

# $F_{abu}(x_r) = \text{normierte unbunte Rezeptorerregung}$

$$F_{abu}(x_r) = \frac{p}{p+q} + \frac{-q}{p+q} + 1 = \frac{p-q}{p+q} + 1 \quad p = e^{x_r/a} \quad q = e^{-x_r/a}$$

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

$$F'_{abu}(x_r) = 4 / [a \{e^{x_r/a} + e^{-x_r/a}\}^2] = 4 / [a \{p + q\}^2]$$

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

