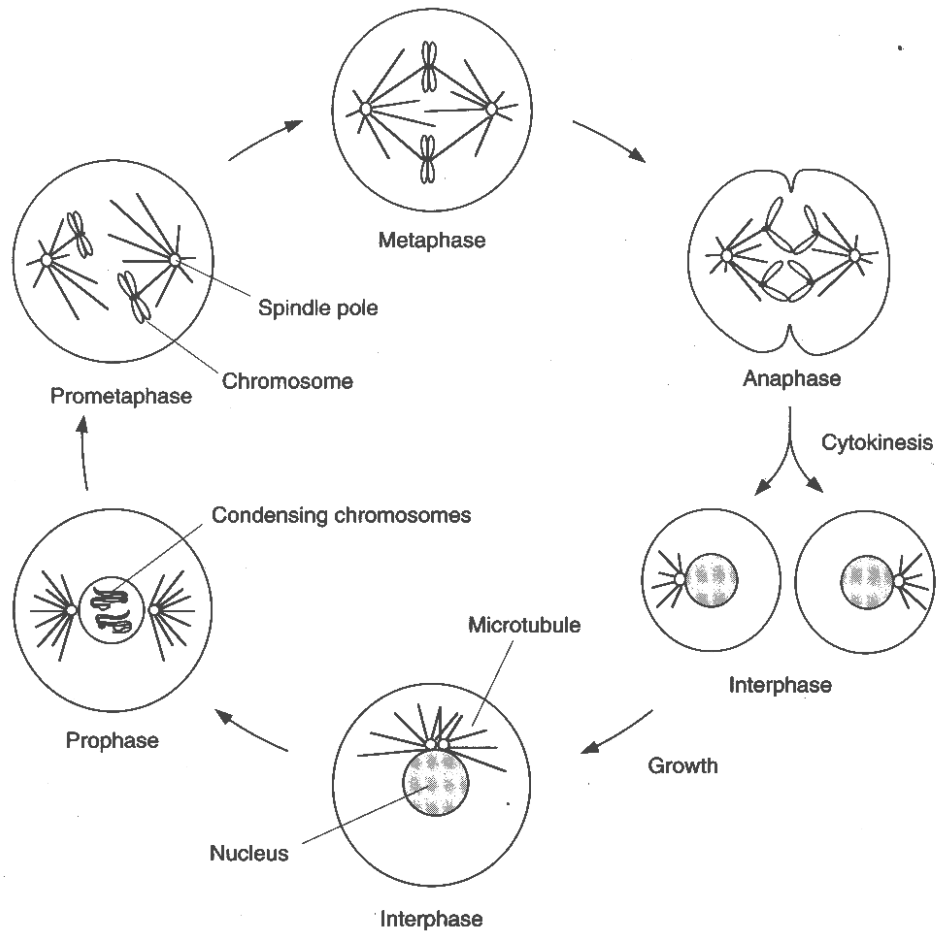


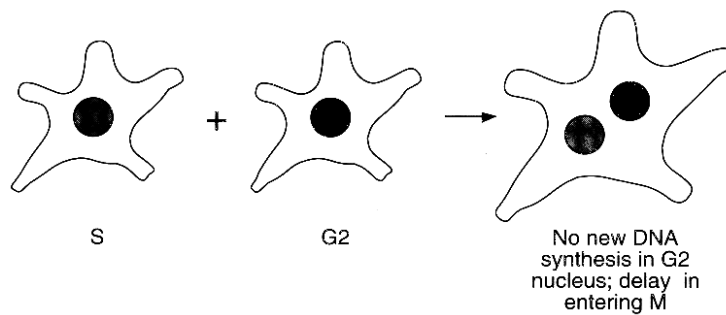
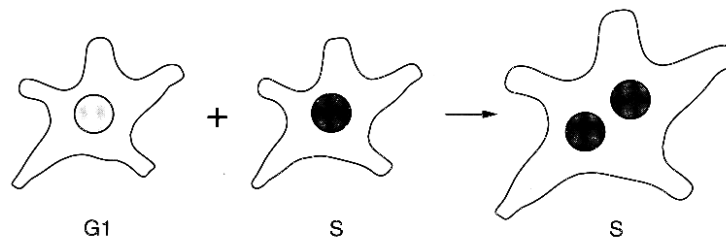
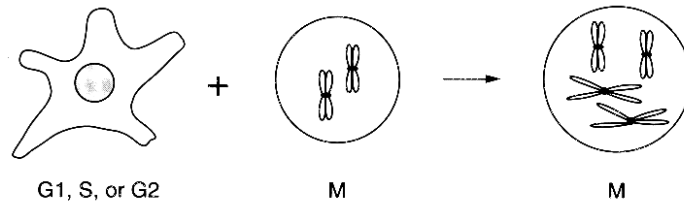


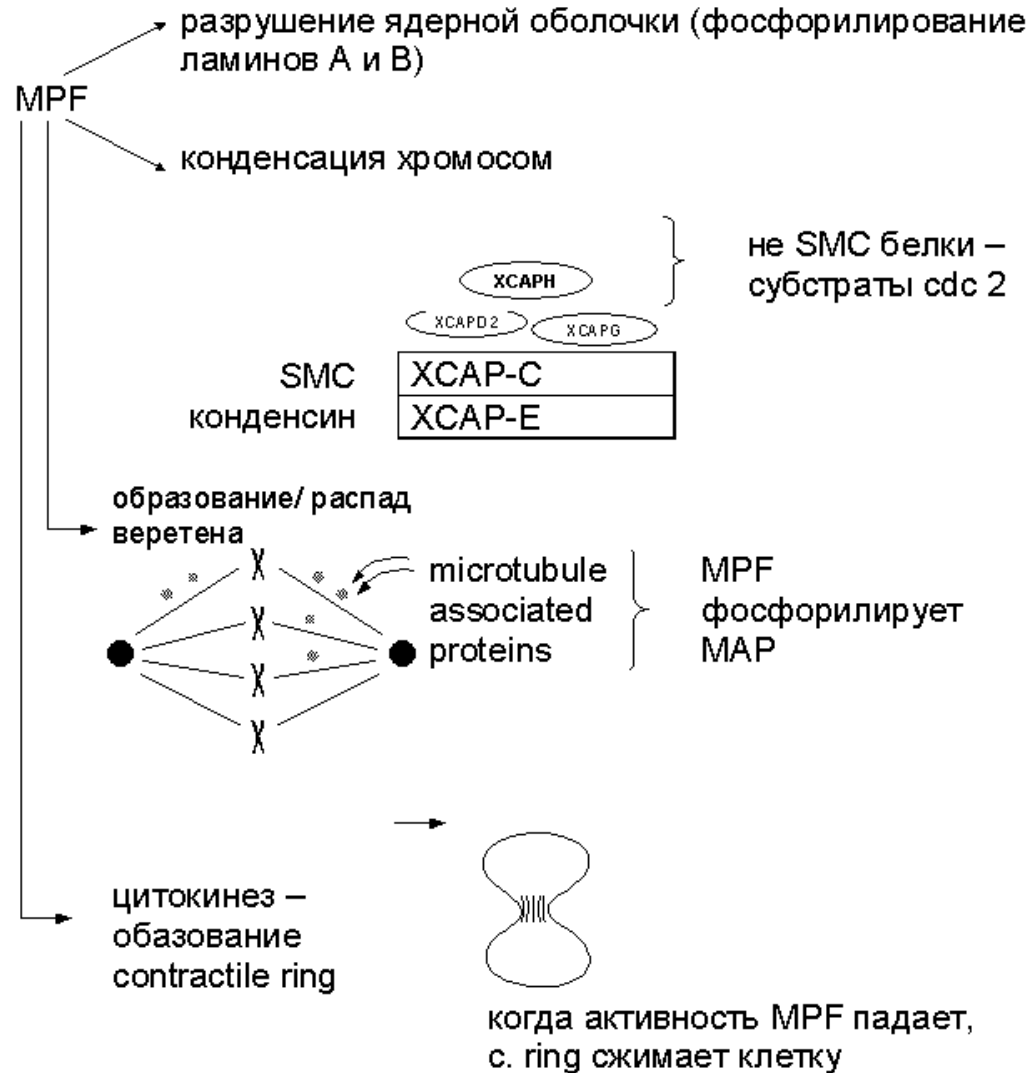
Экспериментальное изучение и моделирование клеточного цикла



Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia









Как записать уравнения химической кинетики?



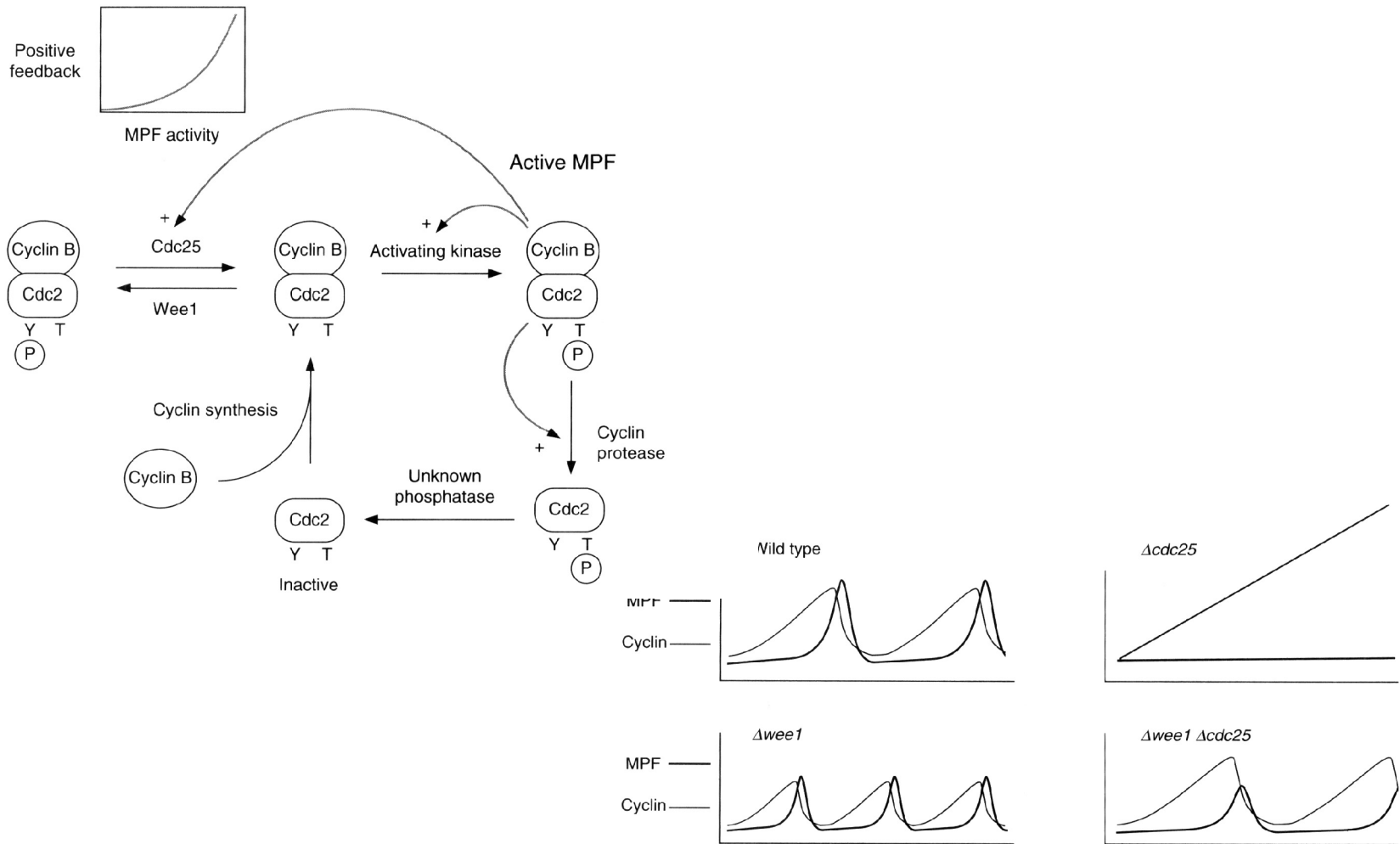
$$dA / dt = -k_{AB}$$

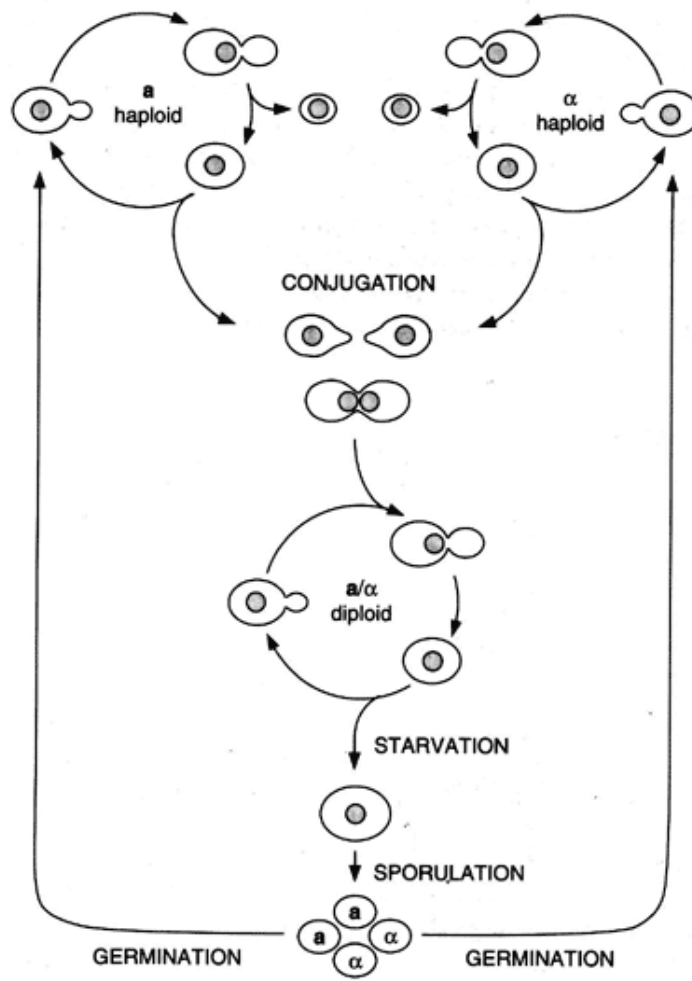
