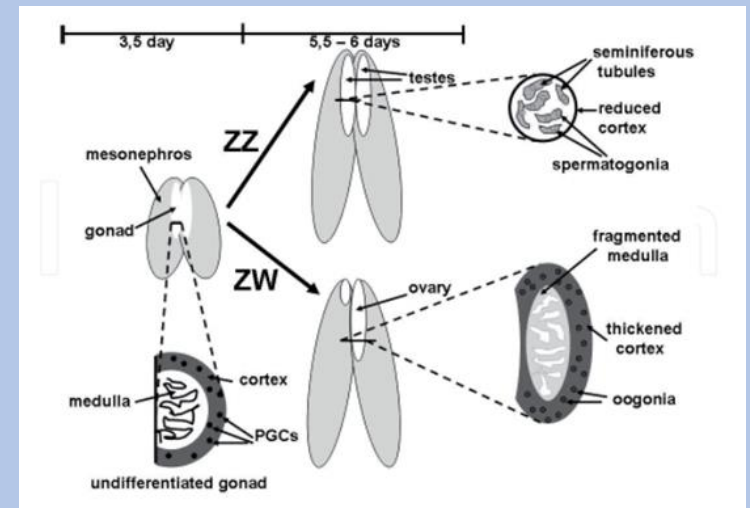
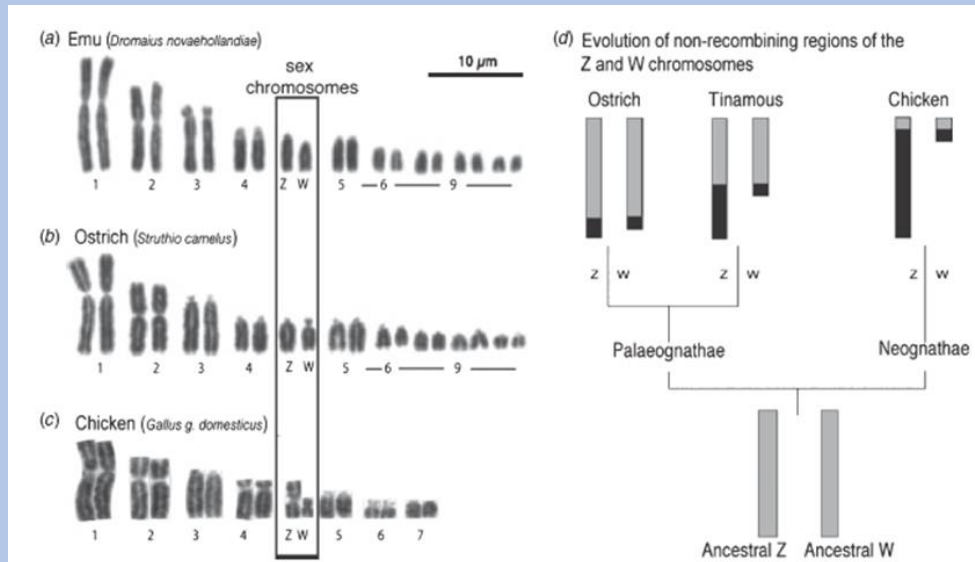


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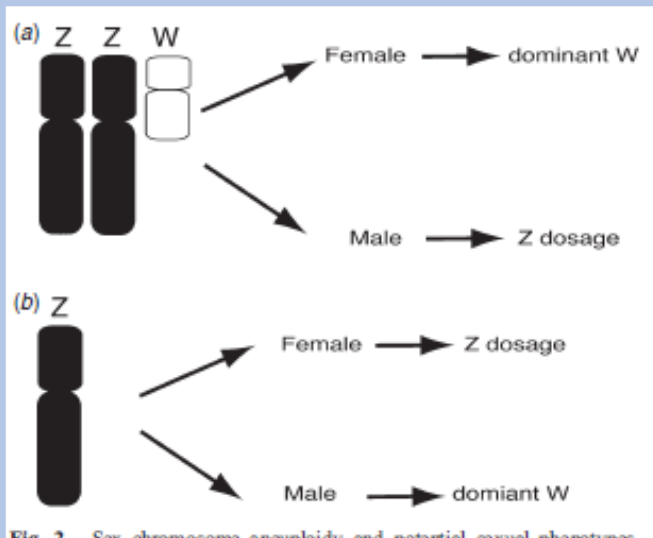
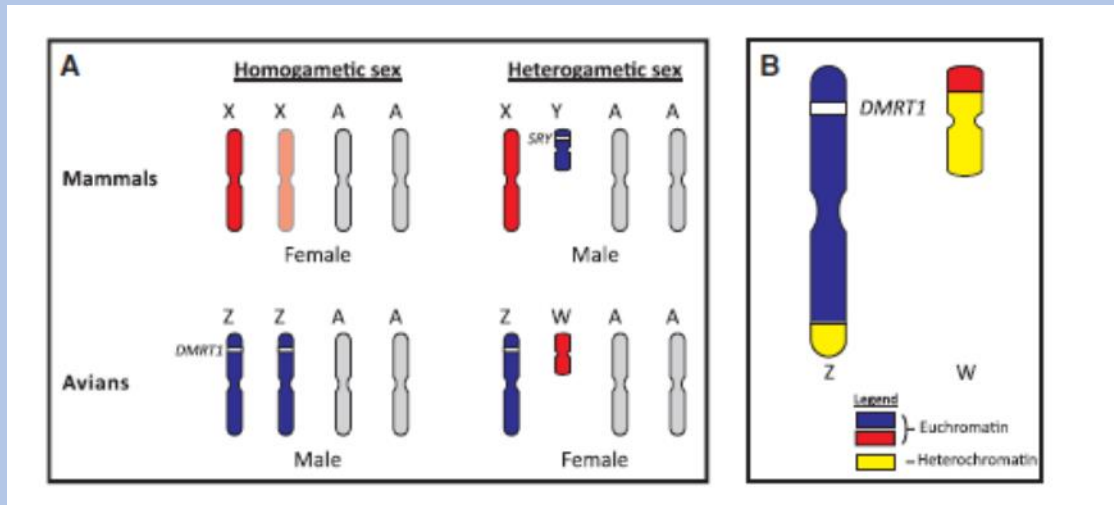
Aula 7. Determinação do sexo: Aves

