

Supplementary Table 8. Rest of brain 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	176 ± 6	189 ± 12	164 ± 4
16:0	17626 ± 293	17550 ± 294	17183 ± 371
16:1n-7	229 ± 31	329 ± 38	229 ± 33
18:0	18727 ± 343	18500 ± 398	18106 ± 334
18:1n-9	18584 ± 722	19280 ± 661	19784 ± 450
18:1n-7	3748 ± 83	3718 ± 109	3533 ± 66
18:2n-6	389 ± 15 <sup>a</sup>	477 ± 17 <sup>b</sup>	556 ± 16 <sup>c</sup>
20:0	443 ± 21	469 ± 23	417 ± 17
20:1n-9	1669 ± 165	2074 ± 82	1917 ± 74
20:2	107 ± 7	114 ± 8	103 ± 6
20:3n-3	212 ± 6 <sup>a</sup>	240 ± 12 <sup>a</sup>	297 ± 11 <sup>b</sup>
ARA (20:4n-6)	7227 ± 182	6913 ± 108	6653 ± 247
EPA (20:5n-3)	412 ± 17	442 ± 20	410 ± 15
22:1n-9	223 ± 41	181 ± 17	150 ± 7
22:4n-6	2417 ± 47 <sup>a</sup>	2181 ± 33 <sup>b</sup>	1942 ± 52 <sup>c</sup>
22:5n-6	2481 ± 68 <sup>a</sup>	244 ± 17 <sup>b</sup>	92 ± 7 <sup>c</sup>
24:1n-9	594 ± 24	672 ± 30	621 ± 29
22:5n-3	20 ± 1 <sup>a</sup>	59 ± 2 <sup>b</sup>	73 ± 3 <sup>b</sup>
DHA (22:6n-3)	4589 ± 122 <sup>a</sup>	6605 ± 140 <sup>b</sup>	6984 ± 300 <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).