教授名录

张坤

动物遗传育种学科

返回顶部基本信息

姓 名	张坤		
职 称	研究员		
导师类别	博士生导师		
招生方向	动物早期胚胎发育，动物表观遗传学，动物基因编辑		
联系方法	电话	0571-88982506	
	Email	kzhang@zju.edu.cn	

个人网页链接：mypage.zju.edu.cn/zhangkun/0.html
实验室网页链接：dairyscience.zju.edu.cn/index2.html

教育与工作经历

2000年9月-2004年7月 本科毕业于中国农业大学动物科技学院
2004年9月-2007年7月 研究生，中国农业大学生物学院李宁教授实验室
2007年8月-2011年7月 博士，美国佛罗里达大学动物科学系
2011年7月-2013年7月 博士后，美国马萨诸塞大学兽医及动物科学系
2013年8月-2015年7月 助理教授，美国密歇根州立大学动物科学系

研究领域和兴趣

主要从事动物生殖生物学、细胞和胚胎工程相关的应用基础研究，尤其关注哺乳动物早期胚胎发育调控机制

学术职位

国际生殖生物学协会会员（Society for the Study of Reproduction, Full member）
国际胚胎移植大会会员（International Embryo Transfer Society）
中国畜牧兽医学会动物繁殖学分会理事
浙江大学学报《农业与生命科学版》编委

主要获奖情况

Lalor Foundation Merit Award
Trainee Research Award Finalist
Larry Ewing Memorial Trainee Travel Fund (LEMTTF) from SSR (2011和 2012年)
USDA NIFA NRI Merit Award from SSR

国家优秀自费留学生奖学金
2008年度，参与完成的成果“体细胞克隆猪和转基因体细胞克隆猪技术平台的建立与应用”，获得神农中华奖一等奖（第十五完成人）
佛罗里达大学校友奖学金

发表文章

Zhang K（通讯）, Wang H, Rajput SK, Folger JKand Smith GW.Characterization of H3.3 and HIRA e and function in bovine early embryos. **Molecular Reproduction and Development**. 2018 Feb; 85(2

Wallingford MC, Hiller J, **Zhang K**, Mager J. YY1 is required for post-transcriptional stability of SOX2 OCT4 proteins. **Cellular Reprogramming**. 2017 Aug;19(4):263-269.

Ding B#, Cao ZB#, Hong RY, Li H, XY Zuo, Luo L, Li YS, Huang WP, Li WY, **Zhang K**（通讯）and Zha YH（通讯）. WDR5 in porcine preimplantation embryos: expression, regulation of epigenetic modifi and requirement for early development. **Biology of Reproduction.** 2017 Apr 1;96(4):758-771. (# ec contribution)

Hand JM, **Zhang K**, Wang L, Koganti PP, Mastrantoni K, Rajput SK, Ashry M, Smith GW, Yao JB. Dis a novel oocyte-specific Krüppel-associated box domain-containing zinc finger protein required for embryogenesis in cattle. **Mechanisms of Development.** 2017 Apr;144(Pt B):103-112.

Cui W, Dai XP, Marcho C, Han ZB, **Zhang K**, Tremblay K, and Mager J . Towards Functional Annota the Preimplantation Transcriptome: An RNAi Screen in Mammalian Embryos. **Scientific Reports**. 2(21;6:37396.

Zhang K（通讯）, Rajput SK, Wang SH, Folger JK, Knott JG, and Smith GW. CHD1 Regulates Depos Histone Variant H3.3 During Bovine Early Embryonic Development. **Biology of Reproduction.** 201(Oct;94(6):140

Yang QE, Ozawa Manabu, **Zhang K**, Johnson SE, Ealy AD. The requirement for protein kinase C de (PRKCD) during preimplantation bovine embryo development.**Reproduction, Fertility and Develo** 2016 Mar;28(4):482-90.

Wang SH, **Zhang K**（通讯）, Dai YP（通讯）. Advances in genetic engineering of domestic animals **Frontiers of Agricultural Science and Engineering**. 2016 March; 3(1):1-10; Cover Picture

Cui W, Pizzollo J, Han Z, Marcho C, **Zhang K**, Mager J.Nop2 is required for mammalian preimplant development. **Molecular Reproduction and Devevlopment**. 2016 Feb;83(2):124-31.

Zhang K, Rajput SK, Lee KB, Wang DL, Huang JC, Folger JK, Knott JG, Zhang JZ, and Smith GW. Evi Supporting a Role for SMAD2/3 in Bovine Early Embryonic Development: Potential Implications for Embryotropic Actions of Follistatin. **Biology of Reproduction.** 2015 Oct;93(4):86

Zhang K（通讯）and Smith GW. Maternal control of early embryogenesis in mammals. **Reproduct Fertility and Development**. 2015 27(6) 880-896

Ashry M, Lee KB, Mondal M, Datta TK, Folger JK, Rajput SK, **Zhang K**, Hemeida NAand Smith GW. Expression of TGFβ superfamily components and other markers of oocyte quality in oocytes selecte brilliant cresyl blue staining: Relevance to early embryonic development. **Molecular Reproduction Devevlopment** 2015 Mar;82(3):251-64.

