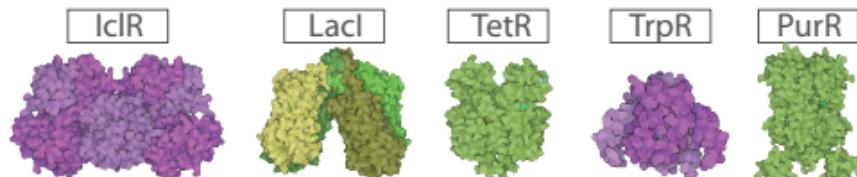


(A)

## ATOMISTIC DETAILS



(B)

## EQUILIBRIUM MODEL

$$P_{\text{active}}(\bullet) = \frac{\text{probability of all active states}}{\text{probability of all inactive states}}$$

Diagram illustrating the equilibrium model for inducer concentration:

- Probability of all active states:**  $P_{(\bullet + \bullet + \bullet + \bullet)}$
- Probability of all inactive states:**  $P_{(\bullet + \bullet + \bullet) + P_{(\bullet + \bullet + \bullet + \bullet + \bullet + \bullet)}}$

COARSE-GRAINED  
REPRESENTATION