

Sodium-Potassium pump
W matrix

$$\frac{dP}{dt} = \mathbb{W}P, \qquad P = \begin{pmatrix} [E_1Na_3^+] \\ [E_1P(Na^+)_3] \\ [E_2PNa_3^+] \\ [E_2PNa_2^+] \\ [E_2PNa^+] \\ [E_2P] \\ [E_2PK^+] \\ [E_2PK_2^+] \\ [E_2(K^+)_2] \\ [E_1K_2^+] \\ [E_1K^+] \\ [E_1] \\ [E_1Na^+] \\ [E_1Na_2^+] \\ [E_2(Na^+)_2] \\ [E_2PNa^+K^+] \\ [E_1Na^+K^+] \\ [E_2PK^+Na^+] \\ [E_1K^+Na^+] \end{pmatrix}$$

