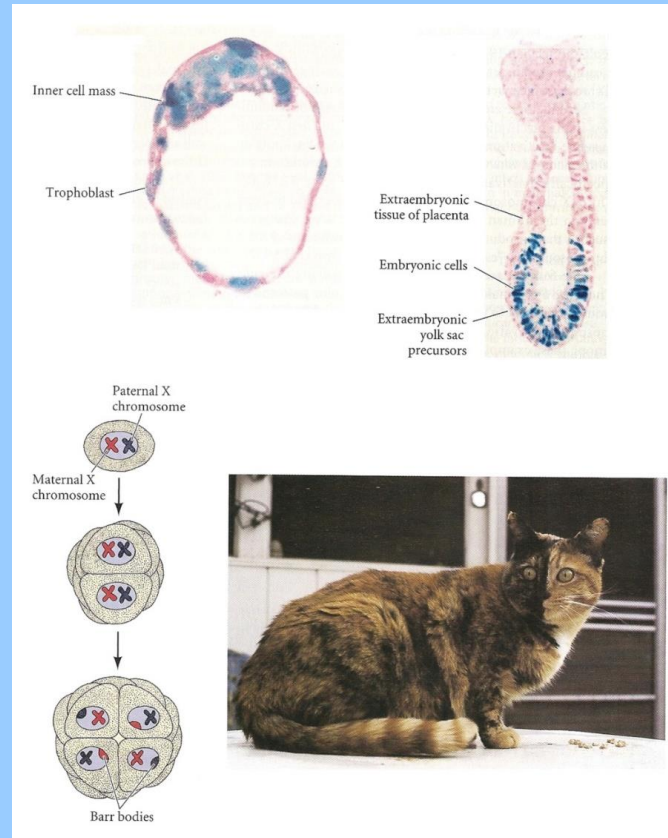
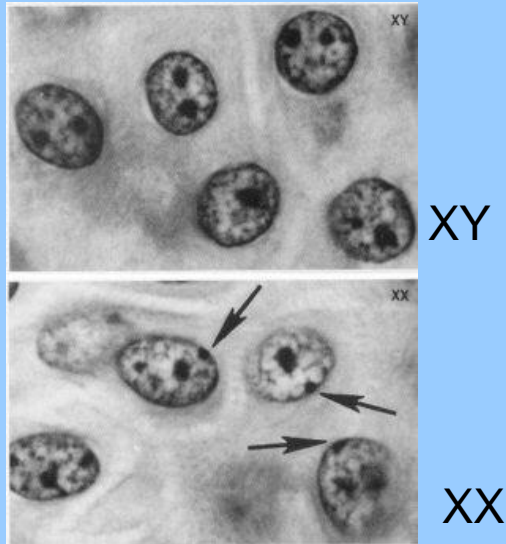
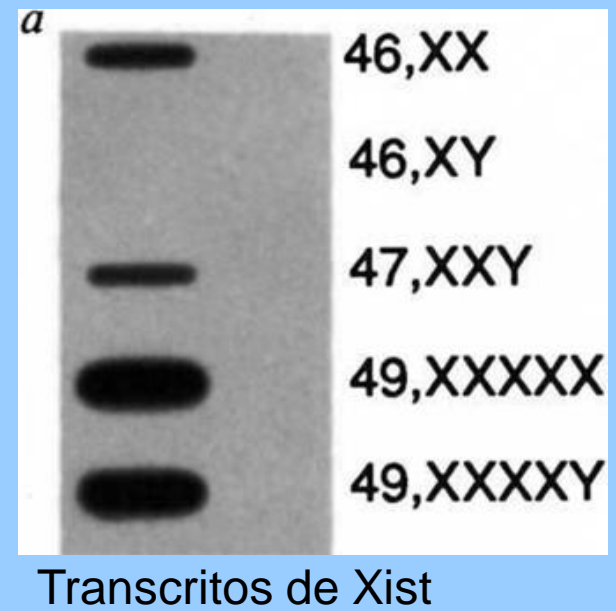
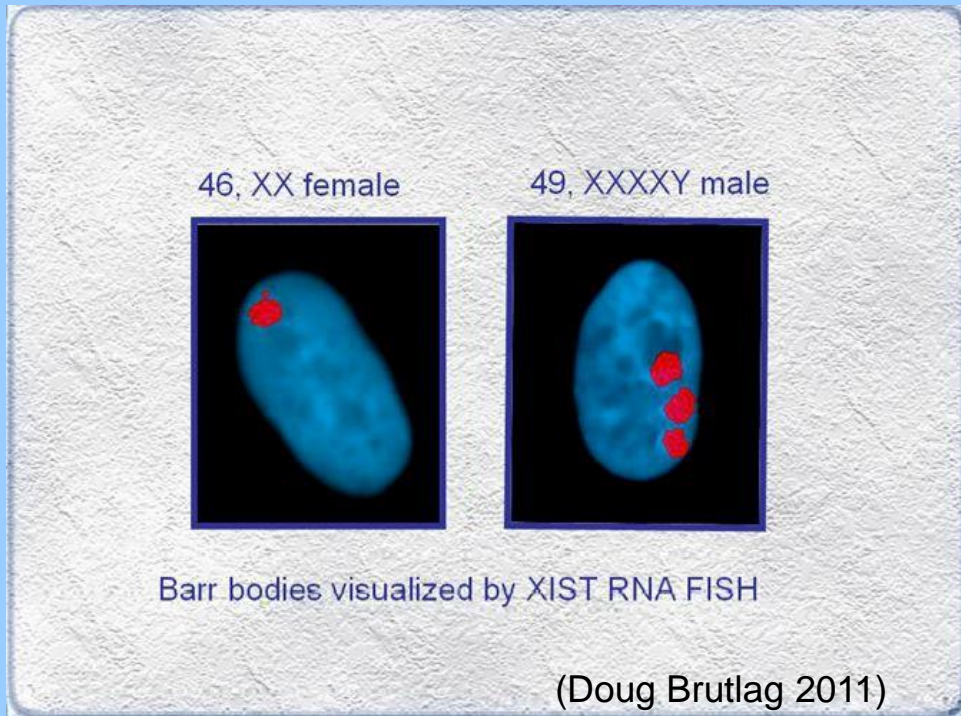


