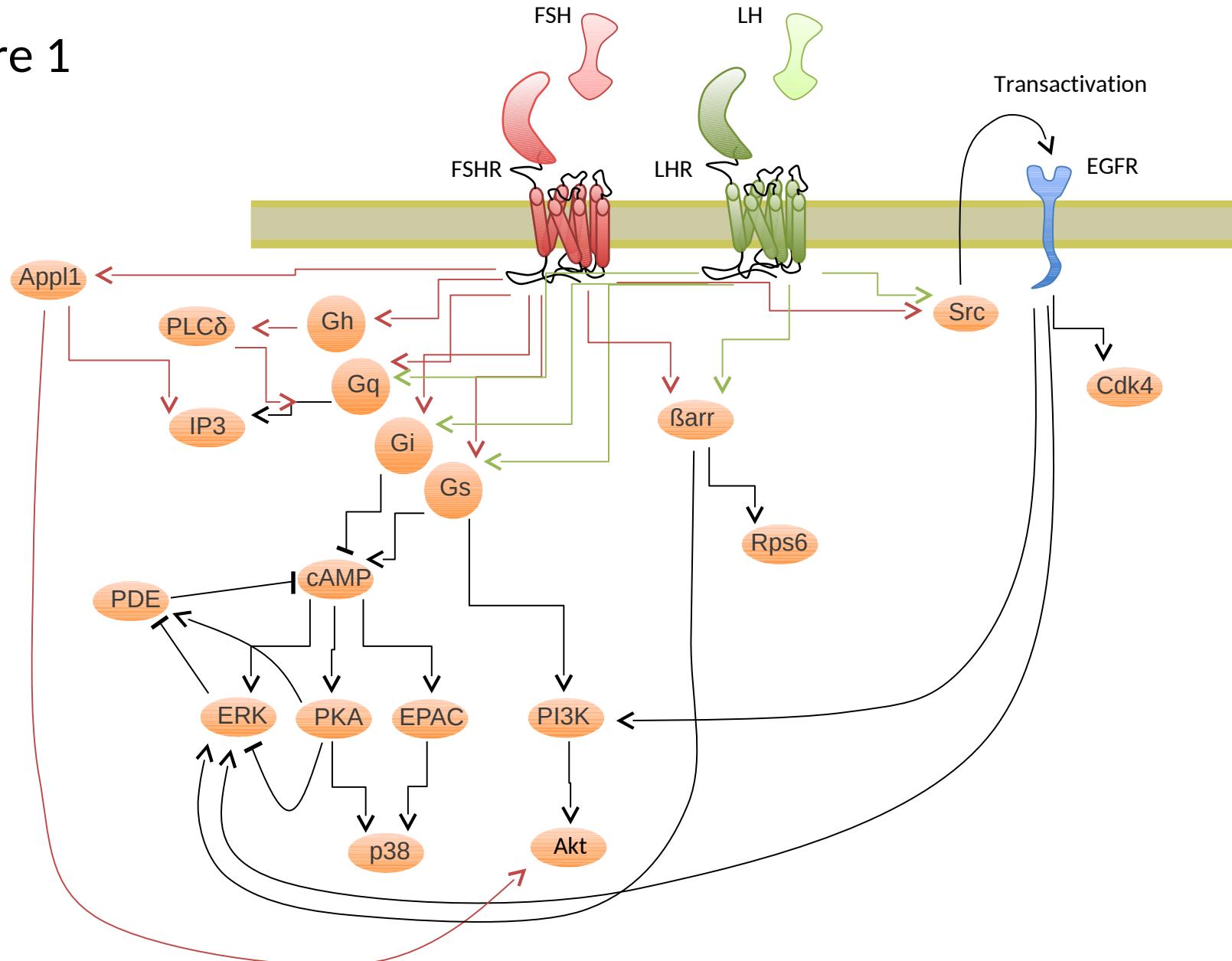
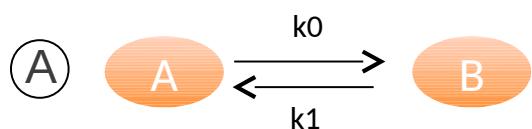


