

The western blotting results of the tests for normality and variance homogeneity

Figure 2 A. Synaptophysin

Test for normal distribution

Shapiro-Wilk test

W	0.9575	0.9349
P value	0.8002	0.6187
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=12.96, df=10
How big is the difference?	
Mean of column A	28.21
Mean of column B	6.258
Difference between means (B - A) ± SEM	-21.95 ± 1.694
95% confidence interval	-25.73 to -18.18
R squared (eta squared)	0.9438
F test to compare variances	
F, DFn, Dfd	1.585, 5, 5
P value	0.6255
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 A. GFAP

Test for normal distribution

Shapiro-Wilk test

W	0.9631	0.8820
P value	0.8434	0.2782
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	

P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=11.73, df=10
How big is the difference?	
Mean of column A	11.31
Mean of column B	28.26
Difference between means (B - A) ± SEM	16.95 ± 1.445
95% confidence interval	13.73 to 20.17
R squared (eta squared)	0.9322
F test to compare variances	
F, DFn, Dfd	6.064, 5, 5
P value	0.0698
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 A. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9732	0.9355
P value	0.9134	0.6228
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	DCX PFC P14
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.4625
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.7640, df=10
How big is the difference?	
Mean of column A	15.39
Mean of column B	16.22
Difference between means (B - A) ± SEM	0.8283 ± 1.084
95% confidence interval	-1.587 to 3.244
R squared (eta squared)	0.05515
F test to compare variances	
F, DFn, Dfd	2.049, 5, 5
P value	0.4500
P value summary	ns

Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A		6
Sample size, column B		6

Figure 2 A. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.9041	0.9910
P value	0.3988	0.9916
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN	PFC P14
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	
P value summary	****	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=8.853, df=10	
How big is the difference?		
Mean of column A	19.48	
Mean of column B	12.92	
Difference between means (B - A) ± SEM	-6.558 ± 0.7408	
95% confidence interval	-8.208 to -4.907	
R squared (eta squared)	0.8868	
F test to compare variances		
F, DFn, Dfd	1.853, 5, 5	
P value	0.5149	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 2, C. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.9373	0.9576
P value	0.6373	0.8013
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP PFC Post14
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=9.087, df=10
How big is the difference?	
Mean of column A	15.10
Mean of column B	21.65
Difference between means (B - A) ± SEM	6.553 ± 0.7211
95% confidence interval	4.947 to 8.160
R squared (eta squared)	0.8920
F test to compare variances	
F, DFn, Dfd	1.573, 5, 5
P value	0.6312
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 C. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9436	0.9426
P value	0.6883	0.6801
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	DCX PFC Post14
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0576
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2.144, df=10
How big is the difference?	
Mean of column A	19.82
Mean of column B	18.49
Difference between means (B - A) ± SEM	-1.325 ± 0.6179
95% confidence interval	-2.702 to 0.05176

R squared (eta squared)	0.3150
F test to compare variances	
F, DFn, Dfd	4.077, 5, 5
P value	0.1491
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 C. NeuN

Test for normal distribution	
Shapiro-Wilk test	
W	0.9426
P value	0.6801
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	NeuN PFC Post14
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0537
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2.186, df=10
How big is the difference?	
Mean of column A	11.65
Mean of column B	10.43
Difference between means (B - A) \pm SEM	-1.228 \pm 0.5618
95% confidence interval	-2.480 to 0.02343
R squared (eta squared)	0.3234
F test to compare variances	
F, DFn, Dfd	3.923, 5, 5
P value	0.1599
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 C. Synaptophysin

Test for normal distribution	
Shapiro-Wilk test	
W	0.9021 0.8990

P value	0.3867	0.3682
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	SYP PFC Post14	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0001	***
P value summary		
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=6.019, df=10	
How big is the difference?		
Mean of column A	13.98	
Mean of column B	10.13	
Difference between means (B - A) ± SEM	-3.843 ± 0.6385	
95% confidence interval	-5.266 to -2.421	
R squared (eta squared)	0.7837	
F test to compare variances		
F, DFn, Dfd	1.334, 5, 5	
P value	0.7596	
P value summary		ns
Significantly different (P < 0.05)?		No
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 2 E. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.8976	0.9555
P value	0.3597	0.7842
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP PFC P21	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	****
P value summary		
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=8.229, df=10	

How big is the difference?		
Mean of column A	11.48	
Mean of column B	20.67	
Difference between means (B - A) \pm SEM	9.189 \pm 1.117	
95% confidence interval	6.701 to 11.68	
R squared (eta squared)	0.8713	
F test to compare variances		
F, DFn, Dfd	4.062, 5, 5	
P value	0.1502	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 2 E. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.8037	0.9353
P value	0.0635	0.6219
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	DCX PFC P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0718
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2.013, df=10
How big is the difference?	
Mean of column A	17.81
Mean of column B	15.19
Difference between means (B - A) \pm SEM	-2.613 \pm 1.298
95% confidence interval	-5.505 to 0.2791
R squared (eta squared)	0.2884
F test to compare variances	
F, DFn, Dfd	2.318, 5, 5
P value	0.3777
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 E. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.9770	0.8860
P value	0.9358	0.2975
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN PFC P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=24.25, df=10
How big is the difference?	
Mean of column A	25.36
Mean of column B	8.549
Difference between means (B - A) ± SEM	-16.81 ± 0.6932
95% confidence interval	-18.36 to -15.27
R squared (eta squared)	0.9833
F test to compare variances	
F, DFn, Dfd	1.929, 5, 5
P value	0.4881
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 E. Synaptophysin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9128	0.9068
P value	0.4550	0.4154
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	SYP PFC P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	

P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=12.40, df=10
How big is the difference?	
Mean of column A	23.87
Mean of column B	9.679
Difference between means (B - A) \pm SEM	-14.19 \pm 1.144
95% confidence interval	-16.74 to -11.64
R squared (eta squared)	0.9389
F test to compare variances	
F, DFn, Dfd	1.696, 5, 5
P value	0.5761
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 G. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.9655	0.9054
P value	0.8609	0.4067
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP PFC Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=20.786, df=10
How big is the difference?	
Mean of column A	10.530
Mean of column B	24.207
Difference between means (B - A) \pm SEM	13.677 \pm 0.65797
95% confidence interval	12.211 to 15.143
R squared (eta squared)	0.97738
F test to compare variances	
F, DFn, Dfd	4.5709, 5, 5
P value	0.1208
P value summary	ns

Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 G. Doublecortin

Test for normal distribution	
Shapiro-Wilk test	
W	0.8394
P value	0.1290
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	DCX PFC Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.8221
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.2309, df=10
How big is the difference?	
Mean of column A	14.14
Mean of column B	13.97
Difference between means (B - A) \pm SEM	-0.1683 \pm 0.7291
95% confidence interval	-1.793 to 1.456
R squared (eta squared)	0.005302
F test to compare variances	
F, DFn, Dfd	1.842, 5, 5
P value	0.5189
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 G. NeuN

Test for normal distribution	
Shapiro-Wilk test	
W	0.8131
P value	0.0768
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	NeuN PFC Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.1125
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1.740, df=10
How big is the difference?	
Mean of column A	12.59
Mean of column B	13.96
Difference between means (B - A) ± SEM	1.375 ± 0.7903
95% confidence interval	-0.3859 to 3.136
R squared (eta squared)	0.2324
F test to compare variances	
F, DFn, Dfd	3.347, 5, 5
P value	0.2109
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 2 G. Synaptophysin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9217	0.9718
P value	0.5179	0.9044
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	SYP PFC Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=8.207, df=10
How big is the difference?	
Mean of column A	20.81
Mean of column B	10.82
Difference between means (B - A) ± SEM	-9.988 ± 1.217
95% confidence interval	-12.70 to -7.277

R squared (eta squared)	0.8707
F test to compare variances	
F, DFn, Dfd	1.299, 5, 5
P value	0.7808
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 A. GFAP

Test for normal distribution	
Shapiro-Wilk test	
W	0.9935
P value	0.9960
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	GFAP	HIP	P14
Column B	PreVPA		
vs.		vs.	
Column A			Control
Unpaired t test			
P value	0.0867		
P value summary	ns		
Significantly different (P < 0.05)?	No		
One- or two-tailed P value?		Two-tailed	
t, df		t=1.899, df=10	
How big is the difference?			
Mean of column A	26.19		
Mean of column B	24.73		
Difference between means (B - A) \pm SEM	-1.462 \pm 0.7695		
95% confidence interval	-3.176 to 0.2531		
R squared (eta squared)	0.2651		
F test to compare variances			
F, DFn, Dfd	2.159, 5, 5		
P value	0.4181		
P value summary	ns		
Significantly different (P < 0.05)?	No		
Data analyzed			
Sample size, column A	6		
Sample size, column B	6		

