

# **Curriculum Vitae**



## **PERSONAL INFORMATION**

**Name:** ZIA UR REHMAN

**Designation/Department/ Address:** Assistant Professor

College of Veterinary Sciences, FAHVS, The University of Agriculture, Peshawar, 25120

**Contact:** Office: 0092 91 9221027 **Cell #:** 0092 3009083050 **email:** [drzia80@aup.edu.pk](mailto:drzia80@aup.edu.pk)

**Scholar IDs:** ORCID: [0000-0002-9807-5240](https://orcid.org/0000-0002-9807-5240)

[https://scholar.google.com/citations?hl=en&user=uQhQeykAAAAJ&view\\_op=list\\_works](https://scholar.google.com/citations?hl=en&user=uQhQeykAAAAJ&view_op=list_works)

**Society:** Founder of Society for Theriogenology and Reproductive Medicine (SFTRM) <https://sftrm.org/>

## **PROFESSIONAL EDUCATION** (HEC Approve supervisor)

- PhD (2017) Animal Reproduction (Reproductive Physiology and Biotechnology)  
Huazhong Agricultural University Wuhan, PR China  
Thesis Title; “Regulation and Mechanism of AMH on Sertoli Cells and Follicular Development”
- MSc (Hons) (2007) Animal Reproduction  
Sindh Agricultural University, Tandojam, Pakistan  
Thesis Title “Freezability of Kundhi Buffalo Bull Semen,”
- DVM (2004) Doctor of Veterinary Medicine  
Faculty of Animal Husbandry and Veterinary Sciences,  
Sindh Agricultural University, Tandojam, Pakistan
- Intermediate from Board of Intermediate and Secondary Education, Peshawar, Pakistan

## **CARRIER PROFILE**

After completion of Doctor of Veterinary Medicine (DVM) degree, I got M. Sc (Hons) degree from Sindh Agriculture University Tandojam during 2007 under the supervision of Professor Dr. Uris Samo, I joined the National Rural Support Program, Islamabad and University of Agriculture Peshawar for a period of about one and a half year respectively. Then I worked at the provincial Livestock Department of Khyber Pakhtunkhwa as Veterinary Officer (Health) for three years. During this period of about five years I got an opportunity to understand the issues faced by the small poor farmers, and educated the emerging entrepreneurs across livestock value chain. At the same time I established my own clinic to utilize my knowledge of Theriogenology / management, and introduced good clinical practices focused at improving the breed, animal fertility and disease resistance through appropriate reproductive management. During 2011, I joined the University of Agriculture Peshawar as regular Lecturer in the College of Veterinary

Sciences. I taught reproductive physiology, gynecology and obstetrics, and reproductive biotechnology. Semen cryopreservation was my major area including the post thaw quality parameters to improve conception rate in bovine and buffalo. Besides, I also worked on the optimization of estrus synchronization and pregnancy diagnosis by using ultrasonography in local goats. During this period, I moved to Huazhong Agricultural University Wuhan, PR China for Doctorate. My research focused on the role of Anti-Müllerian hormone in the sertoli/sperm cells, and finding of genomic and proteomic in granulosa cells. During that period I was trained in molecular techniques: cell culture of sertoli cells/granulosa cells/ CHO cells, use and construction of shRNA plasmid, siRNA, RNA/DNA extraction, proliferation, apoptosis, IHC, ICC, RT-PCR, RT-qPCR and western blotting.

## **WORK EXPERIENCE**

**2021 till date**

**Assistant Professor BS-19**

College of Veterinary Sciences, FAH&VS

The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan

**Key responsibilities;**

Teaching and research to undergraduate (DVM), Postgraduation MPhil and PhD scholars, supervision of postgraduate students, PI of research projects, perform practical work at dairy farm, and attend clinical duty at Veterinary Teaching hospital.