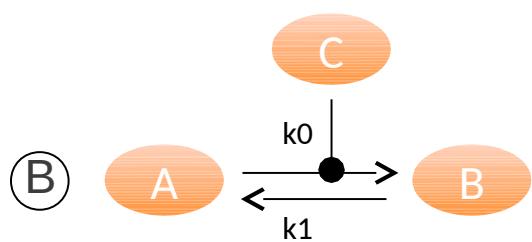
Figure 1





Ordinary differential equation (ODE)

$$\frac{d[B]}{dt} = f([A], [B], k_0, k_1) \quad (1)$$

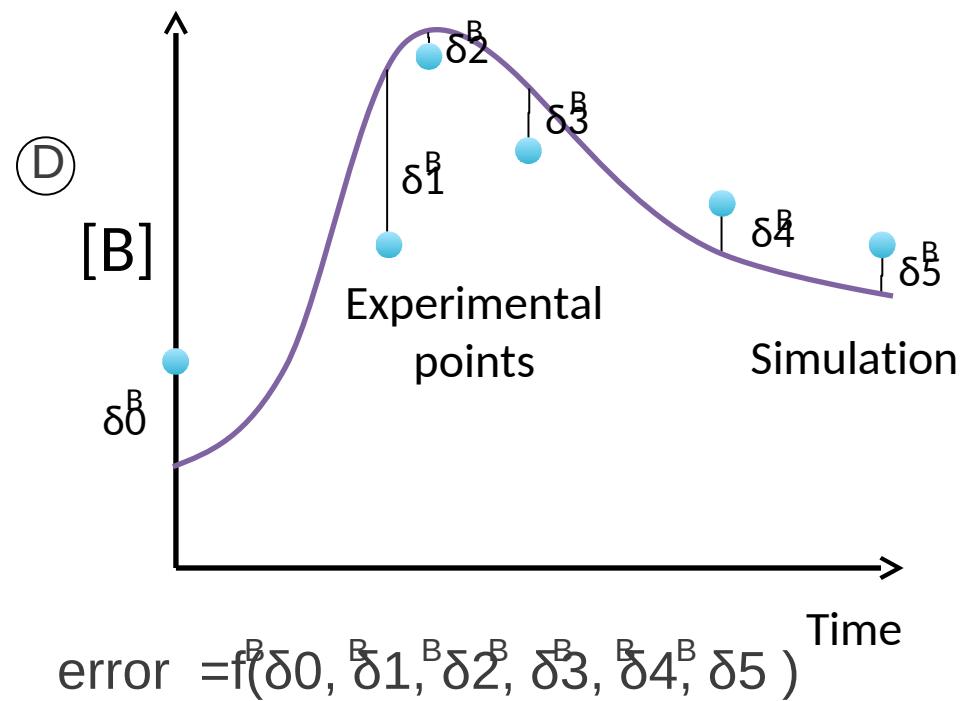
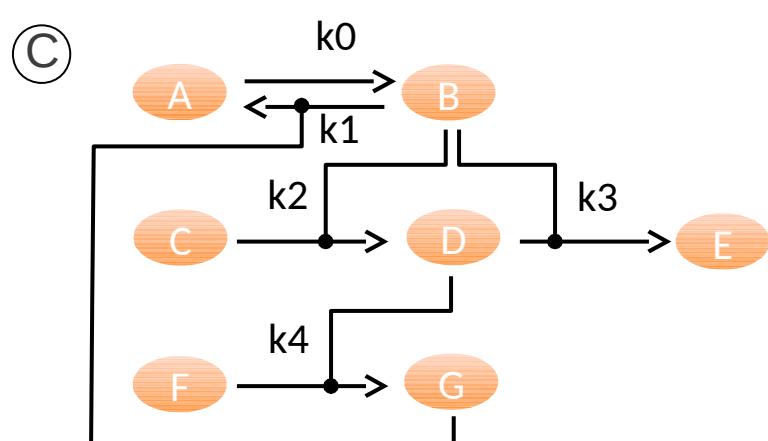


Mass action law:

$$\frac{d[B]}{dt} = k_0[A] - k_1[B] \quad (2)$$

Mass action law:

$$\frac{d[B]}{dt} = k_0 \cdot [A][C] - k_1[B] \quad (3)$$



(E)

Initial parameter values ( $k_0, \dots, k_n$ )