Cromossomos

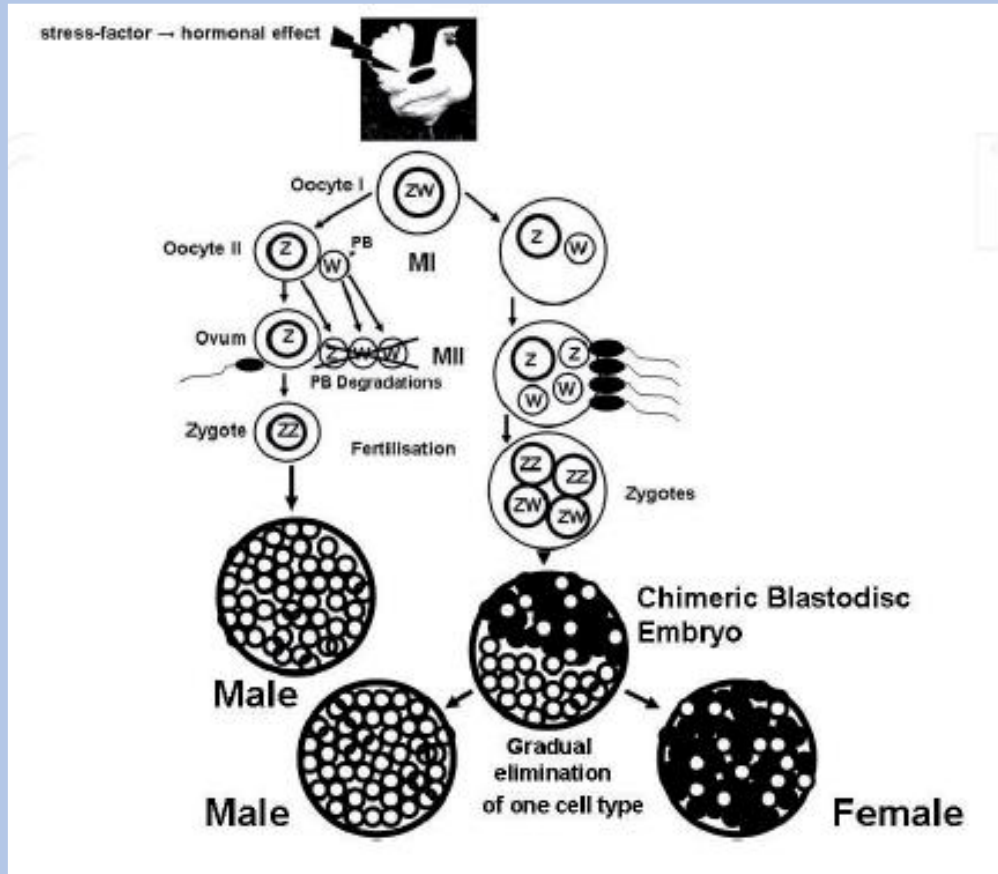


Smith (2010) Emu 110: 364-377

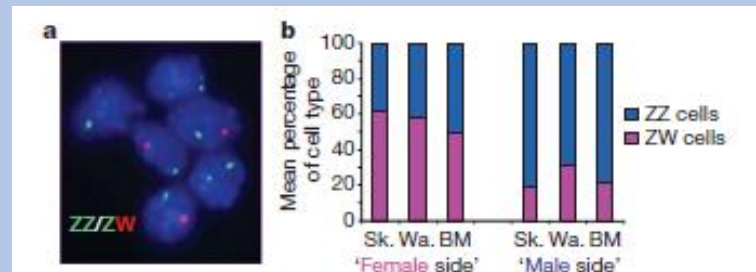
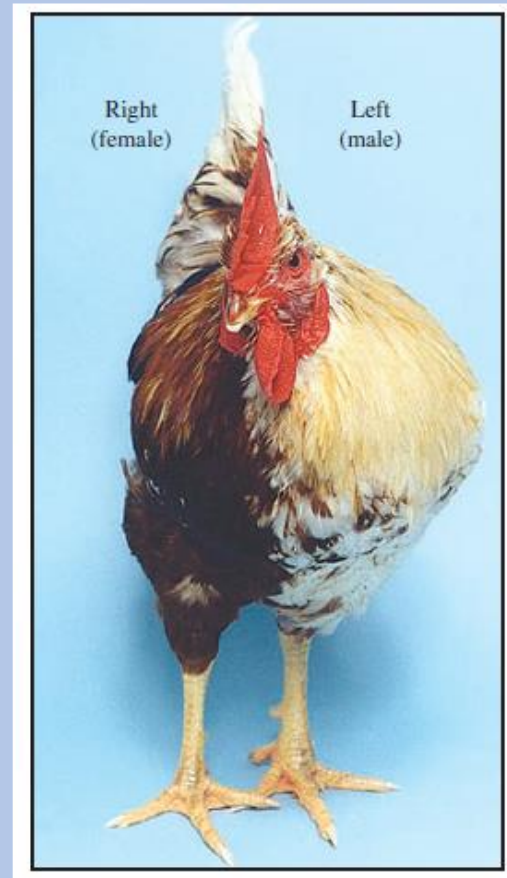
Sistema de cromossomos sexuais na galinha (*Gallus*)