Figure 3 A. Doublecortin

Test for normal distribution	
Shapiro-Wilk test	
W	0.9442

P value	0.6934	0.8421
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	DCX HIP P14	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0597	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=2.123, df=10	
How big is the difference?		
Mean of column A	17.17	
Mean of column B	15.84	
Difference between means (B - A) ± SEM	-1.333 ± 0.6280	
95% confidence interval	-2.732 to 0.06608	
R squared (eta squared)	0.3107	
F test to compare variances		
F, DFn, Dfd	1.481, 5, 5	
P value	0.6768	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 3 A. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.9115	0.9811
P value	0.4464	0.9569
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN HIP P14	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.8093	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=0.2478, df=10	

How big is the difference?		
Mean of column A	14.95	
Mean of column B	14.81	
Difference between means (B - A) \pm SEM	-0.1477 \pm 0.5958	
95% confidence interval	-1.475 to 1.180	
R squared (eta squared)	0.006105	
F test to compare variances		
F, DFn, Dfd	1.193, 5, 5	
P value	0.8513	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 3 A. Synaptophysin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9588	0.9648
P value	0.8108	0.8559
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	SYP	HIP	P14
Column B	PreVPA		
vs.	vs.		
Column A	Control		
Unpaired t test			
P value	0.0564		
P value summary	ns		
Significantly different (P < 0.05)?	No		
One- or two-tailed P value?	Two-tailed		
t, df	t=2.157, df=10		
How big is the difference?			
Mean of column A	16.65		
Mean of column B	15.74		
Difference between means (B - A) \pm SEM	-0.9098 \pm 0.4218		
95% confidence interval	-1.850 to 0.03006		
R squared (eta squared)	0.3175		
F test to compare variances			
F, DFn, Dfd	1.368, 5, 5		
P value	0.7393		
P value summary	ns		
Significantly different (P < 0.05)?	No		
Data analyzed			
Sample size, column A	6		
Sample size, column B	6		

Figure 3 C. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.8292	0.9429
P value	0.1058	0.6828
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	GFAP	HIP Post14
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0023	
P value summary	**	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=4.050, df=10	
How big is the difference?		
Mean of column A	16.36	
Mean of column B	19.94	
Difference between means (B - A) ± SEM	3.587 ± 0.8855	
95% confidence interval	1.614 to 5.560	
R squared (eta squared)	0.6213	
F test to compare variances		
F, DFn, Dfd	1.168, 5, 5	
P value	0.8689	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 3 C. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9328	0.9310
P value	0.6016	0.5875
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	DCX	HIP Post14
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		

P value	0.9739
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.03356, df=10
How big is the difference?	
Mean of column A	22.08
Mean of column B	22.05
Difference between means (B - A) ± SEM	-0.03333 ± 0.9932
95% confidence interval	-2.246 to 2.180
R squared (eta squared)	0.0001126
F test to compare variances	
F, DFn, Dfd	1.684, 5, 5
P value	0.5813
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 C. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.9192	0.8942
P value	0.4998	0.3405
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN	HIP	Post14
Column B		PostVPA	
vs.		vs.	
Column A		Control	
Unpaired t test			
P value	<0.0001		****
P value summary			
Significantly different (P < 0.05)?	Yes		
One- or two-tailed P value?	Two-tailed		
t, df	t=10.95, df=10		
How big is the difference?			
Mean of column A	7.686		
Mean of column B	15.14		
Difference between means (B - A) ± SEM	7.455 ± 0.6808		
95% confidence interval	5.938 to 8.972		
R squared (eta squared)	0.9230		
F test to compare variances			
F, DFn, Dfd	1.201, 5, 5		
P value	0.8457		
P value summary	ns		

Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 C. Synaptophysin

Test for normal distribution	
Shapiro-Wilk test	
W	0.9406
P value	0.6637
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	SYP HIP Post14
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.6790
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.4262, df=10
How big is the difference?	
Mean of column A	17.31
Mean of column B	17.00
Difference between means (B - A) ± SEM	-0.3033 ± 0.7117
95% confidence interval	-1.889 to 1.282
R squared (eta squared)	0.01784
F test to compare variances	
F, DFn, Dfd	2.100, 5, 5
P value	0.4349
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 E. GFAP

Test for normal distribution	
Shapiro-Wilk test	
W	0.9511
P value	0.7494
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	GFAP HIP P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0029
P value summary	**
Significantly different ($P < 0.05$)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.913, df=10
How big is the difference?	
Mean of column A	17.89
Mean of column B	15.43
Difference between means ($B - A$) \pm SEM	-2.461 \pm 0.6290
95% confidence interval	-3.863 to -1.060
R squared (eta squared)	0.6049
F test to compare variances	
F, DFn, Dfd	1.030, 5, 5
P value	0.9753
P value summary	ns
Significantly different ($P < 0.05$)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 E. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.8722	0.9412
P value	0.2352	0.6688
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	DCX HIP P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0003
P value summary	***
Significantly different ($P < 0.05$)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=5.482, df=10
How big is the difference?	
Mean of column A	18.43
Mean of column B	13.75
Difference between means ($B - A$) \pm SEM	-4.682 \pm 0.8542
95% confidence interval	-6.586 to -2.779

R squared (eta squared)	0.7503
F test to compare variances	
F, DFn, Dfd	3.132, 5, 5
P value	0.2359
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 E. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.8745	0.9477
P value	0.2447	0.7220
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN	HIP	Pre21
Column B	PreVPA		
vs.		vs.	
Column A			Control
Unpaired t test			
P value	0.0028		
P value summary	**		
Significantly different (P < 0.05)?	Yes		
One- or two-tailed P value?	Two-tailed		
t, df	t=3.935, df=10		
How big is the difference?			
Mean of column A	11.76		
Mean of column B	15.22		
Difference between means (B - A) \pm SEM	3.460 \pm 0.8794		
95% confidence interval	1.501 to 5.419		
R squared (eta squared)	0.6075		
F test to compare variances			
F, DFn, Dfd	1.564, 5, 5		
P value	0.6356		
P value summary	ns		
Significantly different (P < 0.05)?	No		
Data analyzed			
Sample size, column A	6		
Sample size, column B	6		

Figure 3 E. Synaptophysin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9031	0.9174

P value	0.3926	0.4870
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	SYP HIP P21	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	****
P value summary		
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=15.48, df=10	
How big is the difference?		
Mean of column A	8.272	
Mean of column B	18.04	
Difference between means (B - A) ± SEM	9.768 ± 0.6310	
95% confidence interval	8.362 to 11.17	
R squared (eta squared)	0.9599	
F test to compare variances		
F, DFn, Dfd	1.397, 5, 5	
P value	0.7228	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 3 G. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.9578	0.9288
P value	0.8026	0.5709
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP HIP Post21	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	****
P value summary		
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=8.169, df=10	

How big is the difference?	
Mean of column A	27.52
Mean of column B	19.97
Difference between means (B - A) \pm SEM	-7.545 \pm 0.9236
95% confidence interval	-9.603 to -5.487
R squared (eta squared)	0.8697
F test to compare variances	
F, DFn, Dfd	1.944, 5, 5
P value	0.4832
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 G. Doublecortin

Test for normal distribution	
Shapiro-Wilk test	
W	0.8493
P value	0.1554
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	DCX HIP Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0003
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=5.438, df=10
How big is the difference?	
Mean of column A	19.32
Mean of column B	13.80
Difference between means (B - A) \pm SEM	-5.517 \pm 1.014
95% confidence interval	-7.777 to -3.256
R squared (eta squared)	0.7473
F test to compare variances	
F, DFn, Dfd	2.549, 5, 5
P value	0.3276
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 3 G. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.9687	0.8469
P value	0.8838	0.1486
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN	HIP	Post21
Column B		PostVPA	
vs.		vs.	
Column A		Control	
Unpaired t test			
P value		0.3401	
P value summary		ns	
Significantly different (P < 0.05)?		No	
One- or two-tailed P value?		Two-tailed	
t, df		t=1.002, df=10	
How big is the difference?			
Mean of column A		13.05	
Mean of column B		13.58	
Difference between means (B - A) ± SEM		0.5367 ± 0.5358	
95% confidence interval		-0.6571 to 1.730	
R squared (eta squared)		0.09119	
F test to compare variances			
F, DF _n , Df _d		1.024, 5, 5	
P value		0.9798	
P value summary		ns	
Significantly different (P < 0.05)?		No	
Data analyzed			
Sample size, column A		6	
Sample size, column B		6	

