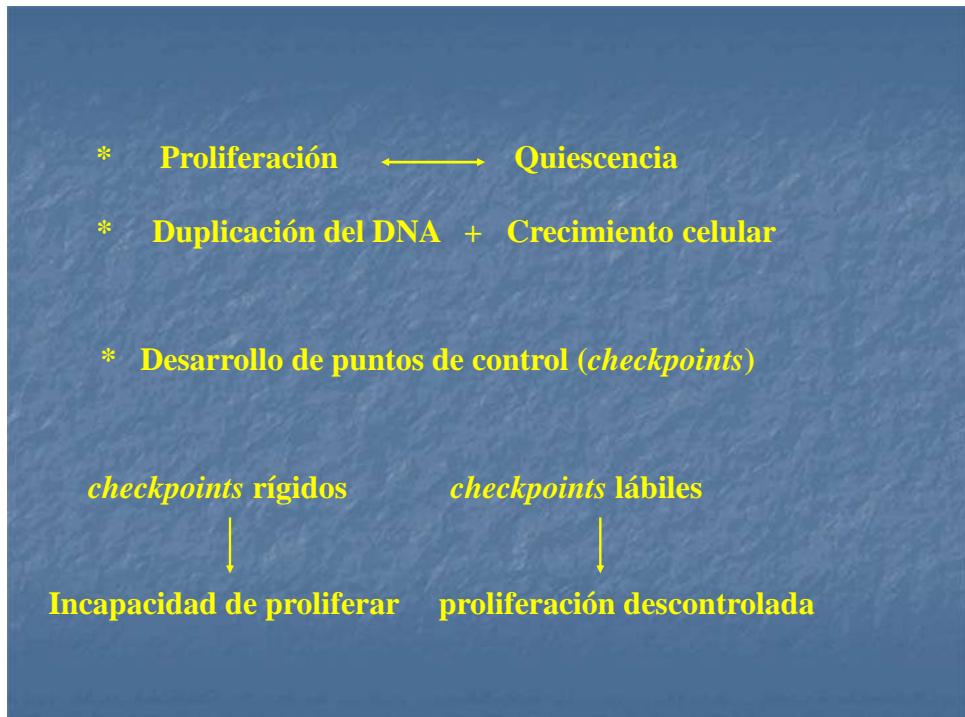
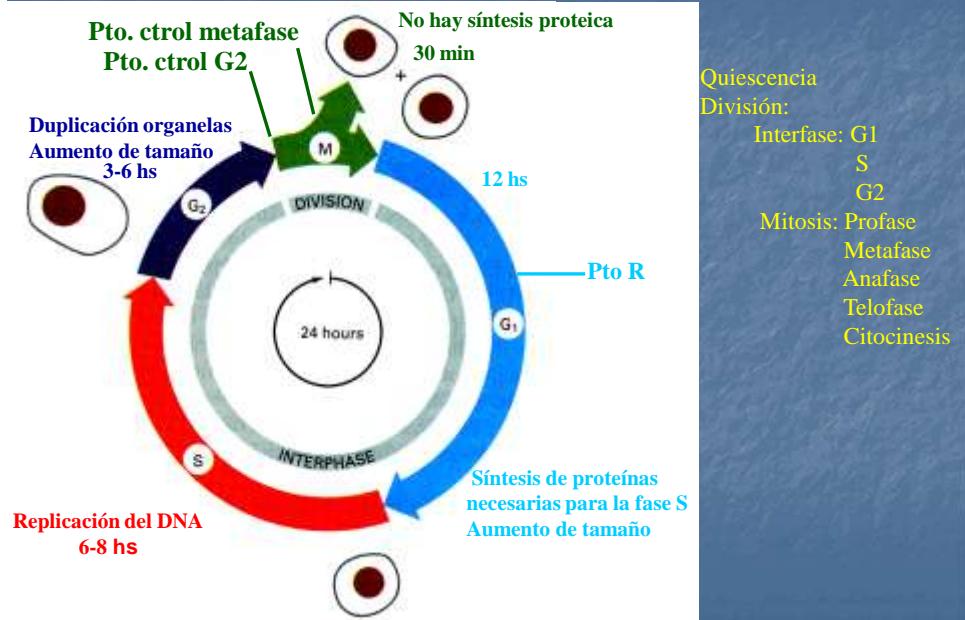
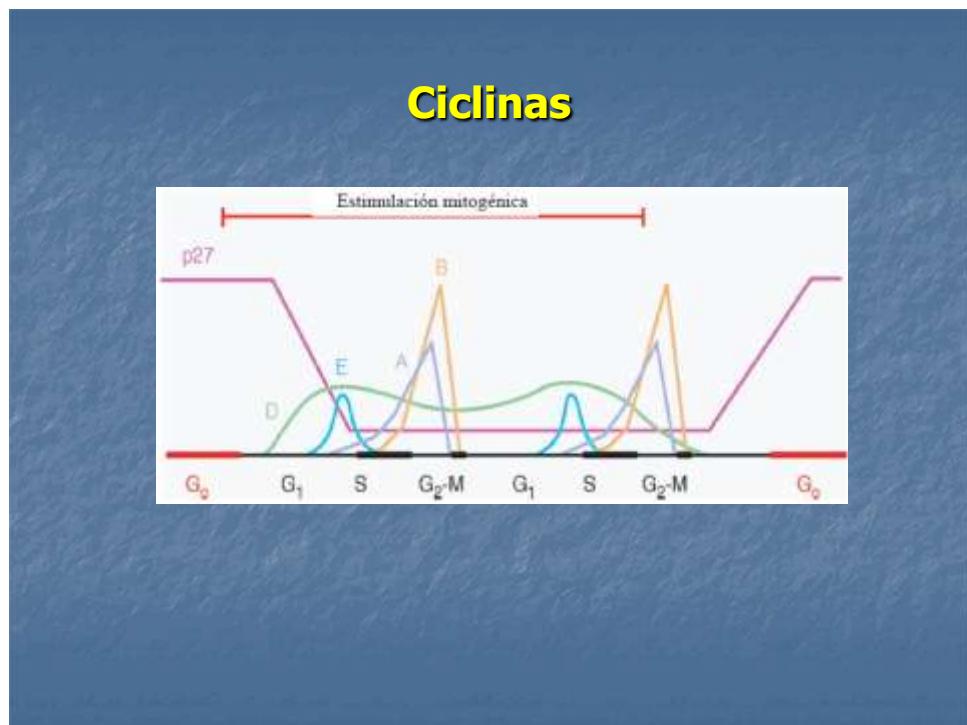