**2011 - 2021**

**Lecturer BS-18**

College of Veterinary Sciences, FAH&VS

The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan

**Key responsibilities;**

Teaching and research to undergraduate (DVM), Postgraduation MPhil and PhD scholars, supervision of postgraduate students, helps in research projects, maintain semen processing unit, perform practical work at dairy farm, and attend clinical duty at Veterinary Teaching hospital.

**2008-2011**

**Veterinary Officer BS-17**

Livestock, and Cooperative Department, Khyber Pakhtunkhwa, Peshawar.

**Key responsibilities;**

Treatment of animals including buffalo, cattle, dogs and cats, immunization against infectious and zoonotic diseases, artificial insemination, pregnancy diagnosis, disease diagnosis, dairy farm visits, conducting field days, assist district administration.

**2007-2008**

**Veterinary Officer BS-17**

National Rural Support Program, Islamabad, Punjab, Pakistan

**Key responsibilities;**

Treatment of animals including buffalo, cattle, dogs and cats, immunization, artificial insemination, pregnancy diagnosis, dairy farm visits, conducting field days, social mobilization, radio talk, reports writing, assist district administration.

### **COURSES DEVELOPED FOR POSTGRADUTION IN THERIOGENOLOGY**

| <b>S. No</b> | <b>Course title</b>                 | <b>Credit hours</b> | <b>Course code</b> |
|--------------|-------------------------------------|---------------------|--------------------|
| 1            | Advanced Reproductive Biotechnology | 3(2-1)              | THER-720           |
| 2            | Reproduction in Small Ruminants     | 3(2-1)              | THER-721           |
| 3            | Improved Reproductive Management    | 3(2-1)              | THER-722           |
| 4            | Gamete Biology                      | 3(2-1)              | THER-723           |
| 5            | Reproductive Toxicology             | 3(2-1)              | THER-724           |

### **TRAININGS / ORGANIZED – ATTENDED**

#### **➤ (Organized)**

- Pets Show at the University of Agriculture Peshawar, January 2025
- Hands-on Workshop on Artificial Insemination in Goats, October, 2023
- Hands-on workshop on Ultrasonography in Bovines, September 13-15, 2022 (funded by PSF)
- Introductory Training on Ultrasonography in Domestic Animals Jan, 2021 (funded by PSF)
- Workshop titled “Integration of ICT in Agriculture and applied research” February 21, 2019
- Workshop titled “Developing a winning research proposal” December 26, 2018.
- Workshop on “Use of endnote statistical tool for research” 2018

#### **➤ (Participation)**

- Radioimmuno Assay (RIA) for Steroid hormones in Livestock, January 2025
- Modern Breeding Technologies in Cattle, 2024 offered by KOPIA, Korea at NARC
- Laparoscopic Artificial Insemination in Goats, 2021 at NARC, Islamabad,
- Early pregnancy diagnosis using by using ultrasonography in Kashmeri sheep at the University of Poonch, Rawlakot. 2021
- Workshop on Applications of PCR, September 25-26, 2021
- One-week training on “Advanced Biological Mitigation Trainings of Trainers Workshop” at COMSTECH Secretariat Islamabad (2018)
- Orally presented a research article at the Nanjing agriculture University, (2017) PR China
- Organizer of the International Conference on Dairy Science Park 2012 at UAP.
- Participated training in “Poultry Disease diagnosis” from Poultry Research Institute Punjab
- Attended the 25th Pakistan Congress of Zoology (international) Sindh Agriculture University, Tandojam.
- “Advance Diagnostic & Surgical Techniques in Veterinary Practice” Offered by Dr. I.H. Kathio, Pittston animal Hospital USA
- “Equine Surgery & Diagnostics” Offered by Dr. I.H. Kathio, Pittston animal Hospital USA