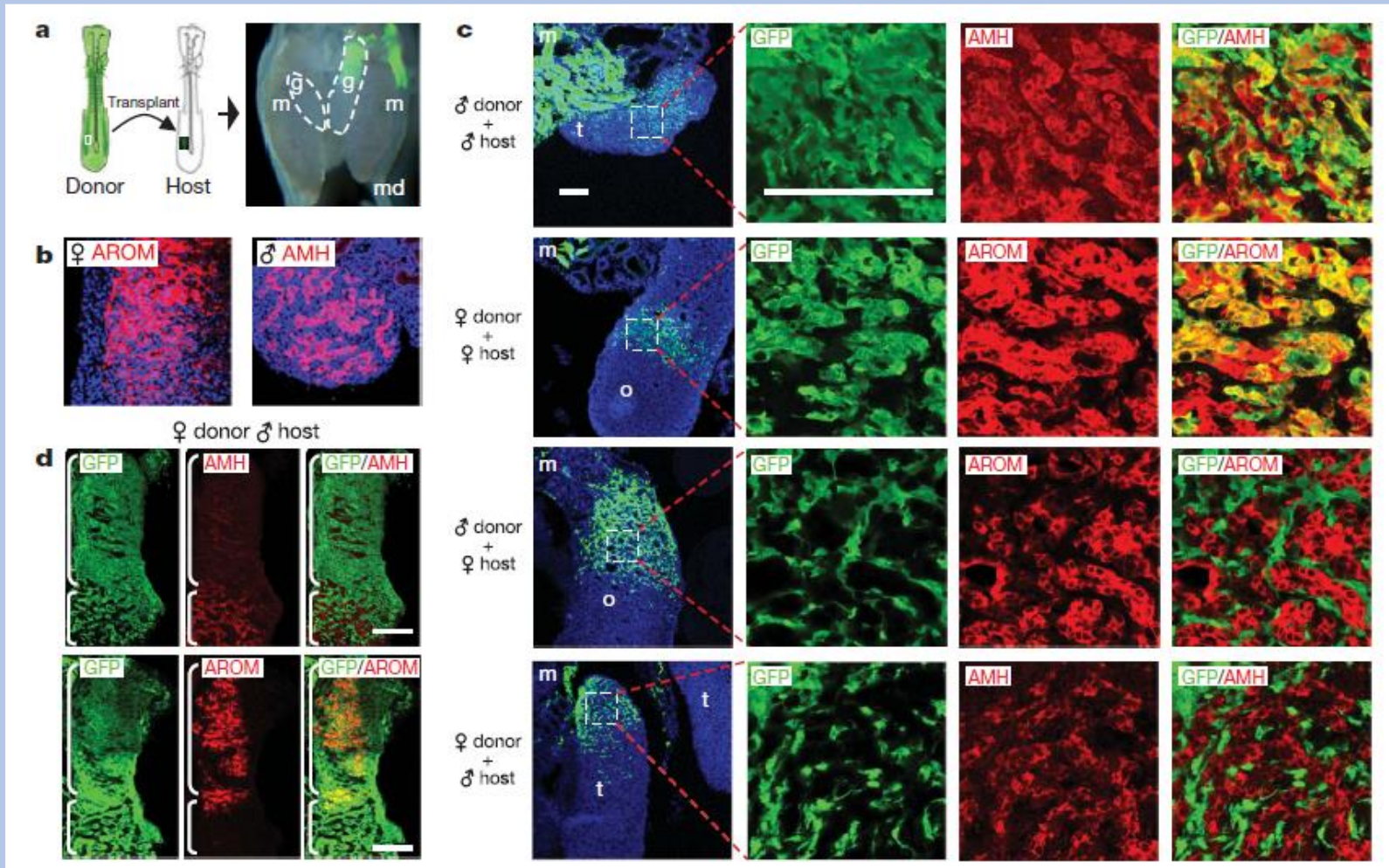
Dominância vs dosagem



Smirnov & Trukhina (2020) IntecOpen



Chue & Smith (2011) FEBS Journal 27: 1027-1034

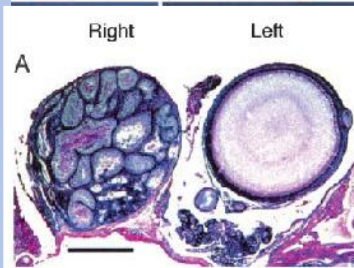


Ginandromorfismo em aves



