Supplementary Table 1

Single-cell parameters		
θ	33mV	spike emission threshold (E and I)
v_R	24.75mV	reset potential (E and I)
τ_m	10ms	membrane time constant (E and I)
τ_{arp}	1ms	absolute refractory period (E and I)
Network parameters		
N_E	32000	number of E neurons
N_I	8000	number of I neurons
c_{EE}	0.2	probability of E→E connection
c_{IE}	0.3	probability of E→I connection
c_{EI}	0.4	probability of I→E connection
c_{II}	0.4	probability of I→I connection
$\langle W_{EE} \rangle$	0.37mV	average E→E efficacy
$\langle W_{IE} \rangle$	0.66mV	average E→I efficacy
$\langle W_{EI} \rangle$	0.44mV	average I→E efficacy
$\langle W_{II} \rangle$	0.54mV	average I→I efficacy
$\langle W_{EE}^2 \rangle$	0.26mV^2	average square of E→E efficacy
$\langle W_{IE}^2 \rangle$	0.65mV^2	average square of E→I efficacy
$\langle W_{EI}^2 \rangle$	0.49mV^2	average square of I→E efficacy
$\langle W_{II}^2 \rangle$	0.53mV^2	average square of I→I efficacy
$H_E^{(ext)}$	77.6mV	external input to E neurons
$H_I^{(ext)}$	57.8mV	external input to I neurons
f	0.1	memories' coding level (sparseness)