➤ **(Invited speaker/symposia)**

- Training resource person for Sarhad Rular Program (SRSP) 2025
- Resource person for Bovine Reproductive Ultrasonography workshop in Abdul-Wali Khan University Mardan (2023)
- Radio Talk speaker at Beuro of Agriculture information (2022)
- Radio Talk speaker at UAP, FM (2022)
- Application of PCR in Animals Diseases Diagnosis Organized Pathology Lab. College of Veterinary Sciences, UAP (2021)
- Infertility problems in domestic animals in KPK organized by Dairy Science Park (2021)

**RESEARCH PROJECTS REVIEWED:**

- Higher Education Commission (HEC) Pakistan,
- Pakistan Science Foundation (PSF)
- Agriculture Linkage program (ALP)

**SCIENTIFIC CONTRIBUTION**

➤ **(Research projects)**

- Fertility determination of local Achai Cattle Spermatozoa using Crocin and Salvianic Acid as extender. (2.79 million Funded by PSF) as **PI**
- Research Associate in project (Kundhi buffalo Bulls Semen Research Lab. (2006-2007) SAU Tandojam, Sindh.

➤ **(Book chapter publication)**

- Zahid Naseer, Mudussar Nawaz, Ejaz Ahmad and **Zia ur Rehman**  
**Title:** Oxidative Stress and Male Fertility: Promising Role of Nutraceuticals Recent Advances in Reactive Oxygen Species (2023)  
<https://www.intechopen.com/online-first/87630>

➤ **(Membership and affiliation)**

- Incharge Theriogenology Postgraduation Section Program.
- A/Incharge of Veterinary Teaching Hospital and Pet Center
- Incharge Semen Processing Unit (SPU), CVS-UAP
- HEC approve supervisor till date
- Coordinator DVS batch 2024-2025.
- Coordinator DVM 5<sup>th</sup> Year Students
- Member of the refreshment committee of Convocation in 2012 and 2013
- Member, Board of PhD Comprehensive Examination, FAHVS, UAP
- Member, Departmental Board of Studies (CVS), FAHVS, UAP (2022- to date)
- External Examiner, Department of Zoology, Kohat University of Science and Technology, KP

- External Examiner, Faculty of Chemical & Life Sciences, Department of Zoology Abdul Wali Khan University Mardan, KP
- External Examiner of selection board for Gomal University DI Khan, KP
- Gynaecologist-Obstetrician and Infertility specialist, 24/7 Clinical Extension Service University Dairy Farm/Veterinary Teaching Hospital, UAP

➤ **(Professional societies)**

- Founder of the Society for **Theriogenology and Reproductive Medicine (SFTRM)**  
<https://sftrm.org/>
- Registered Member, Pakistan Veterinary Medical Council (PVMC/RVMF)
- Member of Society for Animal Reproduction of Pakistan (SARP)
- Higher Education Commission of Pakistan (HEC) Approved PhD Supervisor (2018- to date)
- Member of The Pakistan Biological Safety Association (PBSA)

➤ **(Journal's reviewer)**

- Frontiers in Immunology (IF 7.7)
- Oxidative Stress and Longevity (IF 7.3)
- Animal Genetics journal (IF 2.8)
- Pakistan journal of Zoology (IF 0.082)
- Frontiers in Veterinary Sciences (IF 3.5)
- Pure and Applied Biology (PAB)
- Reproduction in Domestic Animals (IF 1.9)

## **INTERNATIONAL COLLABORATION**

- Advisor for Key Lab of Genetics, Breeding and Reproduction HZAU, Wuhan PR China.
- Collaboration with University Putra Malaysia (UPM).

