Table S1. Biophysical and Physiological Parameters Used in Simulations

Parameter	Squid Axon [S1, S24]	Pyramidal Axon Collateral [S26–S28]
Membrane capacitance C_m (μFcm^2)	1	1
Membrane leak conductance $g_{Leak} = 1/R_{Leak}$ (Ωcm^2)	0.334	0.02
Axoplasmic resistance R_a (Ωcm)	35.4	100
R_a base temperature (°C)	6.3	23
R_a Q_{10}	1.4	1.4
Na reversal potential E_{Na} (mV)	50	55
Na channel density γ_{Na} (μm^{-2})	60	68
Single Na channel conductance γ (pS)	20	14.8
Na conductance base temperature (°C)	6.3	23
Na conductance Q_{10}	1.4	1.4
Na kinetics base temperature (°C)	6.3	23
Na activation kinetics Q_{10}	3	2.2
Na inactivation kinetics Q_{10}	3	2.9
K reversal potential E_K (mV)	−77	−80
K channel density g_K (μm^{-2})	18	8
Single K channel conductance γ_K (pS)	20	20
K kinetics base temperature (°C)	6.3	24
K activation kinetics Q_{10}	3	3