

# Teka Khan (PhD in Biology)

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## Present Position: Postdoctoral Fellow

Interdisciplinary Reproduction and Health Group (IRHG)  
R. Michael Roberts Research Group  
College of Agriculture, Food and Natural Resources  
Division of Animal Sciences  
University of Missouri | 246 Bond Life Sciences Center  
1201 East Rollins Street | Columbia, Missouri 65211

## CONTACT

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## WORK EXPERIENCE

### 1. Teaching experience

- 2019 – 2020 **Assistant Professor in Zoology**  
Abbottabad University of Science and Technology, Abbottabad, Pakistan
- 2012 - 2014 **Lecturer in Biology**  
Federal Government Degree College, Nowshera, Pakistan
- 2009 - 2012 **Lecturer in Biology**  
Peshawar Model Degree College, Jamil choke, Peshawar, Pakistan
- 2007 - 2009 **Lecturer in Biology**  
Qurtuba College, Peshawar, Pakistan

### 2. Write-up experience

- 2019 – cont. **Academic writer and reviser**  
Nanjing Biomedical Services, Nanjing, China

## EDUCATION

- 2014 – 2018 **PhD (Genetics of human male infertility)**  
School of Life Science, University of Science and Technology of China
- 2009 – 2011 **MPhil (Animal Biotechnology)**  
Department of biotechnology and genetic engineering, Kohat University of Science and Technology, Kohat, Pakistan
- 2004 – 2007 **MSc (Zoology)**  
Department of Zoology, University of Peshawar, Pakistan Peshawar, Pakistan

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## HONORS AND AWARDS

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1. CAS-TWAS President Fellowships Program for PhD studies

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## RESEARCH STUDENTS SUPERVISED

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1. Supervised Theses of 12 masters students

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## CONFERENCES AND WORKSHOPS

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- 2019-10-07. **One day hands on training workshop "Bioinformatics: Converting data to Knowledge**  
Comsats University Islamabad (Abbottabad Campus)
- 2016-11-(3-6) **5<sup>th</sup> international conference and 2<sup>nd</sup> ASCB local meeting on cellular dynamics and chemical biology**  
University of Science and Technology of China
- 2006-04-(4-6). **26<sup>th</sup> international meeting of Zoological congress**  
University of Punjab, Pakistan

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## RESEARCH ACHIEVEMENTS

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- 1 – First Pakistani to isolate DNA from milk samples.
- 2 – Identified *PLCD1* missense mutation co-segregated with azoospermia and leukonychia with koilonychia
- 3- Identified *DNAH17* missense mutation causing asthenozoospermia in Pakistani family
- 4 – Functionally verified the effect of identified *DNAH17* mutation using mice model.

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## THESES TITLES

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1. **PhD thesis title:** Identification of variants causing infertility and leukonychia in Pakistani families
2. **MPhil thesis title:** Genetic diversity in local and exotic cattle breeds in Khyber Pakhtunkhwa Province Pakistan