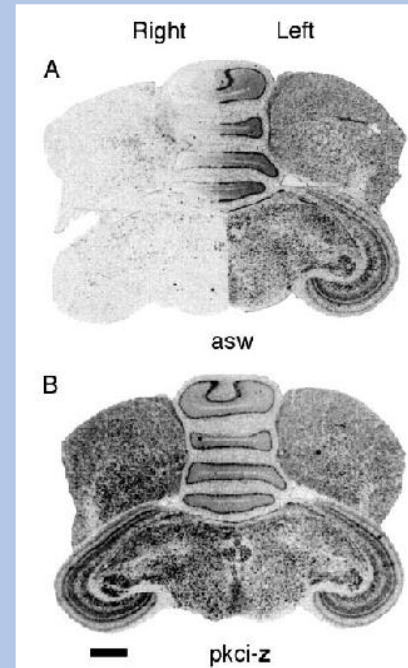
Cardeal

Tentilhão



Testiculo/ovario

Taeniopygia guttata



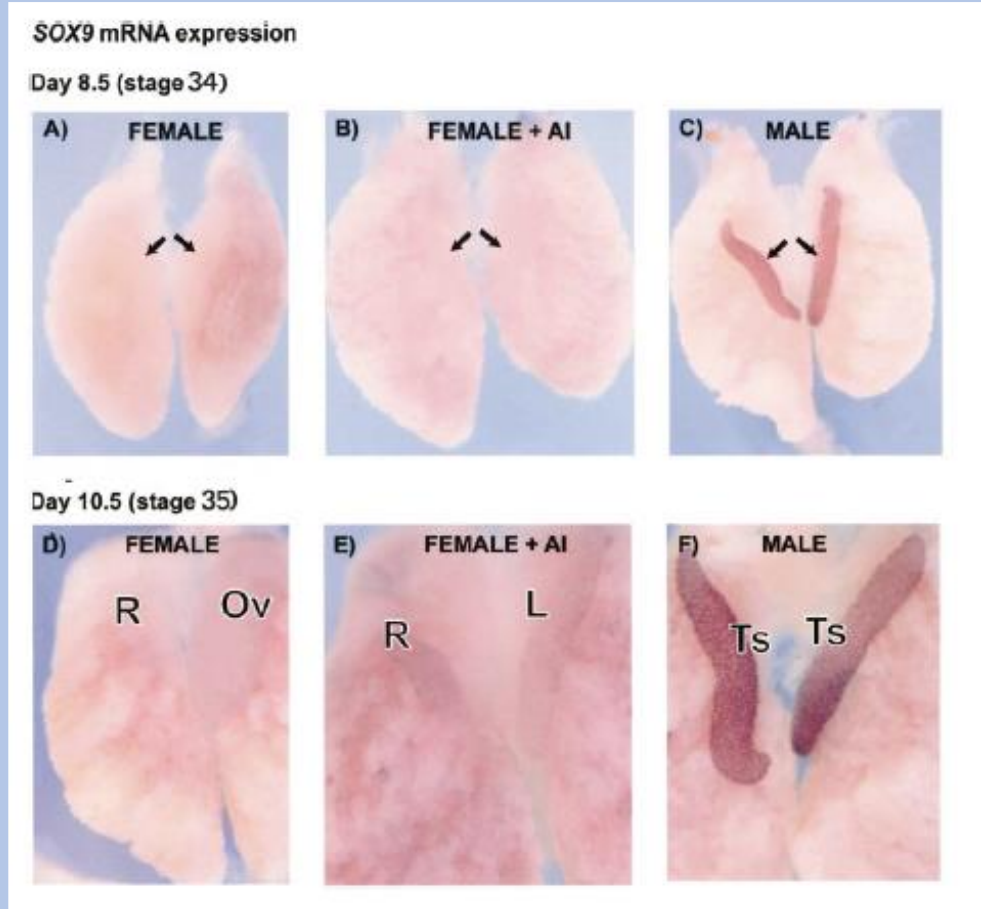
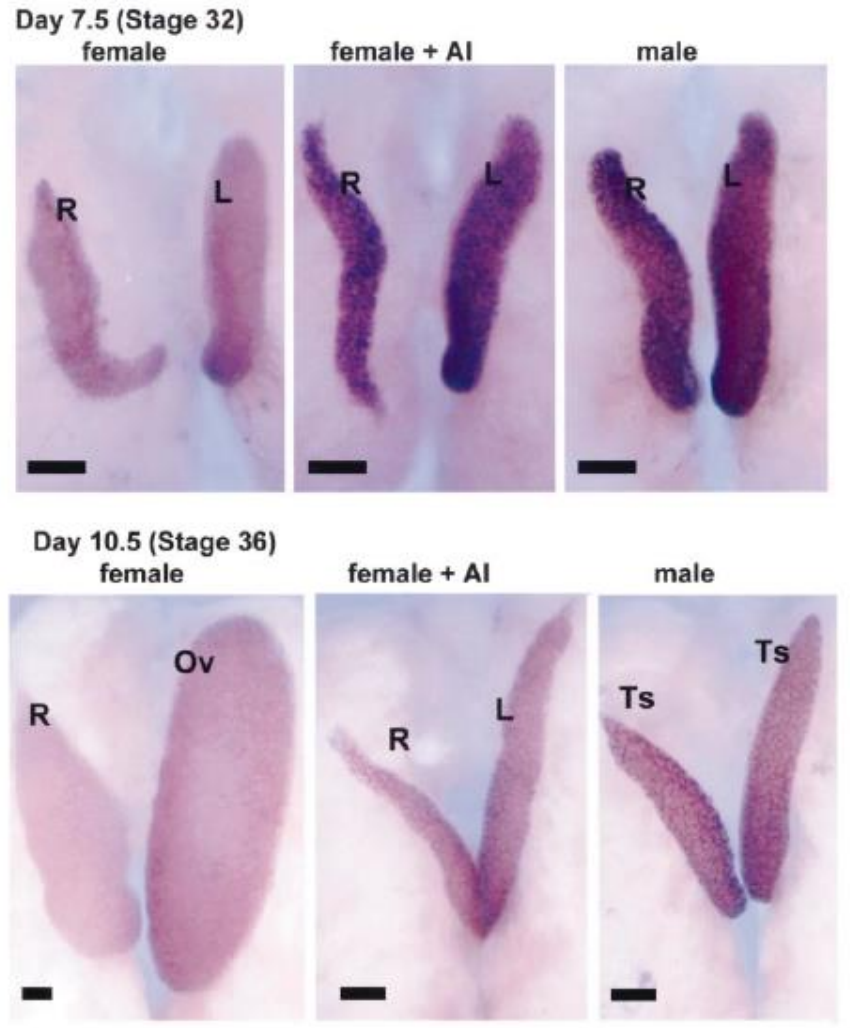
Cortes do cérebro