Simulation

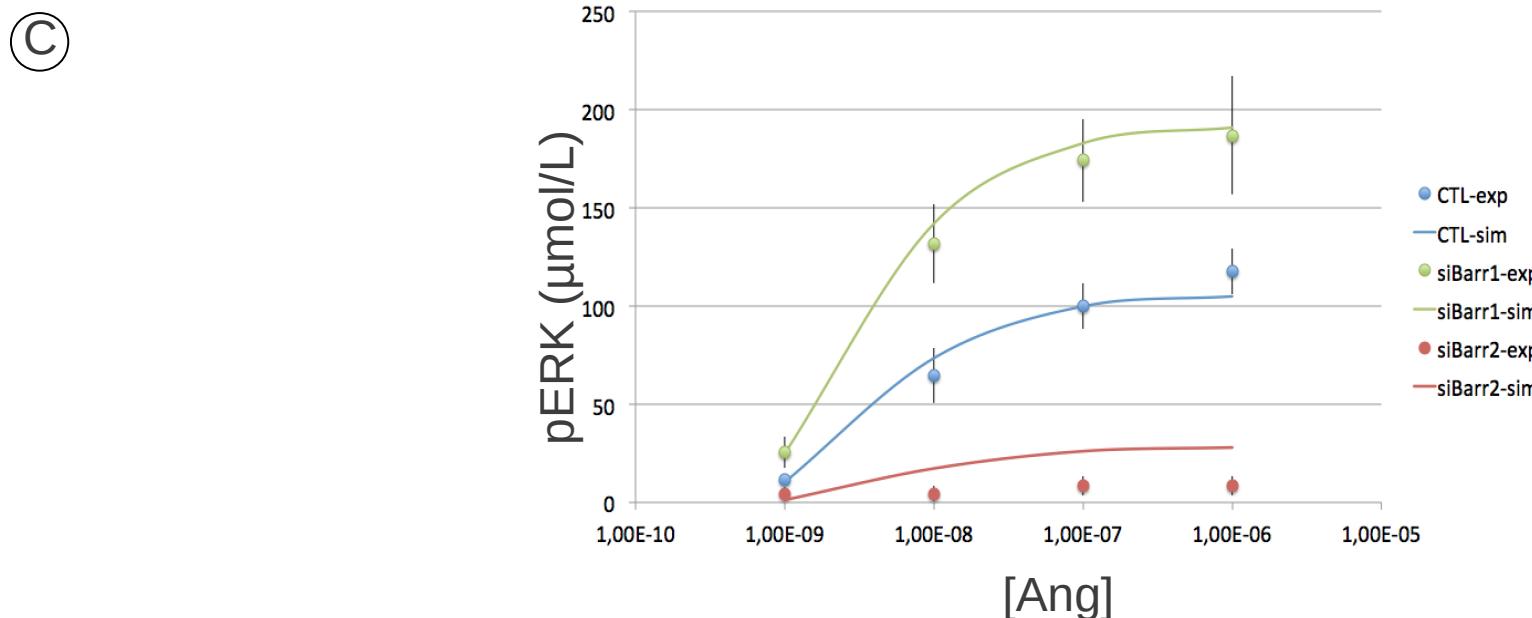