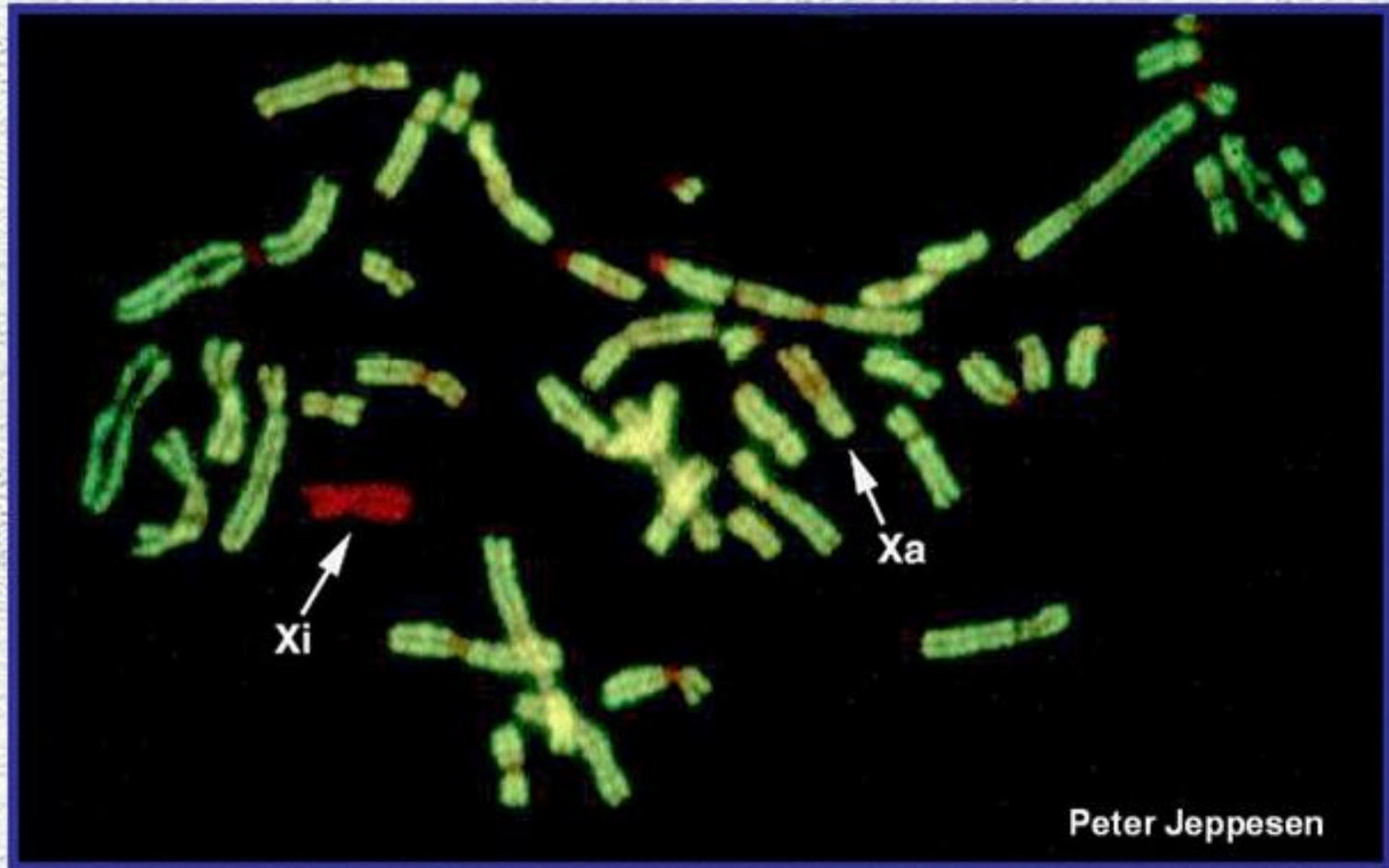
## Aula 12. Compensação de dose gênica





Brown, C. J. et al. (1991) Nature 349, 38-44

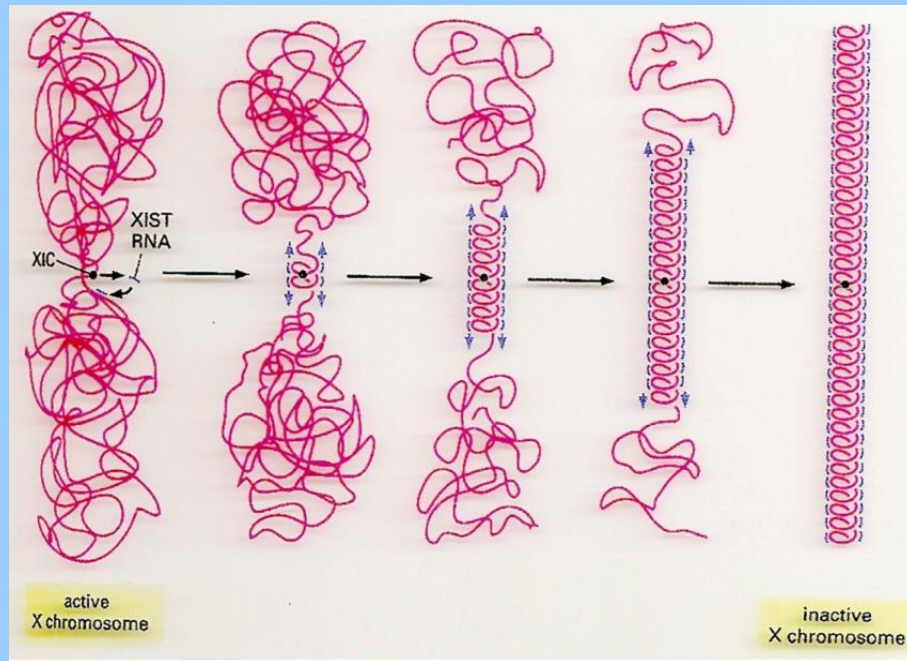
**Inactive X has inactive chromatin:  
unacetylated histone H4**



