

Supplemental Table 1. Statistics of strain differences between LE and SD rats in static and dynamic measurements of the dopamine system.

		Long Evans	Sprague Dawley	Statistic Results
DAT intensity	M	460 ± 46 (n=5)	2391 ± 258 (n=4)	Strain: F (1, 14) = 128.9 P < 0.0001 *** Sex: F (1, 14) = 15.60 P = 0.0015 ** Int: F (1, 14) = 13.68 P = 0.0024 **
	F	428 ± 39 (n=5)	1410 ± 112 (n=4)	
TH intensity	M	1821 ± 118 (n=4)	2440 ± 277 (n=4)	Strain: F (1, 12) = 0.5285 P = 0.4812 Sex: F (1, 12) = 0.02840 P = 0.8690 Int: F (1, 12) = 2.956 P = 0.1112
	F	2299 ± 300 (n=4)	2048 ± 28 (n=4)	
TH⁺ cell number	M	38 ± 9 (n=4)	120 ± 32 (n=4)	Strain: F (1, 12) = 5.137 P = 0.0427* Sex: F (1, 12) = 2.174 P = 0.1661 Int: F (1, 12) = 3.414 P = 0.0895
	F	45 ± 12 (n=4)	53 ± 19 (n=4)	
TH⁺ cell volume	M	269 ± 14 (n=4)	275 ± 38 (n=4)	Strain: F (1, 12) = 0.6988 P = 0.4195 Sex: F (1, 12) = 0.3224 P = 0.5806 Int: F (1, 12) = 1.068 P = 0.3217
	F	283 ± 35 (n=4)	228 ± 23 (n=4)	
Baseline Dopamine	M	1.54 ± 0.49 (n=5)	0.76 ± 0.17 (n=8)	Strain: F (1, 28) = 6.072 P = 0.0201* Sex: F (1, 28) = 5.629 P = 0.0248* Int: F (1, 28) = 0.3786 P = 0.5433
	F	0.79 ± 0.25 (n=6)	0.32 ± 0.05 (n=8)	
Dopamine Release	M	240 ± 22 (n=5)	343 ± 32 (n=8)	Strain: F (1, 23) = 3.964 P = 0.0585 Sex: F (1, 23) = 11.90 P = 0.0022** Int: F (1, 23) = 1.555 P = 0.2250
	F	170 ± 35 (n=6)	194 ± 38 (n=8)	
Baseline Locomotion	M	442 ± 95 (n=5)	74 ± 19 (n=8)	Strain: F (1, 23) = 30.73 P < 0.0001**** Sex: F (1, 23) = 2.373 P = 0.1371 Int: F (1, 23) = 1.077 P = 0.3103
	F	298 ± 91 (n=6)	46 ± 12 (n=8)	
Stimulated Locomotion	M	757 ± 156 (n=5)	492 ± 65 (n=8)	Strain: F (1, 23) = 3.271 P = 0.0836 Sex: F (1, 23) = 0.05017 P = 0.8247 Int: F (1, 23) = 0.09390 P = 0.7620
	F	771 ± 150 (n=6)	398 ± 21 (n=8)	

Values are expressed as mean ± SEM. For dopamine release and stimulated locomotion data were taken at time of maximum effect.