Supplementary Table 7. Statistics: Non-parametric Analysis of Variance and Pairwise Comparisons of Pharmacological Properties of TTX-Sensitive and TTX-Resistant Skeletal Muscles from *Thannophis atratus* and *Thannophis sirtalis*

Test:		Kruskal-Wallis (Non-Parametric ANOVA)				
Variable: IC50 (nM) by Genotype		Midpoint Slope (dx, %/nM) by Genotype		Concentration Range from 10% to 90% Inhibition by Genotype		
chi-squared	33.472	14.58		29.615		
df	3	3		3		
p-value	2.56 x 10 ⁻⁷	0.0022		1.66 x 10 ⁻⁶		
Observations (N=n)	48	47		46		
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Test:	Dunn's Multiple Pairwise Comparison: Whole Cell Electrophysiology					
Variable:		IC50 (nM)				
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	0.5264	3.477	2.8184	5.0526	4.3553	1.5951
P.unadj	0.5986	0.0005	0.00483	4.36 x 10 ⁻⁷	1.3288E-05	0.1107
P.adj	0.5986	0.002	0.0145	2.61 x 10 ⁻⁶	6.64 x 10 ⁻⁵	0.2214
Observations (N=n)	16 - 21	13 - 20	13 - 16	11 - 21	11 - 16	11 - 13
Variable:	Midpoint Slope (% decline per nM)					
Comparison	WTa - WTs	LVNV - WTs LVNV - WTa EPN - WTs EPN - WTa EPN - LVNV				
7	3.2439	2.6842	-0.346	0.3787	-2.3885	-1.968
P.unadj	0.0012	0.0073	0.7294	0.705	0.017	0.049
P.adj	0.0071	0.0364	0.7294	1	0.0677	0.1471
Observations (N=n)	16-21	13 -21	13 - 16	10 -21	10 - 16	10 - 13
Variable:	Concentration Range from 10% to 90% Inhibition by Genotype					
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	3.8102	4.4892	0.8606	4.1641	0.8305	0.0319
P.unadj	0.0001	7.15 x 10 ⁻⁶	0.3895	3.13 x 10 ⁻⁵	0.4063	0.9745
P.adj	0.0006	4.29 x 10 ⁻⁵	1	0.0002	0.8125	0.9745
Observations (N=n)	16 - 20	10 - 20	10 - 16	10 - 20	10 - 16	10 - 13

Definitions:

IC50 (nM) by Genotype

Midpoint Slope (dx, %/nM) by Genotype

[TTX] Range from 10% to 90% Inhibition by Genotype

Concentration of Tetrodotoin at half-maximal inhibition by Tetrodotoxin in nanomolar Boltzmann sigmoidal slope through the inflection point - % decline / increase in concentration The range of intoxication where the muscle is weakened but still contractile (nanomolar)

^{*}Note: Shaded values represent adjusted p-values that fall below a predetermined significance level (α =0.05)