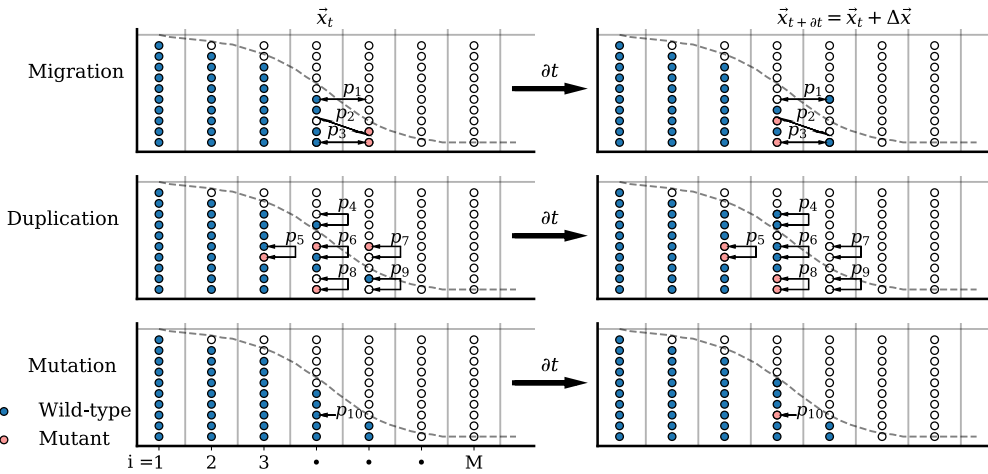


**A**



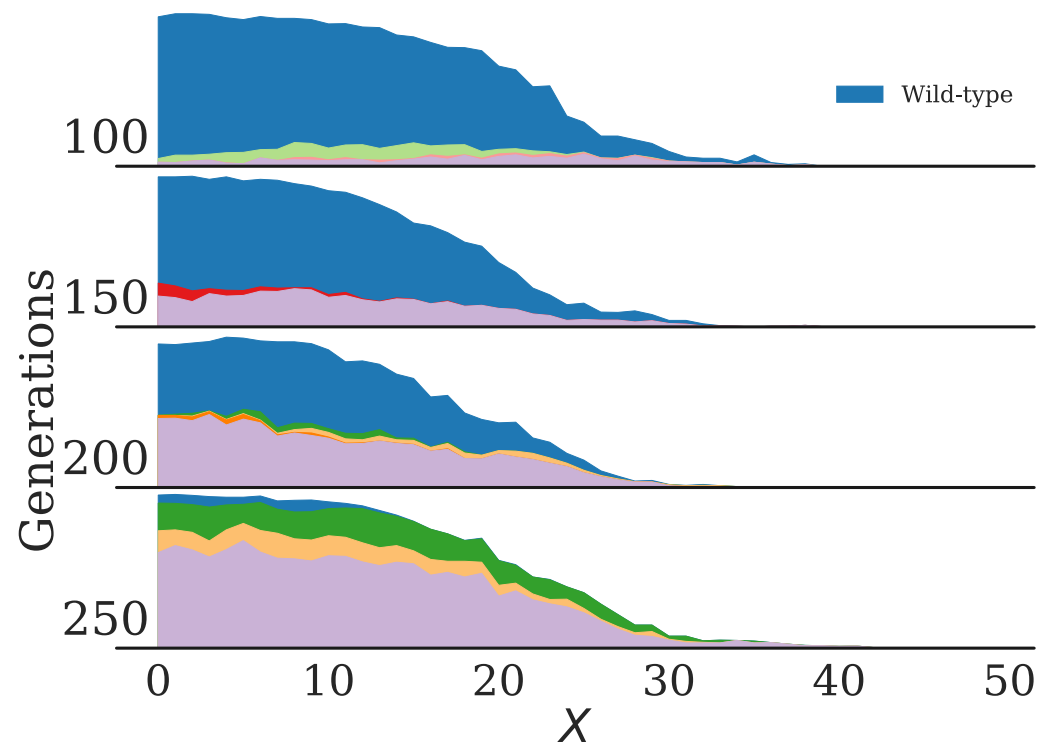
**B**

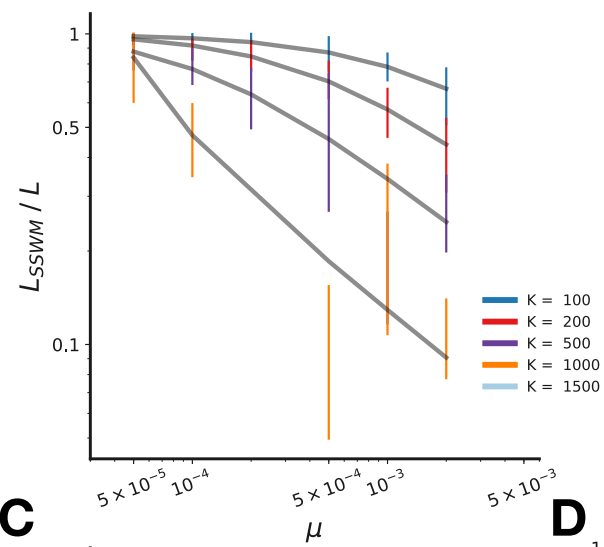
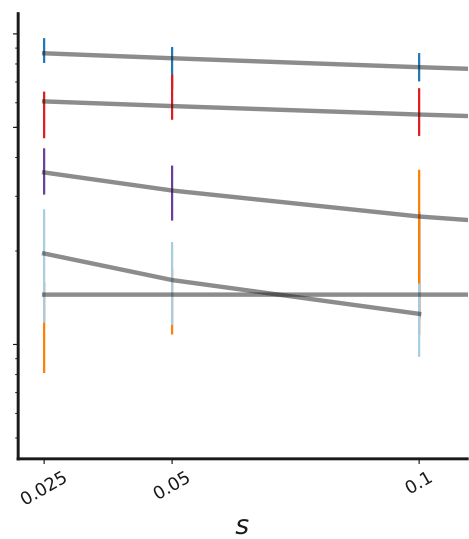
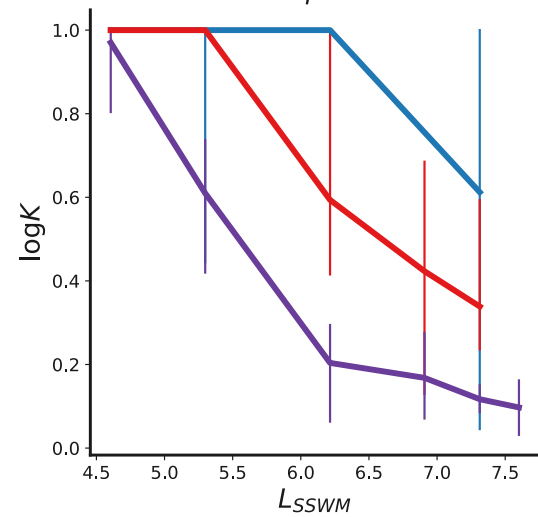
$$\frac{\partial P(\vec{x}, t)}{\partial t} = \sum_E^{10} -p_E(\vec{x})P(\vec{x}, t) + p_E(\vec{x} - \Delta \vec{x}_E)P(\vec{x} - \Delta \vec{x}_E, t)$$

$$\begin{aligned} \Delta x_i^0 &= 1, \quad \rho_1 = (1 - N_i^0 - N_i^1)N_i^0 M^{-1} \\ \Delta x_i^1, \quad \rho_2 &= (1 - N_j^0 - N_j^1)N_i^1 M^{-1} = 1 \\ \Delta x_i^0 &= -1, \quad \Delta x_i^0 = 1, \quad \rho_3 = N_i^0 N_i^1 M^{-1} \\ &\text{for } |j - i| = 1 \end{aligned}$$

$$\begin{aligned} \Delta x_i^0 &= 1, \quad \rho_4 = (1 - N_i^0 - N_i^1)N_i^0 M^{-1} \\ \Delta x_i^0 &= 1, \quad \Delta x_i^1 = -1, \quad \rho_5 = N_i^0 N_i^1 M^{-1} \\ \Delta x_i^0 &= -1, \quad \Delta x_i^1 = 1, \quad \rho_6 = N_i^0 N_i^1 M^{-1} \\ \Delta x_i^1 &= 1, \quad \rho_7 = (1 - N_i^0 - N_i^1)N_i^1 M^{-1} \\ \Delta x_i^1 &= -1, \quad \rho_8 = (1 - N_i^0 - N_i^1)N_i^1 (1 - r_1) M^{-1} \\ \Delta x_i^0 &= -1, \quad \rho_9 = (1 - N_i^0 - N_i^1)N_i^0 (1 - r_0) M^{-1} \end{aligned}$$

$$p_{10} = N_i^0 U_b M^{-1}$$



**A****B****C****D**