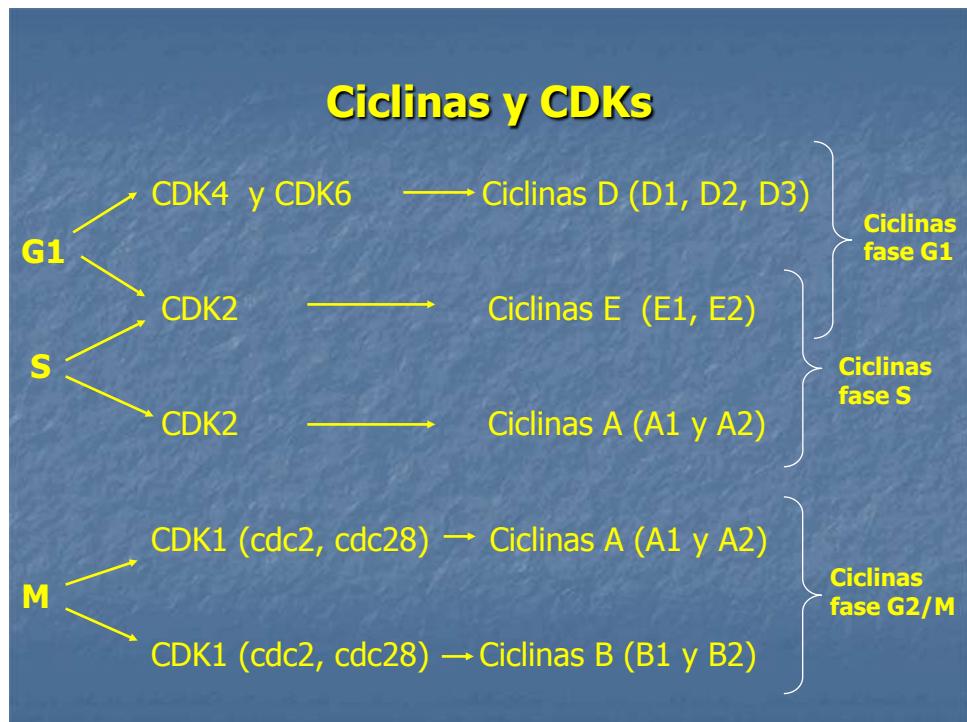
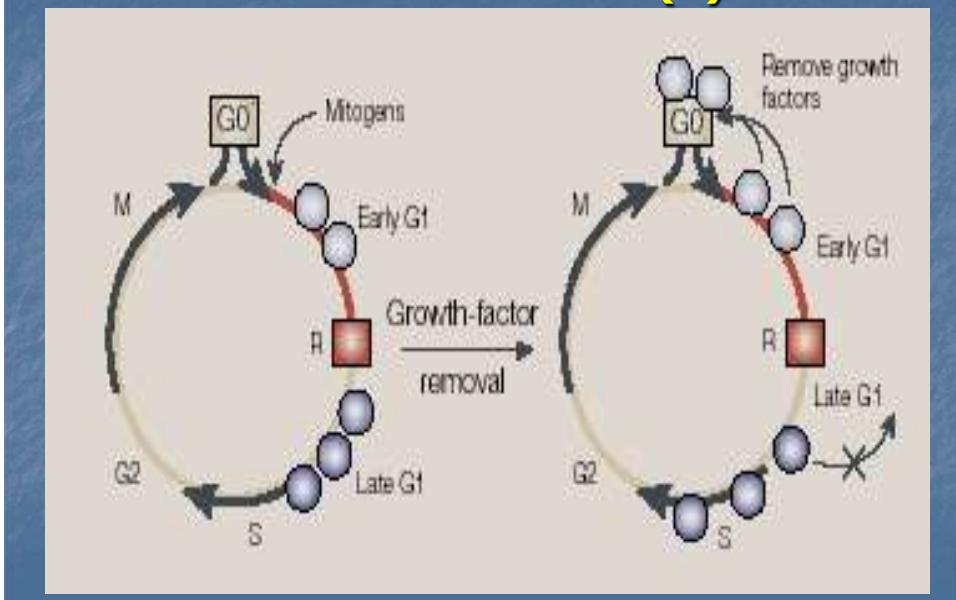


