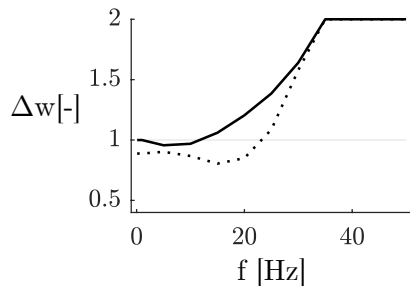


Ref	Region	Bounds	Fit
Deperrois 2020 (STD)	Cortex	Hard	

Equation

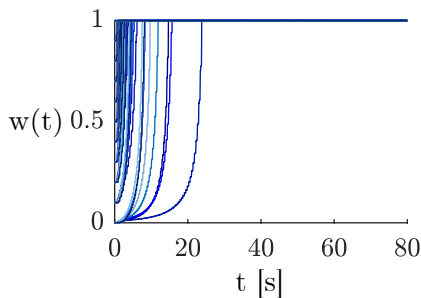
$$\tau_w([Ca])dw/dt = \Omega([Ca])$$



Parameters

$$\begin{aligned}
 \tau_{Ca} &= 38.3492083 & \theta_p &= 1.63069609 \\
 C_{pre} &= 3.99132241 & \theta_d &= 1 \\
 C_{post} &= 1.12940834 & \gamma_p &= 564.392975 \\
 D &= 9.23545841 & \gamma_d &= 111.320539 \\
 \tau_w &= 299877.8 & \tau_{rec} &= 148.9192 \\
 & & U &= 0.3838
 \end{aligned}$$

Reset



Supplementary information

$$\begin{aligned}
 \frac{dx}{dt} &= \frac{1-x}{\tau_{rec}} - Ux \sum_{pre,i} \delta(t - t_i - D) \\
 \frac{dc_{pre}}{dt} &= -\frac{c_{pre}}{\tau_{Ca}} + wC_{pre}Ux \sum_{pre,i} \delta(t - t_{pre,i} - D)
 \end{aligned}$$

$$\Omega([Ca]) = m_2 \exp(b_2([Ca] - a_2)) / (1 + \exp(b_2([Ca] - a_2))) \quad \tau_w([Ca]) = P_4 + \frac{P_1}{P_2 + [Ca]^{P_3}}$$