## **POSTGRADUATION SUPERVISORY RESPONSIBILITY (Completed)**

1. Comparative Study of MAP Impregnated Sponge and PGF2 $\alpha$  Protocols for Estrus Synchronization in Goats (*capra hircus*) in Non-breeding Season (2019-21 by Ali Husnain)
2. Effect of Glycine along with Vitamin E Supplementation on Cryopreserved Achai Bulls Semen. (2018-20 by Sohail Nazif)
3. Comparative estrus synchronization protocol in HF cattle in hot summer (2022-24 by Tariq Aziz)
4. Effect of camel milk addition on shelf life of the dairy cow's milk in tropical conditions (2020-21 by Aman Muslim)
5. Expression Analysis of Cyclin D2 and Cyclin E1 Gene in Different Stages of Bovine Corpus Luteum (2018-20 by Samullah)
6. Effect of Wild Olive Tree Lives on Milk Yield and Composition of Beetal Goats in Dist. Swat (Ijaz ul Haq 2019-20)
7. Enrichment of Cow Milk with Iron and its Effects on Sensory Attributes and Self Life of Milk (2020-21 yS Sema Jani)
8. Polymorphism in SMAD1 (Mother against Cecapentaplegic Homolog 1) gene and its Association with Reproductive Traits in Local Sheep Breeders (2019-21 by Palwasha Younis)
9. Crocin improved the quality of cryopreserved semen preserving the sperm DNA (2023-2025 by Mustafa)

## GRANTS, IMPACT/APPRECIATION, AWARDS BY SCIENTIFIC COMMUNITY

- Certificate of appreciation and cash prize from Key Lab. in China (2017)
- Won scholarship for PhD studies from Chinese Scholarship Council (2012-2017)
- 1<sup>st</sup> position in MSc Animal Reproduction at the Department of Animal Reproduction Sindh Agriculture University, Tandojam (2007)
- Won Scholarship from Qaid-e-Azam Aligarh Scholarship (2006)
- Scholarship holder and merit winner throughout DVM degree program (1999-2004)

## RESEARCH ARTICLE AS FIRST/CORRESPONDING AUTHOR

| S.No | Year | Title                                                                                                                                                                                                                                                                                                                                                                                                                                     | IF   |
|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1    | 2024 | Ahmad, A., Khan, H., <b>Rehman, Z. U.</b> ., Nazif, M. S., Alvi, M. A., Suleman, M., Khan, S. M., & Khan, S. ullah. (2024). Treating anoestrous and delayed pubertal Achai dairy cattle with Ferula Jaeschkeana: Ethno-veterinary medicine in cattle reproduction. Letters in Animal Biology, 4(2), 40–43. <a href="https://doi.org/10.62310/liab.v4i2.136">https://doi.org/10.62310/liab.v4i2.136</a>                                    |      |