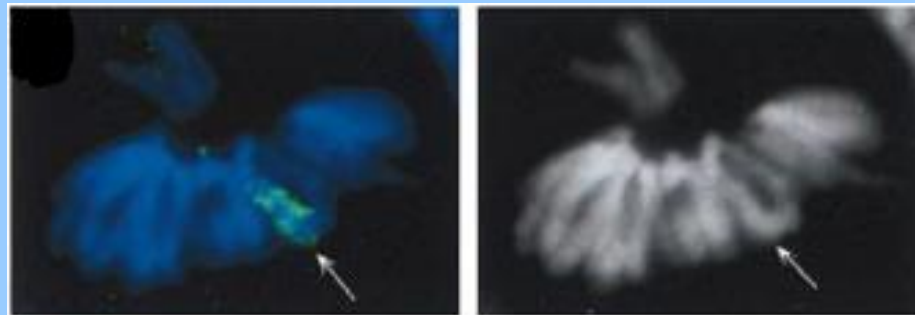
Peter Jeppesen



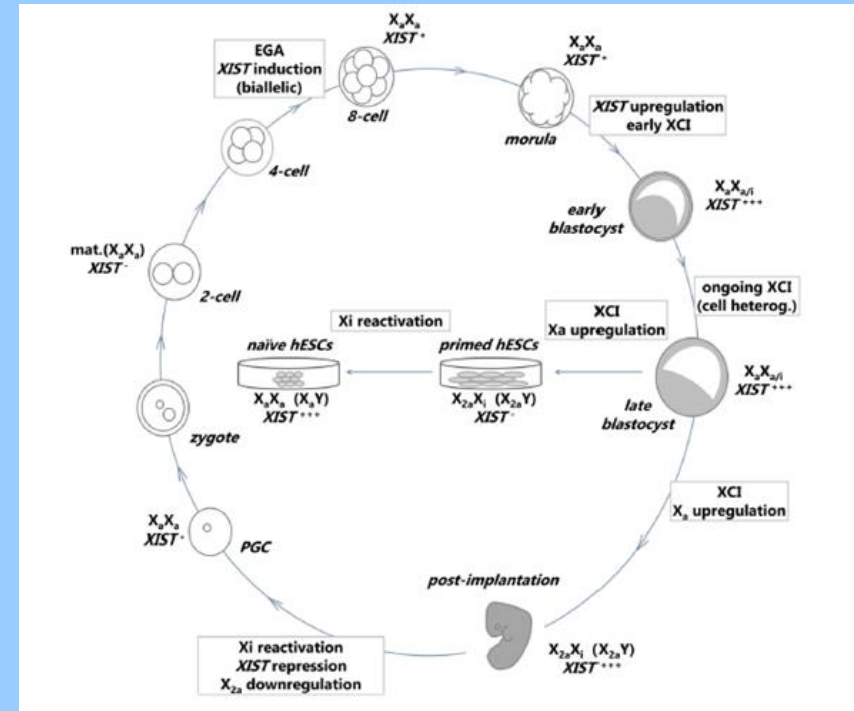
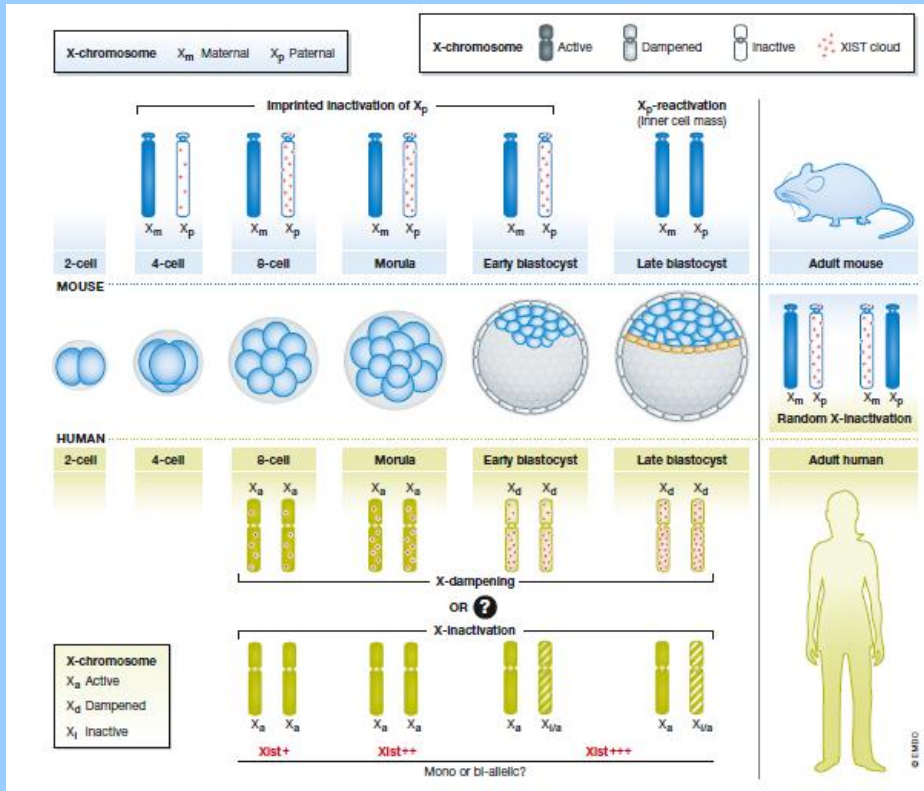
## Inativação do **cromossomo X** em mamíferos