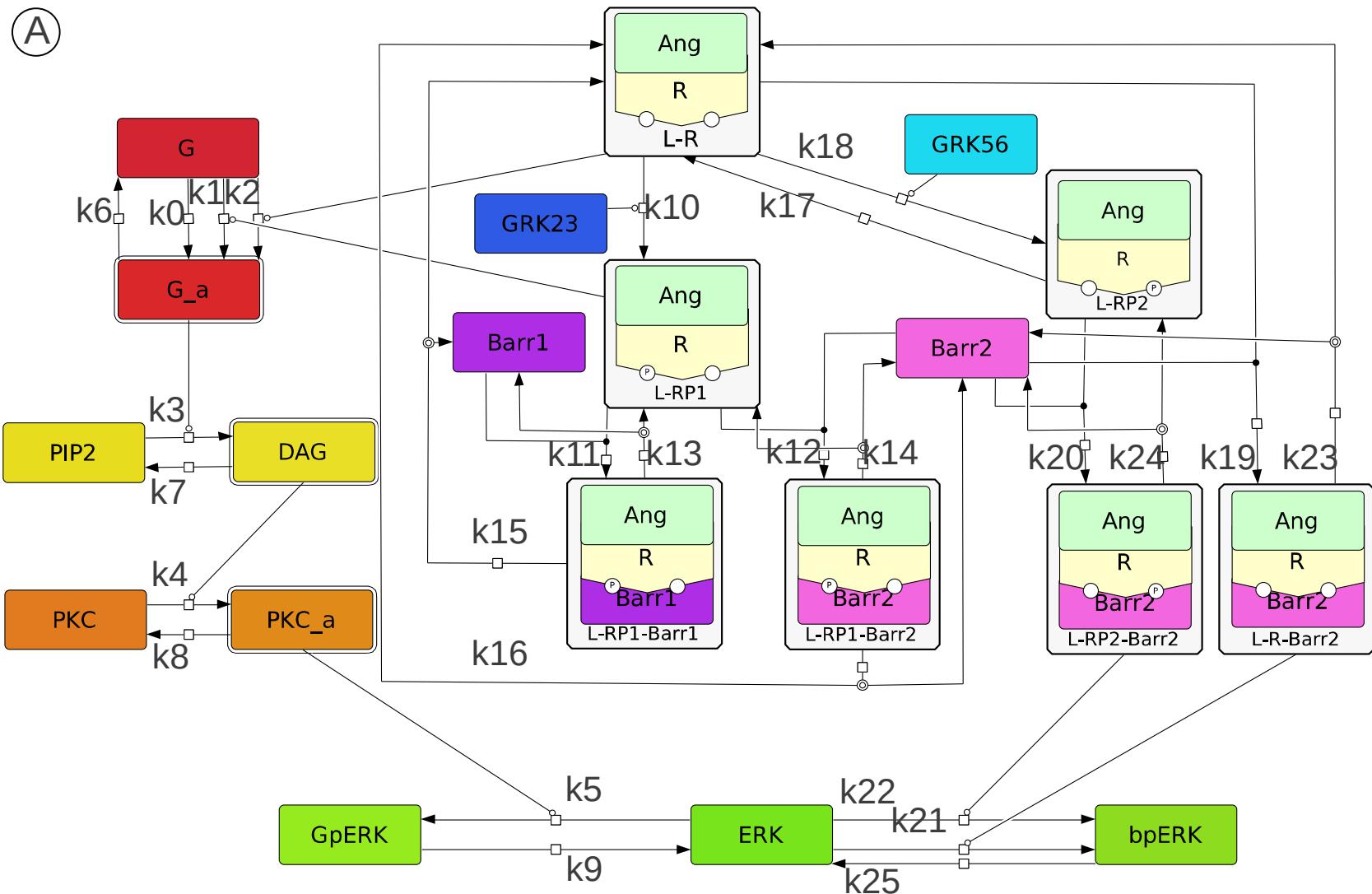
Change ( $k_0, \dots, k_n$ )

