

## 王华岩

网站简介链接地址:

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姓名	王华岩	性别	男	
学科专业	动物生物技术系	联系信箱	hhwang101@163.com	
出生日期	1956. 11	籍贯	北京	
教授级别	三级	毕业院校	爱尔兰都柏林大学	
研究方向:	<ol style="list-style-type: none"><li>1. 细胞重编程，采用多能因子诱导成体细胞重编程为 iPS 细胞，将 iPS 技术应用到动物转基因和分子育种；胚胎早期发育的基因调控原理；</li><li>2. 胚胎干细胞的自我更新和多能性维持，及其调控网络；</li><li>3. 干细胞的表观遗传调控，及其对多能因子的甲基化修饰；</li></ol>			
个人简历:	<p>王华岩，博士，教授（教师三级），分子生物学和细胞生物学研究方向博士生导师。1982 年西北农业大学兽医学本科。1985 年北京农业大学生物学院动物生物化学硕士。1985-1987 任中国农业大学生物学院动物生物化学专业讲师。1991 年爱尔兰都柏林大学三一学院遗传系分子遗传学博士。1992-1997 年加拿大阿尔伯特大学医学院临床医学系博士后。2006 年秋至今，西北农林科技大学动物医学院教授，博士生导师，担任陕西省干细胞工程技术研究中心主任、西北农林科技大学转基因动物研究中心副主任、动物医学院动物生物技术学科点主任等工作。受聘为《农业生物技术学报》、《动物医学进展》杂志的编委，国家自然科学基金委员会生命科学部专家评审委员，国际干细胞研究协会会员。目前主持的国家科研课题包括：国家自然科学基金、国家重大基础研究(973)项目子课题、国家“863”</p>			

计划子课题、国家转基因动植物新品种培育课题等。主要研究方向为动物干细胞工程、动物胚胎工程、诱导 iPS 技术的应用、转基因动物克隆等。培养硕士研究生 26 人，博士研究生 12 人。已发表 SCI 收录论文 60 多篇，申请国家专利 6 项。

2008 年以来发表的相关论文：

Wenwen Jia, Weifeng Yang, Anmin Lei, Zhimin Gao, Chunrong Yang, Jinlian Hua, Weiwei Huang, Xiaoling Ma, Huayan Wang\*. A caprine chimera produced by injection of embryonic germ cells into a blastocyst. *Theriogenology* 2008 69 (3): 340-348

Lei Lei, Lin Dou, Huayan Wang\*. Knock-down Nanog gene expression by siRNA affects the differentiation of cardiomyocytes in P19 cell. *Cell Research* 2008, 18: s36

Xiuju Li, Lei Lei, Huayan Wang, L. Fliegel. The Na<sup>+</sup>/H<sup>+</sup> Exchanger Isoform 1 Facilitates Cardiomyocyte Embryonic Stem Cell Differentiation. *Am. J. Physiol. - Heart Circ Physiol.* 2009, 296: H159-H170.

Lei Qu, Xueyi Yang, Xin Wang, Ming Zhao, Shengli Mi, Zhongying Dou, Huayan Wang\*. Reconstruction of corneal epithelium with cryopreserved corneal limbal stem cells in a rabbit model. *The Veterinary Journal.* 2009, 179: 392-400.

Wang Han, Dou Zhong-Ying, Wang Huayan\*. Growth and identification of human amniotic fluid stem cells and analysis of their influencing factors. *Chinese Journal of Agricultural Biotechnology* 2009, 6(1):75-79

Renjith Mathew, Wenwen Jia, Arati Sharma, Yuanjun Zhao, Loren E.

代表性论著：

Clarke, Xiang Cheng, Huayan Wang, Ugur Salli, Kent E. Vrana, Gavin P. Robertson, Jiyue Zhu, and Shuwen Wang. Robust activation of the human but not mouse telomerase gene during the induction of pluripotency. *The FASEB Journal*. 2010, 24 (8):2702–2715.

Jia Li, Caroline Romestaing, Xianlin Han, Yuan Li, Xinbao Hao, Yinyuan Wu, Chao Sun, Xiaolei Liu, Leonard S. Jefferson, Jingwei Xiong, Kathryn F. LaNoue, Zhijie Chang, Christopher J. Lynch, Huayan Wang, Yuguang Shi. Cardiolipin Remodeling by ALCAT1 Links Oxidative Stress and Mitochondrial Dysfunction to Obesity. *Cell Metabolism*, 2010, 12:154–165.

Junhe Hu, Xiaolin Ma, Jian Chang Bao, Li Wei, De Chen, Zhimin Gao, Anmin Lei, Chunrong Yang, Huayan Wang\*. FSH Is Superior to eCG for Promoting Ovarian Response In Chinese Bamei Gilts. *Animal reproduction Sciences* 2010, 122:313–316.

Junhe Hu, Xiaolin Ma, Jian Chang Bao, Li Wei, De Chen, Zhimin Gao, Anmin Lei, Chunrong Yang, Huayan Wang\*.