$$dB / dt = -k_{AB}$$

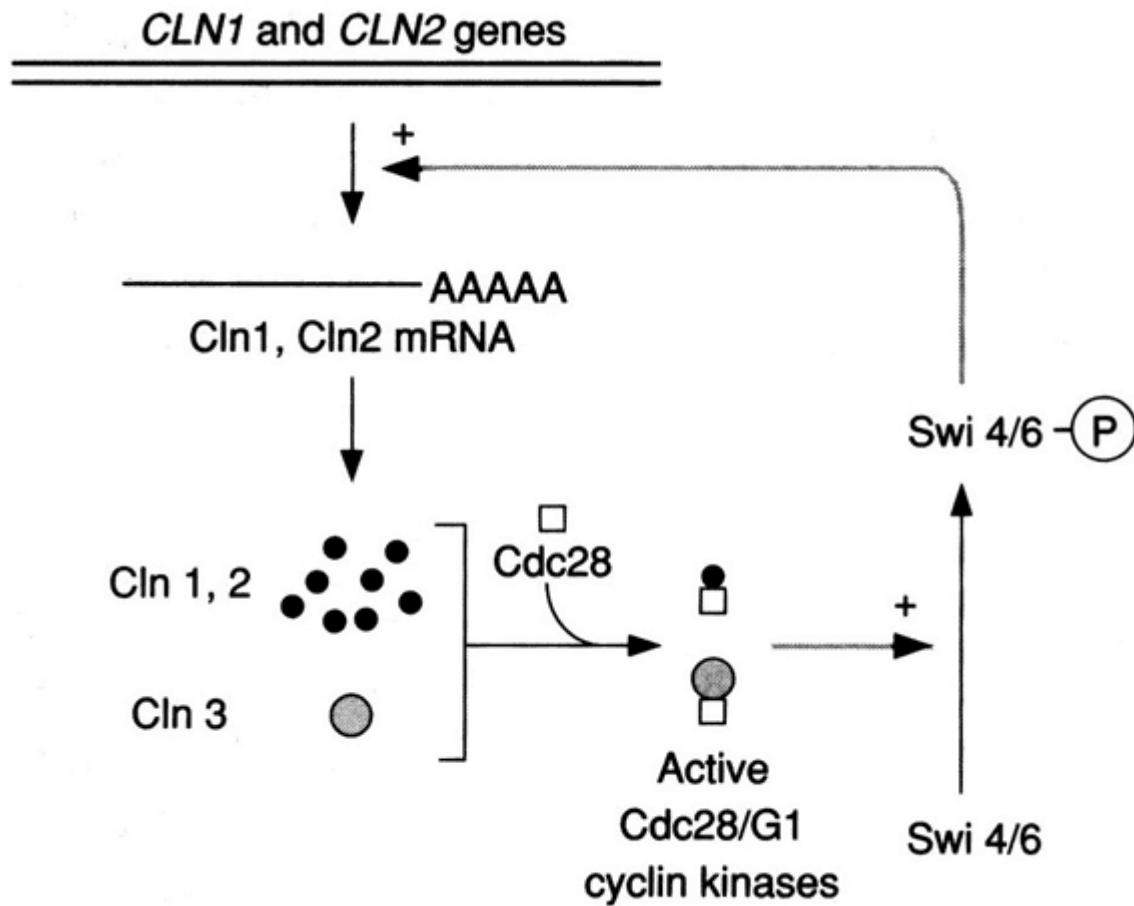
$$dC / dt = k_{AB}$$



Модель клеточного осциллятора

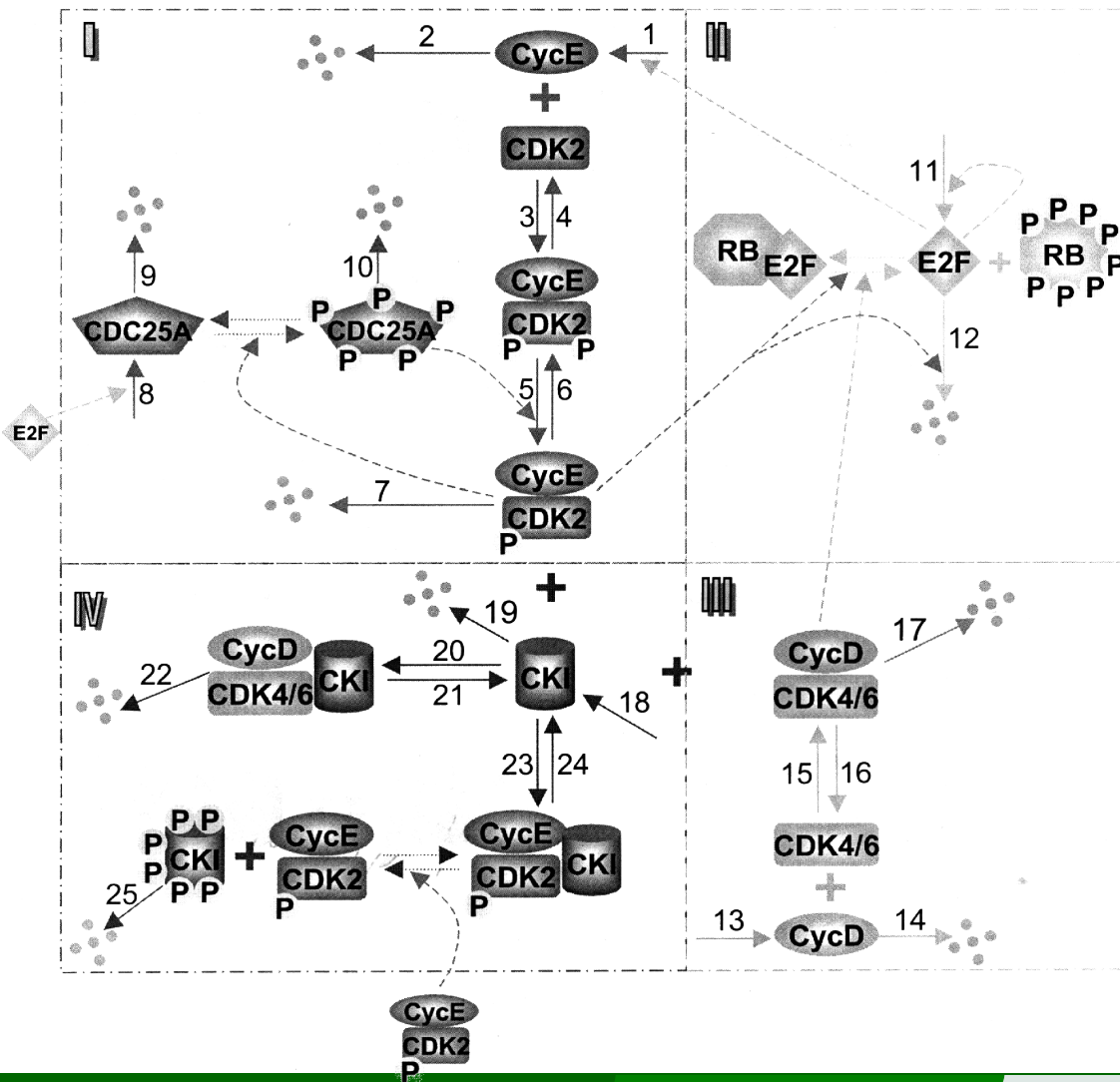


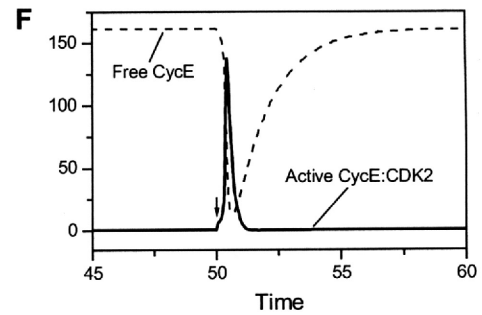