| 2    | 2023 | Kiran Konain, Nayyer Saddique, Muhammad Samie, Zia Ur Rahman, Sajida Farid, Shazia Hameed, Munazza R Mirza, Wenhui Wu, Kyung Mi Woo, Praveen R Arany, Saeed Ur Rahman, Curcumin-loaded nanofibrous matrix accelerates fibroblast cell proliferation and enhances wound healing via GSK3-β inhibition, Journal of Composites Science, 2023. 7(8), 343. <a href="https://doi.org/10.3390/jcs7080343">https://doi.org/10.3390/jcs7080343</a> | 3.3  |
| 3    | 2022 | Zhewei Zhang, Ke Xiao, Sheng Wang, Abdur Rahman Ansari, Xiao-Yu Niu, Wen-Jie Yang Zhi, Ziaur Rehman, Meng-Qi Lu, Wei-Hua Zou, Weicheng Bei, Hui Song, Visfatin is a multifaceted molecule that exerts regulation effects on inflammation and apoptosis in RAW264. 7 cells and mice immune organs, Frontiers in Immunology 7272. <a href="https://doi.org/10.3389/fimmu.2022.1018973">doi.org/10.3389/fimmu.2022.1018973</a>               | 7.7  |
| 4    | 2022 | Talpur, H.S.; <b>Rehman, Z.U*</b> ; Gouda, M.; Liang, A.; Bano, I.; Hussain, M.S.; FarmanUllah, F.; Yang, L. Molecular Genomic Study of Inhibin Molecule Production through Granulosa Cell Gene Expression in Inhibin-Deficient Mice. <i>Molecules</i> 2022, 27, 5595. <a href="https://doi.org/10.3390/molecules27175595">https://doi.org/10.3390/molecules27175595</a>                                                                  | 4.93 |
| 5    | 2022 | Nazif MS, <b>Rehman ZU*</b> , Khan H, Khan FA, Hussain T, Ahmad A, Farmanullah, Husnain A, Muhammad S, Murtaza G, Gang L. Glycine Improved Cryopreserved Spermatozoa Quality in Achai Bull. Biomed Res Int. 2022 4;2022:8282387. doi: 10.1155/2022/8282387. PMID: 35968237; PMCID: PMC9371871.                                                                                                                                            | 3.4  |
| 6    | 2022 | Tarique H., Ghulam M., Dildar H. K., Muhammad S. K., Yulong Y., Muhammad I. C., Bie Tan, Anjaleena Y., <b>Zia Ur Rehman</b> , "Understanding the Immune System in Fetal Protection and Maternal Infections during Pregnancy", Journal of Immunology Research, vol. 2022, ID 7567708, 12, 2022. <a href="https://doi.org/10.1155/2022/7567708">https://doi.org/10.1155/2022/7567708</a>                                                    | 4.81 |