Mais escuro= atividade do gene

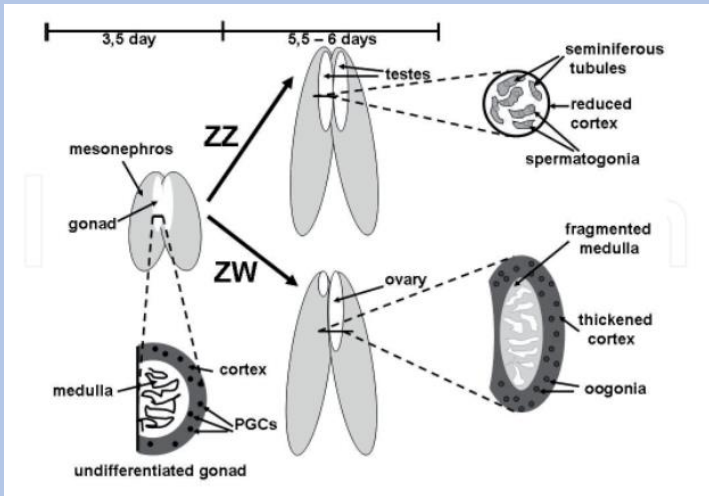
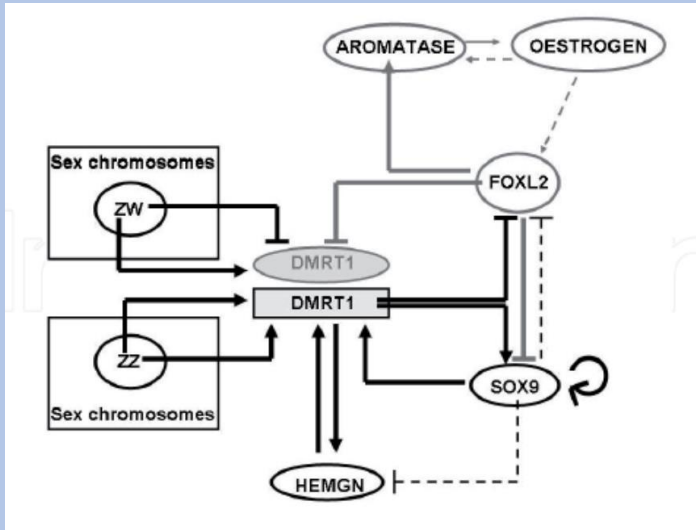
Asw → fêmeas (esquerda)

pkci-z → machos (direito)

