



哺乳动物早期发育及衰老的分子作用机制

The Molecular Mechanism of Mammal Early Development and Aging

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1970 Bachelor of Science, Department of Biology Peking University, P. R. China.

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1970年北京大学生物系, 获学士学位; 1983年北京大学研究生院, 硕士学位; 1986年, 美国华盛顿大学医学院, 访问学者. 1992年澳大利亚科工组织, 动物生殖研究所, 交换学者. 目前从事哺乳动物早期发育及衰老分子机制的研究

研究方向:

哺乳动物早期发育相关基因的克隆及衰老和中药抗衰老分子作用机制的研究:

- 1, 以哺乳动物为 (小鼠, 家兔等) 为实验动物, 克隆早期胚胎发育相关的基因, 并研究其调控机制; 研究克隆胚中细胞核在卵质中去分化和再程序化的分子作用机制; 研究转基因动物外源基因的整合、定位和表达调控的作用机制。
- 2, 研究衰老和抗衰老的分子作用机制是我们开展的另一项研究工作。克隆衰老相关基因, 并探讨其分子调控机制; 寻找其调控元件和调控因子; 分析中药“补肾益脑片”在衰老中的基因调控途径。并在此基础上, 寻找新的抗衰老药物。

Key publications

- 1, Chong Zhang, Ting Yang, Jingang Wang, Guisheng Liu Qingxuan Chen; The Chinese traditional medicine ‘Busheng Yiniao Pian’ increased the level of aging-related gene LRPAP-1 expression in the cerebral tissue of accelerated senescence prone mouse 8/Ta. Journal of Ethnopharmacology. 2005, 98: 61-65.
- 2, Wenyong Li, Weidong Yu, Qun Dong, Ping Wang, Qingxuan Chen; A complex prescription for vitiligo activates mitochondrial ATP synthase-6 expression in B-16 murine melanoma cells. Journal of Ethnopharmacology. 2004, 92: 193-196.
- 3, Chong Zhang, Jingang Wang, Jinyan Cheng, Guisheng Liu and Qingxuan Chen; Seeking for senile-related gene expression in cerebral tissue of senescence-accelerated mouse. Cellular and Molecular Neurobiology. 2004, 24(6): 741-747.
- 4, Weidong Yu, Xin He, Guisheng Liu and Qingxuan Chen; Identification and analysis of stage-specific expression of lysosome-associated protein transmembrane 4 gene during development of preimplantation rabbit nuclear transfer embryo. Molecular Reproduction and Development. 2004; 68: 415-421.
- 5, Chong Zhang, Jinyan Cheng, Jingang Wang, Qingxuan Chen; Seeking for ageing-associated gene expression in cerebral tissue of senescence-accelerated mouse (SAM). International Congress Series. 2004, 1260: 373-378.
- 6, Wen Yong Li, Wei Dong Yu, Bing Qi, Xin He, YU Ge Wang, Gui Sheng Liu, Miao Du, and Qing Xuan Chen; Analysis of gene expression in rabbit nuclear transfer embryos: Use of single-embryo mRNA differential display. Development Growth & Differentiation, 2003, 45(6): 543-551.
- 7, Wenyong Li, Jianke Zhang, Weidong Yu, Guisheng Liu and Qingxuan Chen; Weidong Yu, Guisheng Liu and Expression of stage-specific gene during zygotic gene activation in preimplantation mouse embryos. Zoological Sciences, 2003, 20(11): 1389-1393.
- 8, Wenyong Li, Jianke Zhang, Qingxuan Chen; Expression of stage-specific gene during zygotic gene activation in preimplantation mouse embryos. Zoological Sciences, 2003, 20(11): 1389-1393.
- 9, Qingxuan Chen, Juan Zhang and Frederick Sweet; Homology of primate DNA fragments for estrous-associated oviductal glycoprotein. Hereditas, 2003, 139: 75-79.
- 10, Patent No.: ZL00133625.8. Date of Grant: July 14, 2004. Patent Name: The application of liposome in transferring of exogenous DNA through injecting testes. Inventors: Qingxuan Chen, Jinyan Cheng, Xin He, Weidong Li, Guisheng Liu.



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