Compute error

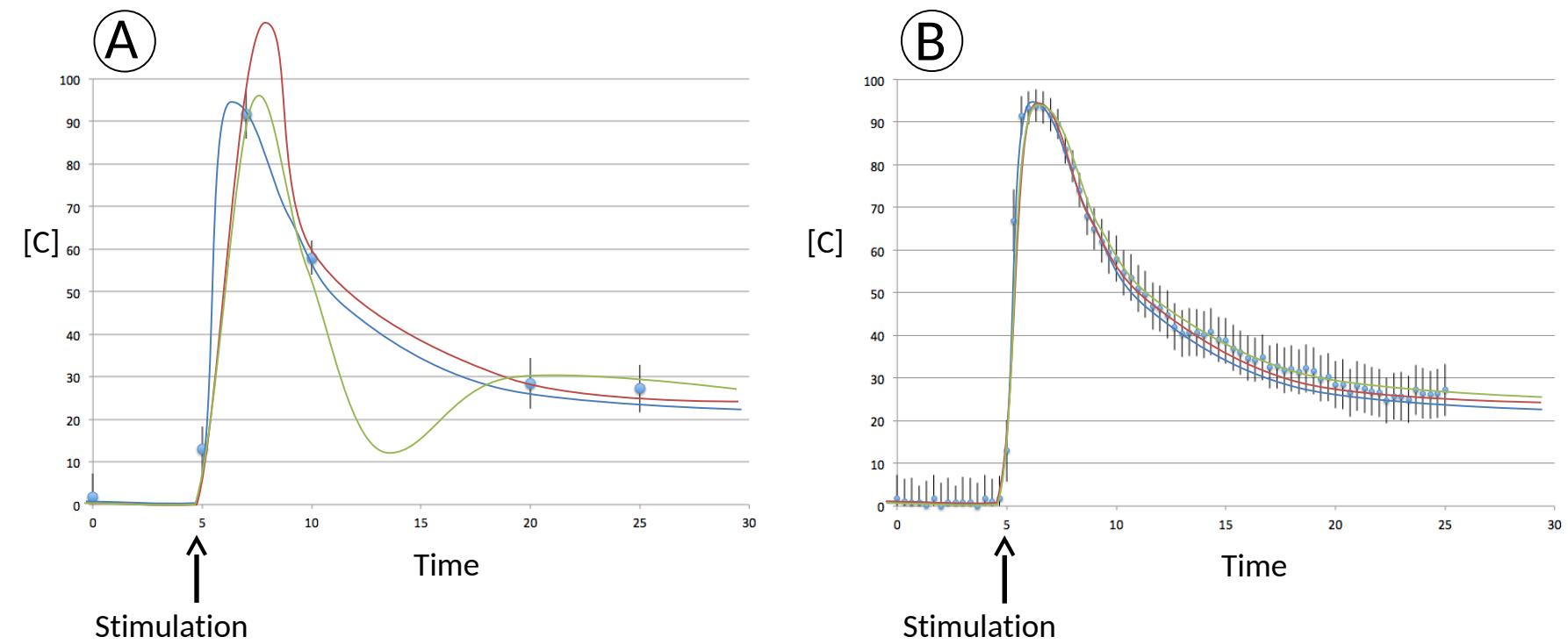
Error=0 ?

Done !