Insulin - tranferrin - selenium (ITS) Improves Porcine Oocyte Maturation In Vitro. *Zygote* 2011, 19:191–197

Wenwen Jia, Shuwen Wang, James W. Horner, Ning Wang, HuayanWang, Edward J. Gunther, Ronald A. DePinho, and Jiyue Zhu. A BAC transgenic reporter recapitulates in vivo regulation of human telomerase reverse transcriptase in development and tumorigenesis. *The FASEB Journal*. 2011, 25: 979–989

Sha Peng, Jinlian Hua, Huayan Wang\*. Gelatin Induces Trophectoderm Differentiation of Mouse Embryonic Stem Cells. *Cell Biology International* 2011, 35(6):587 - 591

Wenwen Jia, De Cheng, Shuai Chen, Lei Lei, Huayan Wang\*. Retinoic acid induces myoblasts transdifferentiation into premeiotic stra8-positive cells. *Cell Biology International* 2011, 35(4):356-372

Jiahuan Chen, Zhijuan Lu, De Cheng, Sha Peng, Huayan Wang\* Isolation and Characterization of Porcine Amniotic Fluid-Derived Multipotent Stem Cells. *PLoS One* 2011, 6(5): e19964.

Lei Lei, Dou Lin, Wang Huayan\*. The Defined siRNAs Suppress Nanog and Sox2 Expressions in Mouse ES Cells. *Agricultural Sciences in China* 2011, 10(9):1475-1481.

Xiang Cheng, Shuyan Meng, Jie Deng, Weifeng Lai, Huayan Wang\* Identification and characterization of the Oct4 extended transcriptional regulatory region in Guanzhong dairy goat. *Genome*, 2011, 54(10):812-818

Xiang Cheng, Jie Deng, Junhua Li, Cuiqin Han, Zhijuan Lu, Huayan Wang\*. Overexpression Of Translationally Controlled Tumor Protein (TCTP) Can Down-Regulate Oct4 Gene Expression In Mouse P19 Cells. *BMB report*, 2012, 45(1):20-25.

Jia Li, Jie Deng, Junlin Zhang, Shan Yu, De Cheng, Huayan Wang\* The virtual element in proximal promoter of porcine myostatin gene is regulated by myocyte enhancer factor 2C. *BBRC* 2012, 419 :175-181

Junhe Hu, De Cheng, Jianchang Bao, Xing Gao, Xiaoling Ma, Huayan

Wang\* Vitamin C Enhances the In vitro Development of Porcine Pre-implantation Embryos by Reducing Oxidative Stress. *Reprod Domest Anim* 2012, (online) doi: 1439-0531.2011.01982. x.

Xiang Cheng, Shuai Chen, Pengsheng Zheng, Huayan Wang\*. BMP15 Gene is Activated during Human Amniotic Fluid Stem Cell Differentiation into Oocyte-Like Cells. *DNA and Cell Biology* 2012, (online) DOI: 10.1089/dna.2011.1396

Xiang Cheng, Huayan Wang\* Multiple targeting motifs direct NRAMP1 into lysosomes. *BBRC* 2012, (online) doi:10.1016/j.bbrc.2012.02.078

Jia Li, Xiaolei Liu, Huayan Wang, Weiping Zhang, David C. Chan, and Yuguang Shi. Cardiolipin Remodeling by ALCAT1 Controls Mitochondrial Biogenesis and mtDNA Fidelity through Modulation of MFN2 Expression. *PNAS* 2012 (online)

Junlin Zhang, Yulei Wei, Xiang Cheng, Huayan Wang\* Transgenic Expression Of The Hybrid Peptide CAMA-Syn In Mammalian Cells: The Antimicrobial Potential Against Gram Negative And Positive Bacteria. *Journal of Animal and Veterinary Advances* 2012 (online)

科研项目:

1. 干细胞调控与细胞去分化研究, 学校引进人才计划, 2006-2008;
2. 建立山羊诱导型多能干细胞系的研究, 国家自然科学基金, 2009-2011;
3. 家畜胚胎干细胞技术研究, “863”计划, 2009-2011;
4. 转基因新技术新方法研究, 转基因重大专项, 2008-2010;
5. 抗病转基因牛新品种培育, 转基因重大专项, 2009-2011;
6. 猪诱导多能干细胞 (iPS) 及其分化发育研究, “973”计划,

	<p>2009-2013</p> <p>7. iPS 猪的规模化高效创建, “973” 计划, 2011-2015</p>
荣誉及奖项:	
社会兼职:	<p>1) 国际干细胞研究协会会员 (国际, 2006- )</p> <p>2) 中国农业生物技术学会动物生物技术分会会员 (中国, 2006- )</p> <p>3) 北美中国人生物医药协会会员 (美国, 2001- )</p> <p>4) 加拿大细胞及分子生物学学会会员 (加拿大, 1993-1998)</p> <p>5) 生物化学学会会员 (英国, 1988-1992)</p> <p>国际专业杂志特邀审稿人</p> <p>Cell reprogramming</p> <p>PLoS One</p> <p>BBRC</p> <p>Journal of Cellular Physiology</p> <p>Journal of Cellular and Molecular Medicine</p> <p>Cell Research</p>
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