Figure 3 G. Synaptophysin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9394	0.8784
P value	0.6542	0.2616
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	SYP	HIP	Post21
Column B		Data Set-B	
vs.		vs.	
Column A		Data Set-A	
Unpaired t test			

P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=7.352, df=10
How big is the difference?	
Mean of column A	12.64
Mean of column B	20.67
Difference between means (B - A) ± SEM	8.025 ± 1.091
95% confidence interval	5.593 to 10.46
R squared (eta squared)	0.8439
F test to compare variances	
F, DFn, Dfd	1.999, 5, 5
P value	0.4654
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 A. GFAP

Test for normal distribution	
Shapiro-Wilk test	
W	0.9672
P value	0.8728
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	GFAP BO P14
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=12.32, df=10
How big is the difference?	
Mean of column A	7.694
Mean of column B	20.01
Difference between means (B - A) ± SEM	12.31 ± 0.9991
95% confidence interval	10.09 to 14.54
R squared (eta squared)	0.9382
F test to compare variances	
F, DFn, Dfd	5.253, 5, 5
P value	0.0927
P value summary	ns

Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 4 A. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9505	0.7983
P value	0.7443	0.0567
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	DCX	BO	P14
Column B	PreVPA		
vs.		vs.	
Column A			Control
Unpaired t test			
P value	0.1657		
P value summary		ns	
Significantly different (P < 0.05)?		No	
One- or two-tailed P value?		Two-tailed	
t, df	t=1.495, df=10		
How big is the difference?			
Mean of column A	10.78		
Mean of column B	12.00		
Difference between means (B - A) ± SEM	1.220 ± 0.8159		
95% confidence interval	-0.5979 to 3.038		
R squared (eta squared)	0.1827		
F test to compare variances			
F, DFn, Dfd	2.444, 5, 5		
P value	0.3490		
P value summary		ns	
Significantly different (P < 0.05)?		No	
Data analyzed			
Sample size, column A	6		
Sample size, column B	6		

Figure 4 A. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.8189	0.8753
P value	0.0864	0.2481
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN BO P14
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.3929
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.8928, df=10
How big is the difference?	
Mean of column A	16.04
Mean of column B	15.33
Difference between means (B - A) ± SEM	-0.7133 ± 0.7990
95% confidence interval	-2.494 to 1.067
R squared (eta squared)	0.07383
F test to compare variances	
F, DFn, Dfd	1.582, 5, 5
P value	0.6268
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 C. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.9109	0.9845
P value	0.4423	0.9717
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP BO Post14
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=19.80, df=10
How big is the difference?	
Mean of column A	9.540
Mean of column B	19.99
Difference between means (B - A) ± SEM	10.45 ± 0.5278
95% confidence interval	9.276 to 11.63

R squared (eta squared)	0.9751
F test to compare variances	
F, DFn, Dfd	1.630, 5, 5
P value	0.6050
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 C. Doublecortin

Test for normal distribution	
Shapiro-Wilk test	
W	0.9249
P value	0.5413
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	DCX BO Post14
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.6693
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.4400, df=10
How big is the difference?	
Mean of column A	16.30
Mean of column B	15.88
Difference between means (B - A) \pm SEM	-0.4190 \pm 0.9523
95% confidence interval	-2.541 to 1.703
R squared (eta squared)	0.01899
F test to compare variances	
F, DFn, Dfd	3.168, 5, 5
P value	0.2314
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 C. NeuN

Test for normal distribution	
Shapiro-Wilk test	
W	0.8761
	0.9661

P value	0.2514	0.8650
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	NeuN BO Post14	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.5188	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=0.6688, df=10	
How big is the difference?		
Mean of column A	10.20	
Mean of column B	9.642	
Difference between means (B - A) ± SEM	-0.5533 ± 0.8274	
95% confidence interval	-2.397 to 1.290	
R squared (eta squared)	0.04281	
F test to compare variances		
F, DFn, Dfd	2.223, 5, 5	
P value	0.4013	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Data analyzed		
Sample size, column A	6	
Sample size, column B	6	

Figure 4 E. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.8925	0.8499
P value	0.3315	0.1571
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP BO P21	
Column B	Data Set-B	
vs.	vs.	
Column A	Data Set-A	
Unpaired t test		
P value	0.9911	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	

t, df	t=0.01145, df=10
How big is the difference?	
Mean of column A	15.59
Mean of column B	15.59
Difference between means (B - A) \pm SEM	-0.007667 \pm 0.6694
95% confidence interval	-1.499 to 1.484
R squared (eta squared)	1.312e-005
F test to compare variances	
F, DFn, Dfd	1.348, 5, 5
P value	0.7510
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 E. Doublecortin

Test for normal distribution	
Shapiro-Wilk test	
W	0.9074
P value	0.4197
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6

Table Analyzed	DCX BO P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=10.12, df=10
How big is the difference?	
Mean of column A	21.52
Mean of column B	11.12
Difference between means (B - A) \pm SEM	-10.40 \pm 1.027
95% confidence interval	-12.68 to -8.108
R squared (eta squared)	0.9111
F test to compare variances	
F, DFn, Dfd	8.534, 5, 5
P value	0.0344
P value summary	*
Significantly different (P < 0.05)?	Yes
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 E. NeuN

Test for normal distribution		
Shapiro-Wilk test		
W	0.9157	0.9449
P value	0.4752	0.6989
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	NeuN BO P21
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.2083
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1.345, df=10
How big is the difference?	
Mean of column A	16.84
Mean of column B	15.65
Difference between means (B - A) ± SEM	-1.188 ± 0.8830
95% confidence interval	-3.155 to 0.7797
R squared (eta squared)	0.1532
F test to compare variances	
F, DFn, Dfd	2.902, 5, 5
P value	0.2672
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 G. GFAP

Test for normal distribution		
Shapiro-Wilk test		
W	0.9578	0.8638
P value	0.8029	0.2024
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	GFAP BO Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	

P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=14.53, df=10
How big is the difference?	
Mean of column A	11.17
Mean of column B	24.63
Difference between means (B - A) ± SEM	13.45 ± 0.9258
95% confidence interval	11.39 to 15.52
R squared (eta squared)	0.9548
F test to compare variances	
F, DFn, Dfd	25.06, 5, 5
P value	0.0030
P value summary	**
Significantly different (P < 0.05)?	Yes
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 G. Doublecortin

Test for normal distribution		
Shapiro-Wilk test		
W	0.9593	0.9705
P value	0.8140	0.8956
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6

Table Analyzed	DCX BO Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=6.952, df=10
How big is the difference?	
Mean of column A	19.66
Mean of column B	12.84
Difference between means (B - A) ± SEM	-6.820 ± 0.9809
95% confidence interval	-9.005 to -4.634
R squared (eta squared)	0.8286
F test to compare variances	
F, DFn, Dfd	3.849, 5, 5
P value	0.1654
P value summary	ns

Significantly different ($P < 0.05$)?	No
Data analyzed	
Sample size, column A	6
Sample size, column B	6

Figure 4 G. NeuN

Test for normal distribution	
Shapiro-Wilk test	
W	0.7981
P value	0.0565
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	NeuN BO Post21
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.6943
P value summary	ns
Significantly different ($P < 0.05$)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.4046, df=10
How big is the difference?	
Mean of column A	14.97
Mean of column B	14.56
Difference between means ($B - A \pm SEM$)	-0.4143 \pm 1.024
95% confidence interval	-2.696 to 1.868
R squared (eta squared)	0.01610
F test to compare variances	
F, DFn, Dfd	8.597, 5, 5
P value	0.0339
P value summary	*
Significantly different ($P < 0.05$)?	Yes
Data analyzed	
Sample size, column A	6
Sample size, column B	6

The ELISA results of the tests for normality and variance homogeneity

Figure 2 B, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9745	0.8323
P value	0.9214	0.1124
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	PFC BDNF P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.6849	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=0.4178, df=10	
How big is the difference?		
Mean of column A	127.6	
Mean of column B	135.1	
Difference between means (B - A) ± SEM	7.528 ± 18.02	
95% confidence interval	-32.62 to 47.67	
R squared (eta squared)	0.01716	
F test to compare variances		
F, DFn, Dfd	1.975, 5, 5	
P value	0.4730	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 2 B, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9882	0.8969
P value	0.9730	0.3561
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	6
Table Analyzed	PFC NT3 P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0254	*
P value summary	*	
Significantly different (P < 0.05)?	Yes	

