

# $Q_{ab}(x_r) = \text{unbunte Rezeptorerregung}$

$$Q_{ab}(x_r) = \frac{b}{\ln \sqrt{2}} \ln \left[ 1 + \frac{1}{1 + \sqrt{2} 10^{x_r/a}} \right] - b 10^{x_r} = e^{\ln(10) x_r}, \quad 10^{x_r/\ln(10)} = e^{x_r}$$

$a = 0,50, \quad b = 1,00, \quad e = 2,718282$

$$F'_{ab}(x_r) = 4b / [a \{ 10^{x_r/a'} + 10^{-x_r/a'} \}^2]$$

$$a' = a \ln(10) = 1,151$$

$$10^{x_r/a'} = 10^{x_r / [a \ln(10)]} = e^{x_r/a}$$

$a = 1,00; \quad b = 1,00$