Ciclo celular



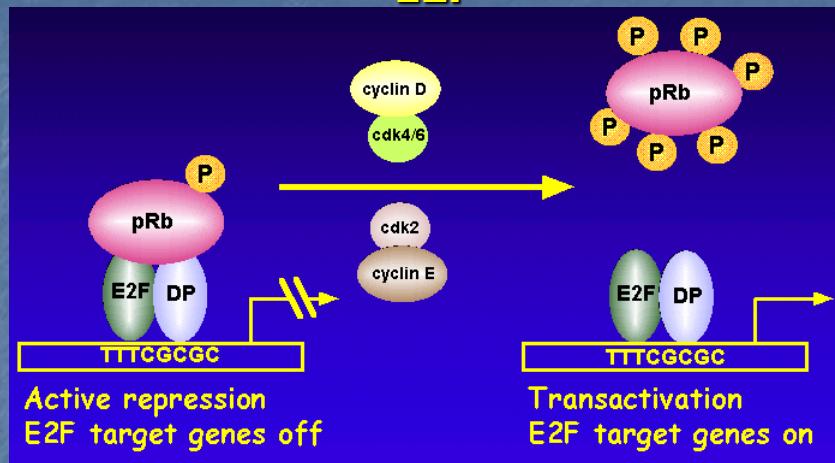


Punto de restricción (R)