One- or two-tailed P value?	Two-tailed
t, df	t=2.676, df=9
How big is the difference?	
Mean of column A	49.84
Mean of column B	37.25
Difference between means (B - A) \pm SEM	-12.60 \pm 4.707
95% confidence interval	-23.24 to -1.948
R squared (eta squared)	0.4431
F test to compare variances	
F, DFn, Dfd	1.495, 5, 4
P value	0.7179
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 2 B, IGF

Test for normal distribution		
Shapiro-Wilk test		
W	0.8705	0.9705
P value	0.2282	0.8955
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	PFC IGFP14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0540	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=2.183, df=10	
How big is the difference?		
Mean of column A	279.0	
Mean of column B	186.8	
Difference between means (B - A) \pm SEM	-92.20 \pm 42.23	
95% confidence interval	-186.3 to 1.907	
R squared (eta squared)	0.3227	
F test to compare variances		
F, DFn, Dfd	26.24, 5, 5	
P value	0.0027	**
P value summary		
Significantly different (P < 0.05)?	Yes	

Figure 2 D, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9745	0.9611
P value	0.9214	0.8158

Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	5
Table Analyzed	PFC BDNF P14 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.9365	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=0.08198, df=9	
How big is the difference?		
Mean of column A	127.6	
Mean of column B	126.2	
Difference between means (B - A) ± SEM	-1.428 ± 17.42	
95% confidence interval	-40.83 to 37.98	
R squared (eta squared)	0.0007461	
F test to compare variances		
F, DFn, Dfd	5.264, 5, 4	
P value	0.1327	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 2 D, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9882	0.9645
P value	0.9730	0.8074
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	4
Table Analyzed	PFC Nt3 P14 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0009	
P value summary	***	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=5.522, df=7	
How big is the difference?		
Mean of column A	49.84	
Mean of column B	28.39	
Difference between means (B - A) ± SEM	-21.45 ± 3.884	
95% confidence interval	-30.63 to -12.27	
R squared (eta squared)	0.8133	
F test to compare variances		

F, DFn, Dfd	3.147, 4, 3
P value	0.3733
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 2 D, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8705
P value	0.2282
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	PFC IGF P14 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0014
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=4.388, df=10
How big is the difference?	
Mean of column A	279.0
Mean of column B	96.82
Difference between means (B - A) \pm SEM	-182.2 \pm 41.53
95% confidence interval	-274.8 to -89.69
R squared (eta squared)	0.6581
F test to compare variances	
F, DFn, Dfd	260.4, 5, 5
P value	<0.0001
P value summary	****
Significantly different (P < 0.05)?	Yes

Figure 2 F, BDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8957
P value	0.3867
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	PFC BDNF P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.5349

P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.6484, df=8
How big is the difference?	
Mean of column A	189.5
Mean of column B	174.3
Difference between means (B - A) ± SEM	-15.21 ± 23.45
95% confidence interval	-69.29 to 38.88
R squared (eta squared)	0.04993
F test to compare variances	
F, DFn, Dfd	1.777, 4, 4
P value	0.5911
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 2 F, Nt-3

Test for normal distribution	
Shapiro-Wilk test	
W	0.9764
P value	0.9323
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	PFC NT3 P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0864
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1.925, df=9
How big is the difference?	
Mean of column A	140.2
Mean of column B	172.6
Difference between means (B - A) ± SEM	32.41 ± 16.84
95% confidence interval	-5.684 to 70.51
R squared (eta squared)	0.2916
F test to compare variances	
F, DFn, Dfd	1.420, 5, 4
P value	0.7561
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 2 F, IGF

Test for normal distribution	
Shapiro-Wilk test	

W	0.9764	0.7435
P value	0.9323	0.0259
Passed normality test (alpha=0.05)?	Yes	No
P value summary	ns	*
Number of values	6	5
Table Analyzed	PFC NT3 P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0864	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=1.925, df=9	
How big is the difference?		
Mean of column A	140.2	
Mean of column B	172.6	
Difference between means (B - A) ± SEM	32.41 ± 16.84	
95% confidence interval	-5.684 to 70.51	
R squared (eta squared)	0.2916	
F test to compare variances		
F, DFn, Dfd	1.420, 5, 4	
P value	0.7561	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 H, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.8658	0.9525
P value	0.2100	0.7548
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	5
Table Analyzed	PFC BDNF P21 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.1742	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=1.476, df=9	
How big is the difference?		
Mean of column A	270.4	
Mean of column B	341.5	
Difference between means (B - A) ± SEM	71.10 ± 48.19	
95% confidence interval	-37.91 to 180.1	

R squared (eta squared)	0.1948
F test to compare variances	
F, DFn, Dfd	2.514, 5, 4
P value	0.3926
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 2 H, NT-3

Test for normal distribution	
Shapiro-Wilk test	
W	0.9764
P value	0.9323
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Table Analyzed	PFC NT3 P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.8696
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.1689, df=9
How big is the difference?	
Mean of column A	140.2
Mean of column B	144.8
Difference between means (B - A) \pm SEM	4.563 \pm 27.02
95% confidence interval	-56.56 to 65.69
R squared (eta squared)	0.003159
F test to compare variances	
F, DFn, Dfd	3.782, 4, 5
P value	0.1771
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 2 H, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9412
P value	0.6689
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	PFC IGF P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	

P value	0.0047
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.725, df=9
How big is the difference?	
Mean of column A	204.6
Mean of column B	427.7
Difference between means (B - A) ± SEM	223.1 ± 59.90
95% confidence interval	87.60 to 358.6
R squared (eta squared)	0.6065
F test to compare variances	
F, DFn, Dfd	4.894, 4, 5
P value	0.1117
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 3 B, BDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9181
P value	0.4921
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	HIP BDNF P14 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0016
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=4.276, df=10
How big is the difference?	
Mean of column A	100.2
Mean of column B	154.4
Difference between means (B - A) ± SEM	54.21 ± 12.68
95% confidence interval	25.96 to 82.46
R squared (eta squared)	0.6465
F test to compare variances	
F, DFn, Dfd	1.151, 5, 5
P value	0.8815
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 3 B, Nt-3

Test for normal distribution

Shapiro-Wilk test		
W	0.9704	0.9769
P value	0.8777	0.8835
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	4
Table Analyzed	Hip Nt3 P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0007	
P value summary	***	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=5.769, df=7	
How big is the difference?		
Mean of column A	31.23	
Mean of column B	78.26	
Difference between means (B - A) ± SEM	47.03 ± 8.152	
95% confidence interval	27.75 to 66.31	
R squared (eta squared)	0.8262	
F test to compare variances		
F, DFn, Dfd	7.994, 3, 4	
P value	0.0729	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 B, IGF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9146	0.9062
P value	0.4956	0.4116
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	6
Table Analyzed	HIP IGF P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	
P value summary	****	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=7.133, df=9	
How big is the difference?		
Mean of column A	274.2	
Mean of column B	127.6	
Difference between means (B - A) ± SEM	-146.6 ± 20.55	

95% confidence interval	-193.1 to -100.1	
R squared (eta squared)	0.8497	
F test to compare variances		
F, DFn, Dfd	4.532, 4, 5	
P value	0.1286	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 B, GDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.8845	0.9487
P value	0.3303	0.7276
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	HIP GDNF P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.1247	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=1.715, df=8	
How big is the difference?		
Mean of column A	34.76	
Mean of column B	45.40	
Difference between means (B - A) ± SEM	10.64 ± 6.202	
95% confidence interval	-3.665 to 24.94	
R squared (eta squared)	0.2688	
F test to compare variances		
F, DFn, Dfd	6.100, 4, 4	
P value	0.1079	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 D, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9181	0.9230
P value	0.4921	0.5492
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	5
Table Analyzed	HIP BDNF P14 Post	
Column B	PostVPA	
vs.	vs.	

