

Supplementary Table: Statistical analyses for each figure panel and all results.

Bold text and *** p<0.05, italicized text, 0.05<p<0.1. *Magnitudes of partial omega-squared (for RM two-way ANOVA): 0.01 small; 0.06 medium; 0.14 large, N/A not applicable.

Dependent Measure	Figure Panel	Group: Subject Number	Mean	Statistical Test	Variables, Main Effect, Interaction	F Value	P value	Post hoc Test	Effect size (values from two-way ANOVA) (p=0.05, 0.06, 0.14)	CI (95%)
Weights	1D	SCR: 9 TRIPb: 10	Post-surgery (wks) SCR 26.2 TRIPb: 10 24.43 25.98 24.27 24.54 24.62 24.95 25.45 25.5 26.21 26.76 26.96 27.21 27.14 27.51 28.04 29.03 29.11 31.41	Mean 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Time****	F (14, 239) = 138.6 P<0.0001 F (1, 23) = 0.6704 P=0.4242 F (14, 239) = 0.9406 P=0.5158	N/A			
General touchscreen training with windows	2A	SCR: 9 TRIPb: 10	Training Stage HAB SCR 1 TRIPb: 10 1 1 1	General TS training IT MT MI Pt	RM 2-way ANOVA F (1, 17) = 75.03 P<0.0001 Virus F (1, 17) = 0.2622 P=0.6286 Interaction F (4, 68) = 0.3332 P=0.8547	N/A	0.92 .77 .96			
Punish incorrect Session Length	2B	SCR: 9 TRIPb: 10	Sessions SCR 1292 TRIPb: 10 1349	Session length (s) Day 1 Last 1256 30 30	Training Stage*** RM 2-way ANOVA F (1, 17) = 0.0857 P=0.7731 Virus F (1, 17) = 0.2492 P=0.6240 Interaction F (1, 17) = 2.1236 P=0.0964	N/A				
Punish incorrect Trial Number	2C	SCR: 9 TRIPb: 10	Session SCR 29.89 TRIPb: 10 27.8	Trial # Day 1 Last 30 30	Training Stage*** RM 2-way ANOVA F (1, 17) = 2.658 P=0.1092 Virus F (1, 17) = 2.335 P=0.1449 Interaction F (1, 17) = 2.335 P=0.1449	N/A				
Punish incorrect percent correct	2D	SCR: 9 TRIPb: 10	Session SCR 53.19 TRIPb: 10 61.82	% correct Day 1 Last 90 89	Training Stage*** RM 2-way ANOVA F (1, 17) = 14.2 P=0.0001 Virus F (1, 17) = 0.2231 P=0.2231 Interaction F (1, 17) = 3.358 P=0.0844	Day 1 vs Last on beh. ***p<0.001	0.85 .64 .94			
LDR Train: Percent reaching criteria	3B	SCR TRIP		LD train criteria completion curve Median: 5.5 Median: 7	Log-rank (Mantel-Cox) test	N/A	N/A	p=0.528	N/A	
LDR Train: Days to completion	3C	SCR: 9 TRIPb: 10		Days to completion 5.111 ± 0.824 7.4 ± 1.046	Unpaired t-test	N/A	N/A	p=0.1088	N/A	
LDR Train: Percent correct	3D	SCR: 9 TRIPb: 10	Sessions SCR 39.29 TRIPb: 10 34.87	% correct Day 1 Last day 45.47 50.42	RM 2-way ANOVA F (1, 17) = 10.08 P=0.0005 Virus F (1, 17) = 0.0006 P=0.9796 Interaction F (1, 17) = 2.084 P=0.1671	Day 1 vs Last day in TRIPb: 10 p=0.3075	0.19	0.00 .53		
LDR Train: Time to 1st reversal	3E	SCR: 9 TRIPb: 10	Session SCR 1316 TRIPb: 10 857.6	Time to 1st reversal Day 1 Last day 760 932.3	RM 2-way ANOVA F (1, 17) = 1.386 P=0.2552 Virus F (1, 17) = 1.500 P=0.2373 Interaction F (1, 17) = 2.382 P=0.1411	N/A				
LDR Train: percent correct to 1st reversal	3F	SCR: 9 TRIPb: 10	Session SCR 47.92 TRIPb: 10 63.57	% correct to 1st reversal Day 1 Last day 64.97 68.08	RM 2-way ANOVA F (1, 17) = 1.571 P=0.2271 Virus F (1, 17) = 2.700 P=0.1187 Interaction F (1, 17) = 0.5309 P=0.4762	N/A				
LDR Test: Block 1, time to 1st reversal	4C	SCR: 9 TRIPb: 10	Session Large 1032 SCR 1296	Block 1 time to 1st reversal (sec) Small 1460 1380	Separation RM 2-way ANOVA F (1, 17) = 1.084 P=0.3124 Virus F (1, 17) = 2.423 P=0.1380 Interaction F (1, 17) = 0.7199 P=0.6768	N/A				