## PUBLISHED ARTICLES

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- 1 Beibei Zhang, Hui Ma, **Teka Khan (Co-first author)**, Tao Li, Huan Zhang, Jianing Gao, Jianteng Zhou, Ao Ma, Yang Li, Changping Yu, Jianqiang Bao, Asim Ali, Hao Yin, Qian Gao, Xiaohua Jiang, Feng Zhang, Chunyu Liu, Ihsan Khan, Muhammad Zubair, Hafiz Muhammad Jafar Hussain, Ranjha Khan, Ayesha Yousaf, Limin Yuan, Yan Lu, Qizhao Tao, Qiaomei Hao, Hui Fang, Hongtao Cheng, Yuanwei Zhang, and Qinghua Shi (2019) "A DNAH17 missense variant causes flagella destabilization and asthenozoospermia" *Journal of experimental medicine* (Impact factor: 10.790).
- 2 **Teka Khan**, Manan Khan, Ayesha Yousaf, Saadllah Khan, Muhammad Naeem, Akram Shah, Ghulam Murtaza, Asim Ali, Nazish Jabeen, Hui Ma, Yuanwei Zhang, Muhammad Zubair, Xiaohua Jiang, and Huan Zhang, (2018) "Whole exome sequencing identifies a novel dominant missense in PLCD1 mutation underlying leukonychia in a Pakistani family" *Journal of Human Genetics*. (Impact factor: 2.942).
- 3 Hafiz Muhammad Jafar Hussain, Ghulam Murtaza, Ranjha Khan, Xiaohua Jiang, Manan Khan, Mian Basit Shah, Kakakhel, Teka **Khan**, Fazal Wahab, Huan Zhang, Zhang Yuanwei, Muhammad Bilal Khan, Parvez Ahmad, Hui Ma, Zhipeng Xu, (2019) "Whole exome sequencing revealed a novel nonsense variant in GNRHR gene causing normosmic hypogonadotropic hypogonadism in a Pakistani family" *Hormone Research in Paediatrics*; 91:1–8 (Impact Factor: 2.103).
- 4 Long Jiang, Tao Li, Xiaohua Jiang, Beibei Zhang, Changping Yu, Yang Li, Suixing Fan, Xiaohua Jiang, **Teka Khan**, Qiaomei Hao, Peng Xu, Daita Nadano, Mahmoud Huleihel, Eitan Lunenfeld, P. Jeremy Wang, Yuanwei Zhang, and Qinghua Shi, (2017) "Rpl10l is required for male meiotic division by compensating for rpl10 during meiotic sex chromosome inactivation in mice" *Current Biology* 27: 1498-1505. (Impact Factor: 9.251).
- 5 Shi Yin, Xiaohua Jiang, Hanwei Jiang, Qian Gao, Fang Wang, Suixing Fan, **Teka Khan**, Nazish Jabeen, Manan Khan, Asim Ali, Peng Xu, Tej K. Pandita, Heng-Yu Fan, Yuanwei Zhang and Qinghua Shi, (2017) "Histone acetyltransferase KAT8 is essential for mouse oocyte development by regulating reactive oxygen species levels" *Development*, 144: 2165-2174 (Impact Factor: 5.413).
- 6 Manan Khan, Nazish Jabeen, **Teka Khan**, Hafiz Muhammad Jafar Hussain, Asim Ali, Ranjha Khan, Long Jiang, Tao Li, Qizhao Tao, Xingxia Zhang, Hao Yin, Changping Yu, Xiaohua Jiang, and Qing-Hua Shi, (2018), "The evolutionarily conserved genes: Tex37, Ccdc73, Prss55 and Nxt2 are dispensable for fertility in mice" *Scientific Reports*, 8:4975 (Impact Factor:4.122)
- 7 Hao Yin, Hui Ma, Sajjad Hussain, Huan Zhang, Xuefeng Xie, Long Jiang, Xiaohua Jiang, Furhan Iqbal, Ihtisham Bukhari, Hanwei Jiang, Asim Ali, Liangwen Zhong, Tao Li, Suixing Fan, Beibei Zhang, Jianing

Gao, Yang Li, Jabeen Nazish, **Teka Khan**, Manan Khan, Muhammad Zubair, Qiaomei Hao, Hui Fang, Jun Huang, Mahmoud Huleihel, Jiahao Sha, Yuanwei Zhang and Qinghua Shi, (2018) "A homozygous FANCM frameshift mutation causes male infertility" *Genetics in Medicine*. (Impact Factor: 9.937).

8 Hanwei Jiang, Qian Gao, Wei Zheng, Shi Yin, Liu Wang, Liangwen Zhong, Asim Ali, **Teka Khan**, Qiaomei Hao, Hui Fang, Xiaoling Sun, Peng Xu, Tej K. Pandita, Xiaohua Jiang, Qinghua Shi " MOF influences meiotic expansion of H2AX phosphorylation and spermatogenesis in mice" *PLOS Genetics*, 14:5 (Impact Factor: 5.540).

9 Zhu Huang, Manan Khan, Jianze Xu, **Teka Khan**, Hui Ma, Ranjha Khan, Hafiz Muhammad Jafar Hussain, Xiaohua Jiang, Qinghua Shi (March 22, 2019) "deubiquitinating gene Usp29 is dispensable for fertility in male mice" *Science China Life Sciences*, (Impact Factor 3.085).

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