Column A	Control
Unpaired t test	
P value	0.1824
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1.445, df=9
How big is the difference?	
Mean of column A	100.2
Mean of column B	117.7
Difference between means (B - A) ± SEM	17.55 ± 12.14
95% confidence interval	-9.927 to 45.02
R squared (eta squared)	0.1883
F test to compare variances	
F, DFn, Dfd	1.302, 5, 4
P value	0.8216
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 3 D, NT-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9704	0.9822
P value	0.8777	0.9458
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5

Table Analyzed	Hip	Nt3	P14	Post
Column B			PostVPA	
vs.			vs.	
Column A			Control	
Unpaired t test				
P value	0.0035			**
P value summary				
Significantly different (P < 0.05)?	Yes			
One- or two-tailed P value?	Two-tailed			
t, df	t=4.090, df=8			
How big is the difference?				
Mean of column A	31.23			
Mean of column B	59.85			
Difference between means (B - A) ± SEM	28.62 ± 6.998			
95% confidence interval	12.48 to 44.76			
R squared (eta squared)	0.6764			
F test to compare variances				
F, DFn, Dfd	5.629, 4, 4			
P value	0.1228			
P value summary	ns			
Significantly different (P < 0.05)?	No			

Figure 3 D, IGF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9146	0.9775
P value	0.4956	0.9387
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	6
Table Analyzed	HIP IGF P14 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	
P value summary	****	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=9.070, df=9	
How big is the difference?		
Mean of column A	274.2	
Mean of column B	101.8	
Difference between means (B - A) ± SEM	-172.4 ± 19.01	
95% confidence interval	-215.4 to -129.4	
R squared (eta squared)	0.9014	
F test to compare variances		
F, DF _n , DF _d	13.69, 4, 5	
P value	0.0133	
P value summary	*	
Significantly different (P < 0.05)?	Yes	

Figure 3 D, GDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9035	0.9079
P value	0.4297	0.4550
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	HIP GDNF P14 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	
P value summary	****	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=7.286, df=8	
How big is the difference?		

Mean of column A	32.76
Mean of column B	75.02
Difference between means (B - A) \pm SEM	42.25 \pm 5.799
95% confidence interval	28.88 to 55.63
R squared (eta squared)	0.8690
F test to compare variances	
F, DFn, Dfd	1.543, 4, 4
P value	0.6846
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 3 F, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9272	0.8553
P value	0.5777	0.2117
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	HIP BDNF P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0042	
P value summary	**	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=3.956, df=8	
How big is the difference?		
Mean of column A	228.9	
Mean of column B	272.8	
Difference between means (B - A) \pm SEM	43.85 \pm 11.08	
95% confidence interval	18.29 to 69.41	
R squared (eta squared)	0.6617	
F test to compare variances		
F, DFn, Dfd	1.205, 4, 4	
P value	0.8611	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 F, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.8685	0.9327
P value	0.2604	0.6147
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5

Table Analyzed	HIP Nt3 P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0084
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.470, df=8
How big is the difference?	
Mean of column A	144.9
Mean of column B	92.48
Difference between means (B - A) \pm SEM	-52.37 \pm 15.09
95% confidence interval	-87.17 to -17.57
R squared (eta squared)	0.6008
F test to compare variances	
F, DFn, Dfd	3.199, 4, 4
P value	0.2863
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 3 F, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9828
P value	0.9489
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	HIP IGF P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0115
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.261, df=8
How big is the difference?	
Mean of column A	137.6
Mean of column B	71.94
Difference between means (B - A) \pm SEM	-65.67 \pm 20.14
95% confidence interval	-112.1 to -19.24
R squared (eta squared)	0.5707
F test to compare variances	
F, DFn, Dfd	1.068, 4, 4
P value	0.9509
P value summary	ns

Significantly different (P < 0.05)?	No
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Figure 3 F, GDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8646
P value	0.2451
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	Hip GDNF P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0126
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.198, df=8
How big is the difference?	
Mean of column A	101.2
Mean of column B	70.08
Difference between means (B - A) \pm SEM	-31.10 \pm 9.725
95% confidence interval	-53.53 to -8.675
R squared (eta squared)	0.5611
F test to compare variances	
F, DFn, Dfd	1.414, 4, 4
P value	0.7453
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 3 H, BDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8625
P value	0.1980
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	Hip BDNF P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0057
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed

t, df	t=3.506, df=10	
How big is the difference?		
Mean of column A	235.4	
Mean of column B	440.8	
Difference between means (B - A) \pm SEM	205.3 \pm 58.57	
95% confidence interval	74.85 to 335.8	
R squared (eta squared)	0.5514	
F test to compare variances		
F, DFn, Dfd	6.093, 5, 5	
P value	0.0692	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 H, NT-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9803	0.9347
P value	0.9362	0.6286
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	Hip Nt3 P21 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	****
P value summary		
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=12.94, df=8	
How big is the difference?		
Mean of column A	104.5	
Mean of column B	49.58	
Difference between means (B - A) \pm SEM	-54.96 \pm 4.247	
95% confidence interval	-64.75 to -45.17	
R squared (eta squared)	0.9544	
F test to compare variances		
F, DFn, Dfd	1.028, 4, 4	
P value	0.9794	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 3 H, IGF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9399	0.9982
P value	0.6583	0.9990
Passed normality test (alpha=0.05)?	Yes	Yes

P value summary	ns	ns
Number of values	6	5
Table Analyzed	HIP IGF P21 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	
P value summary	***	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=6.810, df=9	
How big is the difference?		
Mean of column A	97.72	
Mean of column B	276.5	
Difference between means (B - A) ± SEM	178.8 ± 26.25	
95% confidence interval	119.4 to 238.1	
R squared (eta squared)	0.8375	
F test to compare variances		
F, DFn, Dfd	10.71, 4, 5	
P value	0.0229	
P value summary	*	
Significantly different (P < 0.05)?	Yes	

Figure 3 H, GDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9675	0.9169
P value	0.8749	0.4831
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	Hip GDNF P21 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0007	
P value summary	***	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=4.796, df=10	
How big is the difference?		
Mean of column A	97.85	
Mean of column B	66.15	
Difference between means (B - A) ± SEM	-31.70 ± 6.609	
95% confidence interval	-46.43 to -16.97	
R squared (eta squared)	0.6970	
F test to compare variances		
F, DFn, Dfd	2.987, 5, 5	

P value	0.2550	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 4 B, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9862	0.9085
P value	0.9646	0.4584
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	OB BDNF P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0002	
P value summary	***	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=6.345, df=8	
How big is the difference?		
Mean of column A	120.2	
Mean of column B	188.7	
Difference between means (B - A) ± SEM	68.44 ± 10.79	
95% confidence interval	43.57 to 93.31	
R squared (eta squared)	0.8342	
F test to compare variances		
F, DFn, Dfd	1.702, 4, 4	
P value	0.6191	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 4 B, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9522	0.8270
P value	0.7578	0.1014
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	BO NT3 P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.7197	
P value summary	ns	

Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.3692, df=10
How big is the difference?	
Mean of column A	30.39
Mean of column B	31.19
Difference between means (B - A) \pm SEM	0.8000 \pm 2.167
95% confidence interval	-4.028 to 5.628
R squared (eta squared)	0.01345
F test to compare variances	
F, DFn, Dfd	1.479, 5, 5
P value	0.6780
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 B, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9148
P value	0.4690
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	BO IGF P14 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0478
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=2.255, df=10
How big is the difference?	
Mean of column A	438.0
Mean of column B	315.4
Difference between means (B - A) \pm SEM	-122.6 \pm 54.37
95% confidence interval	-243.7 to -1.473
R squared (eta squared)	0.3371
F test to compare variances	
F, DFn, Dfd	2.332, 5, 5
P value	0.3742
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 B, GDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8553

P value	0.2118	0.5607
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	OB GDNF P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0886	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=1.938, df=8	
How big is the difference?		
Mean of column A	85.04	
Mean of column B	46.67	
Difference between means (B - A) ± SEM	-38.37 ± 19.80	
95% confidence interval	-84.02 to 7.284	
R squared (eta squared)	0.3195	
F test to compare variances		
F, DFn, Dfd	29.72, 4, 4	
P value	0.0062	
P value summary	**	
Significantly different (P < 0.05)?	Yes	

Figure 4 D, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9862	0.9789
P value	0.9646	0.9286
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	OB BDNF P14 Psot	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0004	
P value summary	***	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=5.845, df=8	
How big is the difference?		
Mean of column A	120.2	
Mean of column B	172.2	
Difference between means (B - A) ± SEM	52.01 ± 8.899	
95% confidence interval	31.49 to 72.53	
R squared (eta squared)	0.8103	

F test to compare variances		
F, DFn, Dfd	12.39, 4, 4	
P value	0.0318	
P value summary	*	
Significantly different (P < 0.05)?	Yes	

Figure 4 D, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9522	0.8491
P value	0.7578	0.1547
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	BO NT3 P14 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.1589	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=1.522, df=10	
How big is the difference?		
Mean of column A	30.39	
Mean of column B	33.78	
Difference between means (B - A) \pm SEM	3.395 \pm 2.230	
95% confidence interval	-1.574 to 8.364	
R squared (eta squared)	0.1882	
F test to compare variances		
F, DFn, Dfd	1.290, 5, 5	
P value	0.7868	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 4 D, IGF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9148	0.8406
P value	0.4690	0.1318
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	BO IGF P14 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		

