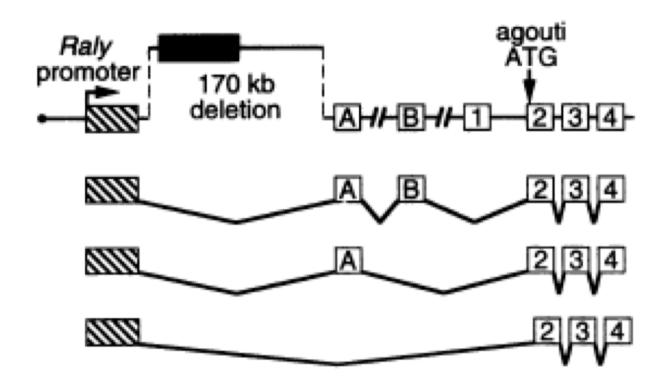
La mutation A^y: une délétion



Conséquences:

- 1. Agouti est exprimé partout et en tout temps.
- 2. Raly n'est pas exprimé (→ letalité des homozygotes).



agouti (A^y)

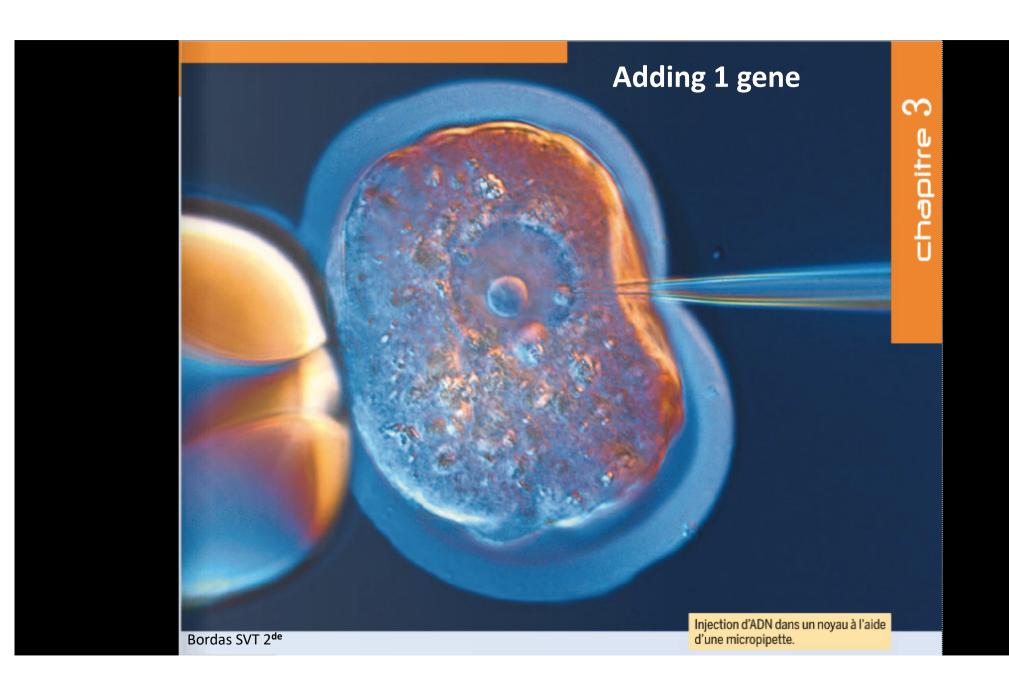
Large deletion brings Agouti under Raly promoter, increases transcription of Agouti; inhibits eumelanin production

yellow fur (AY/A)

Herm Gegreser

agouti fur pattern (A/A)





Microinjection:

