

Table 1: S-100 β positive astrocyte density of primary visual cortex (V1)

Age	C	DR	DR-EE	DR-EE-Ex
P21	17.72 \pm 0.42	22.00 \pm 1.01	11.65 \pm 0.28	22.95 \pm 0.59
P28	16.68 \pm 0.70	18.39 \pm 0.95	14.30 \pm 0.40	19.60 \pm 0.43
P35	16.83 \pm 0.53	12.97 \pm 0.38	11.14 \pm 0.28	19.72 \pm 0.47
P42	15.29 \pm 0.74	11.76 \pm 0.43	13.25 \pm 0.37	19.56 \pm 0.47
P49	16.33 \pm 0.50	13.23 \pm 0.43	11.92 \pm 0.28	20.51 \pm 0.68
P56	15.48 \pm 0.51	14.70 \pm 0.59	12.07 \pm 0.37	18.46 \pm 0.73
P63	16.36 \pm 0.62	13.08 \pm 0.38	13.13 \pm 0.27	19.55 \pm 0.49

Age	<i>F</i>	df	C vs DR		C vs DR-EE		C vs DR-EE-Ex		DR vs DR-EE		DR vs DR-EE-Ex		DR-EE vs DR-EE-Ex	
			%Dif	p	%Dif	p	%Dif	p	%Dif	p	%Dif	p	%Dif	p
P21	64.726	3	24.15	0.002	-34.25	0.000	29.51	0.000	-47.04	0.000	4.32	0.961	97.00	0.000
P28	20.168	3	10.25	0.632	-14.26	0.024	17.50	0.004	-22.24	0.002	6.58	0.830	37.06	0.000
P35	88.906	3	-22.93	0.000	-33.80	0.000	17.17	0.001	-14.10	0.001	52.04	0.000	77.02	0.000
P42	49.884	3	-23.08	0.000	-13.34	0.024	27.93	0.000	12.67	0.119	66.33	0.000	47.62	0.000
P49	37.736	3	-18.98	0.000	-27.00	0.000	25.60	0.000	-9.90	0.070	55.03	0.000	72.06	0.000
P56	23.760	3	-5.03	1.000	-22.02	0.000	19.25	0.001	-17.89	0.003	25.58	0.000	52.94	0.000
P63	181.186	3	-20.04	0.000	-19.74	0.000	19.50	0.001	0.38	1.000	49.46	0.000	48.90	0.000

Table 1: S-100 β positive astrocyte density per 62,500 μm^2 of primary visual cortex for C, DR, DR-EE and DR-EE-Ex groups in each of the ages considered (mean number of S-100 β positive cells per 62,500 μm^2 of primary visual cortex \pm SEM; percentage of difference and statistical significance, p value, *F* value and degree of freedom) (1-way ANOVA test with post-hoc correction).

Table 2: S-100 β positive astrocyte density of primary somatosensory cortex barrel field (S1BF)

Age	C	DR	DR-EE	DR-EE-Ex
P21	13.23 \pm 0.31	12.58 \pm 0.38	19.01 \pm 0.36	20.86 \pm 0.41
P28	11.92 \pm 0.34	13.17 \pm 0.32	14.55 \pm 0.32	19.60 \pm 0.29
P35	12.32 \pm 0.33	13.78 \pm 0.33	15.20 \pm 0.28	17.26 \pm 0.28
P42	11.40 \pm 0.26	13.03 \pm 0.28	13.44 \pm 0.94	17.90 \pm 0.43
P49	11.30 \pm 0.30	13.14 \pm 0.31	14.07 \pm 0.34	15.87 \pm 0.36
P56	12.04 \pm 0.32	13.68 \pm 0.41	14.13 \pm 0.37	16.38 \pm 0.39
P63	12.44 \pm 0.29	11.49 \pm 0.27	14.99 \pm 0.37	16.56 \pm 0.41

Age	<i>F</i>	df	C vs DR		C vs DR-EE		C vs DR-EE-Ex		DR vs DR-EE		DR vs DR-EE-Ex		DR-EE vs DR-EE-Ex	
			%Dif	p	%Dif	p	%Dif	p	%Dif	p	%Dif	p	%Dif	p
P21	108.985	3	-4.91	0.703	43.69	0.000	57.67	0.000	51.11	0.000	65.82	0.000	9.73	0.005
P28	121.424	3	10.49	0.097	22.06	0.000	64.43	0.000	10.48	0.021	48.82	0.000	34.71	0.000
P35	47.756	3	11.85	0.014	23.38	0.000	40.10	0.000	10.30	0.006	25.25	0.000	13.55	0.000
P42	17.789	3	14.30	0.498	17.89	0.123	57.02	0.000	3.15	1.000	37.38	0.000	33.18	0.000
P49	30.553	3	16.28	0.000	24.51	0.000	40.44	0.000	7.08	0.248	20.78	0.000	12.79	0.002
P56	22.782	3	13.62	0.020	17.36	0.001	36.05	0.000	3.29	1.000	19.74	0.000	15.92	0.000
P63	47.184	3	-7.63	0.099	20.50	0.000	33.12	0.000	30.46	0.000	44.13	0.000	10.47	0.029

Table 2: S-100 β positive astrocyte density per 62,500 μm^2 of primary somatosensory cortex barrel field for C, DR, DR-EE and DR-EE-Ex groups in each of the ages considered (mean number of S-100 β positive cells per 62,500 μm^2 of primary somatosensory cortex, barrel field \pm SEM; percentage of difference and statistical significance, p value, *F* value and degree of freedom) (1-way ANOVA test with post-hoc correction).

