

Supplementary Table 10. Statistics: Analysis of Variance of tetanic mechanical properties of TTX-Sensitive and -Resistant Skeletal Muscles from *Thamnophis sirtalis* and *Thamnophis atratus* (pertaining to Figures 3 and Supp. Fig. 4).

Test:		Kruskal-Wallis (Non-Parametric ANOVA)			
Variable	Baseline Force (N g^{-1}) by Genotype	F_{\max} (N g^{-1}) by Genotype	dFdt_{\max} ($\text{N g}^{-1} \text{s}^{-1}$) by Genotype	dFdt_{\min} ($\text{N g}^{-1} \text{s}^{-1}$) by Genotype	
chi-squared	25.986	20.107	19.895	18.059	
df	3	3	3	3	
p-value	9.6×10^{-6}	0.0002	0.0002	0.0004	
Observations	52	52	52	52	

Variable	Time to 10% F_{\max} (s) by Genotype	Time to dFdt_{\max} (s) by Genotype	Time to dFdt_{\max} (s) by Genotype	Time to dFdt_{\min} (s) by Genotype	
chi-squared	28.828	20.451	20.457	7.3948	
df	3	3	3	3	
p-value	2.43×10^{-6}	0.0001	0.0001	0.0603	
Observations	52	52	52	52	

Definitions:

Baseline Force (N g^{-1})

F_{\max} (N g^{-1})

Time to 10% F_{\max} (s)

Time to 50% F_{\max} relaxation (s)

Contraction Duration from 10% maximal contraction to 50% post-maximal relaxation (s)

dFdt_{\max} ($\text{N g}^{-1} \text{s}^{-1}$)

dFdt_{\min} ($\text{N g}^{-1} \text{s}^{-1}$)

Time to dFdt_{\max} (s)

Time to dFdt_{\min} (s)

Contraction Duration from dFdt_{\max} to dFdt_{\min} (s)

Optimal baseline tension on the muscles in Newtons/gram-tissue

Maximum force produced by each phasic contraction in Newtons/gram

Time to develop 10% of maximal force from stimulus onset (seconds)

Time required to half-maximally relax from stimulus onset (seconds)

(Time to 50% relaxation) - (Time to 10% contraction) (seconds)

Positive peak of first derivative (in Newtons/gram-tissue per second)

Negative peak of first derivative (in Newtons/gram-tissue per second)

Time from stimulus onset to peak rate of force development (seconds)

Time from stimulus onset to peak rate of force relaxation (seconds)

(Time to dFdt_{\min}) - (Time to dFdt_{\max}) (seconds)

Note: WTa = Ancestral *Thamnophis atratus*, EPN = TTX resistant *Thamnophis atratus*; WTs = Ancestral *Thamnophis sirtalis*, LVNV = TTX resistant *Thamnophis sirtalis*

Note: Shaded values represent adjusted p-values that fall below a predetermined significance level ($\alpha=0.05$)