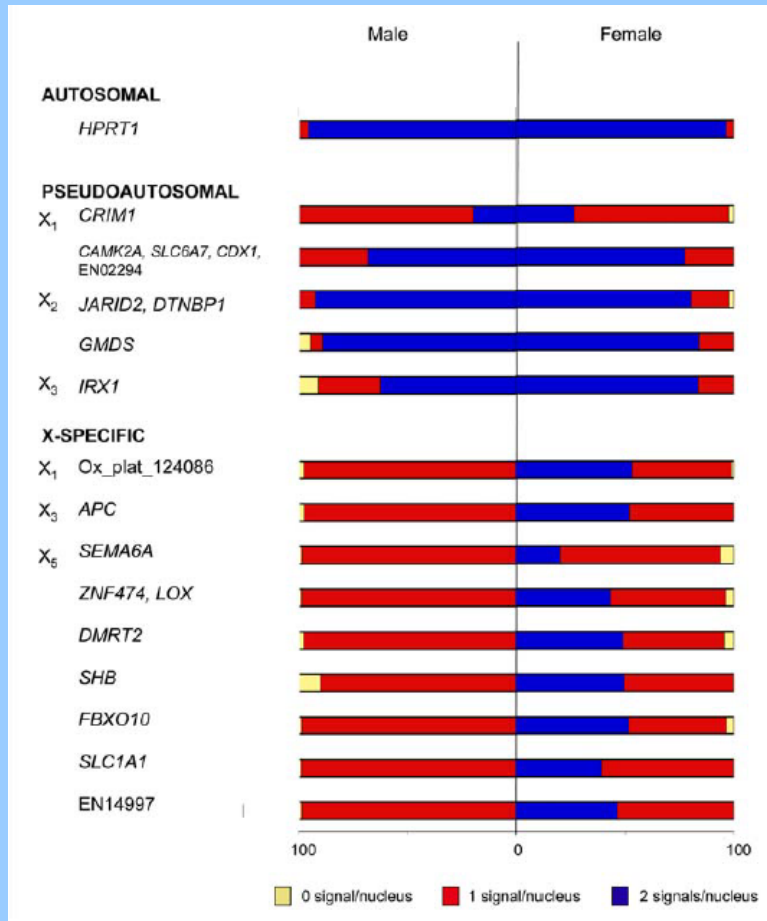
*Xist* vs *Tsix*



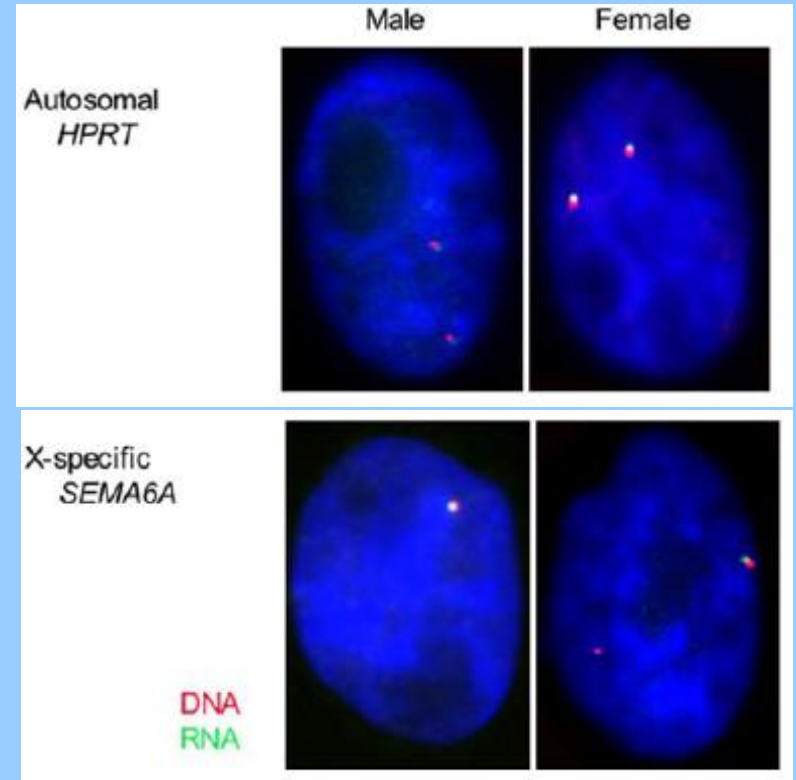
FISH de Xist no cromossomo X