LDR Test: Block 1, percent correct to 1st reversal	4D	SCR: 9 TRIPb: 10	Session Large 61.69 SCR 52.42	Block 1 % correct to 1st reversal Small 47.32 50.03	Separation RM 2-way ANOVA F (1, 17) = 1.679 P=0.2123 Virus F (1, 17) = 0.8233 P=0.7171 Interaction F (1, 17) = 0.8683 P=0.3672	N/A				
LDR Test: Block 4, time to 1st reversal	4E	SCR: 9 TRIPb: 10	Session Large 730.6 SCR 604.8	Block 4 time to 1st reversal (sec) Small 1685 690.5	Separation RM 2-way ANOVA F (1, 17) = 16.36 P=0.0006 Virus** F (1, 17) = 15.53 P=0.0011 Interaction F (1, 17) = 3.589 P=0.0753	SCR vs TRIPb in Small Separation: p=0.0012	0.37 .04 .68			
LDR Test: Block 6, percent correct to 1st reversal	4F	SCR: 9 TRIPb: 10	Session Large 59.29 SCR 63.31	Block 6 % correct to 1st reversal Small 44.03 63.76	Separation RM 2-way ANOVA F (1, 17) = 1.760 P=0.2022 Virus** F (1, 17) = 8.939 P=0.0008 Interaction F (1, 17) = 0.8485 P=0.3575	SCR vs TRIPb in Small Separation: p=0.0012	0.10 .00 .44			
LDR Test: Block 1, reversal #	4G	SCR: 9 TRIPb: 10	Session Large 1.444 SCR 0.8	Block 1 reversal # Small 0.5556 0.4	Separation RM 2-way ANOVA F (1, 17) = 10.07 P=0.0006 Virus F (1, 17) = 1.448 P=0.2454 Interaction F (1, 17) = 1.448 P=0.2453	Large Separation vs Small Separation: p=0.52	0.12 .00 .46			
LDR Test: Block 6, reversal #	4H	SCR: 9 TRIPb: 10	Session Large 1.506 SCR 2.1	Block 6 reversal # Small 0.3333 1.2	Separation RM 2-way ANOVA F (1, 17) = 14.63 P=0.0013 Virus* F (1, 17) = 5.531 P=0.0310 Interaction F (1, 17) = 3.049 P=0.5664	SCR vs TRIPb in Small Separation: p=0.0512	0.26 .00 .59			
LDR Test: Block 1, correct image choice latency	5A	SCR: 9 TRIPb: 10	Session Large 9.151 SCR 3.87	Block 1 correct image choice latency (sec) Small 7.497 19.06	Separation RM 2-way ANOVA F (1, 17) = 2.977 P=0.1028 Virus* F (1, 17) = 0.4537 P=0.4918 Interaction F (1, 17) = 4.610 P=0.0465	SCR vs TRIPb in Small Separation: p=0.0012	0.20 .00 .41			
LDR Test: Block 6, correct image choice latency	5B	SCR: 9 TRIPb: 10	Session Large 13.24 SCR 3.68	Block 6 correct image choice latency (sec) Small 8.5 8.619	Separation RM 2-way ANOVA F (1, 17) = 1.003 P=0.9855 Virus* F (1, 17) = 0.8853 P=0.3595 Interaction F (1, 17) = 0.8399 P=0.3722	N/A				
LDR Test: Block 1, reward collection latency	5C	SCR: 9 TRIPb: 10	Session Large 1.376 SCR 1.217	Block 1 reward collection latency (sec) Small 2.89 1.105	Separation RM 2-way ANOVA F (1, 17) = 1.144 P=0.2987 Virus* F (1, 17) = 2.248 P=0.1521 Interaction F (1, 17) = 1.539 P=0.2316	N/A				
LDR Test: Block 6, reward collection latency	5D	SCR: 9 TRIPb: 10	Session Large 1.29 SCR 1.484	Block 6 reward collection latency (sec) Small 1.632 1.281	Separation RM 2-way ANOVA F (1, 17) = 0.00015 P=0.7676 Virus* F (1, 17) = 0.1240 P=0.7291 Interaction F (1, 17) = 1.383 P=0.2569	N/A				
LDR Test: Block 1, total ITI blank touches	5E	SCR: 9 TRIPb: 10	Session Large 11.33 SCR 24	Block 1 total ITI blank touches Small 12.67 10.3	Separation RM 2-way ANOVA F (1, 17) = 3.077 P=0.0074 Virus* F (1, 17) = 0.7417 P=0.4011 Interaction* F (1, 17) = 4.547 P=0.0478	SCR vs TRIPb in Large Separation: p=0.0012	0.05 .00 .36			
