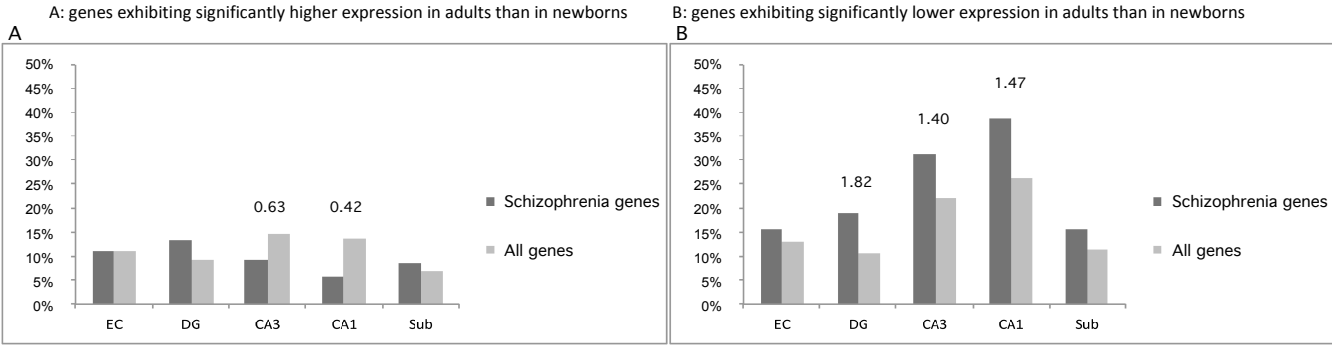


KY
LARS
LOC732445/// CHRNA7 ///CHRFAM7A///CHRFAM7A ///CHRNA7
LPL
LZTS1
MAGI1
MAGI2
MALL
MAOA
MAP2
MARCO
MED12
MED7
MLC1
MNDA
MTHFR
NES
NOS1
NOS1AP
NOTCH2
NOTCH4
NPAS3
NPHP1
NPY
NR4A2
NRG1
NRGN
NTF3
NTNG1
NUMBL
OLIG2
PAM
PCM1
PDE4B
PDUM5
PICK1
PIP4K2A
PLA2G4A
PLA2G6
PLXNA2
PPP2R2B
PPP3CC
PROC
PRODH
PTPRZ1
RAPGEF6
RELN
RGS4
S100A1
S100A10
SCG2
SELENBP1
SHE
SLC18A1
SLC18A2
SLC1A2
SLC6A3
SLC6A4
SLIT3
SOX10
STX1A
SYN2
SYT11
TBX1
TH
TNE
TP53
TPH1
TSNAX
TTL
TXNIP
UHMK1
XBP1
YWHAH
ZDHHC8

Supplementary information 2: Developmental regulation of expression of schizophrenia susceptibility genes in the primate hippocampal formation. Favre et al.

Percentages of schizophrenia susceptibility genes exhibiting differences in expression between newborn and adult monkeys in any one of five distinct hippocampal regions
Comparison with all genes exhibiting differences in expression between newborn and adult monkeys in any one of five distinct hippocampal regions



Schizophrenia susceptibility genes (n=173)

	EC	DG	CA3	CA1	Sub		EC	DG	CA3	CA1	Sub
up-regulated genes	19	23	16	10	15	down-regulated genes	27	33	54	67	27
all pathological genes	173	173	173	173	173	all pathological genes	173	173	173	173	173
	10.98%	13.29%	9.25%	5.78%	8.67%		15.61%	19.08%	31.21%	38.73%	15.61%

All genes (n=20,741)

	EC	DG	CA3	CA1	Sub		EC	DG	CA3	CA1	Sub
up-regulated genes	2294	1942	3059	2843	1439	down-regulated genes	2722	2177	4632	5474	2353
all genes	20741	20741	20741	20741	20741	all genes	20741	20741	20741	20741	20741
	11.06%	9.36%	14.75%	13.71%	6.94%		13.12%	10.50%	22.33%	26.39%	11.34%