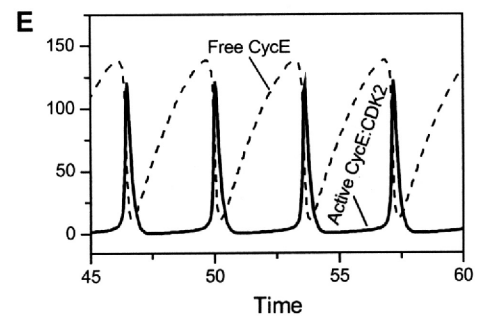
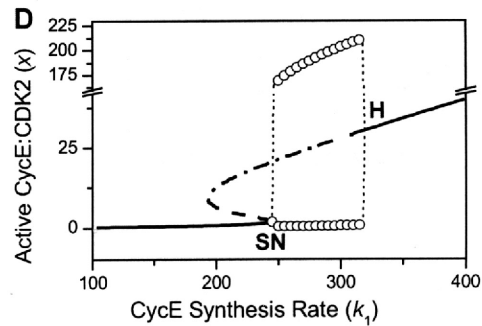
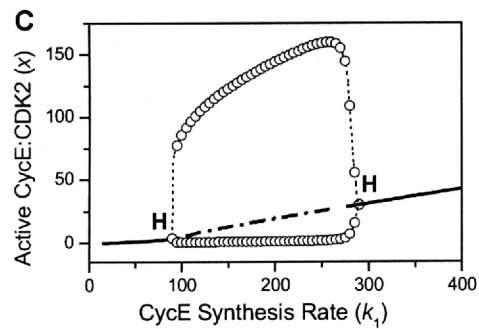
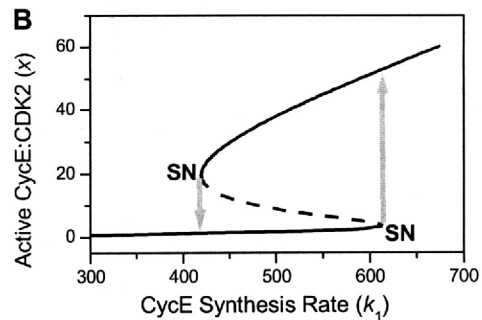
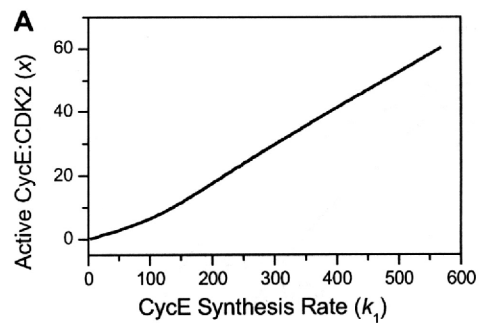


