

Experiment	Fig	Test	Variation Source	F(DFn, DFd) or t(DF)	P-Value	n
Opto RTPP, Side Preference	1C					YFP = 12 (8F, 4M)
Test for Sex Differences		3-way ANOVA, matching by stress	Chr2	F (1, 14) = 5.567	0.0334	Chr2 = 6 (4F, 2M)
			Stress	F (1, 14) = 1.029	0.3275	
			Sex	F (1, 14) = 0.3890	0.5428	
			Chr2 x Stress	F (1, 14) = 0.9356	0.3498	
			Chr2 x Sex	F (1, 14) = 3.611	0.0782	
			Stress x Sex	F (1, 14) = 1.611	0.2251	
			Chr2 x Stress x Sex	F (1, 14) = 0.9883	0.337	
Sexes Combined		2-way RM ANOVA, matching by stress	Interaction	F (1, 16) = 0.2360	0.6304	
			Chr2	F (1, 16) = 4.325	0.0456	
			Stress	F (1, 16) = 0.2043	0.6544	
Optp RTPP, Freezing Time	1D					YFP = 12 (8F, 4M)
Test for Outliers		ROUT (Q=0.1%), 1 outlier =118.5				Chr2 = 6 (4F, 2M)
Test for Sex Differences		Ordinary 2-way ANOVA	Interaction	F (1, 13) = 1.430	0.2531	YFP = 11 (8F, 3M)
			Sex	F (1, 13) = 6.138	0.0277	Chr2 = 6 (4F, 2M)
			Chr2	F (1, 13) = 16.29	0.0014	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(15)=4.137	0.0009	
Opto RTPP, Distance Traveled	1E					YFP = 12 (8F, 4M)
Test for Sex Differences		Ordinary 2-way ANOVA	Interaction	F (1, 14) = 0.7566	0.3991	Chr2 = 6 (4F, 2M)
			Sex	F (1, 14) = 0.2632	0.6159	
			Chr2	F (1, 14) = 2.927	0.1092	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(16) = 2.157	0.0465	
Opto RTPP, Avg Speed	1F		Interaction	F (1, 14) = 0.6030	0.4503	YFP = 12 (8F, 4M)

Test for Sex Differences		Ordinary 2-way ANOVA	Sex	F (1, 14) = 0.2442	0.6288	Chr2 = 6 (4F, 2M)
			Chr2	F (1, 14) = 2.871	0.1123	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(16)=2.123	0.0497	
cfos IHC, Total cfos	2B					No stress = 20 (10F, 10M)
Test for Sex Differences		Ordinary 2-way ANOVA	Interaction	F (3, 46) = 0.8842	0.4564	90 min = 10 (5F, 5M)
			Sex	F (1, 46) = 2.929	0.0937	3hr = 14 (7F, 7M)
			Post Stress Timepoint	F (3, 46) = 16.60	<0.0001	24hr = 10 (5F, 5M)
Test for equal variance		Bartlett's Test	Are SD's different	Bartlett's stat = 11.90	0.0077	
Sexes Combined		Welch's 1-way ANOVA	Post Stress Timepoint	F(3, 20.25) = 19.43	<0.0001	
		Dunnett's T3 multiple comparisons	No Stress vs. 90 min	t(7.122) = 11.80	<0.0001	
			No Stress vs. 3 hrs	t(4.156) = 16.04	0.0043	
			No Stress vs. 24 hrs	t(1.702) = 11.77	0.4709	
			90 min vs. 3 hrs	t(1.73) = 21.94	0.4357	
			90 min vs. 24 hrs	t(4.095) = 18.00	0.004	
			3 hrs vs. 24 hrs	t(2.09) = 21.93	0.2432	
cfos IHC, PKCd cfos	2C					No stress = 20 (10F, 10M)
Test for Sex Diff		Ordinary 2-way ANOVA	Interaction	F (3, 46) = 0.7909	0.5052	90 min = 10 (5F, 5M)
			Sex	F (1, 46) = 3.732	0.0595	3hr = 14 (7F, 7M)
			Post Stress Timepoint	F (3, 46) = 0.7946	0.5032	

