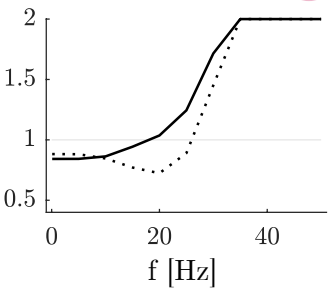
Ref	Region	Bounds
Deperrois 2020 (no STD)	Cortex	Hard

Fit



Equation

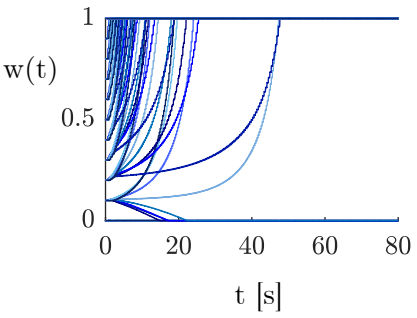
$$\tau_w([Ca])dw/dt = \Omega([Ca])$$

Parameters

τ_{Ca}	= 32.1900754	θ_p	= 1.63069609
C_{pre}	= 1.60681037	θ_d	= 1
C_{post}	= 1.1243642	γ_p	= 161.987985
D	= 5.75272377	γ_d	= 31.9759883
τ_w	= 79975.6573		

$m_1 = 0.25$	$p_1 = 4e3$
$a_1 = 1.1$	$p_2 = p_1 1e\text{-}6$
$a_2 = 1.7$	$p_3 = 2.4$
$b_1 = 40$	$p_4 = 1$
$b_2 = 10$	
$m_2 = 0.5$	

Reset



Supplementary information

$$\Omega([Ca]) = m_2 \exp(b_2([Ca]-a_2))/(1+\exp(b_2([Ca]-a_2))) - m_1 \exp(b_1([Ca]-a_1))/(1+\exp(b_1([Ca]-a_1)))$$

$$\tau_w([Ca]) = P_4 + \frac{P_1}{P_2 + [Ca]^{P_3}}$$

$$\frac{dc_{pre}}{dt} = -\frac{c_{pre}}{\tau_{Ca}} + wC_{pre}\sum_{pre,i}\delta(t - t_{pre,i} - D)$$