# CD em múltiplos cromossomos X - *Platypus*

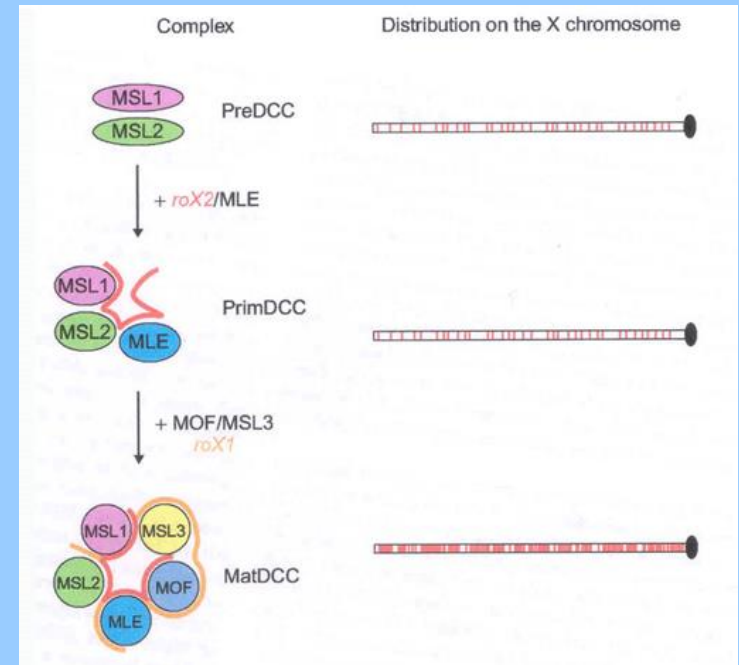
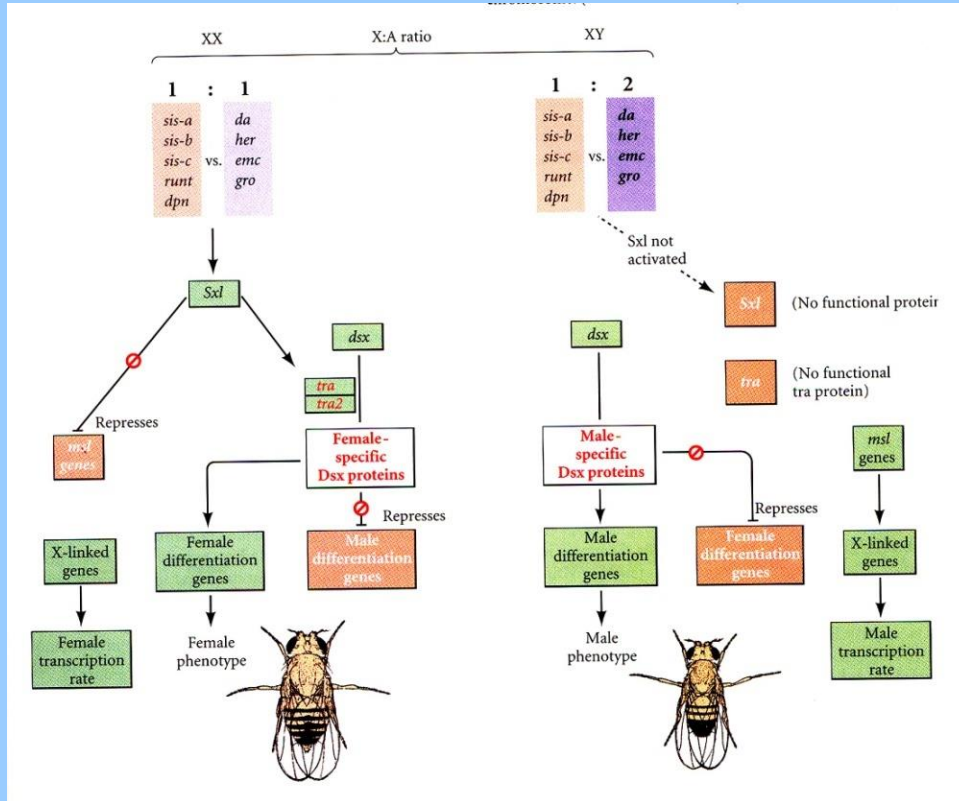


