		Dunn's I	Multiple Pairwise Compa	rison: Whole Cell Electro	physiology	
Variable:				N g ⁻¹) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	9.2001	0.281 0.7787	-7.3837	-0.8232 0.4104	-8.2033	-0.9494
P.unadj P.adj	3.58 x 10 ⁻²⁰ 2.15 x 10 ⁻¹⁹	0.7787	1.54 x 10 ⁻¹³ 6.16 x 10 ⁻¹³	0.4104	2.34 x 10 ⁻¹⁶ 1.17 x 10 ⁻¹⁵	0.3424 1
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
` ' '	(,, (20,02)	(, (, (),)			(,, (20)0.)	(// (/-//
Variable: Comparison	WTa - WTs	LVNV - WTs	F _{max} (N g ⁻¹) LVNV - WTa	by Genotype EPN - WTs	EPN - WTa	EPN - LVNV
Z	1.204	-8.358	-8.823	-4.7751	-5.4589	2.8728
P.unadj	0.2288	6.38 x 10 ⁻¹⁷	1.11 x 10 ⁻¹⁸	1.8 x 10 ⁻⁶	4.8 x 10 ⁻⁸	0.0041
P.adj	0.2288	3.19 x 10 ⁻¹⁶	6.68 x 10 ⁻¹⁸	5.39 x 10 ⁻⁶	1.92 x 10 ⁻⁷	0.0081
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			Time to 10% F _m	ax (s) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	6.8136	4.3741	-1.5692	2.7744	-2.8955	-1.2647
P.unadj	9.52 x 10 ⁻¹²	1.22 x 10 ⁻⁵	0.1166	0.0055	0.0038	0.206
P.adj	5.71 x 10 ⁻¹¹ (16,64) - (23,92)	6.1 x 10 ⁻⁵	0.2332	0.0166	0.0151	0.206
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			Time to F _{max} ((s) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	5.134	3.1614	-1.3083	-0.7812	-4.8802	-3.33
P.unadj	2.34 x 10 ⁻⁷	0.0016	0.1908	0.4347	1.06 x 10 ⁻⁶	0.0009
P.adj	1.7 x 10 ⁻⁶ (16,64) - (23,92)	0.0047 (11,44) - (23,92)	0.3815	0.4347 (10,40) - (23,92)	5.3 x 10 ⁻⁶	0.0035 (10,40) - (11,44)
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			Time to 50% F _{max} rela	exation (s) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	6.0629	1.5034	-3.6321	-1.8299	-6.6157	-2.8477
P.unadj	1.34 x 10 ⁻⁹	0.1327	0.0003	0.0673	3.7 x 10 ⁻¹¹	0.0044
P.adj Observations (N.n)	6.68 x 10 ⁻⁹ (16,64) - (23,92)	0.1327 (11,44) - (23,92)	0.0011 (11,44) - (16,64)	0.1345 (10,40) - (23,92)	2.22 x 10 ⁻¹⁰ (10,40) - (16,64)	0.0132 (10,40) - (11,44)
Observations (N,II)	(10,04) - (23,92)	(11,44) - (23,32)	(11,44) - (10,04)	(10,40) - (23,92)	(10,40) - (10,04)	(10,40) - (11,44)
Variable:		ontraction Duration from	n 10% maximal contracti	on to 50% post-maxima	relaxation (s) by Genoty	e
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	5.2261	0.2288 0.819	-4.1296	-2.8344 0.0046	-6.8838	-2.6492 0.0081
P.unadj P.adj	1.73 x 10 ⁻⁷ 8.66 x 10 ⁻⁷	0.819	3.63 x 10 ⁻⁵ 0.0001	0.0046	5.83 x 10 ⁻¹² 3.5 x 10 ⁻¹¹	0.0081
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Phasic continued.	, , , , , ,	, , , , , , ,	, , , , , ,			
Variable:				s ⁻¹) by Genotype		
Comparison Z	WTa - WTs 1.3333	LVNV - WTs -7.9934	LVNV - WTa -8.5897	EPN - WTs -4.4751	EPN - WTa -5.2818	EPN - LVNV
P.unadj	0.1824	1.31 x 10 ⁻¹⁵	8.72 x 10 ⁻¹⁸	7.64 x 10 ⁻⁶	1.28 x 10 ⁻⁷	2.827 0.0047
P.adj	0.1824	6.56 x 10 ⁻¹⁵	5.23 x 10 ⁻¹⁷	2.29 x 10 ⁻⁵	5.12 x 10 ⁻⁷	0.0094
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	0.003 1
						(10,40) - (11,44)
Variable:				4		(10,40) - (11,44)
Comparison	WT2 - W/Tc	\/N\/ - \&/Te		s ⁻¹) by Genotype	FDN - W/To	
Comparison Z	WTa - WTs -0.8301	LVNV - WTs 6.07	dFdt _{min} (N g ⁻¹ s LVNV - WTa 6.3712	s ⁻¹) by Genotype EPN - WTs 3.2912	EPN - WTa 3.763	(10,40) - (11,44) EPN - LVNV -2.24
			LVNV - WTa	EPN - WTs		EPN - LVNV
Z	-0.8301	6.07	LVNV - WTa 6.3712	EPN - WTs 3.2912 0.001 0.003	3.763	EPN - LVNV -2.24
Z P.unadj	-0.8301 0.4064	6.07 1.28 x 10 ⁻⁹	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰	EPN - WTs 3.2912 0.001	3.763 0.0002	EPN - LVNV -2.24 0.0251
P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁻⁹ (11,44) - (16,64)	EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92)	3.763 0.0002 0.0007	EPN - LVNV -2.24 0.0251 0.0502
P.unadj P.adj Observations (N,n) Variable:	-0.8301 0.4064 0.4064 (16,64) - (23,92)	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹ (11,44) - (23,92)	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁻⁹ (11,44) - (16,64) Time to dFdt _{max}	EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) _x (s) by Genotype	3.763 0.0002 0.0007 (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44)