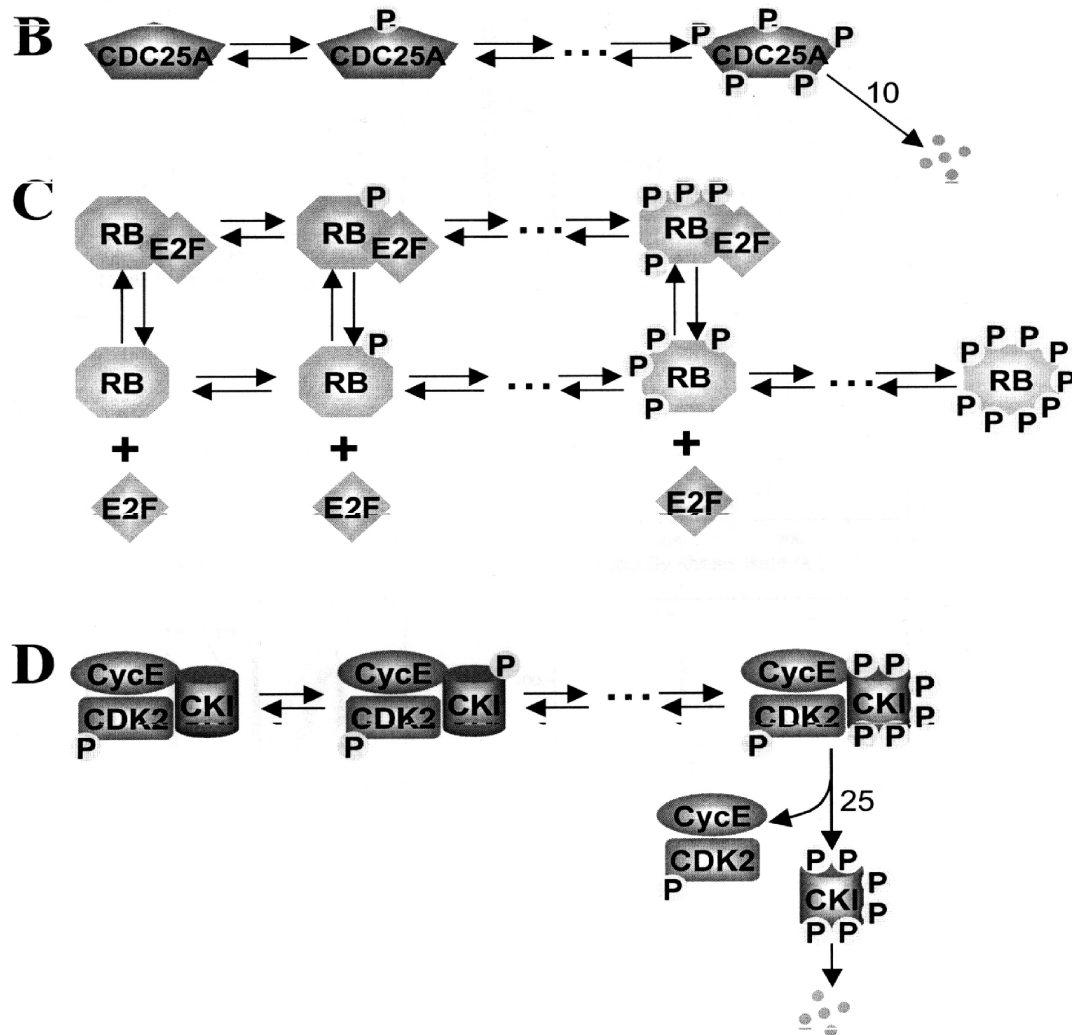


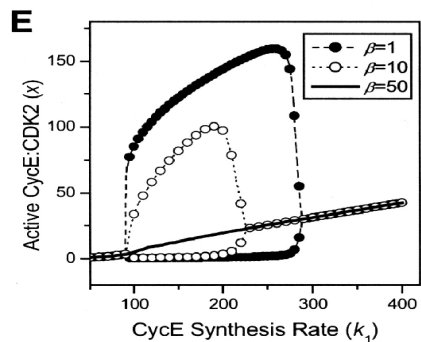
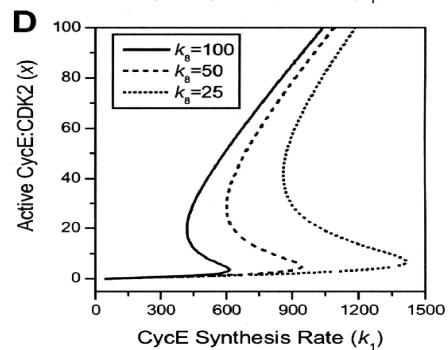
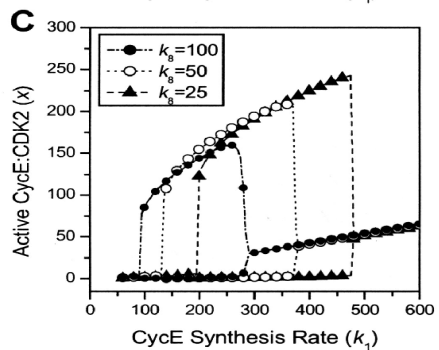
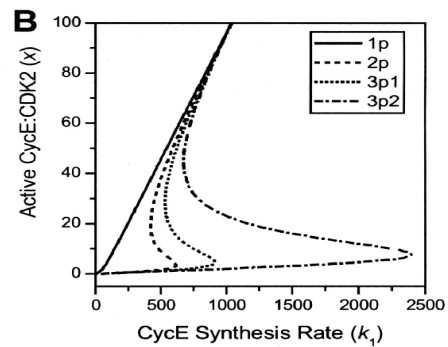
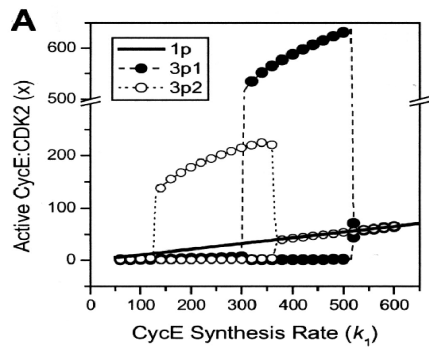


