushra Allah Rakha</u> , M. S. Ansari, T. Hussain, S. Akhter, S. A. Khan, S. Hassan and A. A. Khan	Bandicoot rat (<i>Bandicota bengalensis</i>): A novel reservoir of pathogenic bacteria at poultry farms, Rawalpindi/Islamabad	Proceedings of the 30 th International Pakistan Congress of Zoology held at University of Agriculture, Faisalabad	2-3 March, 2010
40.	Qureshi, N. A., <u>Bushra Allah Rakha</u> , M. S. Ansari, S. Akhter, S. A. Khan and T. Hussain	Feeding habits of common quail (<i>Coturnix coturnix</i>) in Rawalpindi, Pakistan	International Pakistan Congress of Zoology held at University of Agriculture, Faisalabad	2-3 March, 2010
41.	Ali, S., <u>Bushra Allah Rakha</u> , M. S. Ansari, T. Hussain, S. A. Khan and S. Akhter	Ecology of blue rock pigeon (<i>Columbia livia</i>) in urban areas of Rawalpindi/Islamabad	Proceedings of the 30 th International Pakistan Congress of Zoology held at University of Agriculture, Faisalabad	2-3 March, 2010
42.	Akhter, S., M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Iqbal, S. M. H. Andrabi and N. Ullah	Cryopreservation of buffalo (<i>Bubalus bubalis</i>) semen in Bioxcell [®] extender.	Proceedings of the 30 th International Pakistan Congress of Zoology held at University of Agriculture, Faisalabad	2-3 March, 2010
43.	Ali, S., M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Akhter, N. Ullah and S. M. H. Andrabi	Effect of feeding on reproductive performance of Nili-Ravi buffalo bulls	Proceeding of 28 th International Pakistan congress of Zoology held at Government College University, Faisalabad	2008
44.	Ejaz, R., S. Jabeen, M. S. Ansari, <u>Bushra Allah Rakha</u> , S. Akhter and S. A. Khan	Lead concentration in goat blood	Proceeding of 28 th International Pakistan Congress of Zoology held at Government College University, Faisalabad	2008
45.	Nisa, Z., <u>Bushra Allah Rakha</u> , M. S. Ansari and S. Akhter. 2008.	Effect of soil pH and temperature on occurrence of invertebrate species in Shakespearian, Pakistan	Proceeding of 28 th International Pakistan Congress of Zoology held at Government College University, Faisalabad	2008
46.	Zulfiqar, M., <u>Bushra Allah Rakha</u> , M. S. Ansari and S. Akhter. 2008	Effect of soil pH and temperature on occurrence of invertebrate species in Khewra salt range, Pakistan	Proceeding of 28 th International Pakistan Congress of Zoology held at Government College University, Faisalabad	2008
47.	<u>Bushra Allah Rakha</u> , A. Batool, M. S. Ansari and A. Mian. 2007	Soil macrofauna variation in Margalla Hill National Park, Pakistan	Proceeding of International conference on biodiversity as renewable resource of Pakistan held	March 13-14, 2007

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