

Supplementary Table 1

Two-way ANOVA for comparisons in FIGURE 4.

Fig.	Property	Main effect	F (DFn, DFd)	p value
4b	RMP (mV)	Stress	$F_{(1, 102)} = 1.331$	$p = 0.2514$
		Treatment	$F_{(1, 102)} = 1.514$	$p = 0.2214$
4c	R_{in} (mW)	Stress	$F_{(1, 102)} = 0.3105$	$p = 0.5786$
		Treatment	$F_{(1, 102)} = 0.3196$	$p = 0.5731$
4d	Rheobase (pA)	Stress	$F_{(1, 102)} = 3.545$	$p = 0.0626$
		Treatment	$F_{(1, 102)} = 0.05221$	$p = 0.8197$

Supplementary Table 2

Two-way ANOVA for comparisons in FIGURE 5.

Fig.	Property	Comparison	<i>Post hoc</i> Tukey's test
5c	RMP (mV)	-CRS+CON	ACSF vs +5-HT, $p = 0.0106$
			ACSF vs 5-HT+PTX, $p = 0.0248$
			5-HT vs 5-HT+PTX, $p = 0.9198$
		+CRS+CON	ACSF vs 5-HT, $p = 0.8994$
			ACSF vs 5-HT+PTX, $p = 0.8789$
			5-HT vs 5-HT+PTX, $p = 0.9989$
		-CRS+RUN	ACSF vs 5-HT, $p = 0.0020$
			ACSF vs 5-HT+PTX, $p = 0.0002$
			5-HT vs 5-HT+PTX, $p = 0.4513$
		+CRS+RUN	ACSF vs 5-HT, $p = 0.0010$
			ACSF vs 5-HT+PTX, $p = 0.0015$
			5-HT vs 5-HT+PTX, $p = 0.9847$
5d	R_{in} (m Ω)	-CRS+CON	ACSF vs 5-HT, $p = 0.0007$
			ACSF vs 5-HT+PTX, $p = 0.0005$
			5-HT vs 5-HT+PTX, $p = 0.9916$
		+CRS+CON	ACSF vs 5-HT, $p < 0.0001$
			ACSF vs 5-HT+PTX, $p < 0.0001$
			5-HT vs 5-HT+PTX, $p = 0.7974$
		-CRS+RUN	ACSF vs 5-HT, $p = 0.0039$
			ACSF vs 5-HT+PTX, $p = 0.0005$
			5-HT vs 5-HT+PTX, $p = 0.5871$
		+CRS+RUN	ACSF vs 5-HT, $p < 0.0001$
			ACSF vs 5-HT+PTX, $p < 0.0001$
			5-HT vs 5-HT+PTX, $p = 0.5500$

5e	Rheobase (pA)	-CRS+CON	ACSF vs 5-HT, $p = 0.0078$
			ACSF vs 5-HT+PTX, $p = 0.0003$
			5-HT vs 5-HT+PTX, $p = 0.3343$
		+CRS+CON	ACSF vs 5-HT, $p = 0.0033$
			ACSF vs 5-HT+PTX, $p = 0.0375$
			5-HT vs 5-HT+PTX, $p = 0.5543$
		-CRS+RUN	ACSF vs 5-HT, $p = 0.1597$
			ACSF vs 5-HT+PTX, $p = 0.0674$
			5-HT vs 5-HT+PTX, $p = 0.8793$
		+CRS+RUN	ACSF vs 5-HT, $p < 0.0001$
			ACSF vs 5-HT+PTX, $p = 0.0102$
			5-HT vs 5-HT+PTX, $p = 0.0108$

Supplementary Table 3

Paired *t*-test 2-tailed comparison for FIGURE 6.

Independent experiments. 5-HT: ACSF vs 5-HT; S-WAY+5-HT: S-WAY vs S-WAY+5-HT; TROPI+5-HT: TROPI vs TROPI + 5-HT