P value	0.0018
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=4.214, df=10
How big is the difference?	
Mean of column A	438.0
Mean of column B	215.8
Difference between means (B - A) \pm SEM	-222.3 \pm 52.74
95% confidence interval	-339.8 to -104.7
R squared (eta squared)	0.6398
F test to compare variances	
F, DFn, Dfd	2.903, 5, 5
P value	0.2670
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 D, GDNF

Test for normal distribution	
Shapiro-Wilk test	
W	
P value	
Passed normality test (alpha=0.05)?	
P value summary	
Number of values	
Table Analyzed	OB GDNF P14 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.9725
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.03552, df=8
How big is the difference?	
Mean of column A	81.04
Mean of column B	81.69
Difference between means (B - A) \pm SEM	0.6500 \pm 18.30
95% confidence interval	-41.55 to 42.85
R squared (eta squared)	0.0001577
F test to compare variances	
F, DFn, Dfd	2.880, 4, 4

P value	0.3300	
P value summary	ns	
Significantly different (P < 0.05)?	No	
Figure 4 F, BDNF		
Test for normal distribution		
Shapiro-Wilk test		
W	0.8800	0.9403
P value	0.3093	0.6681
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	OB GDNF P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0010	
P value summary	**	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=5.029, df=8	
How big is the difference?		
Mean of column A	69.76	
Mean of column B	26.13	
Difference between means (B - A) \pm SEM	-43.63 \pm 8.676	
95% confidence interval	-63.64 to -23.62	
R squared (eta squared)	0.7597	
F test to compare variances		
F, DFn, Dfd	11.40, 4, 4	
P value	0.0369	*
P value summary		
Significantly different (P < 0.05)?	Yes	

Figure 4 F, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9682	0.8921
P value	0.8635	0.3680
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	BO NT3 P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	

P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=13.97, df=8
How big is the difference?	
Mean of column A	196.6
Mean of column B	102.1
Difference between means (B - A) ± SEM	-94.53 ± 6.767
95% confidence interval	-110.1 to -78.92
R squared (eta squared)	0.9606
F test to compare variances	
F, DFn, Dfd	2.410, 4, 4
P value	0.4150
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 F, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8395
P value	0.1634
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	BO IGF P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0752
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2.044, df=8
How big is the difference?	
Mean of column A	468.2
Mean of column B	329.5
Difference between means (B - A) ± SEM	-138.7 ± 67.86
95% confidence interval	-295.2 to 17.76
R squared (eta squared)	0.3431
F test to compare variances	
F, DFn, Dfd	7.370, 4, 4
P value	0.0788
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 F, GDNF

Test for normal distribution	
Shapiro-Wilk test	

W	0.8800	0.9403
P value	0.3093	0.6681
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	OB GDNF P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0010	
P value summary	**	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=5.029, df=8	
How big is the difference?		
Mean of column A	69.76	
Mean of column B	26.13	
Difference between means (B - A) ± SEM	-43.63 ± 8.676	
95% confidence interval	-63.64 to -23.62	
R squared (eta squared)	0.7597	
F test to compare variances		
F, DFn, Dfd	11.40, 4, 4	
P value	0.0369	
P value summary	*	
Significantly different (P < 0.05)?	Yes	

Figure 4 H, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9425	0.8938
P value	0.6791	0.3384
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	OB BDNF P21 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0314	
P value summary	*	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=2.501, df=10	
How big is the difference?		
Mean of column A	281.6	
Mean of column B	430.0	
Difference between means (B - A) ± SEM	148.4 ± 59.31	
95% confidence interval	16.19 to 280.5	

R squared (eta squared)	0.3848
F test to compare variances	
F, DFn, Dfd	1.167, 5, 5
P value	0.8698
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 H, Nt-3

Test for normal distribution	
Shapiro-Wilk test	
W	0.9206
P value	0.5094
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	BO Nt P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.2552
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1.207, df=10
How big is the difference?	
Mean of column A	168.4
Mean of column B	200.4
Difference between means (B - A) ± SEM	32.02 ± 26.52
95% confidence interval	-27.08 to 91.11
R squared (eta squared)	0.1272
F test to compare variances	
F, DFn, Dfd	3.077, 5, 5
P value	0.2429
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 4 H, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9818
P value	0.9603
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	BO IGF P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control

Unpaired t test		
P value	0.0041	**
P value summary		
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=3.695, df=10	
How big is the difference?		
Mean of column A	221.2	
Mean of column B	383.6	
Difference between means (B - A) \pm SEM	162.4 \pm 43.94	
95% confidence interval	64.47 to 260.3	
R squared (eta squared)	0.5773	
F test to compare variances		
F, DFn, Dfd	1.853, 5, 5	
P value	0.5148	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 4 H, GDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.8771	0.8716
P value	0.2559	0.2328
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	6	6
Table Analyzed	OB	GDNF
Column B		Post
vs.		PostVPA
Column A		vs.
		Control
Unpaired t test		
P value	0.8134	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=0.2424, df=10	
How big is the difference?		
Mean of column A	69.77	
Mean of column B	72.08	
Difference between means (B - A) \pm SEM	2.317 \pm 9.559	
95% confidence interval	-18.98 to 23.61	
R squared (eta squared)	0.005840	
F test to compare variances		
F, DFn, Dfd	1.020, 5, 5	
P value	0.9832	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 5 B, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.8746	0.7573
P value	0.2855	0.0347
Passed normality test (alpha=0.05)?	Yes	No
P value summary	ns	*
Number of values	5	5
Table Analyzed	SVZ BDNF P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0047	
P value summary	**	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=3.879, df=8	
How big is the difference?		
Mean of column A	194.8	
Mean of column B	121.2	
Difference between means (B - A) \pm SEM	-73.67 \pm 18.99	
95% confidence interval	-117.5 to -29.87	
R squared (eta squared)	0.6529	
F test to compare variances		
F, DFn, Dfd	10.19, 4, 4	
P value	0.0451	
P value summary	*	
Significantly different (P < 0.05)?	Yes	

Figure 5 B, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.9624	0.9041
P value	0.7941	0.3988
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	4	6
Table Analyzed	SVZ Nt3 P14 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.0261	
P value summary	*	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=2.723, df=8	
How big is the difference?		

Mean of column A	67.18
Mean of column B	43.06
Difference between means (B - A) \pm SEM	-24.12 \pm 8.859
95% confidence interval	-44.55 to -3.692
R squared (eta squared)	0.4810
F test to compare variances	
F, DFn, Dfd	1.499, 3, 5
P value	0.6448
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 5 B, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9792
P value	0.9305
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	SVZ IGF P14 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0004
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=5.518, df=9
How big is the difference?	
Mean of column A	298.7
Mean of column B	114.1
Difference between means (B - A) \pm SEM	-184.5 \pm 33.44
95% confidence interval	-260.2 to -108.9
R squared (eta squared)	0.7719
F test to compare variances	
F, DFn, Dfd	95.53, 4, 5
P value	0.0001
P value summary	***
Significantly different (P < 0.05)?	Yes

Figure 5 D, BDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8746
P value	0.2855
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5

Table Analyzed	SVZ BDNF P14 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0047
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.882, df=8
How big is the difference?	
Mean of column A	194.8
Mean of column B	120.0
Difference between means (B - A) \pm SEM	-74.85 \pm 19.28
95% confidence interval	-119.3 to -30.39
R squared (eta squared)	0.6532
F test to compare variances	
F, DFn, Dfd	7.586, 4, 4
P value	0.0751
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 5 D, Nt-3

Test for normal distribution	
Shapiro-Wilk test	
W	0.9624
P value	0.7941
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	4
Table Analyzed	SVZ Nt3 P14 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0047
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=4.373, df=6
How big is the difference?	
Mean of column A	67.18
Mean of column B	30.37
Difference between means (B - A) \pm SEM	-36.81 \pm 8.417
95% confidence interval	-57.41 to -16.22
R squared (eta squared)	0.7612
F test to compare variances	
F, DFn, Dfd	5.221, 3, 3
P value	0.2079
P value summary	ns

Significantly different (P < 0.05)?	No
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Figure 5 D, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9792
P value	0.9305
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	SVZ IGF P14 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0002
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=5.839, df=9
How big is the difference?	
Mean of column A	298.7
Mean of column B	102.9
Difference between means (B - A) \pm SEM	-195.8 \pm 33.54
95% confidence interval	-271.7 to -119.9
R squared (eta squared)	0.7911
F test to compare variances	
F, DFn, Dfd	65.98, 4, 5
P value	0.0003
P value summary	***
Significantly different (P < 0.05)?	Yes