Nat. Rev. Cancer 1 (2001), 222

Activación de la proteína regulatoria E2F



Algunos genes regulados por E2F:

- * Ciclina D1
- * Ciclina E
- * p16

Inhibidores de CDKs (CKIs)

Familia Cip/Kip

- p21 Cip1/Waf1 (CDKN1A)
- p27 Kip1 (CDKN1B)
- p57 Kip2 (CDKN1C)

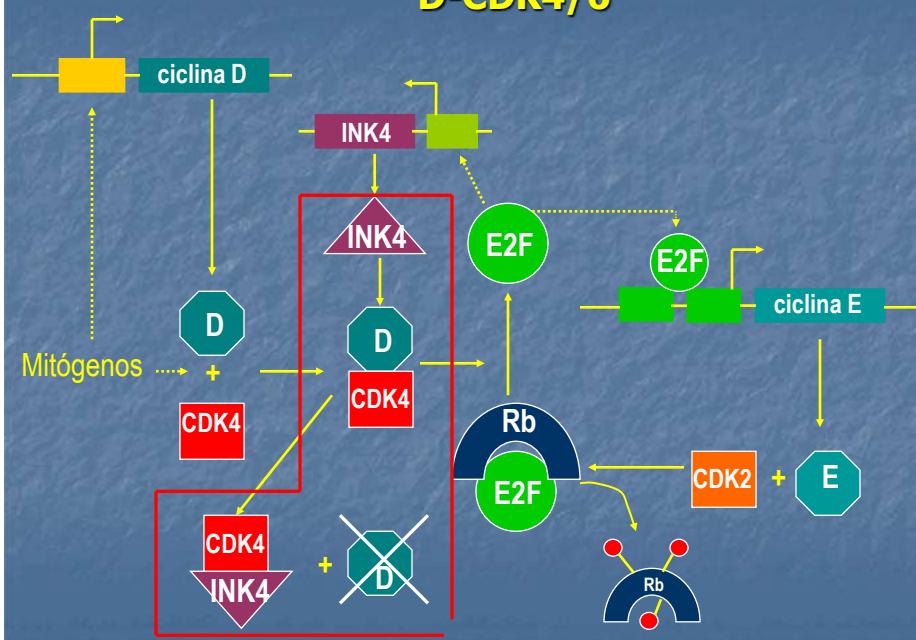


Familia INK4

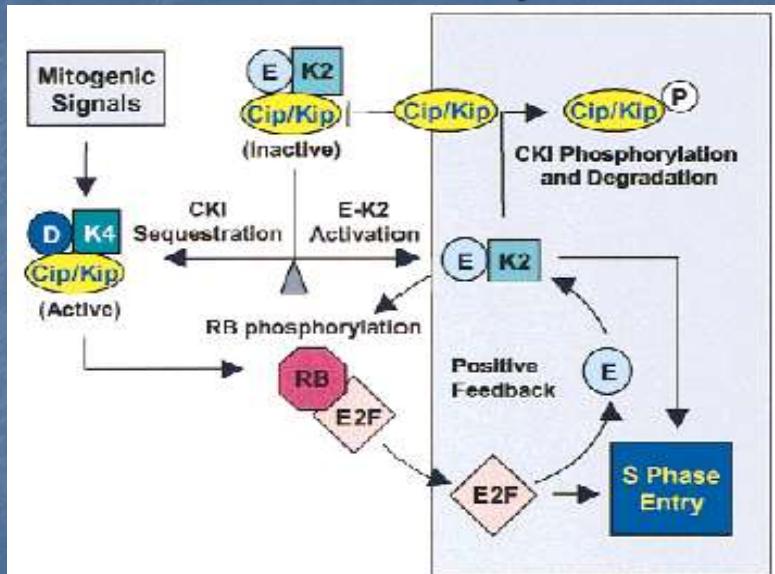
- p16 INK4a (CDKN2A)
- p15 INK4b (CDKN2B)
- p18 INK4c (CDKN2C)
- p19 INK4d (CDKN2D)



