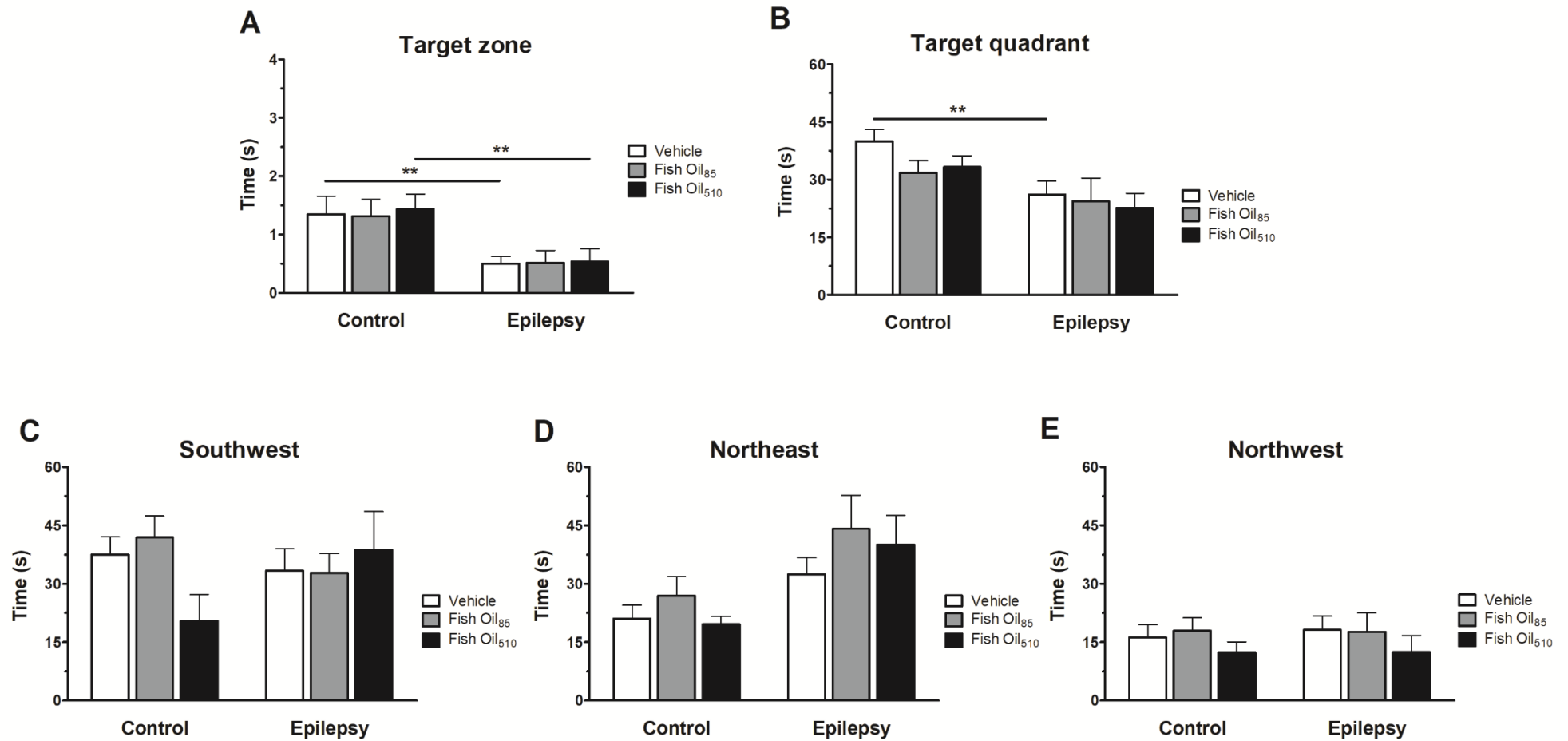


Supplementary material

Effects of fish oil supplementation on spatial memory in rats with pilocarpine-induced epilepsy, assessed using the Morris Water Maze test



[Tapez ici]

Supplementary figure 1. No beneficial effects of fish oil supplementation were detected on memory performance in epilepsy rats during Probe Trial 2. Both vehicle- and fish oil-treated epilepsy rats spent a relatively shorter time in the target zone (**A**) and target quadrant (**B**). Such behaviour indicates that epilepsy rats did not remember the location of the platform. The time spent by the animals in the southwest (**C**), northeast (**D**), and northwest (**E**) quadrants were also measured. Data are presented as mean \pm SEM. Statistical significance is expressed ** for $p < 0.01$; two-way ANOVA followed by Fisher's LSD post hoc comparisons. CV: control animals treated with vehicle; CFO₈₅: control animals treated with 85 mg/kg fish oil; CFO₅₁₀: control animals treated with 510 mg/kg fish oil; EV: animals with epilepsy treated with vehicle; EFO₈₅: animals with epilepsy treated with 85 mg/kg fish oil; EFO₅₁₀: animals with epilepsy treated with 510 mg/kg fish oil.

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Epileptic
Disorders

Supplementary table 1.

Time spent by the animals in the target zone and pool quadrants of the Morris Water Maze (Probe Trial 2)				
Two-way Measures Analysis of Variance				
	Effect	Degree of (Freedom)	F	<i>p</i>
Target zone	Intercept	1	96.588	< 0.0001
	Group	1	19.225	< 0.0001
	Treatment	2	0.168	0.8453
	Treatment*Group	2	0.158	0.8537
	Error	83		
Target quadrant	Intercept	1	306.955	< 0.0001
	Group	1	10.859	0.0014
	Treatment	2	1.214	0.3022
	Group*Treatment	2	0.270	0.7639
	Error	83		
Southwest quadrant	Intercept	1	176.751	< 0.0001
	Group	1	0.079	0.7795
	Treatment	2	1.001	0.3720
	Group*Treatment	2	2.344	0.1023
	Error	83		
Northeast quadrant	Intercept	1	153.710	< 0.0001
	Group	1	8.595	0.0044
	Treatment	2	1.254	0.2907
	Group*Treatment	2	0.085	0.9185
	Error	83		
Northwest quadrant	Intercept	1	98.321	< 0.0001
	Group	1	0.004	0.9469
	Treatment	2	1.765	0.1776
	Group*Treatment	2	0.128	0.8798
	Error	83		

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Supplementary table 2.

Time spent by the animals in the target zone and pool quadrants of the Morris Water Maze
(Probe Trial 2)

Fisher's least significant difference (LSD) post hoc analysis (*p* values)

Group	Treatment	Target zone	Target quadrant	Northeast quadrant
Control vs Epilepsy rats	Vehicle	0.0042	0.0128	0.1426
	FO ₈₅	0.0547	0.2062	0.0679
	FO ₅₁₀	0.0069	0.0520	0.0872

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