Washkowitz AJ, Schall C, **Zhang K**, Wurst W, Floss T, Mager J, and Papaioannou VE. Mga is essentia survival of pluripotent cells during peri-implantation development. **Development** 2015 142:31-40

Lee KB#, **Zhang K#**, Folger JK, Knott JG, Smith GW. Evidence supporting a functional requirement o for bovine preimplantation embryonic development: A potential link to embryotropic actions of follistatin.**Biology of Reproduction.** 2014, 91(3):62 (# equal contribution)

Lee KB, Wee G, **Zhang K**, Folger JK, Knott JG, Smith GW. Functional role of the bovine oocyte-speci protein JY-1 in meiotic maturation, cumulus expansion and subsequent embryonic development. **B Reproduction** 2014 Mar 27;90(3):69

Zhang K, Dai X, Trask MC and Mager J. Depletion of Suds3 reveals an essential role in early lineage specification. **Developmental Biology**, 373(2):359-72 (2013) **Cover picture**

Zhang K, Harversat JM, Mager J. CTR9/PAF1c regulates molecular lineage identity, histone H3K36 trimethylation and genomic imprinting during preimplantation development. **Developmental Biol** 383(1):15-27 (2013).

Zhang K, Ealy AD. Disruption of FGF signaling in COCs impacts oocyte maturation and developmer competence in vitro. **Domestic Animal Endocrinology**, 42(4):230-8 (2012)

Zhang K, Ealy AD. Supplementing fibroblast growth factor 2 during bovine in vitro maturation pror subsequent embryonic development. **Open Journal of Animal Sciences**, 2(2): 119-26 (2012)

Zhang K, Hansen PJ, Ealy AD. Fibroblast growth factor 10 enhances bovine oocyte maturation and developmental competence in vitro. **Reproduction** 140: 815-826 (2010)

Yang QE, Fields SD, **Zhang K**, Ozawa M, Johnson SE and Ealy AD. FGF2 promotes primitive endode development in bovine blastocysts. **Biology of Reproduction** 85(5):946-53 (2011)

Zhang K, Ma YF, Wang SH, Lou YK, Wei HX, Sun XZ, Sun GJ, Zhao YH, Li Y, Dai YP, Zhang L, Li N. E Leptin supplementation in in vitro maturation medium on meiotic maturation of oocytes and preimplantation development of parthenogenetic and cloned embryos in pigs. **Animal ReproductionScience** 101(1-2):85-96 (2007)

Zhang K, Wei HX, Zhang YH, Wang SH, Li Y, Dai YP and Li N. Effects of Ghrelin on in vitro develop porcine in vitro fertilized and parthenogenetic embryos. **Journal of Reproduction and Development** 53(3):647-53 (2007)

Zhang K, Zhang YH, Pan DK, Ma YF, Wei HX, Zhang J, Li XY, Wang SH, Li Y, Dai YP and Li N. Seasor influence on the development of parthenotes and cloned embryos in pigs. **Progress in Natural Sciences** 17(10): 1172-1176 (2007)

Wang SH, **Zhang K**, Ding FR, Zhao R, Li S, Li R, Xu LL, Song C, Dai YP, and Li N. A novel promoterles targeting vector to efficiently disrupt prnp gene in cattle.**Journal of Biotechnology**163(4):377-85 (

Wang SH, Lv XQ, **Zhang K**, Lin TH, Liu XF, Yuan J, Dai YP, Li N. Knockdown of the prion gene expre RNA interference in bovine fibroblast cells. **Molecular Biology Report**37:3193–3198 (2010)

Ma YF, Li Y, Wei HX, Li QY, Fang R, Zhao R, **Zhang K**, Xue K, Lou YK, Dai YP, Lian LS and Li N. Effect chemical activation and season on birth efficiency of cloned pigs. **Science in China C: Life Sciences** 52(7):657-64 (2009)

Wang SH; Sun XZ; Ding FR; **Zhang K**; Zhao R; Li S; Tang B; Li R; Zhang L; Liu Y; Li J; Gao FL; Wang H LL; Dai YP, Li N. Removal of selectable marker gene from fibroblast cells in transgenic cloned cattle transient expression of CRE recombinase and subsequent effects on recloned embryo development.**Theriogenology** 72(4): 535-541 (2009)

Wei HX, **Zhang K**, Ma YF, Li Y, Li QY, Dai YP and Li N. Stage-dependent effect of Leptin on develop porcine embryos derived from parthenogenetic activation and transgenic somatic cell nuclear transfer.**Journal of Reproduction and Development**55(2):99-104 (2009)

Dang YN, **Zhang K**（通讯）. Factors affecting early embryonic development in cattle: relevance for cloning. **Frontiers of Agricultural Science and Engineering**. Accepted.

王少华，赵盼盼，刘通，丁彪，罗磊，曹祖兵，张运海，张坤（通讯）.利用CRISPR/Cas9n技术生产抗蓝耳 编辑克隆猪. 浙江大学学报（农业与生命科学版）.已接受

王涵，赵盼盼，张坤（通讯）. 哺乳动物着床前胚胎中细胞系的分化以及调控机制. 浙江大学学报（农业与生 版）.已接受