						24hr = 10 (5F, 5M)
Sexes Combined		Ordinary 1-way ANOVA	Post Stress Timepoint	F (3, 50) = 0.7788	0.5114	
		R squared: 0.04464				
PKCd- vs PKCd+ Rheobase	2F					N=6 mice (3F, 3M)
Test for Outliers		ROUT, Q=0.01%, 1 outlier PKCd(-) = 100				PKCd(-) n = 10 cells (3F, 7M)
						PKCd(+) n = 12cells (5F, 7M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 18) = 0.07917	0.7816	
			Sex	F (1, 18) = 0.03961	0.8445	
			PKCd	F (1, 18) = 5.737	0.0277	
Sexes Combined		Unpaired two-tailed t test	PKCd	t(20) = 2.775	0.0117	
Opto NSFT	4A					YFP = 18 (10F, 8M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 26) = 0.8302	0.3706	Chr2 = 11 (6F, 5M)
			Sex	F (1, 26) = 0.4718	0.4983	
			Chr2	F (1, 26) = 1.584	0.2194	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(27) = 1.761	0.0896	
Opto EPM	4B					YFP = 7 (3F, 4M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 12) = 0.2374	0.6349	Chr2 = 9 (5F, 4M)
			Sex	F (1, 12) = 0.003313	0.955	
			Chr2	F (1, 12) = 7.188	0.02	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(14) = 2.890	0.0119	
Photometry EPM Open Arm	4E					9 (7F, 2M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 14) = 0.1014	0.7548	
			Pre vs Post Entry	F (1, 14) = 0.04925	0.8276	

			Sex	$F(1, 14) = 0.7767$	0.393	
Sexes Combined		Paired two-tailed t test	Pre vs Post Entry	$t(8) = 1.018$	0.3383	
Photometry EPM Closed Arm	4F					9 (7F, 2M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	$F(1, 15) = 0.9737$	0.3394	
			Pre vs Post Entry	$F(1, 15) = 2.034$	0.1743	
			Sex	$F(1, 15) = 2.039$	0.1738	
Sexes Combined		Paired two-tailed t test	Pre vs Post Entry	$t(8) = 2.145$	0.0321	
Photometry Open Arm Time/Zscore Correlation	4G					9 (7F, 2M)
Test for Sex Diffs		Simple linear regression, Are lines diff?				39 values
		Are slope equal?		$F(1,35) = 2.330$	0.1359	
		Are intercepts equal?		$F(1,36) = 0.7535$	0.3911	
Sexes Combined		Simple linear regression	$R^2 = 0.2361$	$F(1,37) = 11.44$	0.0017	
		$Y = -0.1440 * X + 1.274$	$Sy. x = 1.538$			
Photometry Footshock	5A					10 (8F, 2M)
Test for Sex Diffs		Mixed Effects Analysis (3-way)	Day	$F(1, 8) = 0.6167$	0.4549	
		Paired by day and shock	Shock	$F(1, 8) = 5.775$	0.043	
		Reason for mixed effect model:	Sex	$F(1, 8) = 2.767$	0.1348	
		one mouse lost implant after day 1	Day x Shock	$F(1, 6) = 0.7106$	0.4316	
			Day x Sex	$F(1, 8) = 0.7621$	0.4081	
			Shock x Sex	$F(1, 8) = 1.967$	0.1983	
			Day x Shock x Sex	$F(1, 6) = 0.01414$	0.9092	
Sexes Combined		Mixed Effects Model (REML) (2-way)	Day	$F(1, 9) = 2.466$	0.1507	