Expressão relativa



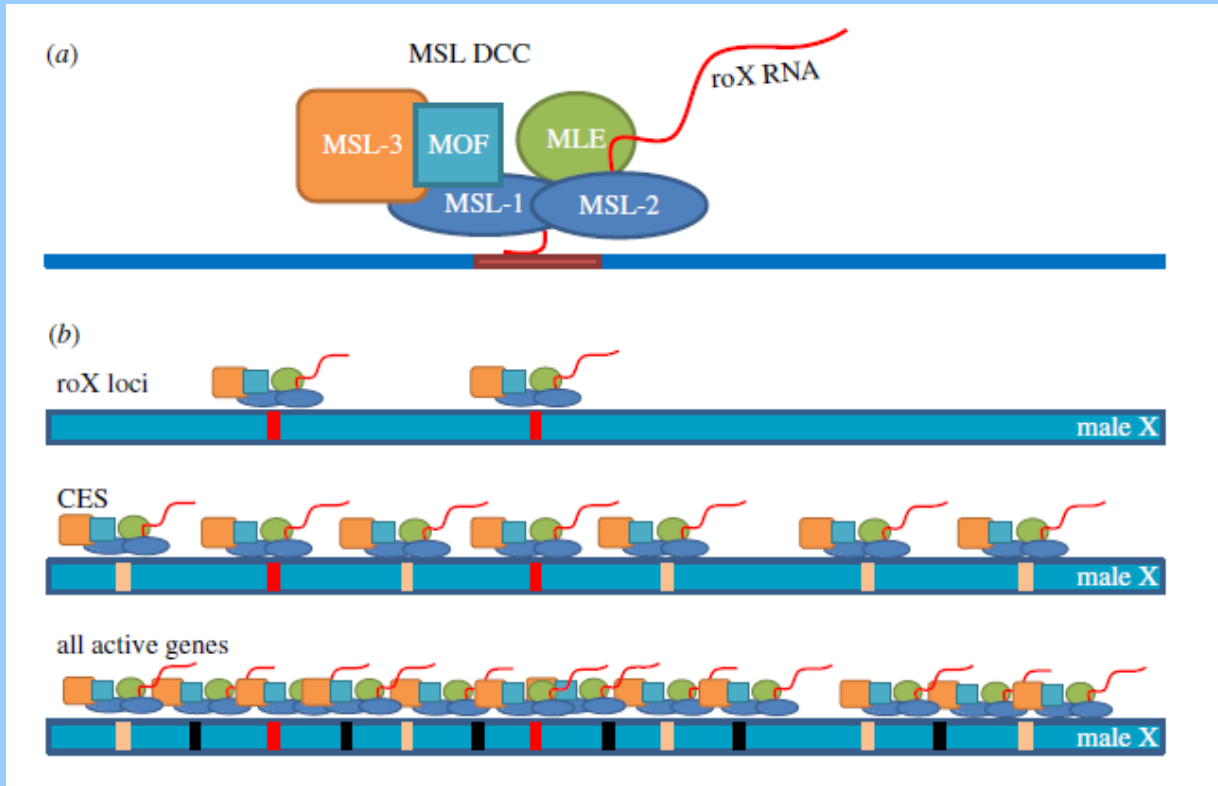
FISH

# Compensação de dose em *Drosophila*



Gilbert, Developmental Biology, 7th ed.

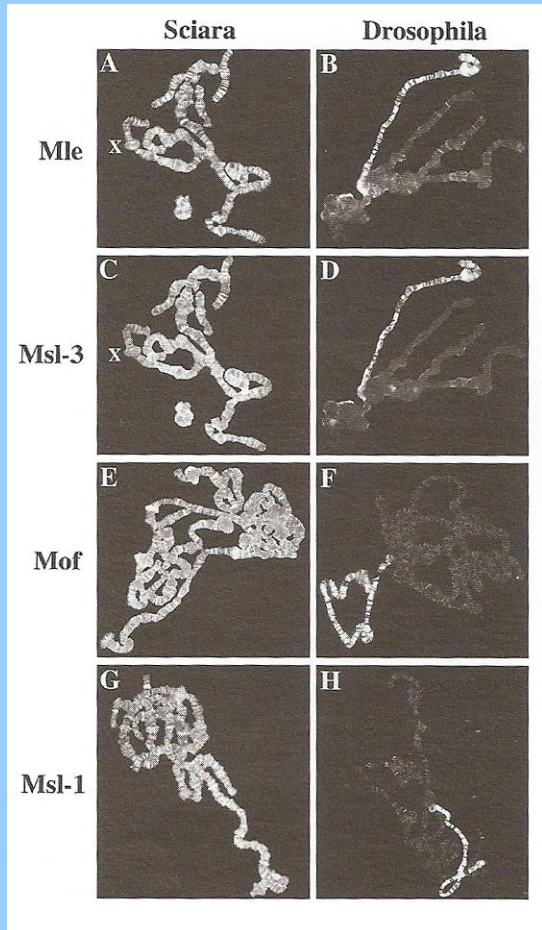
# CD em Drosophila



McElroy et al. (2014) Open Biol 4: 140006



# Hiperativação do cromossomo X em machos de *Sciara*



Statistical analysis of [<sup>3</sup>H]UTP incorporation in the X and A chromosomes of females and males

Sex	No. of nuclei	Average number of grains			
		Chromosome A	X chromosome	b	t Student
Females	33	187.1	129.5	0.695	1.444
Males	29	161.4	114.1	0.721	( <i>P</i> > 0.1)