Fig.	Property	Group	Comparison	<i>t</i> -test
6a	RMP % Control	-CRS+CON	5-HT	$t_{(11)} = 4.082, p = 0.0018$
			S-WAY+5-HT	$t_{(8)} = 0.01679, p = 0.9870$
			TROPI+5-HT	$t_{(6)} = 3.283, p = 0.0168$
		+CRS+CON	5-HT	$t_{(12)} = 0.4886, p = 0.6340$
			S-WAY+5-HT	$t_{(5)} = 0.8287, p = 0.4450$
			TROPI+5-HT	$t_{(5)} = 2.520, p = 0.0532$
		-CRS+RUN	5-HT	$t_{(8)} = 4.005, p = 0.0039$
			S-WAY+5-HT	$t_{(6)} = 2.460, p = 0.0491$
			TROPI+5-HT	$t_{(7)} = 0.0891, p = 0.9315$
		+CRS+RUN	5-HT	$t_{(12)} = 3.731, p = 0.0029$
			S-WAY+5-HT	$t_{(6)} = 1.395, p = 0.2126$
			TROPI+5-HT	$t_{(4)} = 3.193, p = 0.0331$
6c	R_{in} % Control	-CRS+CON	5-HT	$t_{(11)} = 6.021, p < 0.0001$
			S-WAY+5-HT	$t_{(8)} = 2.150, p = 0.0638$
			TROPI+5-HT	$t_{(6)} = 5.675, p = 0.0013$
		+CRS+CON	5-HT	$t_{(12)} = 6.400, p < 0.0001$
			S-WAY+5-HT	$t_{(5)} = 2.679, p = 0.0439$
			TROPI+5-HT	$t_{(5)} = 6.235, p = 0.0016$
		-CRS+RUN	5-HT	$t_{(8)} = 4.391, p = 0.0023$
			S-WAY+5-HT	$t_{(6)} = 5.649, p = 0.0013$
			TROPI+5-HT	$t_{(7)} = 1.410, p = 0.2014$
		+CRS+RUN	5-HT	$t_{(12)} = 7.254, p < 0.0001$
			S-WAY+5-HT	$t_{(6)} = 2.375, p = 0.0551$
			TROPI+5-HT	$t_{(4)} = 4.117, p = 0.0146$
6d	Rheobase % Control	-CRS+CON	5-HT	$t_{(11)} = 2.957, p = 0.0130$
			S-WAY+5-HT	$t_{(8)} = 0.7598, p = 0.4692$
			TROPI+5-HT	$t_{(6)} = 3.552, p = 0.0120$
		+CRS+CON	5-HT	$t_{(12)} = 3.191, p = 0.0078$
			S-WAY+5-HT	$t_{(5)} = 1.064, p = 0.3362$

		TROPI+5-HT	$t_{(5)} = 4.876, p = 0.0046$
		5-HT	$t_{(8)} = 2.038, p = 0.0759$
		S-WAY+5-HT	$t_{(6)} = 1.894, p = 0.1167$
		TROPI+5-HT	$t_{(7)} = 1.627, p = 0.1477$
		5-HT	$t_{(12)} = 6.133, p < 0.0001$
		S-WAY+5-HT	$t_{(6)} = 1.295, p = 0.2520$
		TROPI+5-HT	$t_{(4)} = 6.115, p = 0.0036$
6e	AP number % Control	5-HT	$t_{(12)} = 0.1954, p = 0.8483$
		S-WAY+5-HT	$t_{(8)} = 2.718, p = 0.0263$
		TROPI+5-HT	$t_{(6)} = 0.0355, p = 0.9728$
		5-HT	$t_{(11)} = 0.1512, p = 0.8825$
		S-WAY+5-HT	$t_{(5)} = 0.9711, p = 0.3761$
		TROPI+5-HT	$t_{(5)} = 0.4249, p = 0.6885$
		5-HT	$t_{(11)} = 0.7978, p = 0.4419$
		S-WAY+5-HT	$t_{(6)} = 2.041, p = 0.0873$
		TROPI+5-HT	$t_{(7)} = 0.9303, p = 0.3832$
		5-HT	$t_{(11)} = 2.569, p = 0.0261$
		S-WAY+5-HT	$t_{(7)} = 0.2178, p = 0.8338$
		TROPI+5-HT	$t_{(4)} = 1.854, p = 0.1374$
6f	Firing rate % Control	5-HT	$t_{(12)} = 2.965, p = 0.0118$
		S-WAY+5-HT	$t_{(8)} = 0.1823, p = 0.8599$
		TROPI+5-HT	$t_{(6)} = 0.5971, p = 0.5723$
		5-HT	$t_{(11)} = 1.856, p = 0.0904$
		S-WAY+5-HT	$t_{(6)} = 0.7356, p = 0.4897$
		TROPI+5-HT	$t_{(5)} = 0.7786, p = 0.4714$
		5-HT	$t_{(11)} = 0.8920, p = 0.3915$
		S-WAY+5-HT	$t_{(6)} = 0.5272, p = 0.6170$
		TROPI+5-HT	$t_{(7)} = 0.2720, p = 0.7935$
		5-HT	$t_{(11)} = 3.321, p = 0.0068$
		S-WAY+5-HT	$t_{(7)} = 0.9737, p = 0.3626$
		TROPI+5-HT	$t_{(4)} = 0.0771, p = 0.9422$

Cell number x group in RMP, R_{in} , and Rheobase:

5-HT: -CRS+CON, $n = 12$ from 8 mice; +CRS+CON, $n = 13$ from 5 mice; -CRS+RUN, $n = 9$ from 6 mice; +CRS+RUN, $n = 13$ from 8 mice.

S-WAY+5-HT: -CRS+CON, $n = 9$ from 4 mice; +CRS+CON, $n = 7$ from 4 mice; -CRS+RUN, $n = 7$ from 4 mice; +CRS+RUN, $n = 7$ from 5 mice.

TROPI+5-HT: -CRS+CON, $n = 7$ from 4 mice; +CRS+CON, $n = 6$ from 4 mice; -CRS+RUN, $n = 8$ from 4 mice; +CRS+RUN, $n = 5$ from 4 mice.

Cell number x group in AP number and Firing rate

5-HT: -CRS+CON, $n = 13$ from 10 mice; +CRS+CON, $n = 12$ from 5 mice; -CRS+RUN, $n = 12$ from 10 mice; +CRS+RUN, $n = 12$ from 7 mice.

