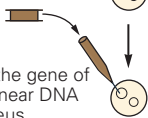


老鼠



受精卵 50 μm



Microinject the gene of interest as linear DNA into pronucleus

Embryo

Introduce several such embryos into a pseudopregnant mouse



Birth

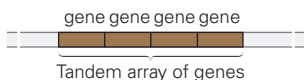


Mice expressing the gene are bred to test for the gene in germ cells



Transgenic mouse

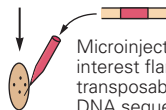
Tandemly arranged copies of the gene are inserted randomly into one chromosome in each cell



果蝇



500 μm 早期胚胎



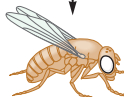
Microinject the gene of interest flanked by transposable element DNA sequences into posterior pole



Embryo

Primordial germ cells

Some of the flies that develop from these embryos carry the gene of interest in their germ cells



Flies are bred to test for the gene in germ cells



Transgenic *Drosophila*

Single copy of the gene is inserted randomly into one chromosome in each cell

