Supplementary Material

**Supplementary** Table 1. The physiological interpretations and standard values of parameters in the Wendling’s model (39).

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| Parameter | Physiological interpretation | Standard value |
| $$A$$ | Average excitatory synaptic gain | 4.0 mV |
| $$B$$ | Average slow dendritic inhibitory synaptic gain | 40 mV |
| $$G$$ | Average fast somatic inhibitory gain | 20 mV |
| $$a$$ | Dendritic average time constant in the feedback excitatory loop | 100 s-1 |
| $$b$$ | Dendritic average time constant in the slow feedback inhibitory loop | 50 s-1 |
| $$g$$ | Somatic average time constant in the fast feedback inhibitory loop | 350 s-1 |
| $$C\_{1},C\_{2}$$ | Average number of synaptic contacts in the excitatory feedback loop | $C\_{1}=C$, $C\_{2}=0.8C$ |
| $$C\_{3},C\_{4}$$ | Average number of synaptic contacts in the slow feedback inhibitory loop | $$C\_{3}=C\_{4}=0.25C$$ |
| $$C\_{5},C\_{6}$$ | Average number of synaptic contacts in the fast feedback inhibitory loop | $C\_{5}=0.1C$, $C\_{6}=0.1C$ |
| $$C\_{7}$$ | Average number of synaptic contacts between slow and fast inhibitory interneurons | $C\_{7}=0.8C$, $C=135$ |
| $$v\_{0},e\_{0},r$$ | Parameters of the sigmoid function | $v\_{0}=6$mV, $e\_{0}=2.5$ s-1, $r=0.56 $mV-1 |
| $$μ,σ$$ | Mean and standard deviation of white noise input | $μ=90 $pulses/s, $σ=30 $pulses/s |