		Paired by day and shock	Shock	$F(1, 9) = 14.75$	0.004	
			Day x Shock	$F(1, 7) = 1.034$	0.3431	
		Šídák's multiple comparisons test	Day 1	$t(16) = 3.996$	0.0021	
			Day 2	$t(16) = 3.459$	0.0064	
Photometry RESTRAINT Freq. Baseline vs Stress	5D-L					10 (8F, 2M)
Test for Sex Diffs		3-way ANOVA	Day	$F(4.000, 32.00) = 0.3121$	0.8678	
		Paired by day and stress	Stress	$F(0.3852, 3.082) = 3.198$	0.143	
			Sex	$F(1, 8) = 1.930$	0.2022	
			Day x Stress	$F(2.943, 23.55) = 0.1093$	0.9518	
			Day x Sex	$F(4, 32) = 0.2886$	0.8832	
			Stress x Sex	$F(1, 8) = 1.232$	0.2992	
			Day x Stress x Sex	$F(4, 32) = 1.758$	0.1617	
Sexes Combined		2-way RM ANOVA	Day	$F(4, 36) = 0.8793$	0.486	
		Paired by day and stress	Stress	$F(1, 9) = 9.175$	0.0143	
			Day x Stress	$F(4, 36) = 1.107$	0.3681	
		Šídák's multiple comparisons test	Day 1	$t(36) = 2.563$	0.0714	
			Day 2	$t(36) = 2.055$	0.2149	
			Day 3	$t(36) = 1.828$	0.3258	
			Day 4	$t(36) = 3.911$	0.002	
			Day 5	$t(36) = 4.096$	0.0011	
Photometry RESTRAINT Freq. Fold Change	5D-R					10 (8F, 2M)
Test for Outliers		ROUT (Q=0.1%), 4 Outliers	B3212 day 1 = 13.375			
			B3207 Day 2 = 2.45			
			B3209 Day 2 = 2.564			

			B3020 Day 5 = 13.333			
Test for Sex Diffs		Mixed Effects Model (REML) (2-way)	Day	F (4, 28) = 0.4926	0.7412	
		Paired by day	Sex	F (1, 8) = 1.200	0.3053	
		Reason for Mixed effects: outliers removed	Day x Sex	F (4, 28) = 0.5423	0.706	
Sexes Combined		Mixed Effects REML (1- way)	Day	F (1,347, 10.78) = 1.826	0.2079	
		Paired by day				
		Geisser-Greenhouse's epsilon: 0.3368				
Photometry RESTRAINT Amp. Baseline vs Stress	5E-L					10 (8F, 2M)
Test for Sex Diffs		3-way ANOVA	Day	F (4, 32) = 0.1867	0.9436	
		Paired by day and stress	Stress	F (1, 8) = 3.039	0.1194	
			Sex	F (1, 8) = 1.019	0.3423	
			Day x Stress	F (4, 32) = 0.4561	0.7673	
			Day x Sex	F (4, 32) = 0.1168	0.9756	
			Stress x Sex	F (1, 8) = 1.014	0.3434	
			Day x Stress x Sex	F (4, 32) = 0.6717	0.6164	
Sexes Combined		2-way RM ANOVA	Day	F (4, 36) = 0.6745	0.614	
		Paired by fay and stress	Stress	F (1, 9) = 8.598	0.0167	
			Day x Stress	F (4, 36) = 2.201	0.0884	
		Šídák's multiple comparisons test	Day 1	t(36) = 0.1793	>0.9999	
			Day 2	t(36) = 2.863	0.0343	
			Day 3	t(36) = 3.947	0.0018	
			Day 4	t(36) = 3.317	0.0104	
			Day 5	t(36) = 3.405	0.0082	

Photometry RESTRAINT Amp. Fold Change	5E-R					10 (8F, 2M)
Test for Sex Diffs		2-way RM ANOVA	Day x Sex	F (4, 32) = 0.6066	0.6607	
		Paired by Day	Day	F (2.510, 20.08) = 0.3983	0.7216	
			Sex	F (1, 8) = 1.063	0.3327	
Sexes Combined		1-way RM ANOVA	Day	F (2.528, 22.75) = 1.961	0.1555	
		Paired by day				
		Geisser-Greenhouse's epsilon: 0.632				
		R squared: 0.1789				
RTPP Side Crossings	SF1A					YFP = 12 (8F, 4M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 14) = 0.03329	0.8578	ChR2 = 6 (4F, 2M)
			Sex	F (1, 14) = 0.6587	0.4306	
			ChR2	F (1, 14) = 1.864	0.1937	
Sexes Combined		Unpaired two-tailed t test	ChR2	t(16) = 1.568	0.1364	
NSFT Food Pellet First Approach Latency	SF1B					YFP = 18 (10F, 8M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 25) = 0.1535	0.6985	ChR2 = 11 (6F, 5M)
			Sex	F (1, 25) = 1.850	0.186	
			ChR2	F (1, 25) = 0.2118	0.6494	
Sexes Combined		Unpaired two-tailed t test	ChR2	t(27) = 0.5123	0.6126	
NSFT # Food Pellet Approaches	SF1C					YFP = 18 (10F, 8M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 25) = 0.8796	0.3573	ChR2 = 11 (6F, 5M)
			Sex	F (1, 25) = 0.04767	0.8289	
			ChR2	F (1, 25) = 1.219	0.2801	
Sexes Combined		Unpaired two-tailed t test	ChR2	t(27) = 1.228	0.23	
EPM Latency to First Open Arm Entry	SF1D					YFP = 7 (3F, 4M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 12) = 0.02310	0.8817	ChR2 = 9 (5F, 4M)