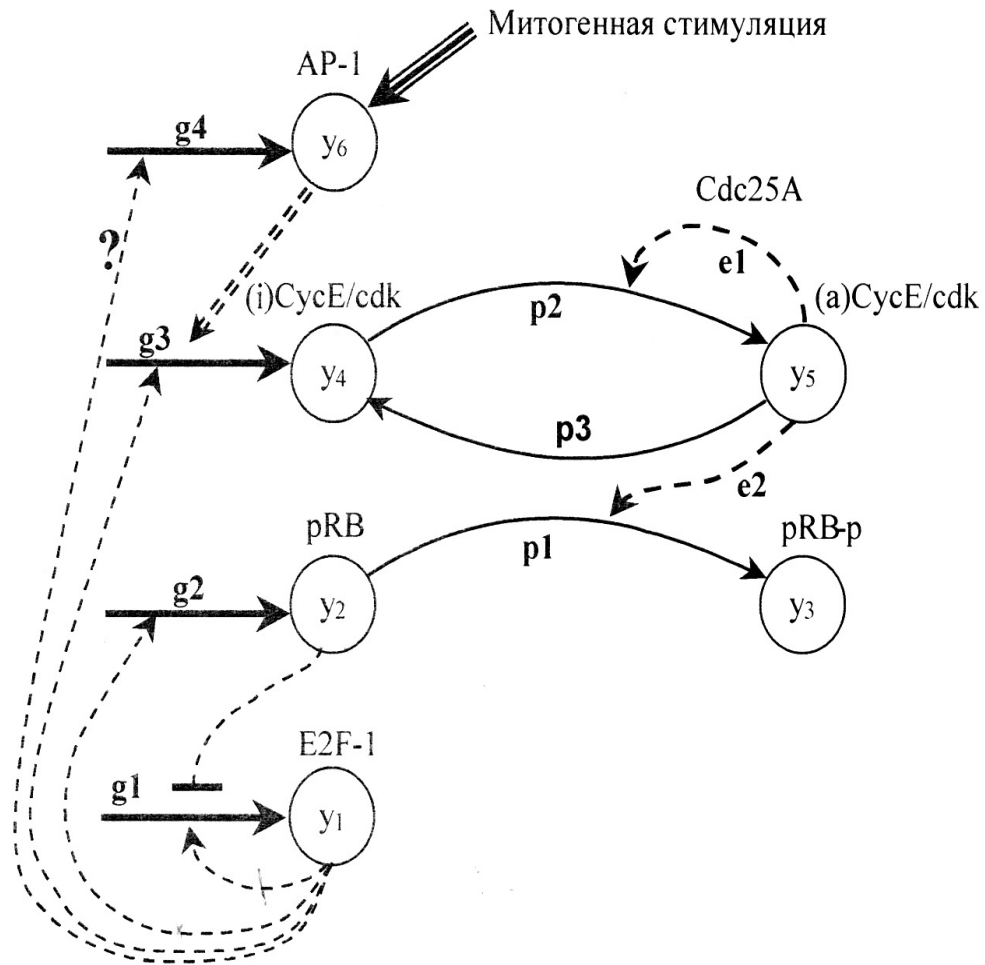
Модель перехода G1-S

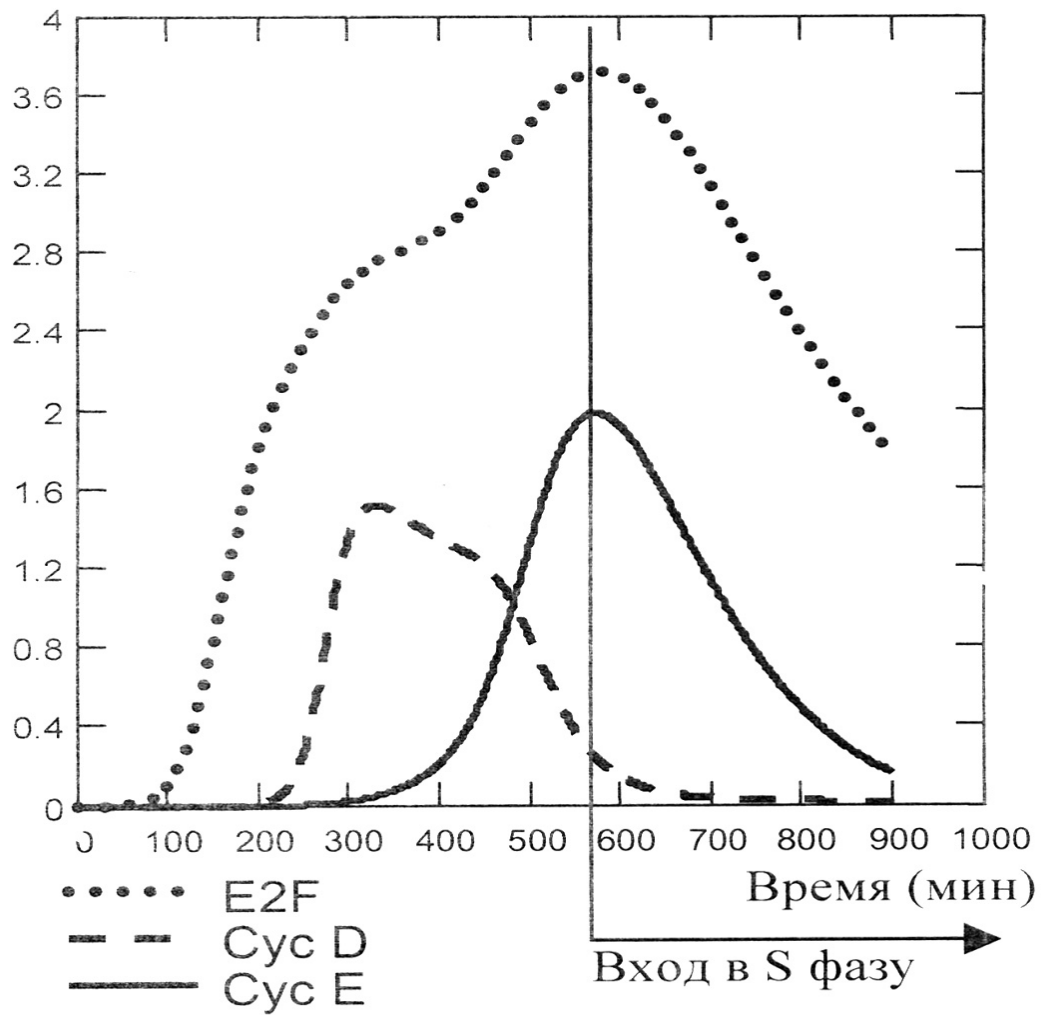


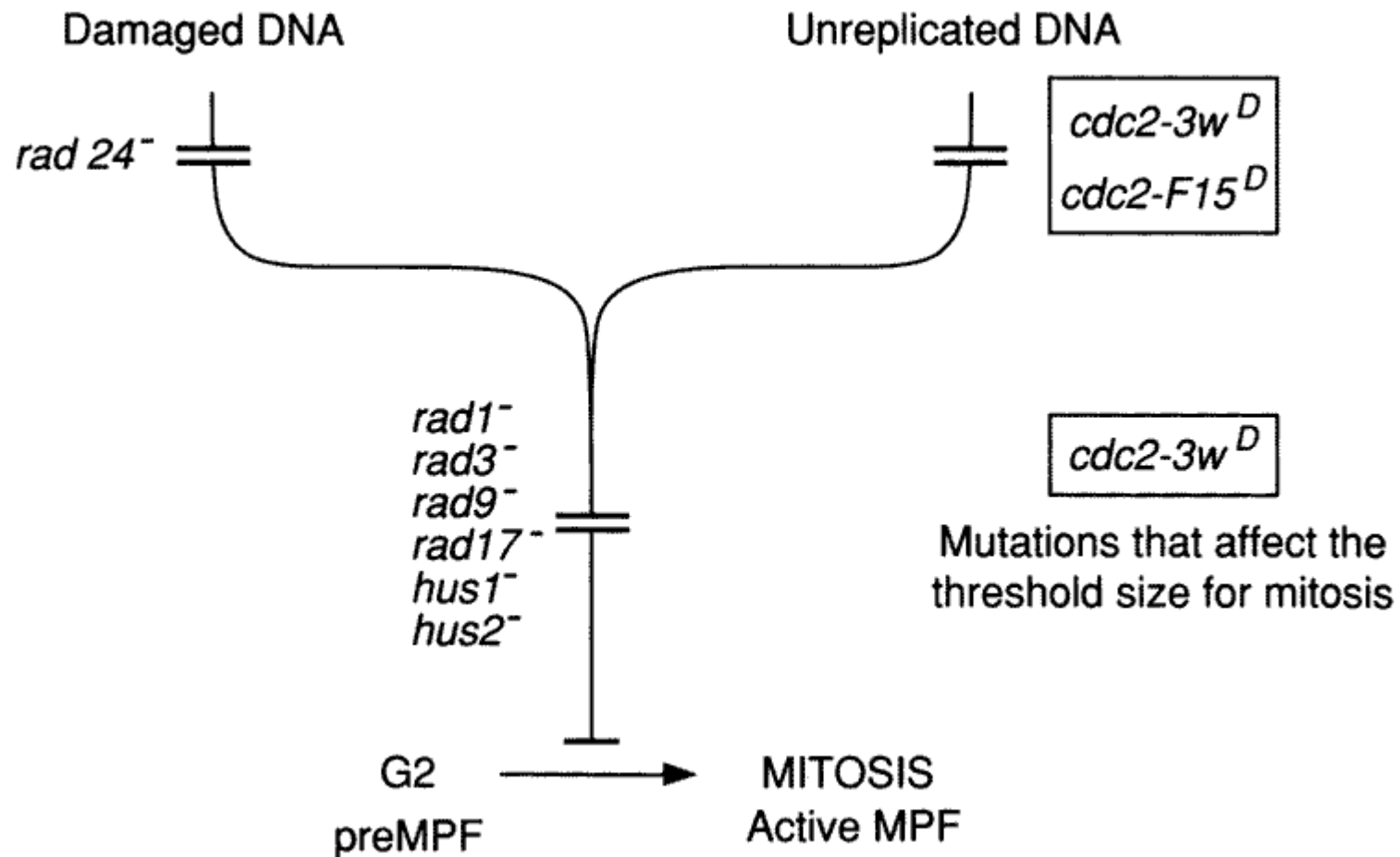


