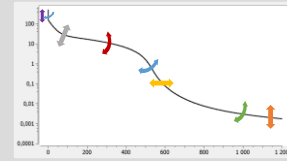


### Full model

9:  $V, k_{el}, k_{int}, k_{on}, k_{off}, k_{syn}, k_{deg}, k_{12}, k_{21}$



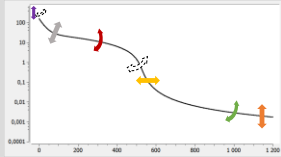
Rapid binding ( $k_{on}$  &  $k_{off}$  large)  
 $K_D = k_{off}/k_{on}$

$R_{tot}$  constant ( $k_{int} = k_{deg}$ )  
 $R_0 = k_{syn}/k_{deg}$

Irreversible binding  
 $k_{off} = 0$

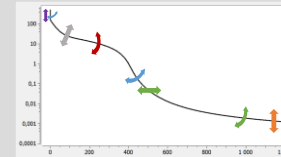
### QE/QSS model

8:  $V, k_{el}, k_{int}, K_D, k_{syn}, k_{deg}, k_{12}, k_{21}$



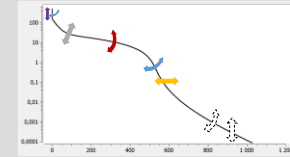
### Constant Rtot model

8:  $V, k_{el}, k_{int}, k_{on}, k_{off}, R_0, k_{12}, k_{21}$



### Irreversible binding (IB) model

8:  $V, k_{el}, (k_{int}), k_{on}, k_{syn}, k_{deg}, k_{12}, k_{21}$



$R_{tot}$  constant ( $k_{int} = k_{deg}$ )  
 $R_0 = k_{syn}/k_{deg}$

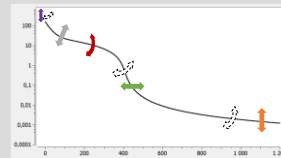
Rapid binding ( $k_{on}$  &  $k_{off}$  large)  
 $K_D = k_{off}/k_{on}$

Irreversible binding  
 $k_{off} = 0$

$R_{tot}$  constant ( $k_{int} = k_{deg}$ )  
 $R_0 = k_{syn}/k_{deg}$

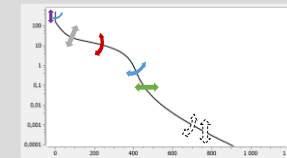
### Wagner model

7:  $V, k_{el}, k_{int}, K_D, R_0, k_{12}, k_{21}$



### Const. Rtot + Irr. binding model

7:  $V, k_{el}, k_{int}, k_{on}, R_0, k_{12}, k_{21}$



$R_{tot} K_D / (L + K_D)^2 \ll 1$   
 $V_m = k_{int} R_0, K_m = K_D$

QSS on P, and  $R_{tot} K_D / (L + K_D)^2 \ll 1$   
 $V_m = k_{int} R_0, K_m = k_{int}/k_{on}$

### Michaelis-Menten (MM) model

6:  $V, k_{el}, V_m, K_m, k_{12}, k_{21}$

