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果蝇心脏发育起调控作用的候选基因的筛选

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摘要 果蝇的早期心脏发育与脊椎动物的早期发育模式具有惊人的相似，所以果蝇成为研究脊椎动物心脏发育的模式动物，通过对其心脏发育基因的研究，可加速揭示人体心脏的发育机理。为进一步筛选并克隆出新的心脏发育基因，本实验采用经化学诱变的平衡致死系的果蝇，进行心脏特异性抗体染色，观察到10个致死系表现出心脏突变表型，并将已确定遗传学部位的6个品系缩小到更小区域。

Screening of the Genes in Controlling HeartDevelopment of Drosophila

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Abstract: It is becoming increasingly evident that remarkable similaries of heart development are revealed in Drosophila and vertebrate, Therefore Drosophila can be used as a prototype to explore the vertebrate. This can in accelerate to revealing of the machanisms of human heart development. In order to screen and clone new genes that control the heart development, we have established the balanced-lethal lines by chemical mutagen and performed the heart-specific antibody. Ten of lines showed mutant phenotype, of which 6 were determined the smaller genetic sites for gene location.

Key words: Drosophila; heart develop; genes

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