



# 干细胞与生殖生物学国家重点实验室

## State Key Laboratory of Stem Cell and Reproductive Biology

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2003年

1. Quan HM, Meng XQ, Hou Y, Sun QY: Sperm penetration of immature and maturing oocytes does not affect phosphorylation of mitogen-activated protein kinase in pigs. *Reprod Fertil Dev* 15(7-8):383, 2003.
2. Fan HY, Tong C, Lian L, Li SW, Gao WX, Cheng Y, Chen DY, Schatten H, Sun QY: Characterization of ribosomal S6 protein kinase p90rsk during meiotic maturation and fertilization in pig oocytes: mitogen-activated protein kinase-associated activation and localization. *Biol Reprod* 68(3):968, 2003.
3. Sun QY: Cellular and molecular mechanisms leading to cortical reaction and polyspermy block in mammalian eggs. *Microsc Res Tech* 61(4):342, 2003.
4. Zhu ZY, Chen DY, Li JS, Lian L, Lei L, Han ZM, Sun QY: Rotation of meiotic spindle is controlled by microfilaments in mouse oocytes. *Biol Reprod* 68(3):943, 2003.
5. Wang WH, Day BN, Wu GM: How does polyspermy happen in mammalian oocytes? *Microsc Res Tech* 61(4):335, 2003.
6. Zhang ZH, Zhou XC, Wei P, Hu ZY, Liu YX: Expression of Bcl-2 and Bax in rhesus monkey testis during germ cell apoptosis induced by testosterone undecanoate. *Arch Androl* 49(6):439, 2003.
7. Ma W, Hou Y, Sun QY, Sun XF, Wang WH: Localization of centromere proteins and their association with chromosomes and microtubules during meiotic maturation in pig oocytes. *Reproduction* 126(6):731, 2003.
8. Han ZM, Chen DY, Li JS, Sun QY, Wang PY, Du J, Zhang HM: Flow cytometric cell-cycle analysis of cultured fibroblasts from the giant panda, *Ailuropoda melanoleuca* L. *Cell Biol Int* 27(4):349, 2003.
9. Dai B, Cao Y, Zhou J, Li S, Wang X, Chen D, Duan E: Abnormal expression of matrix metalloproteinase-2 and -9 in interspecific pregnancy of rat embryos in mouse recipients. *Theriogenology* 60(7):1279, 2003.
10. Zhang LS, Chen DY: [RNA interference and its promising future]. *Yi Chuan* 25(3):341, 2003.
11. Fan HY, Tong C, Teng CB, Lian L, Li SW, Yang ZM, Chen DY, Schatten H, Sun QY: Characterization of Polo-like kinase-1 in rat oocytes and early embryos implies its functional roles in the regulation of meiotic maturation, fertilization, and cleavage. *Mol Reprod Dev* 65(3):318, 2003.
12. Qin L, Wang YL, Bai SX, Xiao ZJ, Herva R, Piao YS: Expression of integrins and extracellular matrix proteins at the maternal-fetal interface during tubal implantation. *Reproduction* 126(3):383, 2003.
13. Cheng Y, Fan HY, Wen DC, Tong C, Zhu ZY, Lei L, Sun QY, Chen DY: Asynchronous cytoplasm and karyoplast transplantation reveals that the cytoplasm determines the developmental fate of the nucleus in mouse oocytes. *Mol Reprod Dev* 65(3):278, 2003.
14. Cai L, Zhang J, Duan E: Dynamic distribution of epidermal growth factor during mouse embryo peri-implantation. *Cytokine* 23(6):170, 2003.
15. Fan HY, Tong C, Li SW, Chen DY, Sun QY: [Roles of protein kinase C in mouse oocyte maturation and fertilization in vitro]. *Shi Yan Sheng Wu Xue Bao* 36(1):37, 2003.
16. Dai B, Cao Y, Liu W, Li S, Yang Y, Chen D, Duan E: Dual roles of progesterone in embryo implantation in mouse. *Endocrine* 21(2):123, 2003.
17. Chen XL, Gao HJ, Wei P, Song XX, Hu ZY, Liu YX: Regulatory effect of IFN-gamma on expression of TGF-beta 1, T beta R-II, and StAR in corpus luteum of pregnant rhesus monkey. *Acta Pharmacol Sin* 24(5):435, 2003.
18. Tan YF, Li FX, Piao YS, Sun XY, Wang YL: Global gene profiling analysis of mouse uterus during the oestrous cycle. *Reproduction* 126(2):171, 2003.
19. Liu RH, Sun QY, Li YH, Jiao LH, Wang WH: Maturation of porcine oocytes after cooling at the germinal vesicle stage. *Zygote* 11(4):299, 2003.
20. Liu RH, Sun QY, Li YH, Jiao LH, Wang WH: Effects of cooling on meiotic spindle structure and chromosome alignment within in vitro matured porcine oocytes. *Mol Reprod Dev* 65(2):212, 2003.
21. Yao LJ, Fan HY, Tong C, Chen DY, Schatten H, Sun QY: Polo-like kinase-1 in porcine oocyte meiotic maturation, fertilization and early embryonic mitosis. *Cell Mol Biol (Noisy-le-grand)* 49(3):399, 2003.

