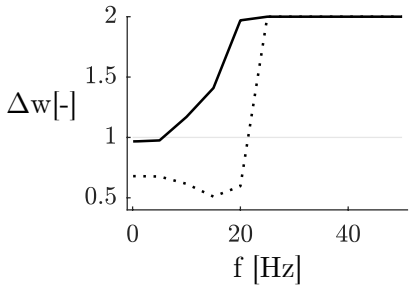
**Ref**
Deperrois 2020
(no STD)

**Region**
Cortex

**Bounds**
Hard

**Fit**



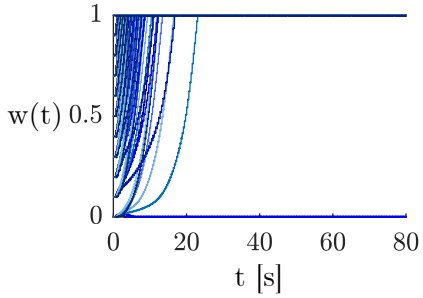

## Equation

$$
\begin{aligned}
[Ca] < \theta_d \quad & \tau_w^0 \frac{dw}{dt} = \Omega^0 \\
[Ca] \in [\theta_d, \theta_p] \quad & \tau_w^d \frac{dw}{dt} = \Omega^d \\
[Ca] > \theta_p \quad & \tau_w^p \frac{dw}{dt} = \Omega^p
\end{aligned}
$$

## Parameters

$$
\begin{aligned}
\tau_{Ca} &= 32.1900754 & \theta_p &= 1.63069609 \\
C_{pre} &= 1.60681037 & \theta_d &= 1 \\
C_{post} &= 1.1243642 & \gamma_p &= 161.987985 \\
D &= 5.75272377 & \gamma_d &= 31.9759883 \\
\tau_w &= 79975.6573 & & \\
& & \Omega^p &= 0.5(\gamma_p - \gamma_d) \\
\tau_w^p &= \tau_w & \Omega^d &= -0.5\gamma_d \\
\tau_w^d &= \tau_w & \Omega^0 &= 0 \\
\tau_w^0 &= 0 & &
\end{aligned}
$$

**Reset**




## Supplementary information

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