

# 原癌基因c-myc、c-H-ras、c-sis在小鼠卵巢和睾丸中的转录表达研究 Study on the Expression of Proto-oncogenes c-myc,c-H-ras,c -sisin Ovary and Testis of Kunming Mice

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**摘要** 以地高辛标记c-myc、c-H-ras、c-sis基因作探针,利用组织切片原位杂交的方法,检测了昆明种小鼠5周龄、10周龄和孕期卵巢,以及1天龄、5周龄和10周龄睾丸,初步研究了这3种原癌基因在生殖腺中的转录表达及其可能的功能作用。结果显示:(1)c-myc基因在孕鼠卵巢的个别卵泡的卵泡细胞中有强转录信号,但在3组卵巢的卵母细胞中及3组睾丸切片中均未见杂交信号。(2)c-H-ras基因在孕鼠卵巢黄体中有较强转录表达,但在3组卵巢的卵母细胞中及3组睾丸切片中均无杂交信号,(3)c-sis基因在10周龄睾丸曲细精管的精原细胞层和精母细胞有强转录表达,而在1天龄、5周龄睾丸及3组卵巢切片中均无杂交信号。上述结果表明:c-myc基因可能与精子发生和卵子的发育关系不大,但可能与卵泡的退化有关;c-H-ras基因可能与精子发生和卵子的发育关系也不大,但可能与妊娠黄体的形成有关;c-sis基因可能与卵子的发育无关,但可能与精子的发生密切相关。

**Abstract:**Using in Site Hybridization on tissue section of ovary from 5 weeks old,10 weeks old and pregnant Kunming mice, and testis from one-day old,5 weeks old, and 10 weeks old Kunming mice,we prelinimally studied the expression and function of the proto-oncogenes c-myc,c-H-ras and c-sis.The results are as follows:(1)The strong expression of c-myc gene was found in follicular epithelium of some follicles of ovary from pregnant mice,and was not found in the oocytes of three groups of female mice and testes of three groups of male mice.(2)The strong expression of c-H-ras was observed in corpus luteum of ovary of pregnant mice,but it was not observed in any germ cells of all three groups of female mice and male mice.(3)The strong expression of c-sis gene was found in spermatogonia and spermatocytes of mature male mice,but it was not found in any germ cells of one day old and immature male mice and three groups of femala mice.These results showed that there might be no relationships between the expression of c-myc gene and spermatogenesis or oocyteatogenesis,but the expression of c-myc gene probably related to the cells degeneration of follicle;the expression of c-H-ras gene hadn' t a bearing on oogenesis and spermatogenesis,but probably related to the genesis of corpus luteum of corpus luteum of pregnant mice;the expression of c-sis gene there might be no related to the oogenesis and sperm maturation,but probably promoted the division of spermatogonim.

**关键词** [c-myc](#)、[c-H-ras](#)、[c-sis](#) [卵巢](#) [睾丸](#) [基因表达](#) [昆明小鼠](#) [c-myc](#)、[c-H-ras](#)、[c-sis](#) [Ovary](#) [Testis](#) [Gene expression](#) [Kuming mice](#)

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## Abstract

## Key words

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