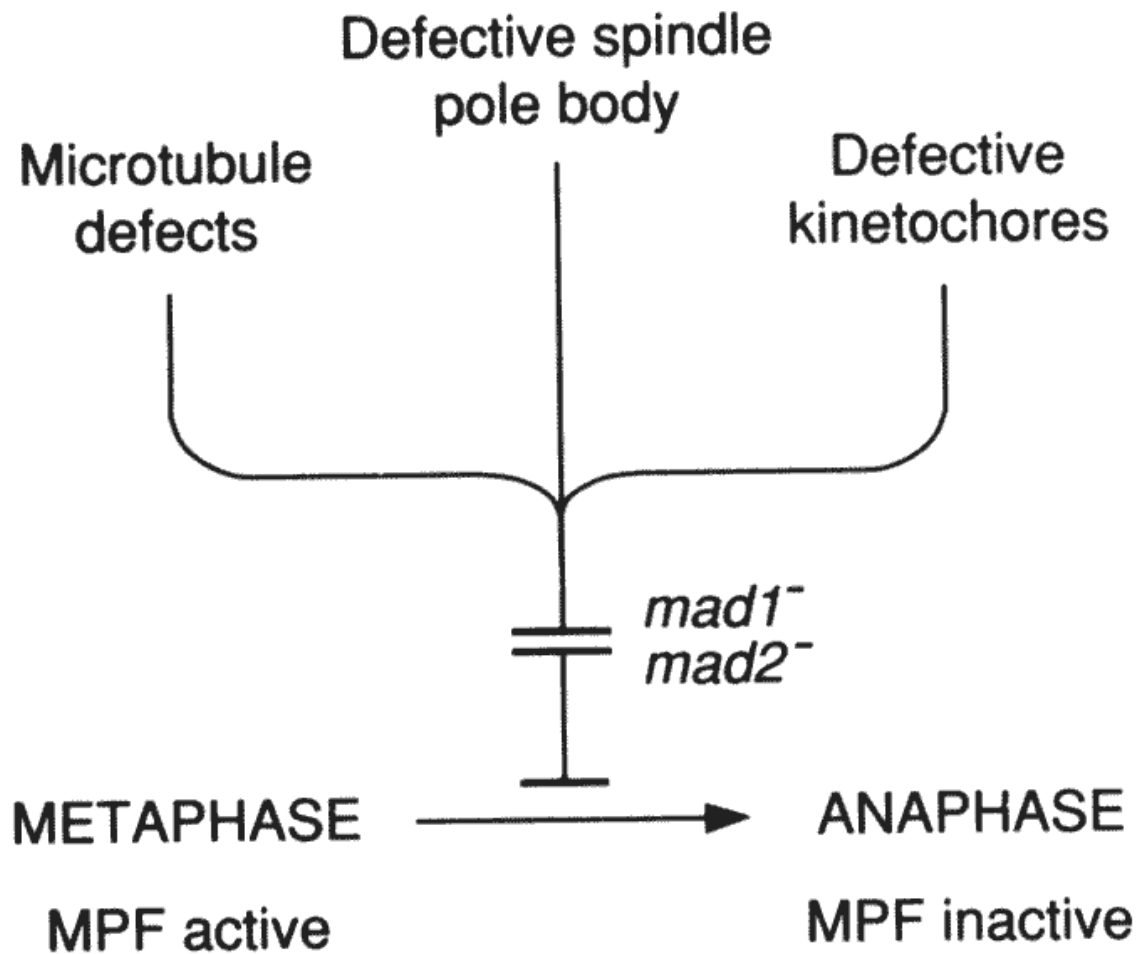


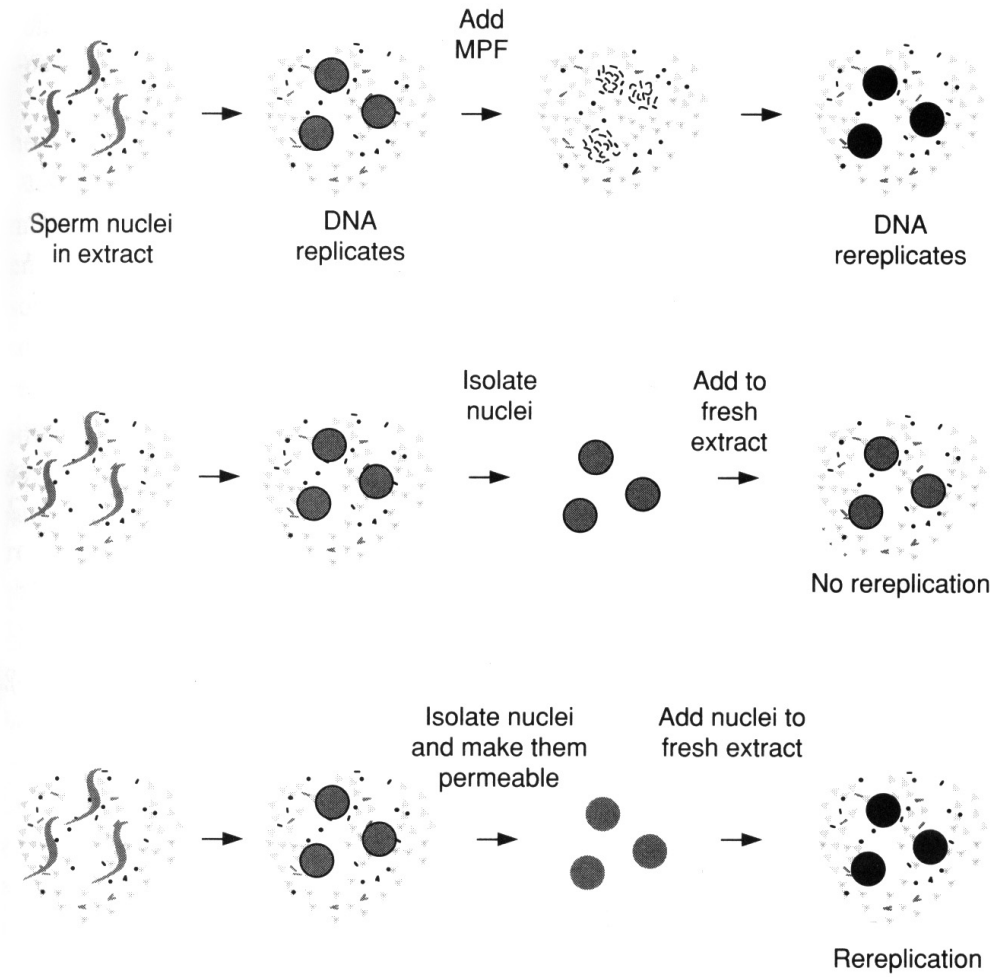


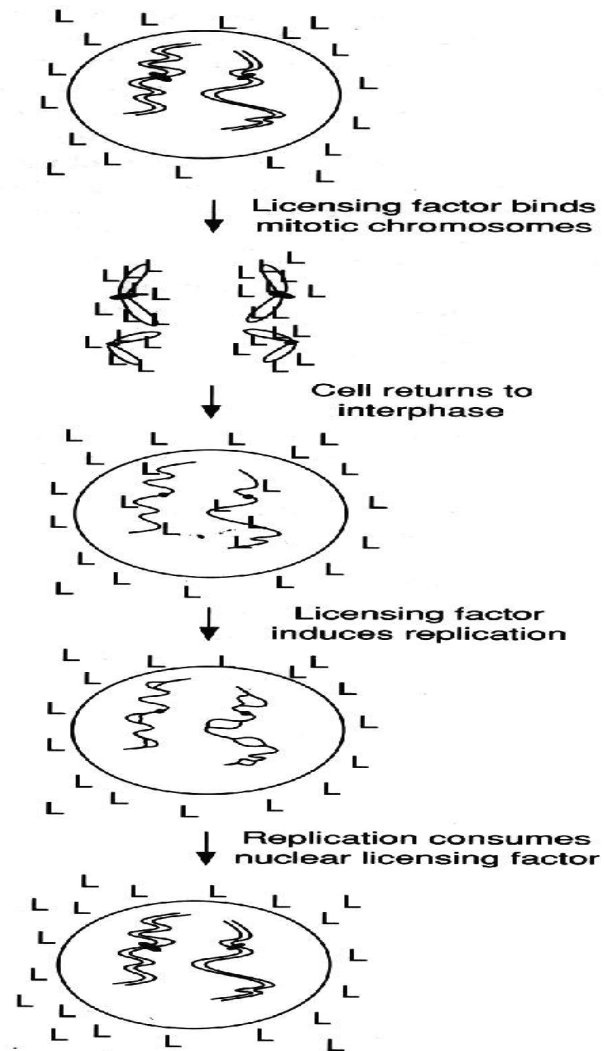


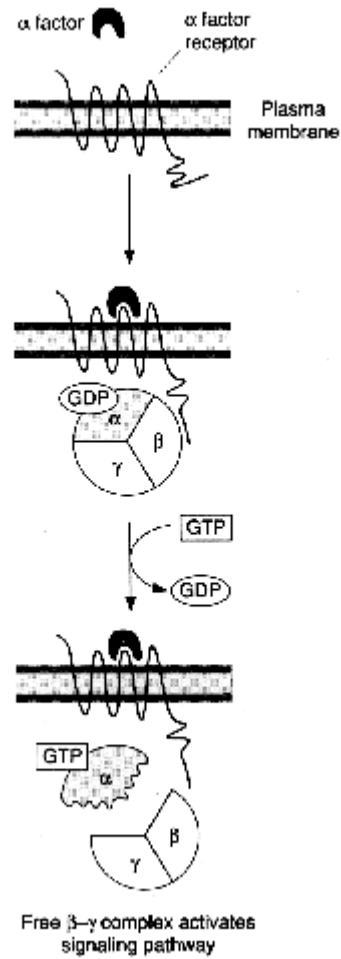


