

Species	Treatment	Seizure/model	Location	Seizure Criteria
Sprague Dawley Rat Pups (Dubé et al., 2015)	Chronic Early Life Stress	Limbic Spontaneous Seizure	Relative to bregma, A/P: -1.6 mm, L: 3.6 mm and V:-8.4 mm (Right Amygdala)	Behavioral phenominom required, spike duration > than 50 msec, and amplitude > 2 fold the background, duration >6 seconds
Nestin-TK transgenic aged mice (Cho et. al, 2013)	Pilocarpine (i.p.)	Acute seizure after brain insult	Relative to bregma, A/P: -2.0 mm, L: 2.2 mm, and A/P 1.0 mm and L: 2.0 mm	>3 Hz bursts of spiking activity, >3 seconds, amplitude > 2 X background, convulsive and non-convulsive, confirmed with video
C57BL/6J mice (Tse et al., 2014)	Kainate (i.p.)	<i>Status Epilepticus</i>	Relative to bregma, A/P: -2.5 mm, L: 2 mm	Behavioral classification (Racine Scale) and power bands
C57BL/6 mice (Weiergräber et al., 2005)	R/S-baclofen (i.p.) bicucullinemethrobromide 4-AP (i.p.)	Spike/spike wave activity originating from the thalamocortical-corticothalamic region (R/S baclofen and bicucullinemethrobromide), generalized tonic clonic seizure (4-AP)	Relative to bregma Deep positive lead- A/P: -2mm, L: 2mm (right hemisphere) V: 2 mm (CA3 hippocampus), Negative lead: A/P: -6.2 mm, L: 0 mm, V: 0 mm Surface positive lead- A/P: -1 mm, L: 1 mm (right hemisphere), negative lead: A/P: -1 mm, L: 1 mm (left hemisphere)	Not listed
Dunkin Hartley guinea pigs (CrI:HA) (Joosen et al., 2011)	Soman	Organophosphate poisoning	2 stainless steel screws, relative to breagma-A: 8.0 mm, P:1.2 mm, L: 1 mm	Amplitude >3 X of baseline
Beagle Dogs (Dürmüller et al. 2007)	Pentylenetetrazole (PTZ)	Proconvulsant risk	Motor cortex, 2 cm apart and 1 cm from the mid-line	EEG activity of a rhythmic aspect, amplitude clearly exceeding background
Cynomolgus monkeys (Authier et al., 2009)	Pentylenetetrazole (PTZ)	Centrally mediated toxicity	10-20 system, C3-O1, Cz-Oz, C4-O2	Automatic seizure analysis and trained reviewer