P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁻⁹ (11,44) - (16,64)	EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92)	3.763 0.0002 0.0007	EPN - LVNV -2.24 0.0251 0.0502
P.unadj P.adj Observations (N,n) Variable: Comparison	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹ (11,44) - (23,92) LVNV - WTs	LVNV - WTa 6.3712 1.88 x 10 ¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max}	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS	3.763 0.0002 0.0007 (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44)
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁻⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁻⁹	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) (x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹ (11,44) - (23,92) LVNV - WTs 5.4244 5.82 x 10 ⁻⁸ 2.91 x 10 ⁻⁷	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64)	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92)	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044
P.unadj P.adj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n)	-0.8301 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92)	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸ 2.91 x 10 ⁷ (11,44) - (23,92)	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64)	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92)	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44)
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664	6.07 1.28 × 10 ⁻⁹ 6.4 × 10 ⁻⁹ (11,44) - (23,92) LVNV - WTs 5.4244 5.82 × 10 ⁻⁸ 2.91 × 10 ⁻⁷	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64)	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92)	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁻⁸ 2.91 x 10 ⁻⁷ (11,44) - (23,92)	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{min} LVNV - WTa	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) n (s) by Genotype EPN - WTS	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44)
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj P.adj P.adj	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 × 10 ⁵ 6.93 × 10 ⁵	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸ 2.91 x 10 ⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653 0.3653	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{min} LVNV - WTa -4.1752 2.98 x 10 ⁵ 0.0001	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) n (s) by Genotype EPN - WTS -2.4015 0.0163 0.049	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10 ⁹ 5.01 x 10 ⁸	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 x 10 ⁵	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸ 2.91 x 10 ⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653	LVNV - WTa 6.3712 1.88 x 10 ⁻³⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻³⁰ 2.85 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{mix} LVNV - WTa -4.1752 2.98 x 10 ⁵	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x (s) by Genotype EPN - WTS -2.4015 0.0163	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10°	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 × 10 ⁵ 6.93 × 10 ⁵	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸ 2.91 x 10 ⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653 0.3653 (11,44) - (23,92)	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁻⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁻⁹ (11,44) - (16,64)	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92)	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10 ⁹ 5.01 x 10 ⁸ (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Variable: Variable: Variable: Variable: Variable: Variable:	-0.8301 0.4064 0.4064 (16.64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 × 10 ⁵ 6.93 × 10 ⁵ (16,64) - (23,92)	6.07 1.28 × 10 ⁹ 6.4 × 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 × 10 ⁸ 2.91 × 10 ⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653 0.3653 (11,44) - (23,92)	LVNV - WTa 6.3712 1.88 x 10 ⁻³⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻³⁰ 2.85 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{min} LVNV - WTa -4.1752 2.98 x 10 ⁵ 0.0001 (11,44) - (16,64)	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x (s) by Genotype EPN - WTS -2.4015 0.0163 0.049 (10,40) - (23,92) dt _{max} to dFdt _{min} (s) by Ge	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10 ⁹ 5.01 x 10 ⁸ (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978 (10,40) - (11,44)
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 × 10 ⁵ 6.93 × 10 ⁵	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸ 2.91 x 10 ⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653 0.3653 (11,44) - (23,92)	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁻⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁻⁹ (11,44) - (16,64)	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92) (10,40) - (23,92)	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10 ⁹ 5.01 x 10 ⁸ (10,40) - (16,64)	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n)	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 × 10 ⁻⁵ 6.93 × 10 ⁻⁵ (16,64) - (23,92) WTa - WTs	6.07 1.28 x 10 ⁹ 6.4 x 10 ⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁸ 2.91 x 10 ⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653 0.3653 (11,44) - (23,92) Cont	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{min} LVNV - WTa -4.1752 2.98 x 10 ⁵ 0.0001 (11,44) - (16,64) action Duration from dFd LVNV - WTa	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) a (s) by Genotype EPN - WTS -2.4015 0.0163 0.049 (10,40) - (23,92) dt _{max} to dF dt _{min} (s) by Ge EPN - WTS	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10 ³ 5.01 x 10 ⁸ (10,40) - (16,64) notype	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978 (10,40) - (11,44)
P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z P.unadj P.adj Observations (N,n) Variable: Comparison Z Variable: Comparison Z Comparison Comparison Z	-0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 x 10 ⁵ 6.93 x 10 ⁵ (16,64) - (23,92) WTa - WTs 4.6294	6.07 1.28 x 10 ⁻⁹ 6.4 x 10 ⁻⁹ (11,44) - (23,92) LVNV - WTS 5.4244 5.82 x 10 ⁻⁸ 2.91 x 10 ⁻⁷ (11,44) - (23,92) LVNV - WTS -0.9053 0.3653 0.3653 (11,44) - (23,92) LVNV - WTS -2.184	LVNV - WTa 6.3712 1.88 x 10 ⁻¹⁰ 1.13 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{max} LVNV - WTa 6.2272 4.75 x 10 ⁻¹⁰ 2.85 x 10 ⁹ (11,44) - (16,64) Time to dFdt _{min} LVNV - WTa -4.1752 2.98 x 10 ⁵ 0.0001 (11,44) - (16,64) caction Duration from dFo	EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x (s) by Genotype EPN - WTS -2.4015 0.0163 0.049 (10,40) - (23,92) dt _{max} to dFdt _{min} (s) by Ge EPN - WTS -2.5327	3.763 0.0002 0.0007 (10,40) - (16,64) EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64) EPN - WTa -5.7613 8.35 x 10 ³ (10,40) - (16,64) notype EPN - WTa -6.1184	EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978 (10,40) - (11,44)

Baseline Force (N g⁻¹)

F_{max} (N g⁻¹) Time to 10% F_{max} (s)

Time to F_{max} (s)

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

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

 $\mathrm{dFdt}_{\mathrm{max}}\,\mathrm{(N~g^{\text{-1}}\,s^{\text{-1}})}$

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

Time to $dFdt_{min}$ (s)

Contaction Duration from $dFdt_{max}$ to $dFdt_{min}$ (s)

Optimal baseline tension on the muscles in Newtons/gram-tissue Maimum force produced by each phasic contraction in Newtons/gram Time to develop 10% of maximal force from stimulus onset (seconds) Time required to achieve maximal force (in 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 dFdtmin) - (Time to dFdtmax) (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 (α =0.05)