S-WAY+5-HT: -CRS+CON, $n = 9$ from 4 mice; +CRS+CON, $n = 7$ from 4 mice; -CRS+RUN, $n = 7$ from 4 mice; +CRS+RUN, $n = 8$ from 5 mice.

TROPI+5-HT: -CRS+CON, $n = 7$ from 4 mice; +CRS+CON, $n = 6$ from 3 mice; -CRS+RUN, $n = 8$ from 4 mice; +CRS+RUN, $n = 5$ from 3 mice.

Supplementary Table 4

Paired *t*-test 2-tailed comparison for FIGURE 7.Independent experiments. S-WAY: ACSF vs S-WAY; TROPI: ACSF vs TROPI.

Fig.	Property	Group	Comparison	<i>t</i> -test
7a	RMP % Control	-CRS+CON	S-WAY	$t_{(8)} = 0.5077, p = 0.6254$
			TROPI	$t_{(6)} = 0.6755, p = 0.5245$
		+CRS+CON	S-WAY	$t_{(5)} = 0.8925, p = 0.4130$
			TROPI	$t_{(5)} = 1.583, p = 0.1743$
		-CRS+RUN	S-WAY	$t_{(6)} = 3.398, p = 0.0145$
			TROPI	$t_{(7)} = 0.0614, p = 0.9527$
		+CRS+RUN	S-WAY	$t_{(6)} = 0.9134, p = 0.3963$
			TROPI	$t_{(4)} = 1.193, p = 0.2987$
		-CRS+CON	S-WAY	$t_{(8)} = 0.4148, p = 0.6892$
			TROPI	$t_{(6)} = 0.1008, p = 0.9230$
7b	R_{in} % Control	+CRS+CON	S-WAY	$t_{(5)} = 2.693, p = 0.0431$
			TROPI	$t_{(5)} = 1.369, p = 0.2293$
		-CRS+RUN	S-WAY	$t_{(6)} = 1.369, p = 0.2202$
			TROPI	$t_{(7)} = 1.922, p = 0.0961$
		+CRS+RUN	S-WAY	$t_{(6)} = 0.0111, p = 0.9914$
			TROPI	$t_{(4)} = 0.6531, p = 0.5493$
		-CRS+CON	S-WAY	$t_{(8)} = 0.3416, p = 0.7414$
			TROPI	$t_{(6)} = 0.4579, p = 0.6631$
7c	Rheobase % Control	+CRS+CON	S-WAY	$t_{(5)} = 1.265, p = 0.2617$
			TROPI	$t_{(5)} = 0.7262, p = 0.5003$
		-CRS+RUN	S-WAY	$t_{(6)} = 0.4224, p = 0.6875$
			TROPI	$t_{(7)} = 0.3693, p = 0.3693$
		+CRS+RUN	S-WAY	$t_{(6)} = 1.365, p = 0.2213$
			TROPI	$t_{(4)} = 0.5213, p = 0.6297$
		-CRS+CON	S-WAY	$t_{(8)} = 0.3416, p = 0.7414$
			TROPI	$t_{(6)} = 0.4579, p = 0.6631$

7d	AP number % Control	-CRS+CON	S-WAY	$t_{(8)} = 0.5380, p = 0.6052$
			TROPI	$t_{(6)} = 1.388, p = 0.2144$
		+CRS+CON	S-WAY	$t_{(5)} = 0.2921, p = 0.7820$
			TROPI	$t_{(5)} = 2.767, p = 0.0395$
		-CRS+RUN	S-WAY	$t_{(6)} = 2.532, p = 0.0446$
			TROPI	$t_{(7)} = 0.8950, p = 0.4005$
		+CRS+RUN	S-WAY	$t_{(6)} = 1.432, p = 0.2021$
			TROPI	$t_{(4)} = 1.961, p = 0.1214$
7e	Firing rate % Control	-CRS+CON	S-WAY	$t_{(8)} = 0.5070, p = 0.6258$
			TROPI	$t_{(6)} = 0.3815, p = 0.7160$
		+CRS+CON	S-WAY	$t_{(5)} = 0.9816, p = 0.3714$
			TROPI	$t_{(5)} = 0.5571, p = 0.6015$
		-CRS+RUN	S-WAY	$t_{(6)} = 1.038, p = 0.3391$
			TROPI	$t_{(7)} = 0.3802, p = 0.7151$
		+CRS+RUN	S-WAY	$t_{(6)} = 1.031, p = 0.3422$
			TROPI	$t_{(4)} = 0.2510, p = 0.8142$

Cell number x group

S-WAY+5-HT: -CRS+CON, $n = 9$ from 4 mice; +CRS+CON, $n = 6$ from 4 mice; -CRS+RUN, $n = 7$ from 4 mice; +CRS+RUN, $n = 7$ from 5 mice.

TROPI+5-HT: -CRS+CON, $n = 7$ from 4 mice; +CRS+CON, $n = 6$ from 3 mice; -CRS+RUN, $n = 8$ from 4 mice; +CRS+RUN, $n = 5$ from 3 mice.