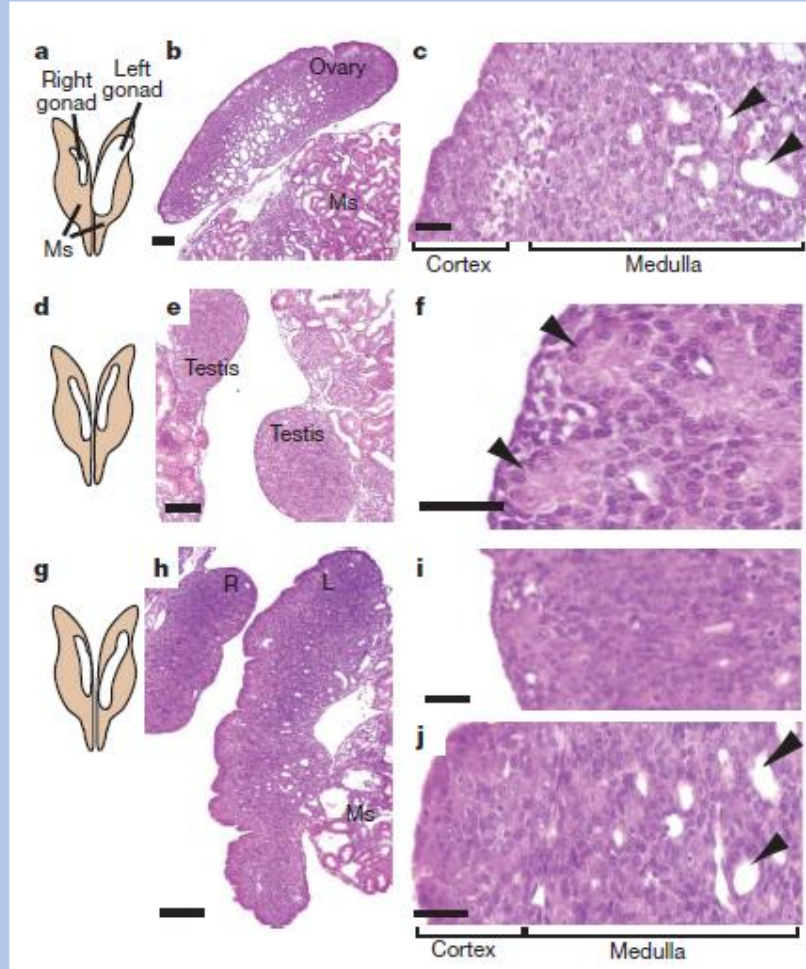
Expressão de DRMT1



Desenvolvimento das gônadas em *Gallus gallus*



Função do DMRT1

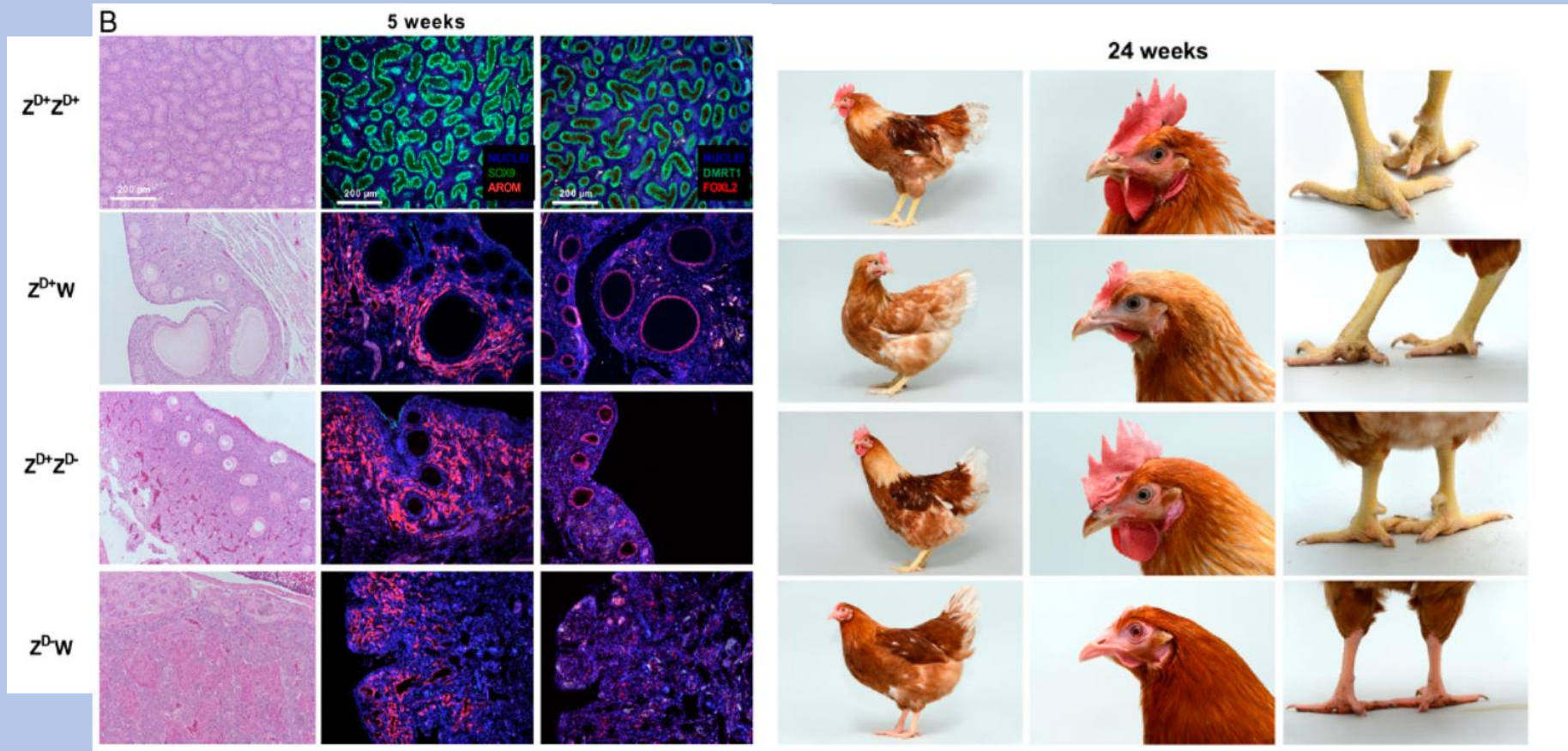


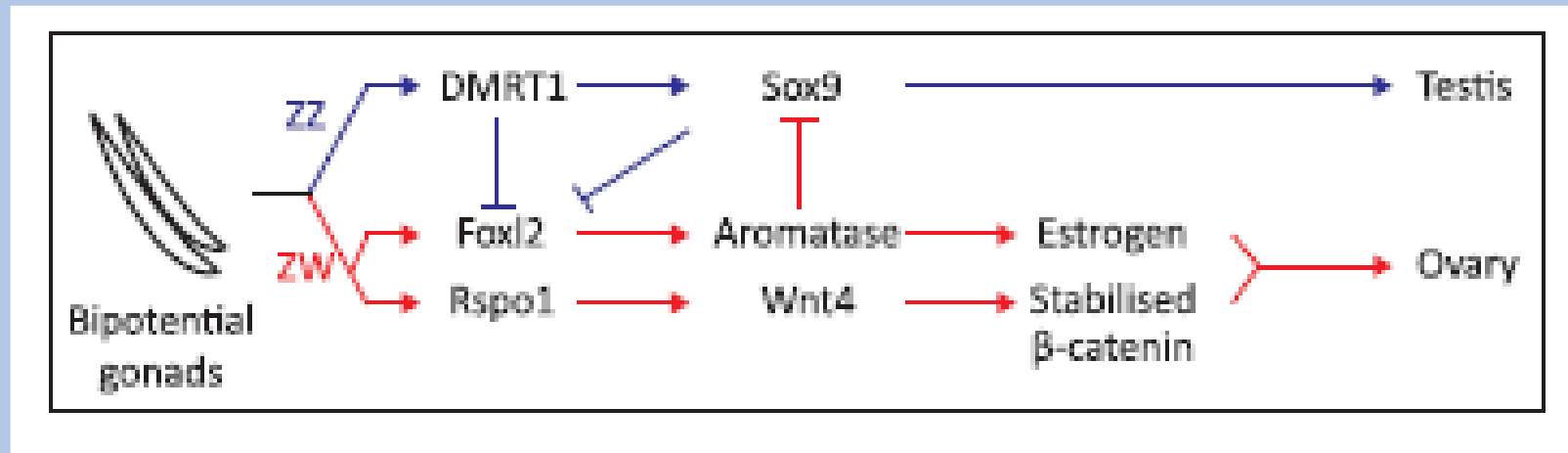
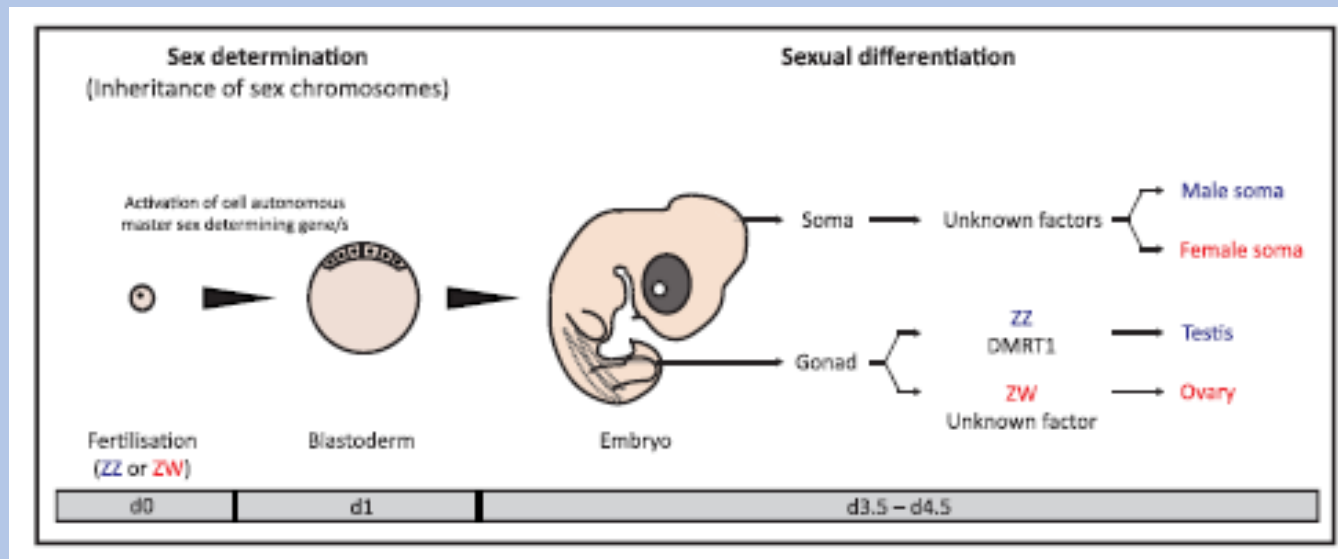
Fêmea