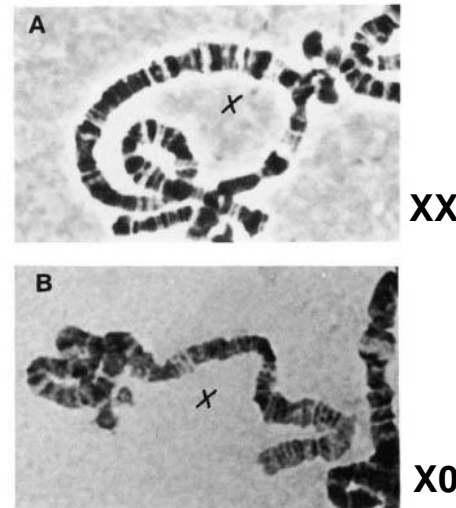
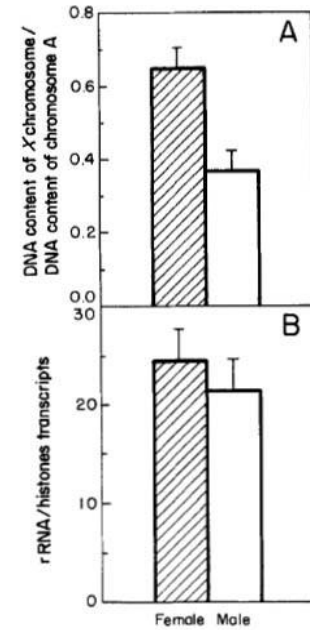
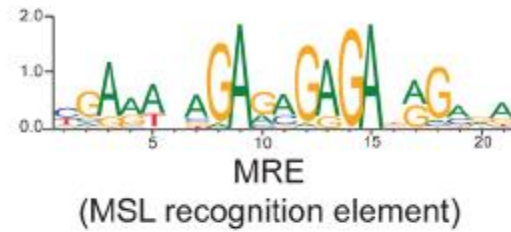
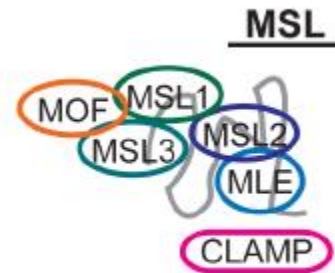
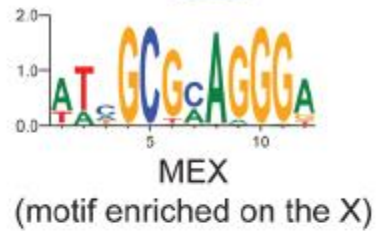
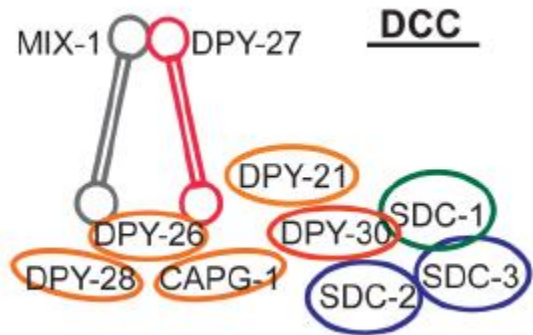


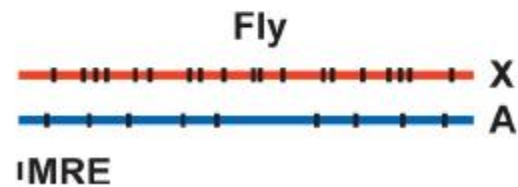
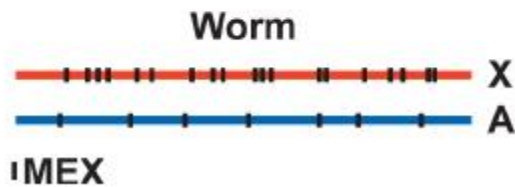
FIGURE 3.—Phase contrast micrograph of polytene chromosomes from female (A) and male (B) *S. ocellaris*. Orcein staining following standard procedures.