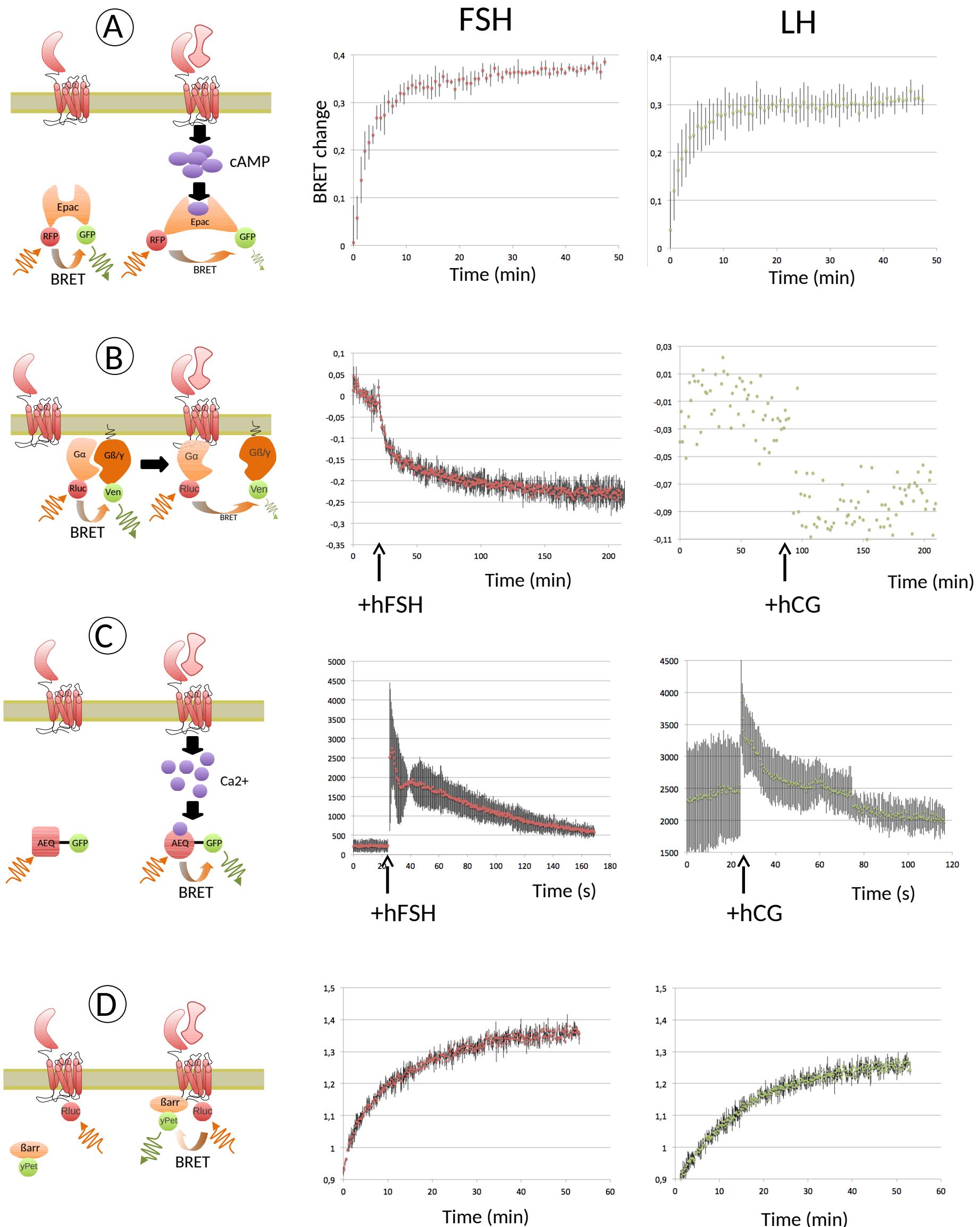
**Figure 3**



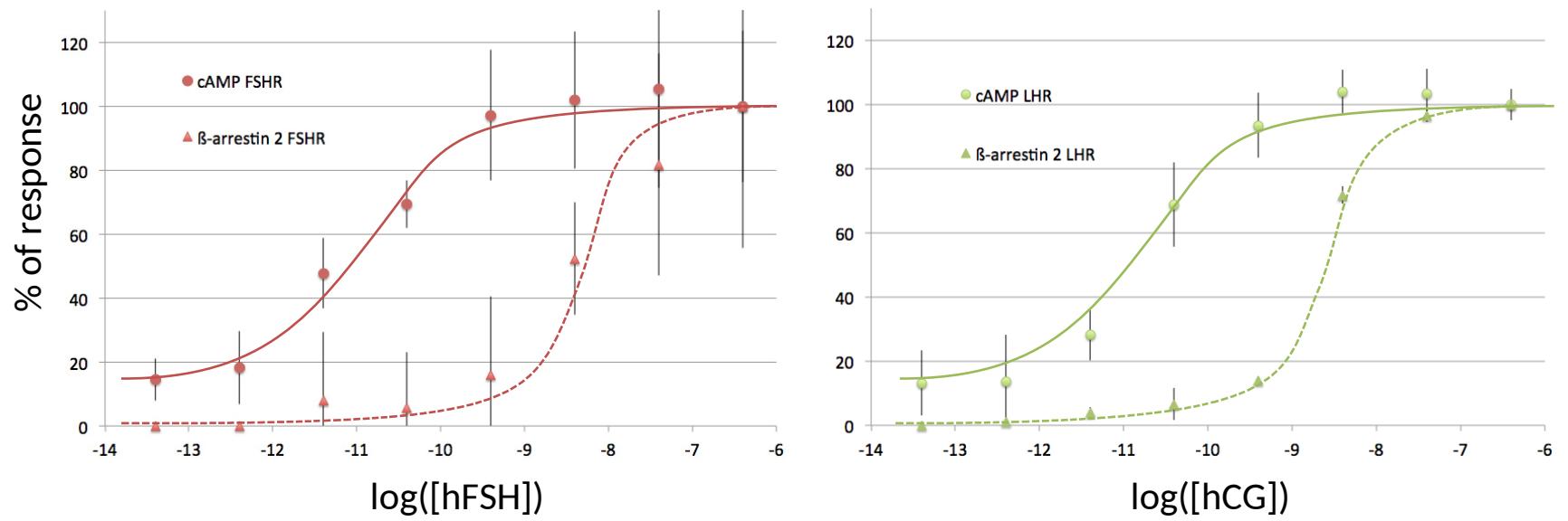