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|----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 7  | 2022 | Muhammad Izhar ul Haque, Farhan Anwar Khan, Umar Sadique, Hamayun Khan, <b>Zia ur Rehman</b> , Salman Khan, Hayatullah Khan, Faisal Ahmad, Mumtazur Rahman, Faiz Ur Rehman, Muhammad Saeed, Mehboob Ali and Saq. Molecular, Pakistan J. Zool., pp 1-8, 2022. Serological and Pathological Detection of Mycobacterium Avium subsp. Paratuberculosis Infection in Small Ruminants in Peshawar, Pakistan DOI: <a href="https://dx.doi.org/10.17582/journal.pjz/20191014071021">https://dx.doi.org/10.17582/journal.pjz/20191014071021</a> | 0.83 |
| 8  | 2021 | Farmanullah F, Liang X, Khan FA, Salim M, <b>Rehman ZU</b> , Khan M, Talpur HS, Schreurs NM, Gouda M, Khan SU, Shujun Z. Transcriptomic In-silico Analysis of Bovine Escherichia Coli Mastitis Highlights its Immune-related Expressed Genes as an Effective Biomarker. J Genet Eng Biotechnol. 2021, 12;19(1):153. doi: 10.1186/s43141-021-00235-x. PMID: 34637035; PMCID: PMC8511192.                                                                                                                                                |      |
| 9  | 2021 | Fan, H.; Ren, Z.; Xu, C.; Wang, H.; Wu, <b>Z.; Rehman</b> , Z.u.; Wu, S.; Sun, M.- a.; Bao, W. Chromatin Accessibility and Transcriptomic Alterations in Murine Ovarian Granulosa Cells Upon Deoxynivalenol Exposure. Cells 2021, 10, 2818. <a href="https://doi.org/10.3390/cells10112818">https://doi.org/10.3390/cells10112818</a>                                                                                                                                                                                                  | 4.4  |
| 10 | 2020 | Farmanullah,, Seyed Mahdi Hosseini, Aixin Liang,, Guohua Hua, <b>Zia ur Rehman</b> , Hira Sajjad Talpur,, Mohammad Salim, , Zahoor Ahmad, ..., Muhammad Zulfiqar Ahmad, , Ye Tingzhu, Nicola M. Schreurs, Iqra Bano, and Liguoy Yang. Adaptive Molecular Evolution of AKT3 Gene for Positive Diversifying Selection in Mammals,2020, BioMed Research International journal. <a href="https://doi.org/10.1155/2020/2584627">https://doi.org/10.1155/2020/2584627</a>                                                                    | 2.6  |
| 11 | 2020 | Tarique Hussain, Bie Tan, Ghulam Murtaza, Gang Liu, Najma Rahu, Muhammad Saleem Kalhoro, Dildar Hussain Kalhoro, Tolulope O Adebawale, Muhammad Usman Mazhar, <b>Zia ur Rehman</b> , Yordan Mart´inez, Shahzad Akber Khan, Yulong Yin. Flavonoids and Type 2 Diabetes: Evidence of Efficacy in Clinical and Animal Studies and Delivery Strategies to Enhance their Therapeutic Efficacy. Pharmacological Research <a href="https://doi.org/10.1016/j.phrs.2020.104629">https://doi.org/10.1016/j.phrs.2020.104629</a>                 | 5.57 |
| 12 | 2019 | <b>Zia Ur Rehman ZU*</b> , Qing Liu Q, Dinesh Bhattarai D, Liang A, Ullah F, Dad R, Khan SB, Talpur HS, Khan SA, Liguoy Yang L: Expression Profile of Sox5 and Sox6 in Sertoli and Spermatogonial Cells in Growing Mice Testis. Kafkas Univ Vet Fak Derg, 26 (1): 103-109, 2020. DOI: 10.9775/kvfd.22413                                                                                                                                                                                                                               | 0.5  |
| 13 | 2019 | Khan H, Khan FA, Sadique U, Ahmad S, Hassan ZU, Ahmad F, Shah M, Ahmad I, Shah <b>Z, Rehman ZU</b> : Genotoxic and toxicopathological effect of aflatoxin B1 in grass carp (Ctenopharyngodon idella). Kafkas Univ Vet Fak Derg. DOI: 10.9775/kvfd.2019.21988                                                                                                                                                                                                                                                                           | 0.5  |
| 14 | 2019 | Ahmadipour B, Kalantar M, Hosseini SM, <b>Rehman ZU</b> , Farmanullah F, Kalantar MH, Yang L: Hawthorn (Crataegus oxyacantha) flavonoid extract as an effective medicinal plant derivative to prevent pulmonary hypertension and heart failure in broiler chickens. Kafkas Univ Vet Fak Derg, 25 (3): 321-328,. DOI: 10.9775/kvfd.2018.20930                                                                                                                                                                                           | 0.5  |