Figure 5 F, BDNF

Test for normal distribution	
Shapiro-Wilk test	
W	0.8812
P value	0.3149
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	SVZ BDNF P21 Pre
Column B	PreVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0539
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed

t, df	t=2.258, df=8	
How big is the difference?		
Mean of column A	123.3	
Mean of column B	141.8	
Difference between means (B - A) \pm SEM	18.46 \pm 8.176	
95% confidence interval	-0.3925 to 37.32	
R squared (eta squared)	0.3892	
F test to compare variances		
F, DFn, Dfd	1.315, 4, 4	
P value	0.7974	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 5 F, Nt-3

Test for normal distribution		
Shapiro-Wilk test		
W	0.8870	0.9890
P value	0.3422	0.9759
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	SVZ NT3 P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.4167	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=0.8564, df=8	
How big is the difference?		
Mean of column A	128.9	
Mean of column B	140.6	
Difference between means (B - A) \pm SEM	11.70 \pm 13.66	
95% confidence interval	-19.80 to 43.20	
R squared (eta squared)	0.08398	
F test to compare variances		
F, DFn, Dfd	4.314, 4, 4	
P value	0.1858	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 5 F, IGF

Test for normal distribution		
Shapiro-Wilk test		
W	0.9294	0.9259
P value	0.5924	0.5689
Passed normality test (alpha=0.05)?	Yes	Yes

P value summary	ns	ns
Number of values	5	5
Table Analyzed	SVZ IGF P21 Pre	
Column B	PreVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	<0.0001	
P value summary	****	
Significantly different (P < 0.05)?	Yes	
One- or two-tailed P value?	Two-tailed	
t, df	t=11.31, df=8	
How big is the difference?		
Mean of column A	79.96	
Mean of column B	42.50	
Difference between means (B - A) ± SEM	-37.46 ± 3.312	
95% confidence interval	-45.10 to -29.82	
R squared (eta squared)	0.9411	
F test to compare variances		
F, DFn, Dfd	1.902, 4, 4	
P value	0.5487	
P value summary	ns	
Significantly different (P < 0.05)?	No	

Figure 5 H, BDNF

Test for normal distribution		
Shapiro-Wilk test		
W	0.8891	0.9055
P value	0.3524	0.4410
Passed normality test (alpha=0.05)?	Yes	Yes
P value summary	ns	ns
Number of values	5	5
Table Analyzed	SVZ BDNF P21 Post	
Column B	PostVPA	
vs.	vs.	
Column A	Control	
Unpaired t test		
P value	0.1686	
P value summary	ns	
Significantly different (P < 0.05)?	No	
One- or two-tailed P value?	Two-tailed	
t, df	t=1.513, df=8	
How big is the difference?		
Mean of column A	220.0	
Mean of column B	300.1	
Difference between means (B - A) ± SEM	80.11 ± 52.93	
95% confidence interval	-41.95 to 202.2	
R squared (eta squared)	0.2226	
F test to compare variances		
F, DFn, Dfd	3.298, 4, 4	

P value	0.2745
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 5 H, NT-3

Test for normal distribution	
Shapiro-Wilk test	
W	0.8813
P value	0.2750
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	6
Table Analyzed	SVZ Nt3 P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.9830
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.02193, df=9
How big is the difference?	
Mean of column A	98.38
Mean of column B	97.92
Difference between means (B - A) ± SEM	-0.4633 ± 21.13
95% confidence interval	-48.26 to 47.33
R squared (eta squared)	5.343e-005
F test to compare variances	
F, DFn, Dfd	5.673, 4, 5
P value	0.0845
P value summary	ns
Significantly different (P < 0.05)?	No

Figure 5 H, IGF

Test for normal distribution	
Shapiro-Wilk test	
W	0.9403
P value	0.6677
Passed normality test (alpha=0.05)?	Yes
P value summary	ns
Number of values	5
Table Analyzed	SVZ IGF P21 Post
Column B	PostVPA
vs.	vs.
Column A	Control
Unpaired t test	
P value	0.0046
P value summary	**

Significantly different ($P < 0.05$)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3.742, df=9
How big is the difference?	
Mean of column A	138.4
Mean of column B	281.3
Difference between means ($B - A$) \pm SEM	142.9 \pm 38.18
95% confidence interval	56.50 to 229.2
R squared (eta squared)	0.6087
F test to compare variances	
F, DF _n , DF _d	18.90, 5, 4
P value	0.0138
P value summary	*
Significantly different ($P < 0.05$)?	Yes

Prefrontal cortex, PND14

Western blotting results

Group	Protein	p	t	df	Figure
Control	GFAP	0.0001	11.31	10	Fig 2 A
PreVPA		0.0001	9.087	10	Fig 2 C
Control		0.4625	0.764	10	Fig 2 A
PostVPA		0.0576	2.144	10	Fig 2 C
Control	DCX	0.0001	8.853	10	Fig 2 A
PreVPA		0.0537	2.186	10	Fig 2 C
Control		0.0001	12.96	10	Fig 2 A
PostVPA		0.0001	6.019	10	Fig 2 C
Control	NeuN	0.0001	20.786	10	Fig 2 G
PreVPA		0.0718	2.013	10	Fig 2 E
Control		0.8221	0.2309	10	Fig 2 G
PostVPA		0.0001	24.25	10	Fig 2 E
Control	SYP	0.1125	1.740	10	Fig 2 G
PreVPA		0.0001	12.40	10	Fig 2 E
Control		0.0001	8.207	10	Fig 2 G
PostVPA					

Prefrontal cortex, PND21

Western blotting results

Group	Protein	p	t	df	Figure
Control	GFAP	0.0001	8.229	10	Fig 2 E
PreVPA		0.0001	20.786	10	Fig 2 G
Control		0.0718	2.013	10	Fig 2 E
PostVPA		0.8221	0.2309	10	Fig 2 G
Control	DCX	0.0001	24.25	10	Fig 2 E
PreVPA		0.1125	1.740	10	Fig 2 G
Control		0.0001	12.40	10	Fig 2 E
PostVPA		0.0001	8.207	10	Fig 2 G
Control	NeuN	0.0001	20.786	10	Fig 2 G
PreVPA		0.0718	2.013	10	Fig 2 E
Control		0.8221	0.2309	10	Fig 2 G
PostVPA		0.0001	24.25	10	Fig 2 E
Control	SYP	0.1125	1.740	10	Fig 2 G
PreVPA		0.0001	12.40	10	Fig 2 E
Control		0.0001	8.207	10	Fig 2 G
PostVPA					

Hippocampus, PND 14

Western blotting results

Group	Protein	p	t	df	Figure
Control	GFAP	0.0867	1.899	10	Fig 3 A
PreVPA		0.0023	4.050	10	Fig 3 C
Control		0.0597	2.123	10	Fig 3 A
PostVPA		0.9739	0.0335	10	Fig 3 C
Control	DCX	0.8093	0.2478	10	Fig 3 A
PreVPA		0.0001	10.95	10	Fig 3 C
Control		0.0564	2.157	10	Fig 3 A
PostVPA		0.6790	0.4262	10	Fig 3 C
Control	NeuN	0.0001	10.95	10	Fig 3 C
PreVPA		0.0029	3.913	10	Fig 3 E
Control		0.0003	5.482	10	Fig 3 E
PostVPA		0.0003	5.438	10	Fig 3 G
Control	SYP	0.0001	15.48	10	Fig 3 E
PreVPA		0.3401	1.002	10	Fig 3 G
Control		0.0001	7.352	10	Fig 3 G
PostVPA		0.0001	7.352	10	Fig 3 G

Hippocampus, PND21

Western blotting

Group	Protein	p	t	df	Figure
Control	GFAP	0.0029	3.913	10	Fig 3 E
PreVPA		0.0001	8.169	10	Fig 3 G
Control		0.0003	5.482	10	Fig 3 E
PostVPA		0.0003	5.438	10	Fig 3 G
Control	DCX	0.0028	3.935	10	Fig 3 E
PreVPA		0.3401	1.002	10	Fig 3 G
Control		0.0001	15.48	10	Fig 3 E
PostVPA		0.0001	7.352	10	Fig 3 G
Control	NeuN	0.0001	15.48	10	Fig 3 E
PreVPA		0.3401	1.002	10	Fig 3 G
Control		0.0001	7.352	10	Fig 3 G
PostVPA		0.0001	7.352	10	Fig 3 G