**Figure 4**



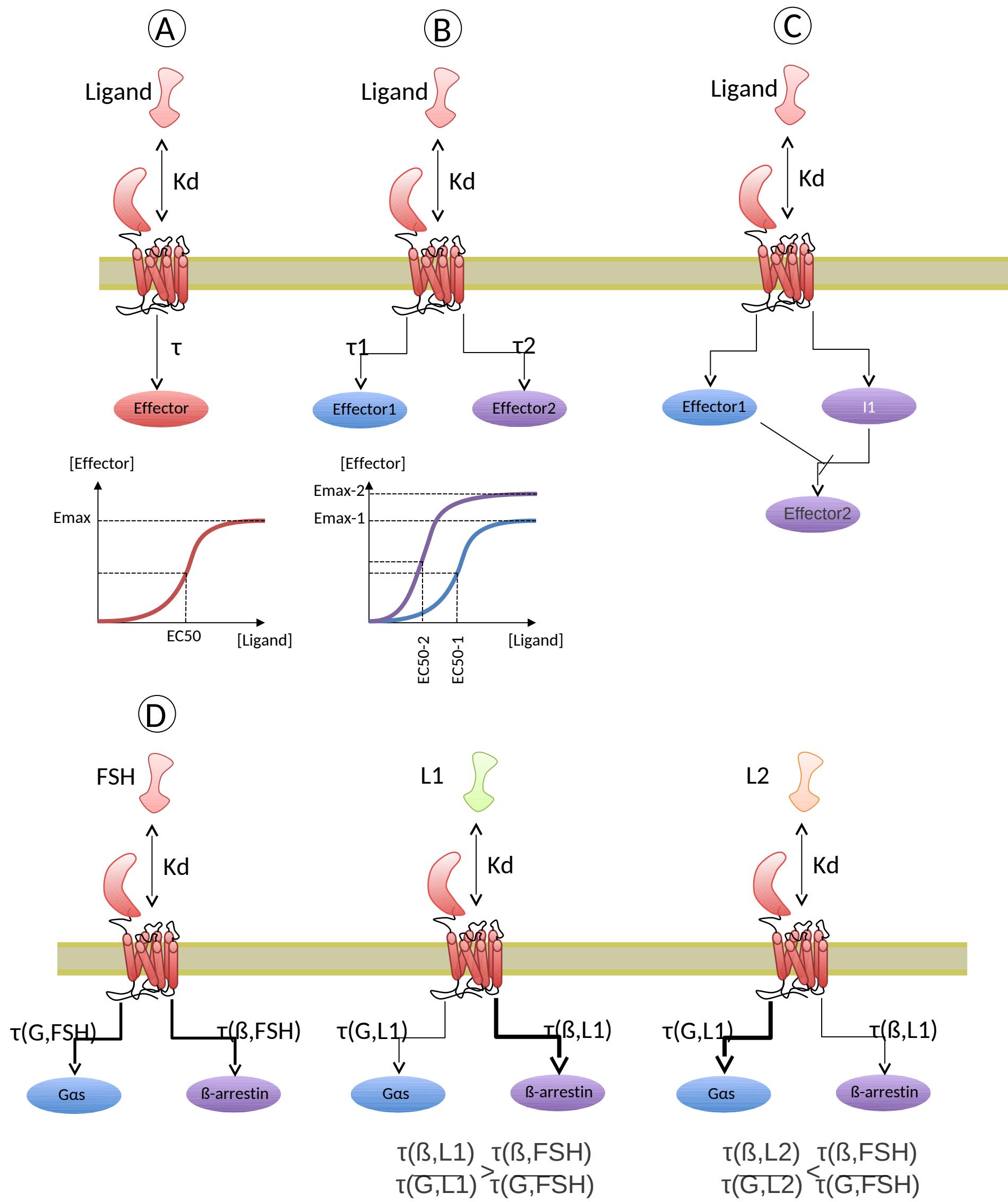
**Figure 5**



# Figure 6



**Figure 7**



**Figure 8**