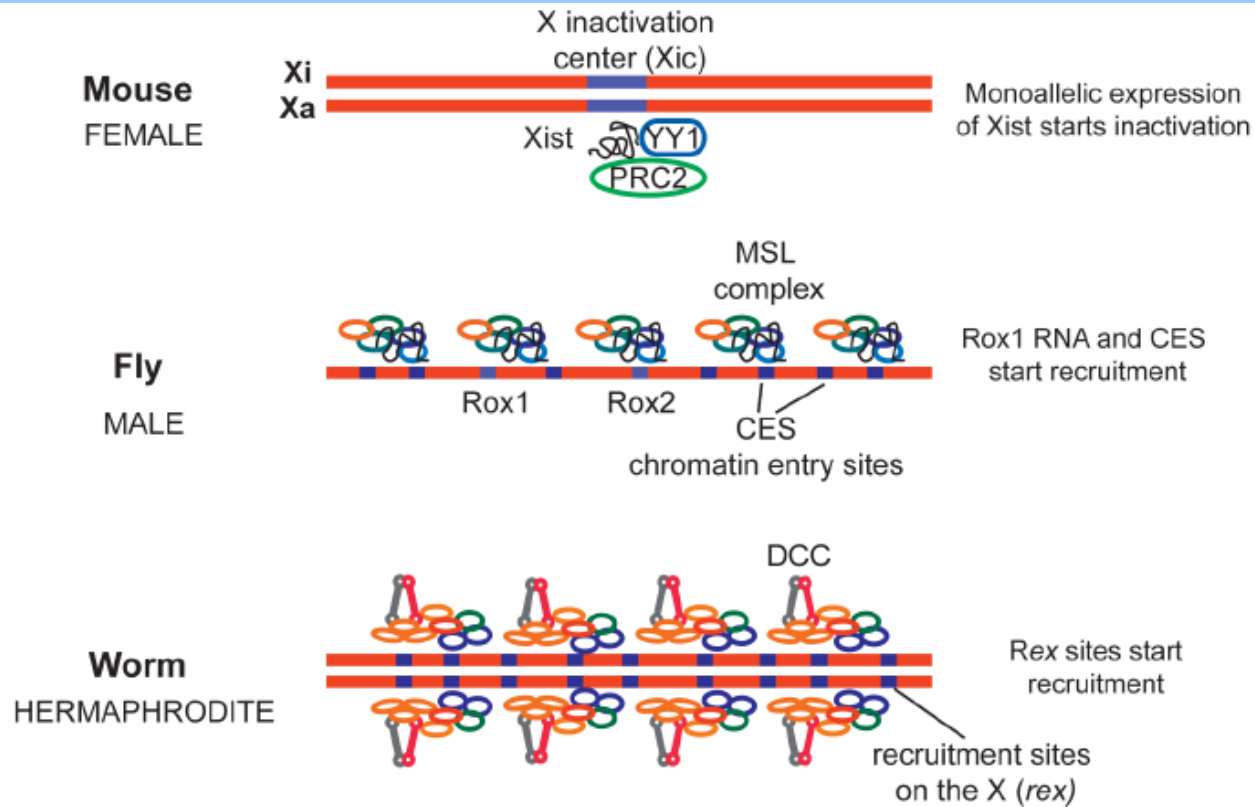
**B)**



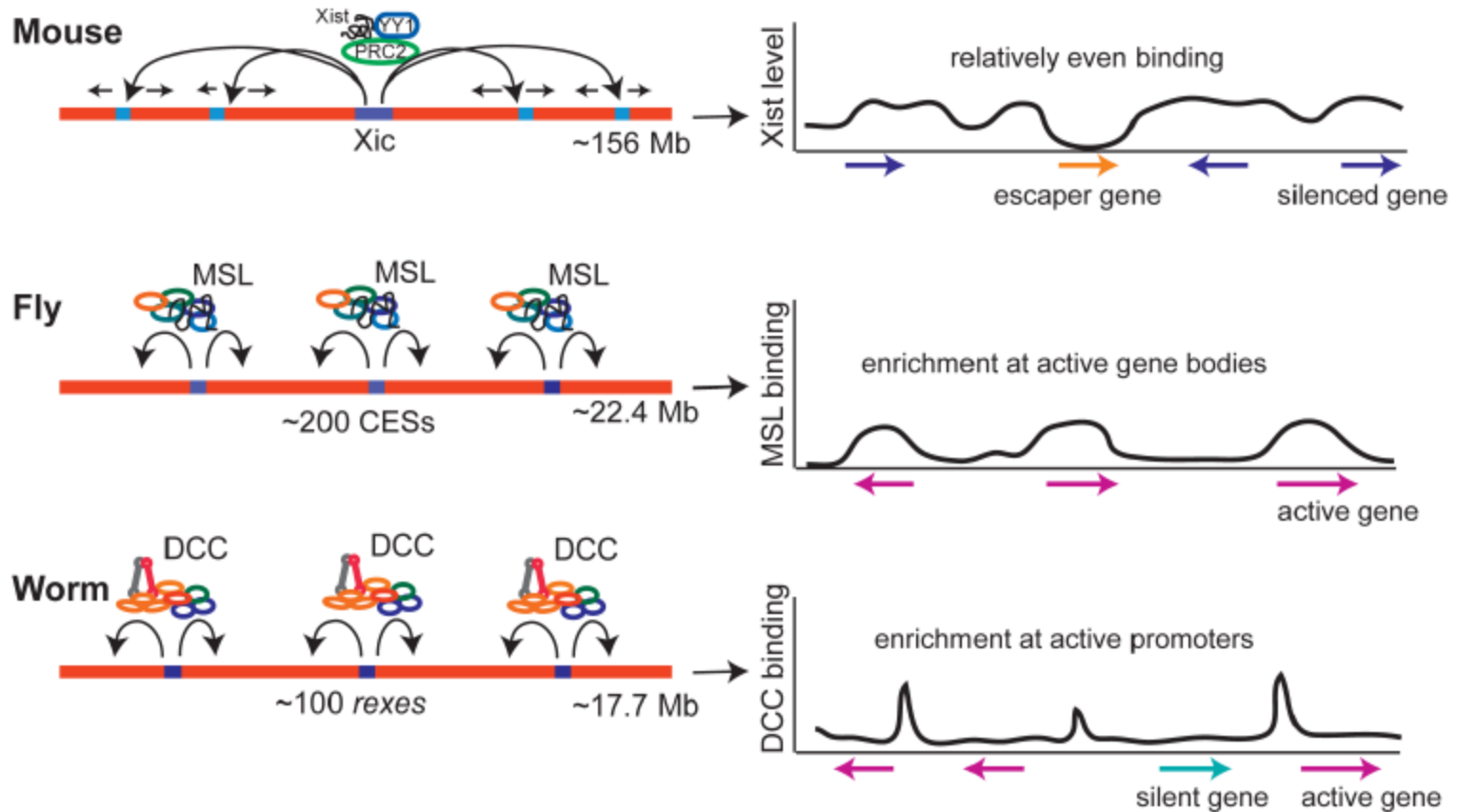
**C)**



**A)**



A)





# CD e determinação do sexo