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|----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 15 | 2018 | Rahim Dad Brohi, Amir Bukhsh Kalhoro, Allah Bux Kachiwal, Illahi Bux Kalhoro, Dildar Hussain Kalhoro, Sarfaraz Ahmed, Farhan Anwar Khan, Hira Sajjad Talpur, <b>Zia-ur-Rehman</b> and Dinesh Bhattaria. Comparative Effect of Propofol and Thiopentone Sodium in Sheep Sedated with Xylazine Hydrochloride, Pakistan journal of zoology 51(1)<br>DOI: 10.17582/journal.pjz/2019.51.1.1.7                                                                               | 0.60  |
| 16 | 2018 | Liu Shenhe, Li Jun, Li zepeng, <b>Zia ur Rehman</b> , Ting Xiandeng, Zhou zi chao, Yang li guo et. al., 2018, Effect of season and breed on physiological and blood parameters in buffaloes. J Dairy Res 85(02): 181-184<br>DOI: 10.1017/S0022029918000286                                                                                                                                                                                                             | 1.17  |
| 17 | 2018 | Farman Ullah, Dinesh Bhattarai, Zhangrui Cheng, Xianwei Liang, Tingxian Deng, <b>Zia Ur Rehman</b> , Hira Sajjad Talpur, Tesfaye Worku, .. and Shujun Zhang 2018, Comparative Analysis of V-Akt Murine Thymoma Viral Oncogene Homolog 3 (AKT3) Gene between Cow and Buffalo Reveals Substantial Differences for Mastitis: BioMed Research International, Volume 2018, 13 pages <a href="https://doi.org/10.1155/2018/1463732">https://doi.org/10.1155/2018/1463732</a> | 2.6   |
| 18 | 2018 | <b>Zia ur Rehman*</b> , Khan FA, Farmanullah, Talpur HS, Liu Q, Liu S, Yang L. 2018, Oncotarget, Transcriptome Profiling of Anti-müllerian Hormone Treated Preantral/Small Antral Mouse Ovary Follicles.                                                                                                                                                                                                                                                               | 5.1   |
| 19 | 2018 | Talpur HS, Chandio IB, Brohi RD, Worku T, <b>Rehman Z</b> , Bhattarai D, Ullah F, JiaJia L, Yang L. 2018. Research progress on the role of melatonin and its receptors in animal reproduction: A comprehensive review, 2018.<br>DOI=10.1111/rda.1318                                                                                                                                                                                                                   | 1.3   |
| 20 | 2018 | Dinesh Bhattarai, Tesfaye Worku, Rahim Dad, <b>Zia Ur Rehman</b> , Xiaoling Gong, Shujun Zhang. Mechanism of pattern recognition receptors (PRRs) and host pathogen interplay in bovine mastitis. Microbial Pathogenesis, 2018. DOI 10.1016/j.micpath.2018.04.010                                                                                                                                                                                                      | 2.4   |
| 21 | 2018 | Tesfaye Worku, Kai Wang, Duncan Ayers, Di Wu, <b>Zia Ur Rehman</b> , Hao Zhou, and Liguang Yang. Regulatory roles of ephrinA5 and its novel signaling pathway in mouse primary granulosa cell apoptosis and proliferation, Cell Cycle, <a href="https://doi.org/10.1080/15384101.2018.1456297">https://doi.org/10.1080/15384101.2018.1456297</a>                                                                                                                       | 3.53  |
| 22 | 2017 | Sher Bahadar Khan , Geng Zou , Ran Xiao , Yuting Cheng, <b>Zia Ur Rehman</b> , Sher Ali , Atta Muhammad Memon , Shah Fahad , Irshad Ahmad , Rui Zhou. Prevalence, quantification and isolation of pathogenic shiga toxin Escherichia coli O157:H7 along the production and supply chain of pork around Hubei Province of China. Microbial Pathogenesis 2017, Volume 115, February 2018, Pages 93–99                                                                    | 2.01  |
| 23 | 2017 | Tesfaye Worku, Dinesh Bhattarai, Duncan Ayers, Kai Wang, Chen Wang, <b>Zia ur Rehman</b> , Hira sajjad Talpur, Liguang Yang, 2017. Long Non-Coding RNAs: the New Horizon of Gene Regulation in Ovarian Cancer, Cell Physiol Biochem 2017; 44: 948-966. DOI 10.1159/000485395                                                                                                                                                                                           | 5.3   |
| 24 | 2017 | J. Li, Z. Li, S. Liu, <b>R. Zia</b> , A. Liang, L. Yang 2017. Transcriptome studies of granulosa cells at different stages of ovarian follicular development in buffalo, Animal Reproduction Science 187 (2017) 181–192.<br><a href="http://dx.doi.org/10.1016/j.anireprosci.2017.11.004">http://dx.doi.org/10.1016/j.anireprosci.2017.11.004</a>                                                                                                                      | 1.605 |

