

$F_{ab}(x_r)$ = achromatic receptor response

$$F_{ab}(x_r) = b \frac{10^{x_r/a'} - 10^{-x_r/a'}}{10^{x_r/a'} + 10^{-x_r/a'}}$$

$10^{x_r} = e^{\ln(10) x_r}$, $10^{x_r/\ln(10)} = e^{x_r}$
 $a=1,00$, $b=1,00$ $e=2,718282$

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

$a' = a \ln(10) = 2,302$

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

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

