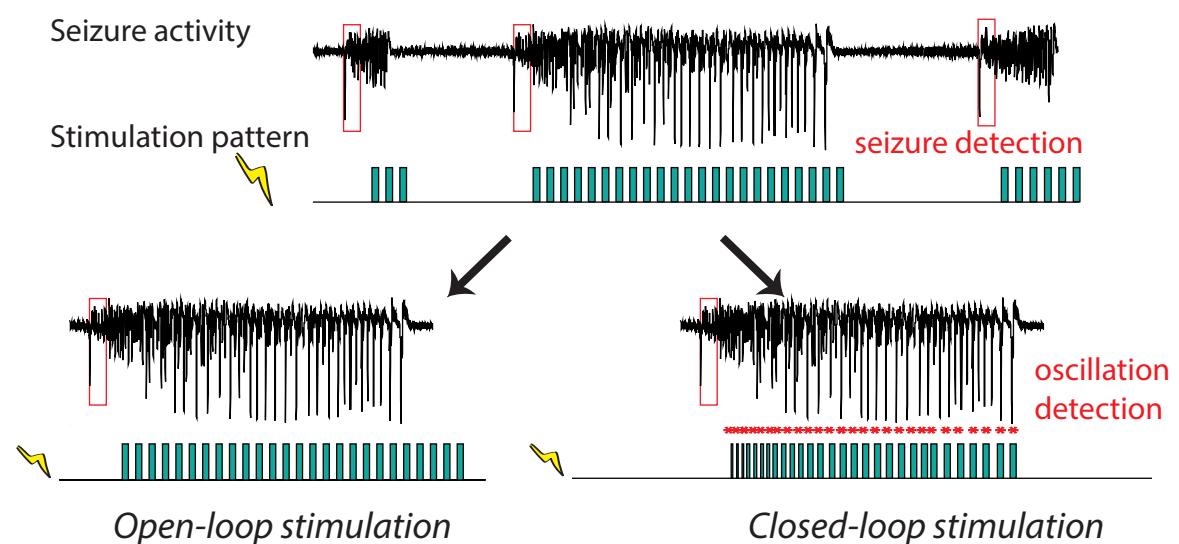


**B** Responsive "on-demand" stimulation



**C**

Evoked seizures (Takeuchi et al)	Ictal	Pre-ictal
Electrical stimulation	Duration	Induction threshold
	↑	↓
	↓	-
Optogenetic stimulation		
All MS neurons	↑	-
	↓	-
Cholinergic neurons	↑	↑
	no effect	-
GABAergic neurons	↑	↓
	↓	-
Glutamatergic neurons	↑	no effect
	↓	-
Spontaneous seizures (Hristova et al)		
Optogenetic stimulation		
GABAergic neurons	↑	-
	↓	-

Legend: Open-loop (clockwise arrow), Closed-loop (counter-clockwise arrow), Pro-epileptic (red dot), Anti-epileptic (blue dot).