LDR Test: Block 6, total ITI blank touches	5F	SCR: 9 TRIPb: 10	Session Large 17.11 SCR 16	Block 6 total ITI blank touches Small 13.67 11.3	Separation RM 2-way ANOVA F (1, 17) = 1.877 P=0.1985 Virus* F (1, 17) = 0.8887 P=0.7693 Interaction F (1, 17) = 0.0446 P=0.8333	N/A				
EPM: Total distance traveled	6A	SCR: 9 TRIPb: 8	Total distance traveled 1406 1347		Unpaired t-test	N/A	N/A	p=0.6529	N/A	
EPM: Duration in open arms	6B	SCR: 9 TRIPb: 8		Duration in open arms 90.46 82.7	Unpaired t-test	N/A	N/A	p=0.5044	N/A	
EPM: Frequency in open arms	6C	SCR: 9 TRIPb: 8		Frequency in open arms 11.33 11.38	Unpaired t-test	N/A	N/A	p=0.9863	N/A	
Total DCX+ cells	7C	All cells SCR: 9 TRIPb: 8	2680 6936	Progenitors Immature Cells 3426	2-way ANova F (2, 45) = 165.4 P<0.0001 Virus**** F (1, 45) = 23.58 P<0.0001	SCR vs TRIPb in Immature Cells: p=0.029	0.57	0.35 .73		
DCX+ cells (superior vs inferior)	7D		3113 3622	Superior Inferior 2572 3322	2-way ANova F (1, 45) = 1.466 P=0.2416					
DCX+ progenitor cells (superior vs inferior)	7E	SCR: 9 TRIPb: 8	1241 1430	Superior Inferior 1019 1416	2-way ANova F (1, 30) = 14.66 P=0.0029 Virus* F (1, 30) = 5.531 P=0.0310 Interaction* F (1, 30) = 3.049 P=0.5664	SCR vs TRIPb in Superior region: p=0.0012	0.26 .00 .59			
DCX+ immature cells (superior vs inferior)	7F	SCR: 9 TRIPb: 8	1872 2192	Superior Inferior 1554 1908	2-way ANova F (1, 30) = 7.121 P=0.0122 Virus* F (1, 30) = 8.813 P=0.0058 Interaction F (1, 30) = 0.02029 P=0.8878	SCR vs TRIPb in Superior region: p=0.0012 SCR vs TRIPb in Inferior region: p=0.0357	0.31 .07 .57			
LDR Test: Block 6, Large separation, 1st reversal	Supp Fig 1E	SCR: 9 TRIPb: 8 (Mol) TRIPb: 8 (Mol + CA1)		Block 6 Large separation Time to 1st reversal (sec) 730.6 604.8 575.8	1-way ANOVA Treatment F (2, 21) = 0.3079 P=0.7383	N/A				
LDR Test: Block 6, Large separation, percent correct to 1st reversal	Supp Fig 1F	SCR: 9 TRIPb: 8 (Mol) TRIPb: 8 (Mol + CA1); 10		Block 6 Large separation % correct to 1st reversal 59.29 66.31 60.91	1-way ANOVA Treatment F (2, 21) = 0.4144 P=0.6660	N/A				
LDR Test: Block 6, Large separation, reversal number	Supp Fig 1G	SCR: 9 TRIPb: 8 (Mol) TRIPb: 8 (Mol + CA1); 10		Block 6 Large separation reversal # 1.556 2.1 1.8	1-way ANOVA Treatment F (2, 21) = 0.8267 P=0.4512	N/A				
LDR Test: Block 6, Small separation, time to 1st reversal	Supp Fig 1H	SCR: 9 TRIPb: 8 (Mol) TRIPb: 8 (Mol + CA1); 10		Block 6 Small separation Time to 1st reversal (sec) 1685 950.5 1060	1-way ANOVA Treatment* F (2, 21) = 6.406 P=0.0067	SCR vs TRIPb (Mol + CA1); 10 p=0.0068	0.31	0.01 .58		
LDR Test: Block 6, Small separation, percent correct to 1st reversal	Supp Fig 1I	SCR: 9 TRIPb: 8 (Mol) TRIPb: 8 (Mol + CA1); 2		Block 6 Small separation % correct to 1st reversal 44.03 63.76 48.46	1-way ANOVA Treatment* F (2, 21) = 3.496 P=0.0489	SCR vs TRIPb (Mol + CA1); 2 p=0.0472	0.17	0.00 .49		
LDR Test: Block 6, Small separation, reversal number	Supp Fig 1J	SCR: 9 TRIPb: 8 (Mol) TRIPb: 8 (Mol + CA1); 5		Block 6 Small separation reversal # 0.3333 1	1-way ANOVA Treatment F (2, 21) = 2.882 P=0.0783	N/A				

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					***p<0.001 **p<0.01 *p<0.05			t-test, Tukey HSD ANOVA, Tukey K (1-way ANOVA) calculated $\alpha=0.05$ (0.05 / 10 measures, 0.014 weight)	partial eta squared f-value ANOVA (p<0.05) calculated $\eta^2=0.05$	