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干细胞生物学

个人简介：

南京大学医学院党委书记，博士，组织胚胎学教授，博士生导师。1984年毕业于南京大学生物系，获学士学位；1987年于南京大学生物系获硕士学位；2004年于南京大学生命科学院获博士学位。2001年，作为高级访问学者赴美国哈佛大学医学院Beth Israel Deaconess Medical Center开展合作研究。长期从事生殖生物学、干细胞生物学研究，主持并参与国家自然科学基金、国家“973计划”、教育部博士点基金、江苏省自然科学基金等研究项目，在国内外学术刊物共发表论文100余篇。主持“文、理、医结合七年制临床医学专业人才培养模式的优化与创新”、“组织胚胎学多媒体课程建设”、“生殖生物学研究生核心课程建设”等教学改革项目，参编“生殖病理学”、“组织胚胎学”教材，2010年获南京大学“我最喜爱的教师”称号。任江苏省高等学校医药教育研究会副理事长，江苏省解剖学会副理事长，江苏省制冷学会冷冻医疗专业委员会主任。

代表性成果（专业成果、学术论文、学术专著等）：

- 【1】Feng Ying, Chao Ding, Rong Ge, Xueting Wang, Fangjie Li, Yangheng Zhang, Qiuqiong Zeng, Bin Yu, Rong Ji*, **Xiaodong Han***. Comparative evaluation of nonylphenol isomers on steroidogenesis of rat Leydig Cells. *Toxicology in Vitro*. 2012, 26:1114 - 1121.
- 【2】Guichun Huang, Haizhu Song, Rui Wang, **Xiaodong Han***, Longbang Chen*. The relationship between RGS5 expression and cancer differentiation and metastasis in non-small cell lung cancer. *J Surg Oncol*. 2012, 105(4):420-4.
- 【3】Yuan Zhou, Jintao Yuan, Jiang Wu, **Xiaodong Han***. The toxic effects of microcystin-LR

on rat spermatogonia in vitro. Toxicology Letters. 2012, 212:48-56.

【4】 Yan Li, **Xiaodong Han***. Microcystin-LR Causes Cytotoxicity

effects in rat testicular Sertoli cells. Environmental Toxicology and Pharmacology. 2012, 33:318-326.

【5】 Yang Hu, Dongmei Li*, **Xiaodong Han***. Analysis of combined effects of nonyl phenol and Monobutyl phthalate on rat Sertoli cells applying two mathematical models. Food and Chemical Toxicology. 2012, 50:457-463.

【6】 Wang YH, **Han XD***, Qiu Y*, Xiong J, Yu Y, Wang B, Zhu ZZ, Qian BP, Chen YX, Wang SF, Shi HF, Sun X. Increased expression of insulin-like growth factor-1 receptor is correlated with tumor metastasis and prognosis in patients with osteosarcoma. J Surg Oncol. 2012, 105(3):235-43.

【7】 Xueting Wang, Feng Ying, Yu Chen, **Xiaodong Han***. Microcystin (-LR) Affects Hormones Level Of Male Mice By Damaging Hypothalamic- Pituitary System. Toxicon. 2012, 59:205-214.

【8】 Zhaorui Sun, Yajing Wang, Xuemin Gong, Hang Su, **Xiaodong Han***. The secretion of rat tracheal epithelial cells induces mesenchymal stem cells to differentiate into epithelial cells. Cell Biology International. 2012, 36(2):169-175.

【9】 Yu Chen, Jun Xu, Yan Li, **Xiaodong Han***. Decline of sperm quality and testicular function in male mice during chronic low-dose exposure to microcystin-LR. Reproductive Toxicology. 2011, 31:551-557.

【10】 Jiang Wu, Xiaoyi Wang, Feng Ying, Guanjiu Hu, Xueting Wang, Dongmei Li, Hongxia Yu, **Xiaodong Han***. In vitro assessment of reproductive toxicity on rats induced by organic contaminants of source water. Ecotoxicology and Environmental Safety. 2011, 74:1756-1764.