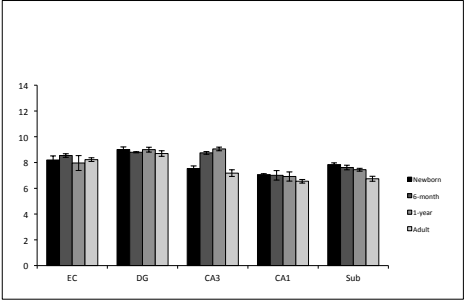
Ratio (Percentage schizophrenia genes / percentage all genes)

0.99	1.42	0.63	0.42	1.25	1.19	1.82	1.40	1.47	1.38
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Statistical comparisons

Overall	Chi square	15.21158 > 14.860	Overall	Chi square	2.8828664 < 9.488
		4 Degrees of freedom			4 Degrees of freedom
		p<0.005			NS
EC	Chi square	0.0010492 < 3.841 (p=0.05)	EC	Chi square	0.9266513 < 3.841 (p=0.05)
		1 Degrees of freedom			1 Degrees of freedom
		NS			NS
DG	Chi square	3.1154794 < 3.841 (p=0.05)	DG	Chi square	13.361711 > 10.828 (p=0.001)
		1 Degrees of freedom			1 Degrees of freedom
		NS			p<0.001
CA3	Chi square	4.1383226 > 3.841 (p=0.05)	CA3	Chi square	7.7839169 > 6.635 (p=0.01)
		1 Degrees of freedom			1 Degrees of freedom
		p<0.05			p<0.01
CA1	Chi square	9.1509355 > 7.879 (p=0.005)	CA1	Chi square	13.406816 > 10.828 (p=0.001)
		1 Degrees of freedom			1 Degrees of freedom
		p<0.005			p<0.001
Sub	Chi square	0.7961371 < 3.841 (p=0.05)	Sub	Chi square	3.0906228 < 3.841 (p=0.05)
		1 Degrees of freedom			1 Degrees of freedom
		NS			NS

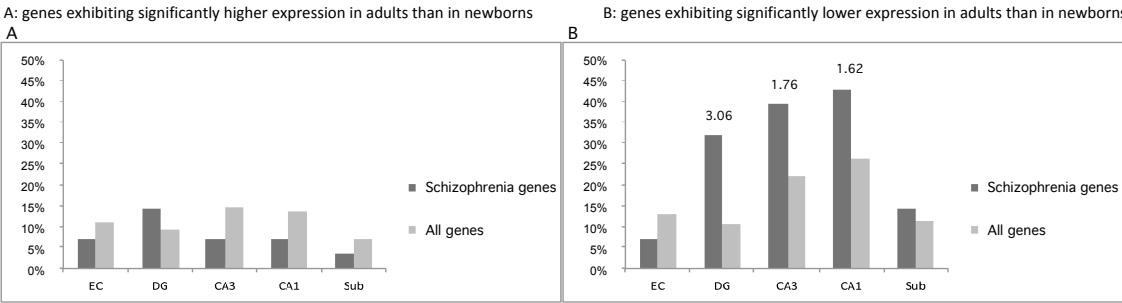
	BDNF - 206382_s_at									
	EC	SE	DG	SE	CA3	SE	CA1	SE	Sub	SE
Newborn	8.200	0.314	9.007	0.199	7.539	0.196	7.065	0.070	7.840	0.131
6-month	8.543	0.138	8.796	0.046	8.748	0.104	7.010	0.367	7.613	0.181
1-year	7.962	0.579	9.002	0.190	9.055	0.143	6.917	0.354	7.445	0.112
Adult	8.224	0.144	8.698	0.214	7.178	0.257	6.547	0.141	6.743	0.193



