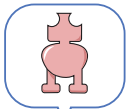


number of  
active repressors



$$\text{fold-change} = \left( 1 + \frac{R_A}{N_{NS}} e^{-\beta \Delta \epsilon_{RA}} \right)^{-1}$$

total number  
of repressors



$$= \left( 1 + p_{\text{active}}(c) \frac{R}{N_{NS}} e^{-\beta \Delta \epsilon_{RA}} \right)^{-1}$$