

Model Parameter	Random Network	Topographic Network	Dense Network
N Neurons	1,012,500	1,012,500	12,500
N Synapse/Neuron	3000	3000	100
V _{c-max}	10 m/s	0.2 m/s	0.2 m/s
V _{c-min}	10 m/s	0.2 m/s	0.2 m/s
G _e	1e ⁻⁹	1e ⁻⁹	4e ⁻⁹
G _i	1e ⁻⁸	1e ⁻⁸	490e ⁻⁹
E _e	0 mV	0 mV	0 mV
E _i	-80 mV	-80 mV	-80 mV
E _{leak}	-65 mV	-65 mV	-65 mV
σ _{space}	N/A	400 μM	400 μM
Length	6 mm	6 mm	4 mm

Supplemental Table S1. Parameters used in network simulations.