Global ANOVA (from ArrayAssist)									
	pv-age		pv-reg		pv-ageXreg				
	0.0001	0.0000	0.0010						
Age	New VS 6mo	New VS 1yr	New VS Adult	6mo VS 1yr	6mo VS Adult	1yr vs Adult			
	0.3987	0.6155	0.1002	0.8246	0.0210	0.0630			
Region	EC vs DG	EC vs CA3	EC vs CA1	EC vs Sub	DG vs CA3	DG vs CA1	DG vs Sub	CA3 vs CA1	CA3 vs Sub
	0.0010	0.7041	0.0000	0.0004	0.0045	0.0000	0.0000	0.0001	0.0053
Unpaired t-tests									
	New VS 6mo	New VS 1yr	New VS Adult	6mo VS 1yr	6mo VS Adult	1yr vs Adult			
EC	0.3557	0.7304	0.9473	0.3667	0.1604	0.6763			
DG	0.3430	0.9875	0.3311	0.3337	0.6676	0.3286			
CA3	0.0016	0.0008	0.3059	0.1322	0.0013	0.0007			
CA1	0.8885	0.6961	0.0168	0.8610	0.2839	0.3693			
Sub	0.3474	0.0617	0.0033	0.4602	0.0166	0.0199			
Paired t-tests									
	EC vs DG	EC vs CA3	EC vs CA1	EC vs Sub	DG vs CA3	DG vs CA1	DG vs Sub	CA3 vs CA1	CA3 vs Sub
Newborn	0.0120	0.2197	0.0314	0.3580	0.0253	0.0012	0.0086	0.1574	0.0020
6 months	0.1015	0.4267	0.0441	0.0067	0.7610	0.0227	0.0034	0.0087	0.4132
1 year	0.1715	0.0933	0.1149	0.3519	0.7967	0.0073	0.0032	0.0068	0.0001
Adults	0.0084	0.0222	0.0009	0.0056	0.0111	0.0008	0.0056	0.1599	0.5439

Supplementary information 4: Developmental regulation of expression of schizophrenia susceptibility genes also involved in other diseases affecting the hippocampal formation. Favre et al.

Percentages of schizophrenia susceptibility genes exhibiting differences in expression between newborn and adult monkeys in any one of five distinct hippocampal regions
Comparison with all genes exhibiting differences in expression between newborn and adult monkeys in any one of five distinct hippocampal regions



Schizophrenia susceptibility genes also involved in other diseases (n=28)

	EC	DG	CA3	CA1	Sub		EC	DG	CA3	CA1	Sub
up-regulat	2	4	2	2	1	down-regu	2	9	11	12	4
all patholo	28	28	28	28	28	all patholo	28	28	28	28	28
	7.14%	14.29%	7.14%	7.14%	3.57%		7.14%	32.14%	39.29%	42.86%	14.29%

All genes (n=20,741)

	EC	DG	CA3	CA1	Sub		EC	DG	CA3	CA1	Sub
up-regulat	2294	1942	3059	2843	1439	down-regu	2722	2177	4632	5474	2353
all genes	20741	20741	20741	20741	20741	all genes	20741	20741	20741	20741	20741
	11.06%	9.36%	14.75%	13.71%	6.94%		13.12%	10.50%	22.33%	26.39%	11.34%

Ratio (Percentage schizophrenia / percentage all genes)

0.65	1.53	0.48	0.52	0.51	0.54	3.06	1.76	1.62	1.26
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Statistical comparisons

Overall	Chi square 3.089027 < 9.488 4 Degrees of freedom NS	Overall	Chi square 6.704084 < 9.488 4 Degrees of freedom NS
EC	Chi square 0.436397 < 3.841 (p=0.05) 1 Degrees of freedom NS	EC	Chi square 0.926651 < 3.841 (p=0.05) 1 Degrees of freedom NS
DG	Chi square 0.797928 < 3.841 (p=0.05) 1 Degrees of freedom NS	DG	Chi square 13.91305 > 10.828 (p=0.001) 1 Degrees of freedom p<0.001
CA3	Chi square 1.287211 < 3.841 (p=0.05) 1 Degrees of freedom NS	CA3	Chi square 4.629969 > 3.841 (p=0.05) 1 Degrees of freedom p<0.05
CA1	Chi square 1.019206 < 3.841 (p=0.05) 1 Degrees of freedom NS	CA1	Chi square 3.899967 > 3.841 (p=0.05) 1 Degrees of freedom p<0.05
Sub	Chi square 0.491127 < 3.841 (p=0.05) 1 Degrees of freedom NS	Sub	Chi square 0.240405 < 3.841 (p=0.05) 1 Degrees of freedom NS