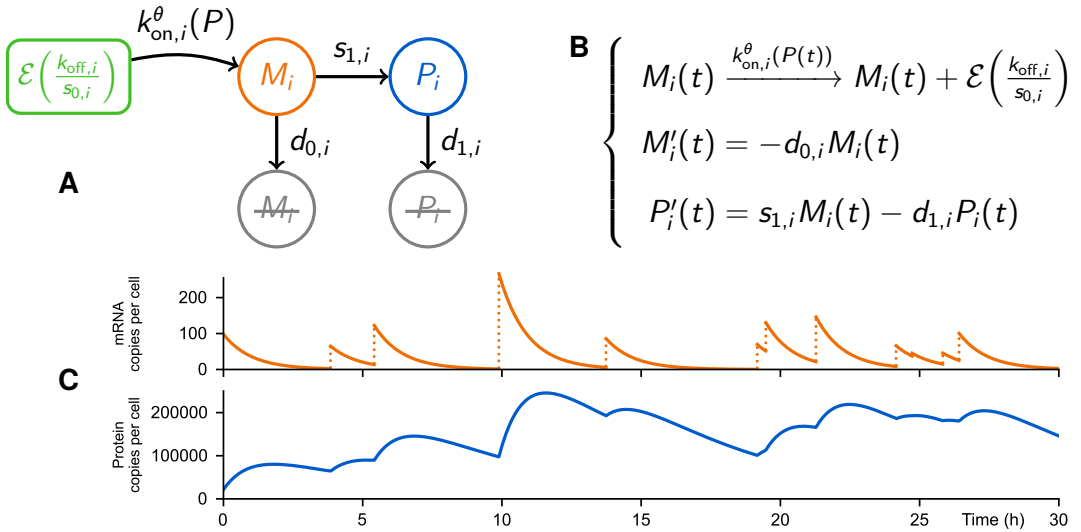
A
$\mathcal{E}\left(\frac{k_{\text{off},i}}{s_{0,i}}\right)$
$k^{\theta}_{\text{on},i}(P)$
M_i
$s_{1,i}$
P_i
$d_{0,i}$
$d_{1,i}$
M_i
P_i
B
$M_i(t) \xrightarrow{k^{\theta}_{\text{on},i}(P(t))} M_i(t) + \mathcal{E}\left(\frac{k_{\text{off},i}}{s_{0,i}}\right)$
$M_i'(t) = -d_{0,i} M_i(t)$
$P_i'(t) = s_{1,i} M_i(t) - d_{1,i} P_i(t)$
C
mRNA copies per cell
200
100
0
Protein copies per cell
200000
100000
0
0
5
10
15
20
25
Time (h)
30