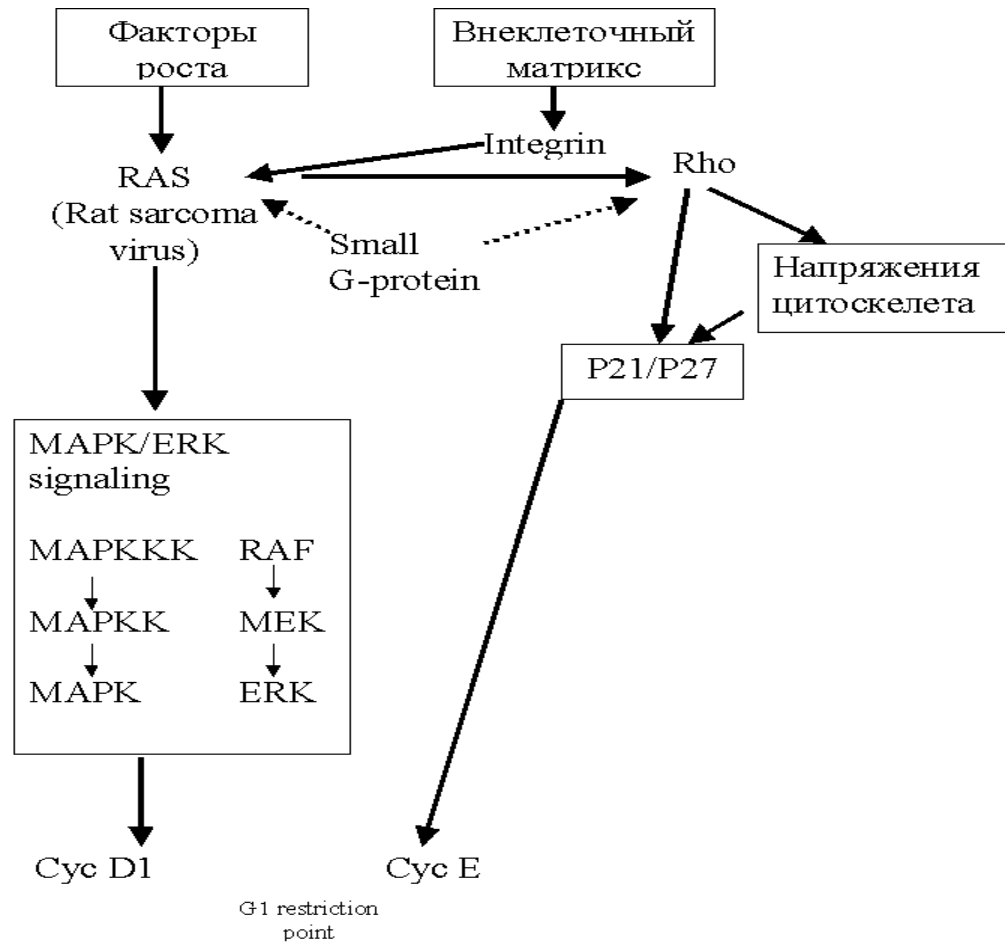












MAPK = mitogen activated protein kinase
ERK = extracellular signal regulated kinase