

**Supplementary Table 3. Statistics: Physical, Pharmacological & Husbandrical properties TTX-Sensitive & -Resistant *Thamnophis sirtalis* & *Thamnophis atratus* used in myography experiments**

Test:		Dunn's Multiple Pairwise Comparison: Whole Cell Electrophysiology				
Variable:		Mass-Adjusted Mouse Unit - TTX				
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	-3.575	3.383	6.066	2.846	5.280	-0.107
P.unadj	0.00035	0.00072	$1.312 \times 10^{-9}$	0.0044	$1.295 \times 10^{-7}$	0.915
P.adj	0.0014	0.0022	$7.88 \times 10^{-9}$	0.0088	$6.47 \times 10^{-7}$	0.915
Observations (N=n)	16 - 23	10 - 23	10 - 16	7 - 16	7 - 16	7 - 10
Variable:		Snout-Vent Length (mm)				
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	2.764	1.93	-0.429	2.276	0.636	0.865
P.unadj	0.0057	0.0536	0.6678	0.0228	0.5251	0.3870
P.adj	0.0342	0.2143	0.6678	0.1142	1	1
Observations (N=n)	16 - 11	8 - 11	8 - 16	3 - 16	3 - 16	3 - 8
Variable:		Body Mass (g)				
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	2.748	2.715	0.294	3.37	0.966	0.606
P.unadj	0.0060	0.0066	0.7691	0.0008	0.3341	0.5446
P.adj	0.0299	0.0265	0.7691	0.0045	1	1
Observations (N=n)	16 - 14	10 - 14	10 - 16	10 - 16	10 - 16	10 - 10
Variable:		Days in Captivity (days)				
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	-5.0596	-0.4005	3.8667	-4.0266	0	-3.2594
P.unadj	$4.2 \times 10^{-7}$	0.6888	0.00011	$5.66 \times 10^{-5}$	1	0.0011
P.adj	$2.52 \times 10^{-6}$	1	0.00044	0.00028	1	0.00335
Observations (N=n)	16 - 22	11 - 22	11 - 16	8 - 16	8 - 16	8 - 11

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 value ( $\alpha=0.05$ )