【11】 Dongmei Li, Yang Hu, Xiahong Shen, Xinjue Dai and **Xiaodong Han***. Combined effects of two environmental endocrine disruptors nonyl phenol and di-n-butyl phthalate on rat Sertoli cells in vitro. Reproductive Toxicology. 2010, 30:438-445.

【12】 Y. Wang, Z.-W. Wu, L.-F. Zhang, X.-K. Wu, L. Yi and **X.-D. Han*** Effects of Ureaplasma urealyticum infection on the male reproductive system in experimental rats. Andrologia. 2010, 42: 297 - 301.

【13】 Wu Jiang, Fuqiang Wang, Gong Yi, Li Dongmei, Jiahao Sha, Xiaoyan Huang and **Han Xiaodong***. Proteomic analysis of changes induced by nonylphenol in Sprague Dawley rat Sertoli cells. Chemical Research in Toxicology. 2009, 22:668-675.

【14】 Li Dongmei, G Yi, Y Chun-tao, H Yu-feng and **Han Xiaodong***. Effects of subchronic methyl tert-butyl ether exposure on male Sprague-Dawley rats. Toxicology and Industrial Health. 2009, 22:668-675.

【15】 Gong Yi, Wu Jiang, Yufeng Huang, **Han Xiaodong ***. Nonylphenol induces apoptosis in rat testicular Sertoli cells via endoplasmic reticulum stress. Toxicology Letters. 186 (2009) 84-95. 2009, 186:84-95.

【16】 Dongmei Li, Qin Liu, Gong Yi, Yufeng Huang, **Xiaodong Han***. Cytotoxicity and Oxidative Stress Study in Cultured Rat Sertoli Cells with Methyl tert-butyl ether (MTBE) Exposure. Reproductive Toxicology. 2009, 27: 170-176.

【17】 Yajing Wang, Zhaorui Sun, Xuefeng Qiu, Yan Li, Jizheng Qin, **Xiaodong Han***. Roles of Wnt/ β -Catenin signaling in epithelial differentiation of mesenchymal stem cells. Biochemical and Biophysical Research Communications. 2009, 390:1309-1314.

【18】 Jiang Wu, Guanjiu Hu, Xiaoyi Wang, Dongmei Li, Hongxia Yu, **Xiaodong Han*** The reproductive toxicity of organic compounds extracted from drinking water sources on Sprague