Proteínas INK4 inhiben el complejo ciclina D-CDK4/6



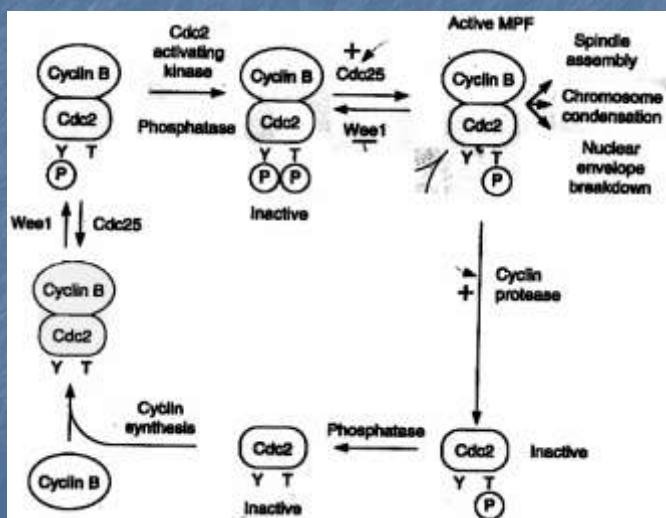
Transición G1/S



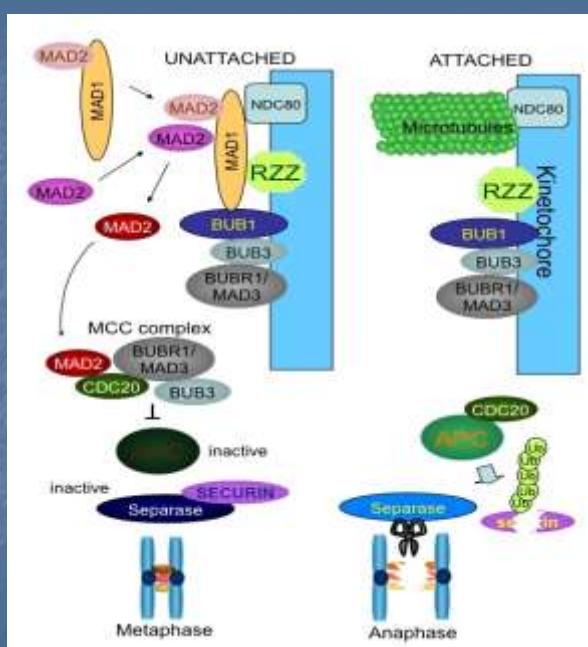
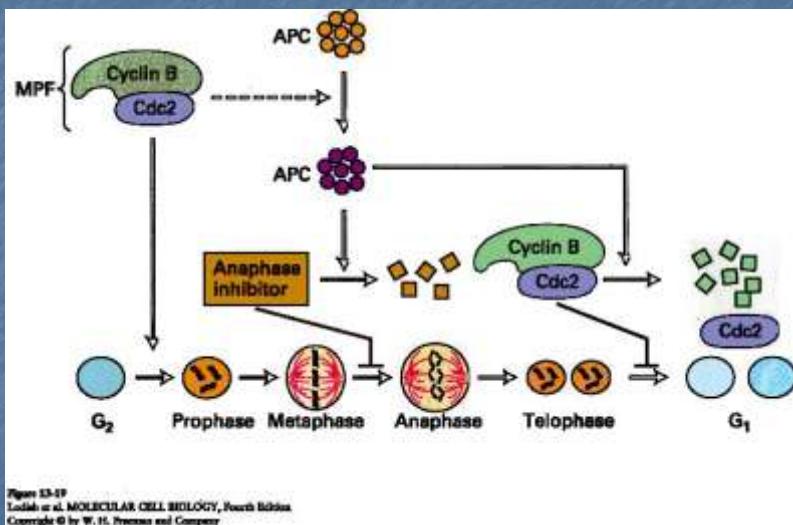
Genes Dev. 13 (1999), 1501

Activación del MPF (ciclinaB/CDK1)

Fase M



Mecanismo de acción de APC



Mecanismo de acción de APC

