

Figure	Statistical Test	Independent Variable	Dependent Variable	n	F/H/X ² -Statistic	df	p-value	Group Comparison	z-value	p-value	
1e	Kruskal-Wallis Test	Group Affiliation	Freezing (Conditioning)	BL	21	1.06	2	.588	-	-	-
				Bin1	21	0.40	2	.820	-	-	-
				Bin2	21	1.20	2	.548	-	-	-
	Kruskal-Wallis Test & Dunn's post-hoc Test	Group Affiliation	Freezing (Extinction)	BL	21	3.09	2	.214	-	-	-
				Bin1	21	10.26	2	.006	KO Saline vs. KO CNO	-1.96	.050
									WT Saline vs. KO Saline	3.20	.001
				Bin2	21	13.20	2	.001	KO Saline vs. KO CNO	-2.37	.018
									WT Saline vs. KO Saline	3.61	<.001
				Bin3	21	11.63	2	.003	KO Saline vs. KO CNO	-2.01	.044
									WT Saline vs. KO Saline	3.41	<.001
				Bin4	21	9.86	2	.007	KO Saline vs. KO CNO	-2.51	.012
									WT Saline vs. KO Saline	2.96	.003
				Bin5	21	9.55	2	.008	KO Saline vs. KO CNO	-1.87	.062
									WT Saline vs. KO Saline	3.09	.002
				Bin6	21	4.90	2	.086	-	-	-
				Bin7	21	14.40	2	<.001	KO Saline vs. KO CNO	-0.85	.396
									WT Saline vs. KO Saline	3.55	<.001

	RM-ANOVA	Time	Freezing (Extinction): Bin1 - Bin7	KO CNO	7	8.72	6, 36	<.001	-	-	-
	Friedman's Test	Time	Freezing (Extinction): Bin1 - Bin7	KO Saline	8	18.00	6	.006	-	-	-
				WT Saline	6	18.21	6	.006	-	-	-
1f	Kruskal- Wallis Test	Group Affiliation	Total Distance moved (Habituation)		21	0.32	2	.840	-	-	-
1g	Kruskal- Wallis Test	Group Affiliation	Maximum	BL	21	0.01	2	.996	-	-	-
			Velocity	CS1 to CS5	21	0.89	2	.642	-	-	-
	Friedman's Test	Time	Maximum Velocity	KO CNO	7	7.00	1	.008	-	-	-
				KO Saline	6	6.00	1	.014	-	-	-
				WT Saline	8	4.50	1	.034	-	-	-
1h	Kruskal- Wallis Test	Group Affiliation	Total Distance moved (Extinction)		21	0.10	2	.953	-	-	-
1i	Two-way ANOVA	Genotype	Maximum Velocity (Extinction)		21	1.59	1, 18	.224	-	-	-
		Treatment			21	0.94	1, 18	.345	-	-	-
		GenotypeXTreatment			21	-	0, 18	-	-	-	-
1j	Kruskal- Wallis Test & Dunn's post- hoc Test	Group Affiliation	Freezing (Retrieval)		21	10.26	2	.006	KO Saline vs. KO CNO	-1.96	.050
									WT Saline vs. KO Saline	3.20	.001

2e	Kruskal-Wallis Test	Group Affiliation	Freezing	BL	20	4.99	2	.082	-	-	-
			(Conditioning)	Bin1	20	0.02	2	.991	-	-	-
				Bin2	20	2.32	2	.313	-	-	-
	Kruskal-Wallis Test & Dunn's post-hoc Test	Group Affiliation	Freezing (Extinction)	BL	20	8.67	2	.013	WT Saline vs. WT CNO	2.01	.044
									WT Saline vs. KO Saline	2.80	.005
									-	-	-
				Bin1	20	4.90	2	.031	WT Saline vs. WT CNO	2.05	.041
									WT Saline vs. KO Saline	2.37	.018
									-	-	-
				Bin2	20	6.94	2	.014	WT Saline vs. WT CNO	2.23	.026
									WT Saline vs. KO Saline	2.65	.008
									-	-	-
				Bin3	20	8.51	2	.004	WT Saline vs. WT CNO	3.23	.001
									WT Saline vs. KO Saline	2.12	.034
									-	-	-
				Bin4	20	11.13	2	.033	WT Saline vs. WT CNO	1.62	.106
									WT Saline vs. KO Saline	2.54	.011
									-	-	-
				Bin5	20	6.82	2	.091	WT Saline vs. WT CNO	2.25	.025
									WT Saline vs. KO Saline	2.78	.005
									-	-	-
	Friedman's Test	Time	Freezing	WT CNO	7	24,67	6	<.001	-	-	-
			(Extinction):	WT Saline	8	18.21	6	.006	-	-	-
			Bin1 – Bin7	KO Saline	5	17,57	6	.007	-	-	-

2f	Kruskal-Wallis Test	Group Affiliation	Total Distance moved (Habituation)		20	2.61	2	.271	-	-	-
2g	Kruskal-Wallis Test	Group Affiliation	Maximum	BL	20	1.01	2	.604	-	-	-
			Velocity	Cs1 to CS5	20	0.08	2	.962	-	-	-
	Friedman's Test	Time	Maximum	WT CNO	7	7.00	1	.008	-	-	-
			Velocity	WT Saline	8	4.50	1	.034	-	-	-
				KO Saline	5	5.00	1	.025	-	-	-
2h	Two-way ANOVA	Genotype	Total Distance moved (Extinction)		20	9.95	1, 17	.006	-	-	-
		Treatment			20	0.67	1, 17	.425	-	-	-
		GenotypeXTreatment			20	-	0, 17	-	-	-	-
2i	Two-way ANOVA	Genotype	Maximum Velocity (Extinction)		20	5.59	1, 17	.030	-	-	-
		Treatment			20	0.05	1, 17	.824	-	-	-
		GenotypeXTreatment			20	-	1, 17	-	-	-	-
2j	Kruskal-Wallis Test	Group Affiliation	Freezing (Retrieval)		20	4.90	2	.086	-	-	-