			Sex	F (1, 12) = 0.4219	0.5282	
			Chr2	F (1, 12) = 0.1598	0.6963	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(14) = 0.3415	0.7378	
EPM # Open Arm Entries	SF1E					YFP = 7 (3F, 4M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 12) = 3.071	0.1052	Chr2 = 9 (5F, 4M)
			Sex	F (1, 12) = 0.3185	0.5829	
			Chr2	F (1, 12) = 1.483	0.2467	
Sexes Combined		Unpaired two-tailed t test	Chr2	t(14) = 1.201	0.2496	
PKCd+/- Membrane Potential	SF2A					N=6 mice (3F, 3M), PKCd- and PKCd + cells recorded from each mouse
Test for Outliers		ROUT, Q=0.1%, PKCd(-) = -136mV				PKCd(-): n= 10 cells (3F, 7M)
						PKCd(+): n=12 cells (5F, 7M)
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 18) = 0.05422	0.8185	
			Sex	F (1, 18) = 5.972	0.0251	
			PKCd	F (1, 18) = 0.2133	0.6497	
Sexes Combined		Unpaired two-tailed t test	PKCd	t(20) = 0.2323	0.8187	
PKCd+/- Capacitance	SF2B					N=6 mice (3F, 3M), PKCd- and PKCd + cells recorded from each mouse
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	F (1, 21) = 1.277	0.2712	PKCd(-): n= 12 cells (4F, 8M)
			Sex	F (1, 21) = 0.1396	0.7124	PKCd(+): n=13 cells (6F, 7M)

			PKCd	$F(1, 21) = 0.08997$	0.7672	
Sexes Combined		Unpaired two-tailed t test	PKCd	$t(23) = 0.5054$	0.6181	
PKCd+/- Action Potential Threshold	SF2C					N=6 mice (3F, 3M), PKCd- and PKCd + cells recorded from each mouse
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	$F(1, 19) = 0.1978$	0.6615	PKCd(-): n= 11 cells (3F, 8M)
			Sex	$F(1, 19) = 3.189$	0.0901	PKCd(+): n=12 cells (5F, 7M)
			PKCd	$F(1, 19) = 0.1903$	0.6676	
Sexes Combined		Unpaired two-tailed t test	PKCd	$t(21) = 0.8665$	0.396	
PKCd+/- EPSC Frequency	SF2D					N=6 mice (3F, 3M), PKCd- and PKCd + cells recorded from each mouse
Test for Sex Diffs		Ordinary 2-way ANOVA	Interaction	$F(1, 16) = 0.04246$	0.8393	PKCd(-): n= 10 cells (4F, 6M)
			Sex	$F(1, 16) = 1.635$	0.2192	PKCd(+): n=10 cells (6F, 4M)
			PKCd	$F(1, 16) = 1.660$	0.216	
Sexes Combined		Unpaired two-tailed t test	PKCd	$t(18) = 1.590$	0.1292	
PKCd+/- EPSC Amplitude	SF2E					N=6 mice (3F, 3M), PKCd- and PKCd + cells recorded from each mouse

Test for Sex Diff		Ordinary 2-way ANOVA	Interaction	$F(1, 16) = 0.3190$	0.5801	PKCd(-): n= 10 cells (4F, 6M)
			Sex	$F(1, 16) = 0.1073$	0.7475	PKCd(+): n=10 cells (6F, 4M)
			PKCd	$F(1, 16) = 2.674$	0.1215	
Sexes Combined		Unpaired two-tailed t test	PKCd	$t(18) = 1.817$	0.0859	