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|----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 25 | 2017 | Hira Sajjad Talpur, Tesfaye Worku, <b>Zia ur Rehman</b> , Rahim Dad, Dinesh Bhattarai, Iqra Bano, Farmanullah, Aixin Liang, Changjiu He, Liguang Yang. Knockdown of melatonin receptor 1 and induction of follicle-stimulating hormone on the regulation of mouse granulosa cell function, <i>Reproductive Biology</i> , 2017<br><a href="https://doi.org/10.1016/j.repbio.2017.10.005">https://doi.org/10.1016/j.repbio.2017.10.005</a> | 1.5   |
| 26 | 2017 | <b>Rehman ZU*</b> , Worku T, Davis JS, Talpur HS, Bhattarai D, Kadariya I, Hua G, Cao J, Dad R, Farmanullah, Hussain T, Yang L. Role and mechanism of AMH in the regulation of Sertoli cells in mice 2017. <i>J Steroid Biochem Mol Biol</i> . 2017 Nov;174:133-140. Doi: 10.1016/j.jsbmb.2017.08.011.                                                                                                                                   | 4.56  |
| 27 | 2017 | Rahim Dad Brohi, Li Wang, Hira Sajjad Talpur, Di Wu, Farhan Anwar Khan, Dinesh Bhattarai, <b>Zia-Ur Rehman</b> , F. Farmanullah and Li-Jun Huo 2017. Toxicity of Nanoparticles on the Reproductive System in Animal Models: A Review <i>Front. Pharmacol.</i> 8:606.doi: 10.3389/fphar.2017.00606                                                                                                                                        | 4.4   |
| 28 | 2017 | Rahim Dad Brohi, Li Wang, Najla Ben Hassine, Jing Cao, Hira Sajjad Talpur, Di Wu, Chun-Jie Huang, <b>Zia-Ur Rehman</b> , Dinesh Bhattarai, and Li- Jun Huo. 2017. Expression, Localization of SUMO-1, and Analyses of Potential SUMOylated Proteins in Bubalus bubalis Spermatozoa. <i>Frontiers in Physiology</i> doi: 10.3389/fphys.2017.00354                                                                                         | 4.031 |
| 29 | 2017 | Tesfaye Worku, <b>Zia Ur Rehman</b> , Hira Sajjad Talpur, Dinesh Bhattarai, Farman Ullah, Ngabu Malobi, Tesfaye Kebede and Liguang Yang. MicroRNAs: New Insight in Modulating Follicular Atresia: A Review. <i>Int. J. Mol. Sci.</i> 2017, 18, 333; doi:10.3390/ijms18020333                                                                                                                                                             | 3.3   |
| 30 | 2017 | Dinesh Bhattarai, Xing Chen, <b>Zia ur Rehman</b> , Xingjie Hao, Farman Ullah, Rahim Dad, Hira Sajjad Talpur, Ishwari Kadariya, Lu Cui, Mingxia Fan and Shujun Zhang. Association of MAP4K4 gene single nucleotide polymorphism with mastitis and milk traits in Chinese Holstein cattle, <i>Journal of Dairy Research</i> (2017) 84 76–79. doi:10.1017/S0022029916000832                                                                | 1.5   |
| 31 | 2016 | Hira Sajjad Talpur, Iqra Shafi, Rahim Dad, Dinesh Bhattarai, <b>Zia-ur- Rehman</b> , FarmanUllah, and Amir AmanUllah. Effects of supplementation of ferrous sulphate (iron) n the growth of hubbard broiler chicks, <i>Sci.Int.(Lahore)</i> ,28(5),4687-4692,2016                                                                                                                                                                        |       |
| 32 | 2016 | Q Liu, <b>ZU Rehman</b> , JJ Liu, L Han, XR Liu, LG Yang. Nasal immunization with inhibin DNA vaccine delivered by attenuated <i>Salmonella choleraesuis</i> for improving ovarian responses and fertility in cross-bred buffaloes, <i>Reproduction in Domestic Animal</i> DOI: 10.1111/rda.12876                                                                                                                                        | 1.2   |
| 33 | 2016 | KHAN, S. A., LIU, X., LI, H., ZHU, Y., FAN, W., ZHOU, P. & <b>REHMAN, Z. U.</b> 1H NMR-based serum metabolic profiling of <i>Carassius auratus gibelio</i> under the toxicity of Pb <sup>2+</sup> and Cd <sup>2+</sup> . <i>International Journal of Environmental Science and Technology</i> , 1-12.                                                                                                                                    | 2.34  |
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