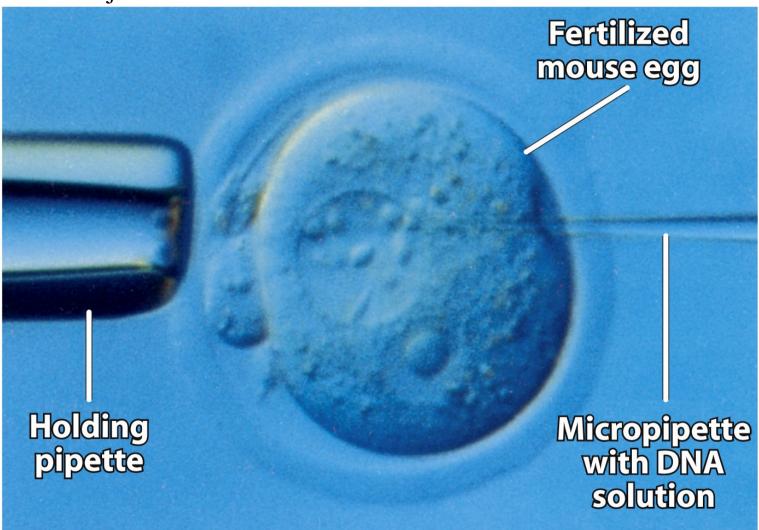
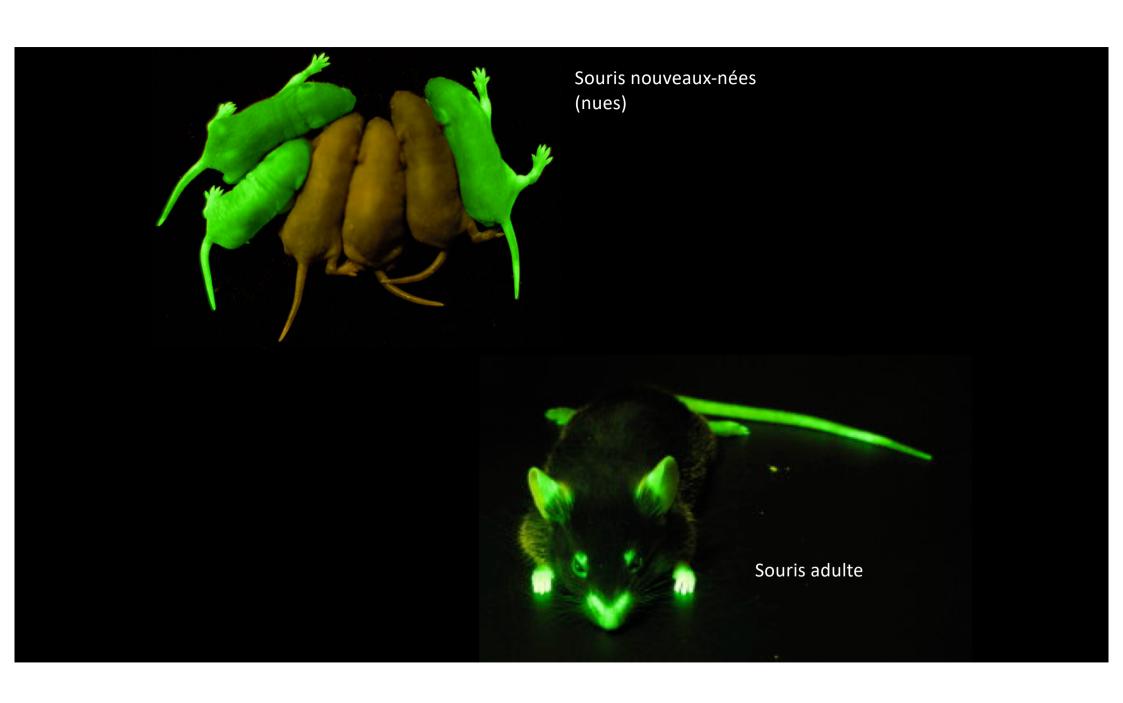


Figure 5-31
Biochemistry, Sixth Edition
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L'injection double le volume du pronoyau



Cardiac myocyte specific expression of a GFP transgene directed by a β-MyHC promoter in in a transgenic mouse.

Le gène naturel:



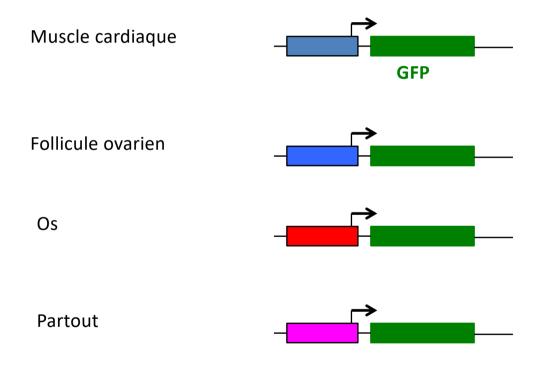
Le transgène:

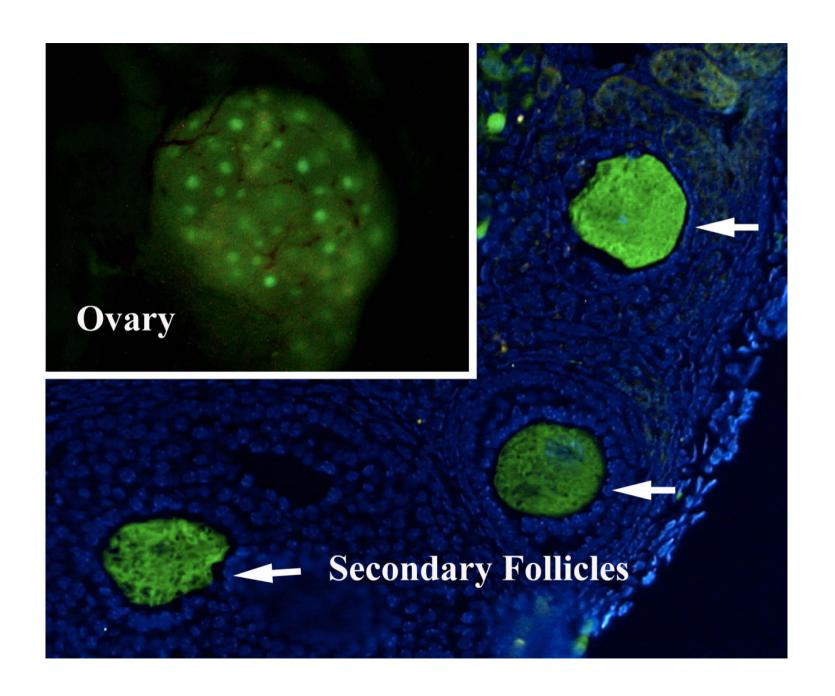




Une panoplie de promoteurs :