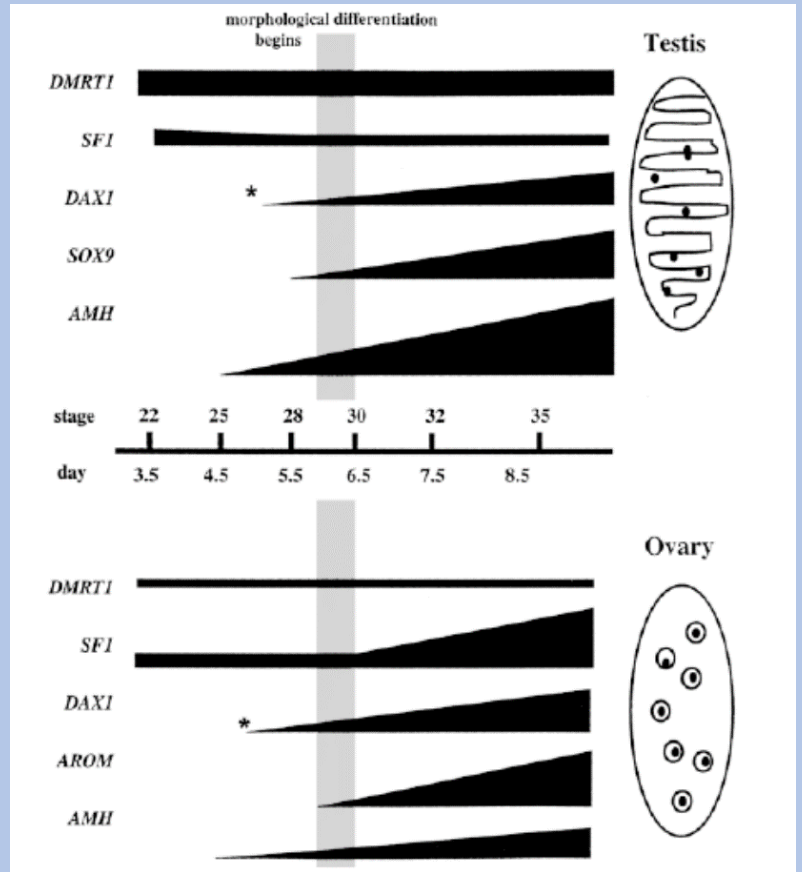
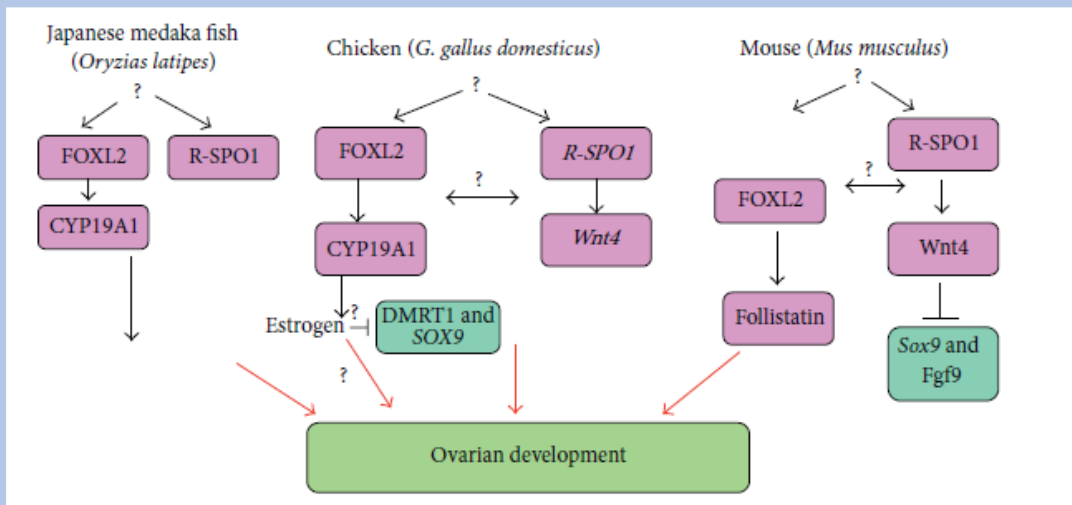
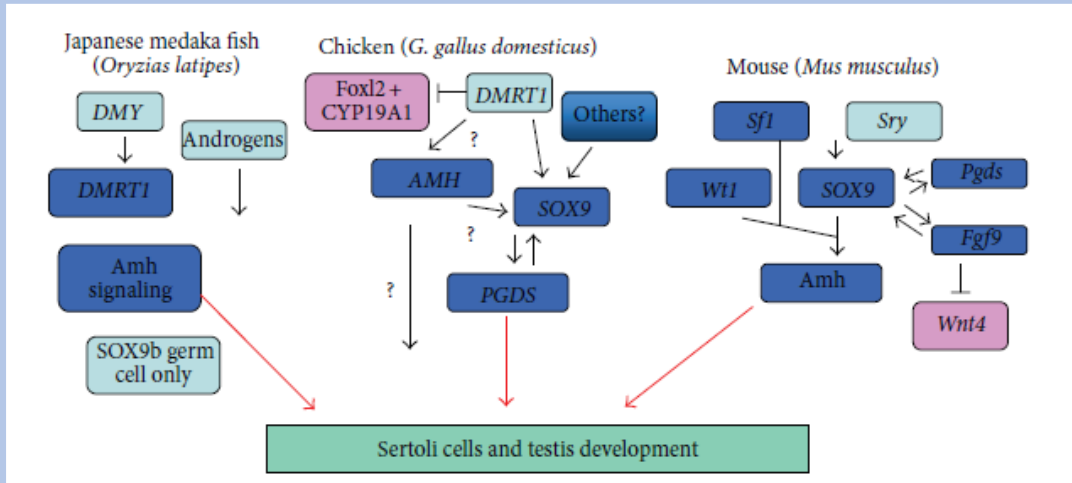
Macho

