

Supplemental Data

Milder, Zybura, Cummins and Marrs

Neural Activity Correlates with Behavior Effects of Anti-Seizure Drugs Efficacy Using the Zebrafish Pentylentetrazol Seizure Model

Table S1. Statistical Results for behavioral profile of zebrafish larvae exposed to PTZ

The table displays the results of both the two-way ANOVA (Fig 1A) and one-way ANOVA (Fig 1B) performed for Figures 1 (A and B) and the resulting post-hoc Tukey comparisons and accompanying p-values for groups marked for significance within the Figure 1 graphs.

Table S1: Statistical Results for PTZ Assay

Two-way ANOVA table results			
	DF	F (DFn, DFd)	P value
Time x Column Factor	20	F (20, 1725) = 14.82	P<0.0001
Time	5	F (3.149, 1086) = 47.64	P<0.0001
Column Factor	4	F (4, 345) = 58.51	P<0.0001
Subject	345	F (345, 1725) = 3.008	P<0.0001
Residual	1725		
Two-way ANOVA Tukey's Post-hoc Results			
Tukey's multiple comparisons test	Adjusted P Value	Tukey's multiple comparisons test	Adjusted P Value
Time period: 0 -15 minutes		Time period: 45 - 60 minutes	
EM vs. 5 mM PTZ	0.9161	EM vs. 5 mM PTZ	0.0027
EM vs. 10 mM PTZ	<0.0001	EM vs. 10 mM PTZ	<0.0001
EM vs. 20 mM PTZ	<0.0001	EM vs. 20 mM PTZ	0.67
EM vs. 40 mM PTZ	<0.0001	EM vs. 40 mM PTZ	0.1085
Time period: 15 - 30 minutes		Time period: 60 - 75 minutes	
EM vs. 5 mM PTZ	0.0133	EM vs. 5 mM PTZ	0.0157
EM vs. 10 mM PTZ	<0.0001	EM vs. 10 mM PTZ	<0.0001
EM vs. 20 mM PTZ	<0.0001	EM vs. 20 mM PTZ	0.9048
EM vs. 40 mM PTZ	0.0101	EM vs. 40 mM PTZ	0.0007
Time period: 30 - 45 minutes		Time period: 75 - 90 minutes	
EM vs. 5 mM PTZ	0.0932	EM vs. 5 mM PTZ	0.0778
EM vs. 10 mM PTZ	<0.0001	EM vs. 10 mM PTZ	<0.0001
EM vs. 20 mM PTZ	0.1367	EM vs. 20 mM PTZ	0.2259
One-way ANOVA table results			
	DF	F (DFn, DFd)	P value
Treatment (between columns)	4	F (4, 220) = 34.91	P<0.0001
Residual (within columns)	220		
Total	224		
One-way ANOVA Tukey's Post-hoc Results			
Tukey's multiple comparisons test	Adjusted P Value		
EM vs. 5 mM PTZ	0.3342		
EM vs. 10 mM PTZ	<0.0001		
EM vs. 20 mM PTZ	<0.0001		
EM vs. 40 mM PTZ	0.9133		