Table 3: Primary visual cortex (V1) layer IV volume (mm³)

Age	C	DR	DR-EE	DR-EE-Ex
P21	0.549 \pm 0.012	0.525 \pm 0.020	0.656 \pm 0.049	0.596 \pm 0.016
P28	0.394 \pm 0.020	0.266 \pm 0.013	0.281 \pm 0.011	0.297 \pm 0.007
P35	0.399 \pm 0.024	0.254 \pm 0.016	0.273 \pm 0.010	0.257 \pm 0.012
P42	0.356 \pm 0.023	0.272 \pm 0.006	0.282 \pm 0.011	0.257 \pm 0.010
P49	0.331 \pm 0.011	0.261 \pm 0.009	0.253 \pm 0.006	0.247 \pm 0.011
P56	0.319 \pm 0.010	0.283 \pm 0.009	0.261 \pm 0.004	0.277 \pm 0.003
P63	0.313 \pm 0.008	0.244 \pm 0.009	0.254 \pm 0.006	0.273 \pm 0.008

Age	<i>F</i>	df	C vs DR		C vs DR-EE		C vs DR-EE-Ex		DR vs DR-EE		DR vs DR-EE-Ex		DR-EE vs DR-EE-Ex	
			%Dif	p	%Dif	p	%Dif	p	%Dif	p	%Dif	p	%Dif	p
P21	4.119	3	-4.37	0.906	19.49	0.405	8.56	0.259	24.95	0.239	13.52	0.123	-9.14	0.872
P28	17.342	3	-32.48	0.000	-28.68	0.000	-24.61	0.000	5.64	1.000	11.65	0.728	5.69	1.000
P35	18.314	3	-36.34	0.004	-31.57	0.011	-35.58	0.005	7.48	0.903	1.18	1.000	-5.86	0.904
P42	9.589	3	-23.59	0.082	-20.78	0.130	-27.80	0.037	3.68	0.976	-5.51	0.834	-8.86	0.584
P49	17.774	3	-21.14	0.000	-23.56	0.000	-25.37	0.000	-3.06	1.000	-5.36	1.000	-2.37	1.000
P56	12.246	3	-9.58	0.115	-18.18	0.007	-13.16	0.035	-7.77	0.316	-2.12	0.993	6.13	0.049
P63	15.077	3	-22.04	0.000	-18.84	0.000	-12.77	0.010	4.10	1.000	11.89	0.110	7.48	0.649

Table 3: Primary visual cortex (V1) layer IV volume (mm³) for C, DR, DR-EE and DR-EE-Ex groups in each of the ages considered (mean number of V1 layer IV volume mm³ \pm SEM; percentage of difference and statistical significance, p value, *F* value and degree of freedom) (1-way ANOVA test with post-hoc correction).

Table 4: Primary somatosensory cortex barrel field (S1BF) volume (mm³)

Age	C	DR	DR-EE	DR-EE-Ex
P21	0.508 \pm 0.014	0.681 \pm 0.028	0.673 \pm 0.032	0.632 \pm 0.027
P28	0.648 \pm 0.022	0.554 \pm 0.017	0.817 \pm 0.033	0.884 \pm 0.050
P35	0.652 \pm 0.022	0.636 \pm 0.027	0.960 \pm 0.044	0.905 \pm 0.055
P42	0.530 \pm 0.022	1.064 \pm 0.028	0.960 \pm 0.024	0.973 \pm 0.033
P49	0.494 \pm 0.013	0.868 \pm 0.041	0.920 \pm 0.037	0.948 \pm 0.050
P56	0.598 \pm 0.025	0.978 \pm 0.086	0.783 \pm 0.017	0.936 \pm 0.038
P63	0.616 \pm 0.025	0.678 \pm 0.023	0.591 \pm 0.013	0.656 \pm 0.022

Age	<i>F</i>	df	C vs DR		C vs DR-EE		C vs DR-EE-Ex		DR vs DR-EE		DR vs DR-EE-Ex		DR-EE vs DR-EE-Ex	
			% Dif	p	% Dif	p	% Dif	p	% Dif	p	% Dif	p	% Dif	p
P21	10.109	3	34.06	0.001	32.48	0.001	24.41	0.035	-1.17	1.000	-7.19	1.000	-6.09	1.000
P28	21.053	3	-14.50	0.044	26.08	0.013	36.42	0.022	47.47	0.001	59.57	0.004	8.20	0.878
P35	18.419	3	-2.45	1.000	47.24	0.000	38.80	0.001	50.94	0.000	42.30	0.001	-5.72	1.000
P42	53.057	3	100.75	0.000	81.13	0.000	83.58	0.000	-9.77	0.218	-8.55	0.383	1.35	1.000
P49	31.276	3	75.71	0.000	86.23	0.000	91.90	0.000	5.99	1.000	9.22	0.910	3.04	1.000
P56	12.216	3	63.55	0.033	30.94	0.001	56.52	0.000	-19.93	0.359	-4.29	0.999	19.54	0.048
P63	3.419	3	10.06	0.310	-4.05	1.000	6.49	1.000	-12.83	0.053	-3.24	1.000	10.99	0.245

Table 4: Primary somatosensory cortex barrel field (S1BF) volume (mm³) for C, DR, DR-EE and DR-EE-Ex groups in each of the ages considered (mean number of S1BF volume mm³ \pm SEM; percentage of difference and statistical significance, p value, *F* value and degree of freedom) (1-way ANOVA test with post-hoc correction).