

Parameter	Prior distribution	Description
$a_{ij}(s)$	Smoothness prior Eq. (3)	Response functions from neuron to neuron
$b_{ij}(s)$	Smoothness prior Eq. (3)	Response functions from glia to neuron
$c_{ij}(s)$	Smoothness prior Eq. (3)	Response functions from neuron to glia
$d_{ij}(s)$	Smoothness prior Eq. (3)	Response functions from glia to glia
$r_i$	Uniform prior	Spontaneous activity rate of neuron $i$
$v_i$	Uniform prior	Bias term of glia $i$
$\sigma_i^2$	Non-informative prior $\propto 1/\sigma_i$	Variance of $i$ -th glial activity