

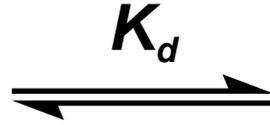
Receptor (R)

Ligand (L)

Complex (RL)



+



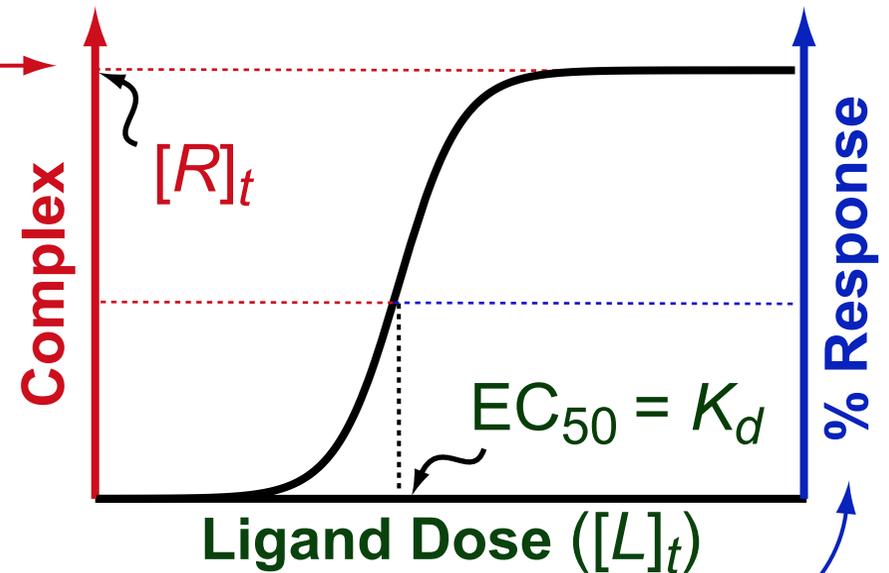
Biological Response

Langmuir-Hill Equation

Dose-Response Curve

$$[RL] = [R]_t \cdot \frac{[L]_t}{K_d + [L]_t}$$

Curve Maximum Term (red arrow pointing to $[R]_t$)



fractional term describing curve shape (blue arrow pointing to the fraction in the equation)