

$Q_{ab}(z_r)$ = achromatic receptor response

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

$a=0,50, b=1,00, e=2,718282$
 $a'=a \ln(10)=1,151$
 $10^{x_r/a'} = 10^{x_r / [a \ln(10)]} = e^{x_r/a}$

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

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