Olfactory bulb, PND14

Western blotting results

Group	Protein	p	t	df	Figure
Control	GFAP	0.0001	12.32	10	Fig 4 A
PreVPA		0.0001	20.786	10	Fig 4 C
Control		0.1657	1.495	10	Fig 4 A
PostVPA		0.8221	0.2309	10	Fig 4 C
Control	DCX	0.3929	0.8928	10	Fig 4 A
PreVPA		0.1125	1.740	10	Fig 4 C
Control		0.0001	14.53	10	Fig 4 G
PostVPA		0.0001	10.12	10	Fig 4 E
Control	NeuN	0.2083	6.952	10	Fig 4 E
PreVPA		0.6943	1.345	10	Fig 4 G
Control		0.0001	0.4046	10	Fig 4 G
PostVPA		0.0001	0.4046	10	Fig 4 G

Olfactory bulb, PND21

Western blotting results

Group	Protein	p	t	df	Figure
Control	GFAP	0.9911	0.0114	10	Fig 4 E
PreVPA		0.0001	14.53	10	Fig 4 G
Control		0.0001	6.952	10	Fig 4 E
PostVPA		0.0001	10.12	10	Fig 4 G
Control	DCX	0.2083	1.345	10	Fig 4 E
PreVPA		0.6943	0.4046	10	Fig 4 G
Control		0.0001	0.4046	10	Fig 4 G
PostVPA		0.0001	0.4046	10	Fig 4 G

Prefrontal cortex, PND14

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.68	0.4178	10	Fig 2 B
PreVPA		0.94	0.0819	10	Fig 2 D
Control		0.025	2.676	10	Fig 2 B
PostVPA		0.0009	5.522	10	Fig 2 D
Control	NT3	0.05	2.183	10	Fig 2 B
PreVPA		0.0014	4.388	10	Fig 2 D
Control		0.87	0.1689	9	Fig 2 H
PostVPA		0.086	1.925	9	Fig 2 F
Control	IGF	0.0001	7.239	8	Fig 2 F
PreVPA		0.0537	2.186	9	Fig 2 H
Control		0.53	0.6484	8	Fig 2 F
PostVPA		0.17	1.476	9	Fig 2 H

Prefrontal cortex, PND21

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.53	0.6484	8	Fig 2 F
PreVPA		0.17	1.476	9	Fig 2 H
Control		0.086	1.925	9	Fig 2 F
PostVPA		0.87	0.1689	9	Fig 2 H
Control	NT3	0.0001	7.239	8	Fig 2 F
PreVPA		0.0537	2.186	9	Fig 2 H
Control		0.53	0.6484	8	Fig 2 F
PostVPA		0.17	1.476	9	Fig 2 H

Hippocampus PND14

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.0016	4.276	10	Fig 3 B
PreVPA		0.18	1.445	9	Fig 3 D
Control		0.0007	5.769	7	Fig 3 B
PostVPA		0.0035	4.090	8	Fig 3 D
Control	NT3	0.0001	7.133	9	Fig 3 B
PreVPA		0.004	*U=0		Fig 3 D
Control		0.12	1.715	8	Fig 3 B
PostVPA		0.0001	7.286	8	Fig 3 D
Control	IGF	0.0001	7.133	9	Fig 3 B
PreVPA		0.004	*U=0		Fig 3 D
Control		0.12	1.715	8	Fig 3 B
PostVPA		0.0001	7.286	8	Fig 3 D
Control	GDNF	0.12	1.715	8	Fig 3 B
PreVPA		0.0001	7.286	8	Fig 3 D
Control		0.12	1.715	8	Fig 3 B
PostVPA		0.0001	7.286	8	Fig 3 D

*Mann Whitney test

Hippocampus PND21

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.0042	3.956	8	Fig 3 F
PreVPA		0.0057	3.506	10	Fig 3 H
Control		0.0084	3.478	8	Fig 3 F
PostVPA		0.0001	12.94	8	Fig 3 H
Control	NT3	0.0115	3.261	8	Fig 3 F
PreVPA		0.004	*U=0		Fig 3 H
Control		0.01	3.198	8	Fig 3 F
PostVPA		0.0007	4.796	10	Fig 3 H
Control	IGF	0.0115	3.261	8	Fig 3 F
PreVPA		0.004	*U=0		Fig 3 H
Control		0.01	3.198	8	Fig 3 F
PostVPA		0.0007	4.796	10	Fig 3 H
Control	GDNF	0.01	3.198	8	Fig 3 F
PreVPA		0.0007	4.796	10	Fig 3 H
Control		0.01	3.198	8	Fig 3 F
PostVPA		0.0007	4.796	10	Fig 3 H

* Mann Whitney test

Olfactory bulb PND14

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.0002	6.345	10	Fig 4 B
PreVPA		0.008	*U=0		Fig 4 D
Control					
PostVPA					
Control	NT3	0.72	0.3692	10	Fig 4 B
PreVPA		0.16	1.522	10	Fig 4 D
Control					
PostVPA					
Control	IGF	0.05	2.255	10	Fig 4 B
PreVPA		0.002	4.214	10	Fig 4 D
Control					
PostVPA					
Control	GDNF	0.09	1.938	8	Fig 4 B
PreVPA		0.97	0.0355	8	Fig 4 D
Control					
PostVPA					

* Mann Whitney test

Olfactory bulb PNd21

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.0001	11.31	10	Fig 4 F
PreVPA		0.0314	2.501	10	Fig 4 H
Control					
PostVPA					
Control	NT3	0.0001	13.97	8	Fig 4 F
PreVPA		0.26	1.207	10	Fig 4 H
Control					
PostVPA					
Control	IGF	0.0752	2.044	8	Fig 4 F
PreVPA		0.0041	3.695	10	Fig 4 H
Control					
PostVPA					
Control	GDNF	0.008	*U=0		Fig 4 F
PreVPA		0.081	0.2424	10	Fig 4 H
Control					
PostVPA					

* Mann Whitney test

Subventricular zone PND14

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.008	*U=0		Fig 5 A
PreVPA		0.005	3.882	8	Fig 5 B
Control		0.026	2.723	8	Fig 5 A
PostVPA		0.005	4.373	6	Fig 5 B
Control	NT3	0.004	U=0		Fig 5 A
PreVPA		0.004	U=0		Fig 5 B
Control		0.004	U=0		Fig 5 B
PostVPA		0.004	U=0		Fig 5 B

* Mann Whitney test

Subventricular zone PND21

ELISA results

Group	Protein	p	t	df	Figure
Control	BDNF	0.54	2.258	8	Fig 5 C
PreVPA		0.17	1.513	8	Fig 5 D
Control		0.42	0.8564	8	Fig 5 C
PostVPA		0.98	0.0219	9	Fig 5 D
Control	NT3	0.0001	11.31	8	Fig 5 C
PreVPA		0.02	*U=2		Fig 5 D
Control		0.02	*U=2		Fig 5 D
PostVPA		0.02	*U=2		Fig 5 D

* Mann Whitney test

Specificity of the primary and secondary antibodies used in the current study

1. A polyclonal rabbit antibody anti-GFAP, Dako, Z0334.

<https://www.citeab.com/antibodies/2452274-z0334-glial-fibrillary-acidic-protein-gfap>

Cited in 4043 publications.

2. A monoclonal mouse antibody anti-DCX, sc-271390

<https://www.scbt.com/p/doublecortin-antibody-e-6?srsltid=AfmBOop79Xkvkk4s-rU-5vs5dV2JusXPNN8Ec1QJEg-IWFtJDC5pd1Ny>

Cited in 131 publications.

3. A monoclonal mouse antibody anti-NeuN, MAB377.

<https://www.citeab.com/antibodies/226230-mab377-anti-neun-antibody-clone-a60>

Cited in 6998 publication.

4. A monoclonal mouse antibody anti-synaptophysin, SAB4200544

<https://www.citeab.com/antibodies/2282735-sab4200544-anti-synaptophysin-antibody-mouse-monoc>

Cited in 18 publications.

5. Goat Anti-Rabbit IgG H&L, ab6721

<https://www.abcam.com/en-us/products/secondary-antibodies/goat-rabbit-igg-h-l-hrp-ab6721?srsltid=AfmBOordkxuB3tUoOKaKnFXPxKtz9RuoO0RIkzRLBZQA2z3FO3mfgo8u>

Cited in 5946 publications.

6. Goat Anti-Mouse IgG H&L, ab97023

https://www.abcam.com/en-us/products/secondary-antibodies/goat-mouse-igg-h-l-hrp-ab97023?srsltid=AfmBOopusr2MySclNIMa3irSPfiko2a6l9IluuOD6PRqNa_MZXK9ENZt

Cited in 367 publications.

7. Rabbit anti-β-actin antibody, Cell signaling #4967

<https://www.cellsignal.com/products/primary-antibodies/b-actin-antibody/4967?srsltid=AfmBOopUvcK4npdbBaMIL51drga4YtBNwkRCTPdetD5QNOiO5acKdZTo>

Cited in 3824 publications.