(promoteurs naturels)





GFP dans les os

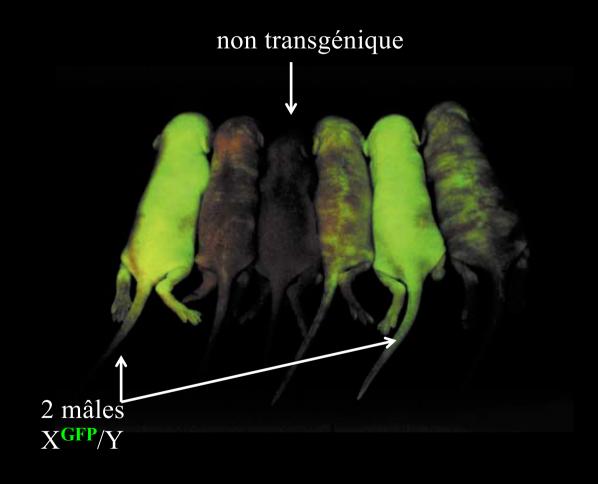




Transmission of a GFP transgene directed by actin promoter from a transgenic mother to one of her 3 pups.

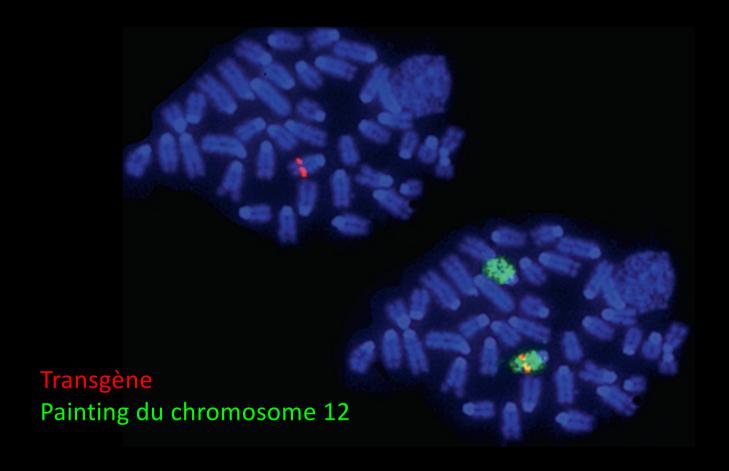


Inactivation du X



FISH:

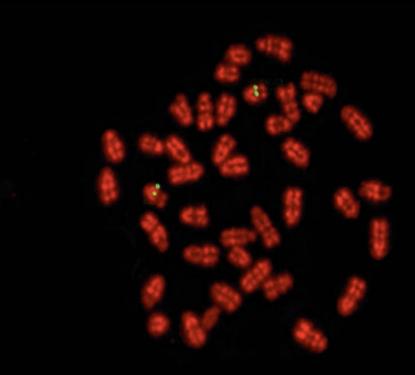
Souris transgénique



Les souris fondatrices sont toujours hétérozygotes.

FISH:

Souris transgénique

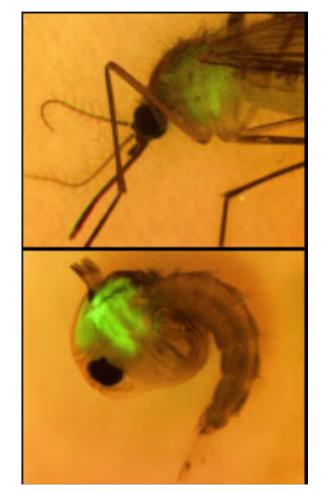


Transgène

Souris homozygotes (¼ des F1 x F1).

On modifie génétiquement des moustiques

et d'autres insectes



Les muscles du vol

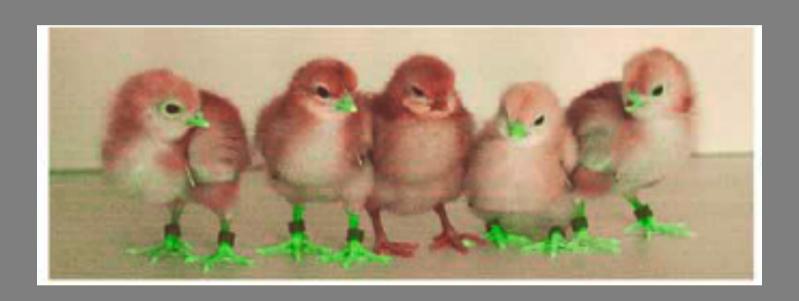
qui font battre les

ailes sont verts.

adulte

pupe

GFP is used as a proof of principle for gene transfer.



2008: transgenic monkeys



des singes transgéniques en 2008