22. Chen X, Gao H, Wei P, Zhang Z, Liu Y: Expression of apoptosis-related genes Fas/FasL, Bax/Bcl-2 and Caspase-3 in rat corpus luteum during luteal regression. *Sci China C Life Sci* 46(3):273, 2003.
23. Wang H, Li Q, Lin H, Yu X, Qian D, Dai J, Duan E, Zhu C: Expression of vascular endothelial growth factor and its receptors in the rhesus monkey (*Macaca mulatta*) endometrium and placenta during early pregnancy. *Mol Reprod Dev* 65(2):123, 2003.
24. Wen DC, Yang CX, Cheng Y, Li JS, Liu ZH, Sun QY, Zhang JX, Lei L, Wu YQ, Kou ZH, Chen DY: Comparison of developmental capacity for intra- and interspecies cloned cat (*Felis catus*) embryos. *Mol Reprod Dev* 66(1):38, 2003.
25. Qin L, Wang YL, Bai SX, Ji SH, Qiu W, Tang S, Piao YS: Temporal and spatial expression of integrins and their extracellular matrix ligands at the maternal-fetal interface in the rhesus monkey during pregnancy. *Biol Reprod* 69(2):563, 2003.
26. Liu K, Feng Q, Gao HJ, Hu ZY, Zou RJ, Li YC, Liu YX: Expression and regulation of plasminogen activators, plasminogen activator inhibitor type-1, and steroidogenic acute regulatory protein in the rhesus monkey corpus luteum. *Endocrinology* 144(8):3611, 2003.
27. Tong C, Fan HY, Chen DY, Song XF, Schatten H, Sun QY: Effects of MEK inhibitor U0126 on meiotic progression in mouse oocytes: microtubule organization, asymmetric division and metaphase II arrest. *Cell Res* 13(5):375, 2003.
28. Liu DL, Liu WZ, Li QL, Wang HM, Qian D, Treuter E, Zhu C: Expression and functional analysis of liver receptor homologue 1 as a potential steroidogenic factor in rat ovary. *Biol Reprod* 69(2):508, 2003.
29. Li M, Zhang D, Hou Y, Jiao L, Zheng X, Wang WH: Isolation and culture of embryonic stem cells from porcine blastocysts. *Mol Reprod Dev* 65(4):429, 2003.
30. Zhang J, Cao YJ, Li FY, Li J, Yao LB, Duan EK: Effects of fibronectin, VEGF and angiostatin on the expression of MMPs through different signaling pathways in the JEG-3 cells. *Am J Reprod Immunol* 50(4):273, 2003.
31. Li QL, Illman SA, Wang HM, Liu DL, Lohi J, Zhu C: Matrix metalloproteinase-28 transcript and protein are expressed in rhesus monkey placenta during early pregnancy. *Mol Hum Reprod* 9(4):205, 2003.
32. Yang CX, Han ZM, Wen DC, Sun QY, Zhang KY, Zhang LS, Wu YQ, Kou ZH, Chen DY: In vitro development and mitochondrial fate of macaca-rabbit cloned embryos. *Mol Reprod Dev* 65(4):396, 2003.
33. Wei P, Yuan JX, Jin X, Hu ZY, Liu YX: Molsidomine and N-omega-nitro-L-arginine methyl ester inhibit implantation and apoptosis in mouse endometrium. *Acta Pharmacol Sin* 24(12):1177, 2003.
34. Cheng Y, Lei L, Wen DC, Zhu ZY, Sun QY, Chen DY: Development of mouse embryos derived from oocytes reconstructed by metaphase I spindle transfer. *Zygote* 11(1):53, 2003.
35. Fan HY, Huo LJ, Meng XQ, Zhong ZS, Hou Y, Chen DY, Sun QY: Involvement of calcium/calmodulin-dependent protein kinase II (CaMKII) in meiotic maturation and activation of pig oocytes. *Biol Reprod* 69(5):1552, 2003.
36. Zhang J, Zhao YG, Cao YJ, Sang QX, Duan EK: Expression and implications of tissue inhibitor of metalloproteinases-4 in mouse embryo. *Mol Hum Reprod* 9(3):143, 2003.
37. Li YH, Ma W, Li M, Hou Y, Jiao LH, Wang WH: Reduced polyspermic penetration in porcine oocytes inseminated in a new in vitro fertilization (IVF) system: straw IVF. *Biol Reprod* 69(5):1580, 2003.
38. Liu Z, Sun QH, Yang Y, Liu JM, Peng JP: Effect of IFN $\gamma$  on caspase-3, Bcl-2 and Bax expression, and apoptosis in rabbit placenta. *Cytokine* 24(5):201, 2003.
39. Xiang RL, Zhou F, Yang Y, Peng JP: Construction of the plasmid pCMV4-rZPC' DNA vaccine and analysis of its contraceptive potential. *Biol Reprod* 68(5):1518, 2003.
40. Lei L, Liu ZH, Wang H, Kou ZH, Wu YQ, Xu Y, Cheng Y, Zhu ZY, Xia GL, Chen DY: The effects of different donor cells and passages on development of reconstructed embryos. *Yi Chuan Xue Bao* 30(3):215, 2003.
41. Zhang ZH, Jin X, Zhang XS, Hu ZY, Zou RJ, Han CS, Liu YX: Bcl-2 and Bax are involved in experimental cryptorchidism-induced testicular germ cell apoptosis in rhesus monkey. *Contraception* 68(4):297, 2003.

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