

Supplementary Table 6. Hippocampus fatty acid concentrations for rats fed the control, ALA or DHA diet for 15 weeks

Fatty Acid	Control (n=11)	ALA (n=11)	DHA (n=11)
14:0	190 ± 18	185 ± 11	177 ± 14
16:0	20923 ± 482	20779 ± 535	20484 ± 601
16:1n-7	328 ± 13	335 ± 18	337 ± 26
18:0	20404 ± 466	20544 ± 673	20431 ± 609
18:1n-9	16727 ± 622	17927 ± 852	17851 ± 518
18:1n-7	3065 ± 94	3029 ± 130	2923 ± 72
18:2n-6	346 ± 20 <sup>a</sup>	402 ± 15 <sup>a</sup>	483 ± 29 <sup>b</sup>
20:0	264 ± 12	278 ± 19	257 ± 9
20:1n-9	888 ± 54	915 ± 67	891 ± 35
20:2	99 ± 4	108 ± 7	110 ± 4
20:3n-3	165 ± 8 <sup>a</sup>	212 ± 11 <sup>b</sup>	282 ± 12 <sup>c</sup>
ARA (20:4n-6)	8312 ± 191	9385 ± 434	8674 ± 401
EPA (20:5n-3)	267 ± 16	263 ± 33	207 ± 32
22:1n-9	86 ± 9	81 ± 6	109 ± 15
22:4n-6	2242 ± 49	2325 ± 116	2052 ± 88
22:5n-6	3158 ± 146 <sup>a</sup>	467 ± 44 <sup>b</sup>	159 ± 12 <sup>c</sup>
24:1n-9	382 ± 18	448 ± 39	420 ± 22
22:5n-3	16 ± 1 <sup>a</sup>	51 ± 5 <sup>b</sup>	50 ± 5 <sup>b</sup>
DHA (22:6n-3)	4715 ± 163 <sup>a</sup>	7619 ± 341 <sup>b</sup>	7970 ± 362 <sup>b</sup>

Data shown are means +/- SEM and are expressed in nmol/g of brain. Different letters signify the means are significantly different ( $p < 0.05$ ) measured by One-way ANOVA followed by Tukey's test for multiple comparisons or Kruskal-Wallis test followed by Dunn's multiple comparison test (if variances were significantly different).