Macho
DMRT1 silenciado

Gônadas e fenótipos de mutantes do gene *DRMT1*





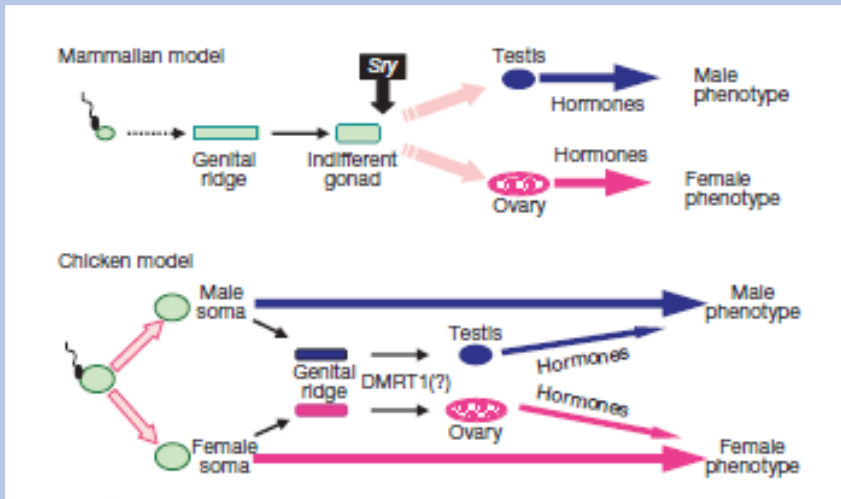
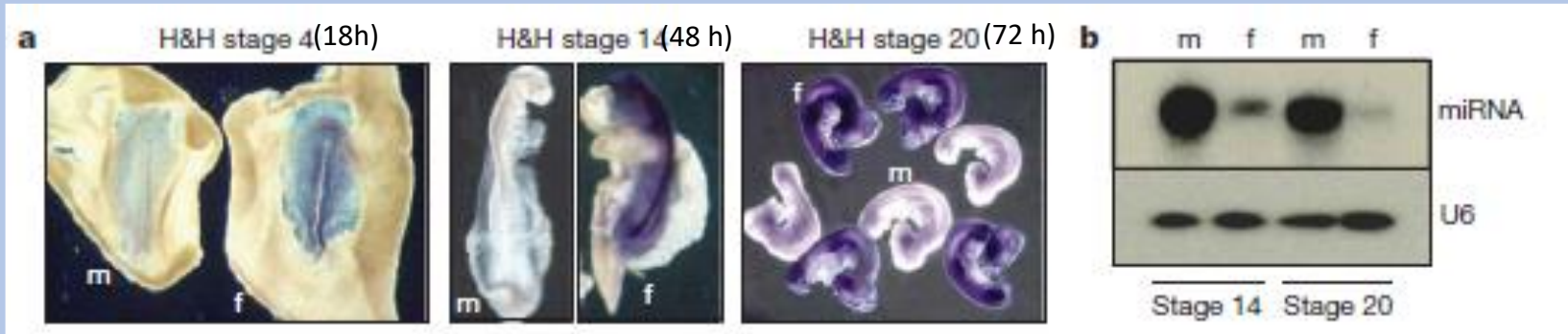


Trukhina et al. (2013) Bio Med Res Int, ID 587460 : 1-8

Smith et al. (2001)

Expressão do gene FAF (região inter-genes do W)

Expressão de *mir-2954* (Z)



Mamíferos → genes → sexo soma ? → gônadas → hormônios → fenótipos sexuais

Aves → genes → fenótipo sexual (células individuais) → genes → gônadas