- 【19】 Gong Yi, XuPing Pan, Yufeng Huang, ZiShen Gao, HongXia Yu, **Han Xiaodong*** . NP-induced biophysical and biochemical alterations of rat testicular Sertoli cell membranes related to disturbed intracellular Ca(2+) homeostasis. Toxicology Letters. 2008, 183: 10-20.
- 【20】 Li Yan, Shen Jie, Sha Jiahao, **Han Xiaodong***. The toxic effects of microcystin-LR on the reproductive system of male rats in vivo and in vitro. Reproductive Toxicology. 2008, 26: 239-45.
- 【21】 Dongmei Li, Chuntao Yuan, Yi Gong, Yufeng Huang , **Han Xiaodong***. The effects of methyl tert-butyl ether (MTBE) on the male rat reproductive system. Food and Chemical Toxicology 2008, 46: 2402 - 2408.
- 【22】 Yajing Wang, Chang Chen, Tao Wu, Jing Xu, **Xiaodong Han***. Methyl tert-butyl ether(MTBE) induced Ca2+-dependent cytotoxicity in isolated rabbit tracheal cells. Toxicology in Vitro. 2008, 22:1734-1741.
- 【23】 Chuntao Yuan, Xuping Pan, Yi Gong, Aijun Xia, Jianqing Tang, Guanghong Wu, **Xiaodong Han***. Effect of Astragalus polysaccharides(APS)on the expression of immune response genes in head kidney, gill and spleen of the common carp, Cyprinus carpio L. International Immunopharmacology. 2008, 8: 51-58.
- 【24】 Dongmei Li, Daqiang Yin, **Han Xiaodong ***. methyl tert-butyl ether(MTBE)- induced cytotoxicity and oxidative stress in isolated rat spermatogenic cells. Journal of Applied Toxicology. 2007, 27: 10-17.
- 【25】 Chuntao Yuan, Dongmei Li, Wei Chen, Fangfang Sun, Guanghong Wu, Yi Gong, Jianqing Tang, Meifang Shen, **Xiaodong Han*** .Administration of the herbal immunoregulation mixture (HIRM) enhances some immune parameters in carp (Cyprinus carpio) . Fish Physiology and Biochemistry . 2007, 33:93-101.
- 【26】 Guanghong Wu, Chuntao Yuan, Meifang Shen, Jianqing Tang, Yi Gong, Dongmei Li, Fangfang Sun, Cheng Huang, **Xiaodong Han***. Immunological and biochemical parameters in carp (Cyprinus carpio) after Qompsell feed ingredients for long-term administration. Aquaculture research. 2007, 38:246-255.
- 【27】 Gong Yi, **Han Xiaodong***. Nonylphenol-induced oxidative stress and cytotoxicity in testicular Sertoli cell. Reproductive Toxicology. 2006, 22: 623-630.
- 【28】 Li Dongmwi, **Han Xiaodong***. Evaluation of toxicity of methyl tert-butyl ether (MTBE) on mouse spermatogenic cells in vitro. Toxicology and Industrial Health. 2006, 22: 291-299.
- 【29】 Gong Yi, **Han Xiaodong***. Effect of Nonylphenol on Steroidogenesis of Rat Leydig cells. Journal of Environmental Science and Health Part B. 2006, 41: 705-715.
- 【30】 Shuzhen Yang, **Han Xiaodong ***. Chen Wei, Jianxiu Chen and Daqiang Yin. The toxic effects of pentachlorophenol on rat Sertoli cells in vitro. Environmental Toxicology and Pharmacology. 2005, 20: 182-187.
- 【31】 **Han Xiaodong***, Zhi G. Tu, Yi Gong , Su N. Shen, Xu Y. Wang, Li N. Kang, Ya Y. Hou, Jian X. Chen. The toxic effects of nonylphenol on the reproductive system of male rats. Reproductive Toxicology. 2004, 19: 215-221.
- 【32】 **Han Xiaodong***, Z. Tu, X. Wang, S. Shen. NP induced apoptosis in rat testis through Fas/FasL pathway. Bulletin of Environmental Contamination and Toxicology. 2004, 73 (4) : 620-627.

科研项目：

- 【1】 国家自然科学基金项目（20577019）：环境内分泌干扰物烷基酚生殖毒性风险评估标准的探索
- 【2】 国家自然科学基金项目（30970530）：微囊藻毒素低剂量长时间暴露对雄性大鼠生殖系统的影响及其机制研究
- 【3】 国家自然科学基金项目（81170054）：调控Wnt信号通路对特发性肺纤维化发生发展影响的研究
- 【4】 江苏省科技厅（BS2007050）：饮用水源地有机毒物监控及其健康损害预警联动技术研究
- 【5】 国家重点基础研究发展计划“973”计划（2007CB815603）：微生物群落分解矿物的机理及其对生态环境的影响

获奖情况：

- 【1】 2010年获南京大学“我最喜爱的教师”称号
- 【2】 2011年度获“南京大学石林奖教金”
- 【3】 获首届全国大学生基础医学创新论坛暨实验设计大赛三等奖2项、优秀奖1项（指导教师）

学术兼职情况：

- 【1】 江苏省高等学校医药教育研究会副理事长
- 【2】 江苏省解剖学会副理事长
- 【3】 江苏省制冷学会冷冻医疗专业委员会主任
- 【4】 “中华男科学杂志”编委