

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

$$F_{ab}(x_r) = b\beta \frac{e^{x_r/a} - e^{-x_r/a}}{e^{x_r/a} + e^{-x_r/a}} = b\beta \tanh[x_r/a]$$

Standard:  
 $a=1,00$   $b=1,00$   
 $\beta=1,00$   $e=2,7182$

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

$a=1,00, b=1,00$   $F'_{ab}(x_r)$   
 $\alpha=1,00, b/a=1,00$

