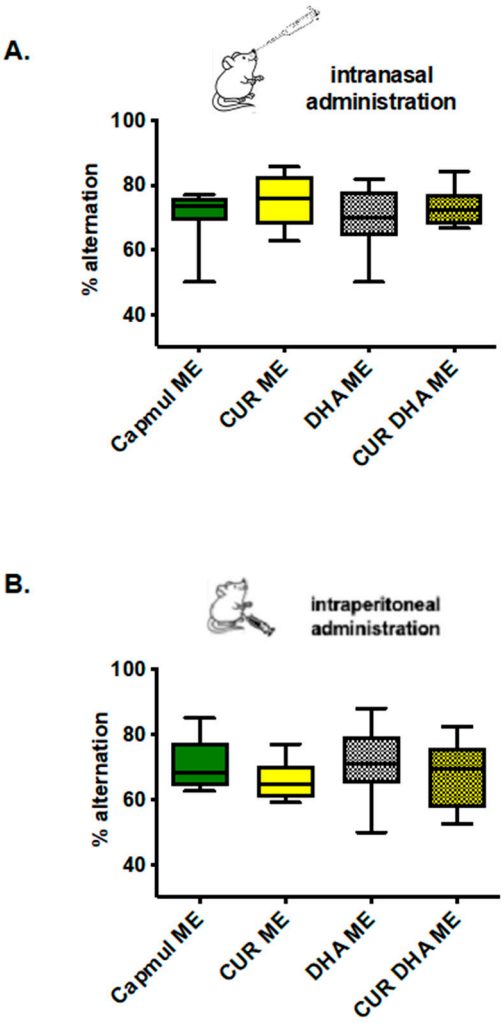
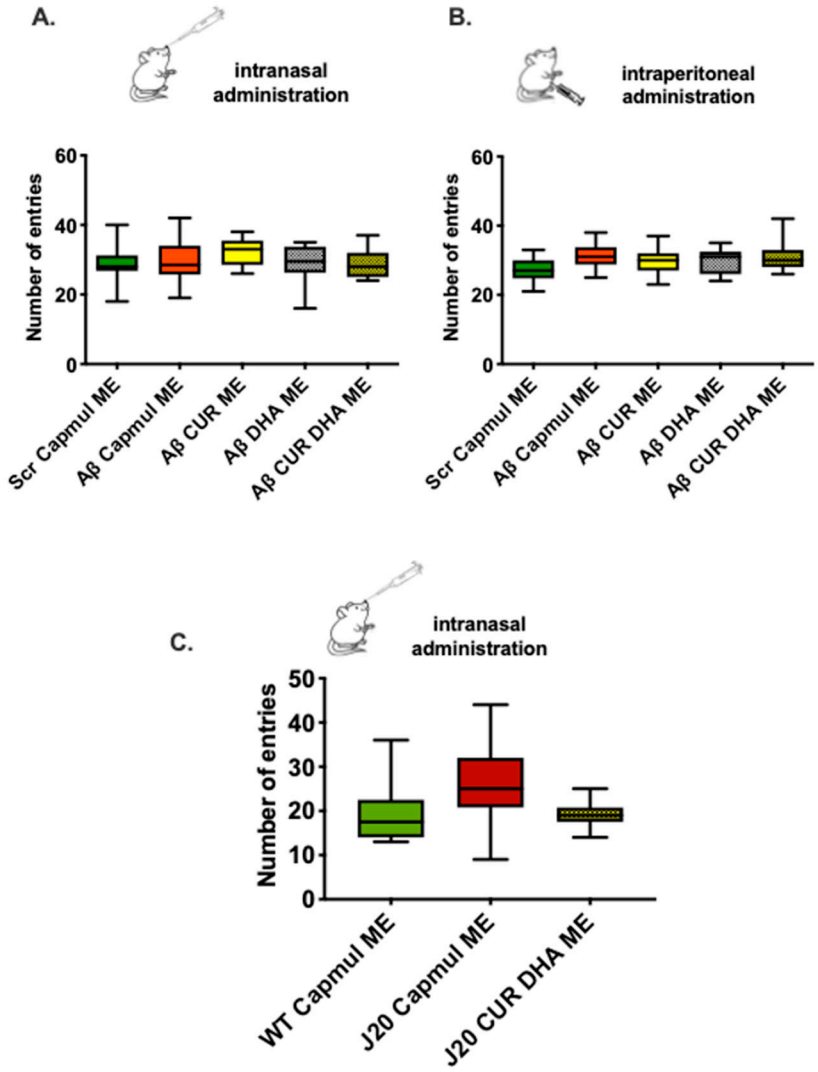
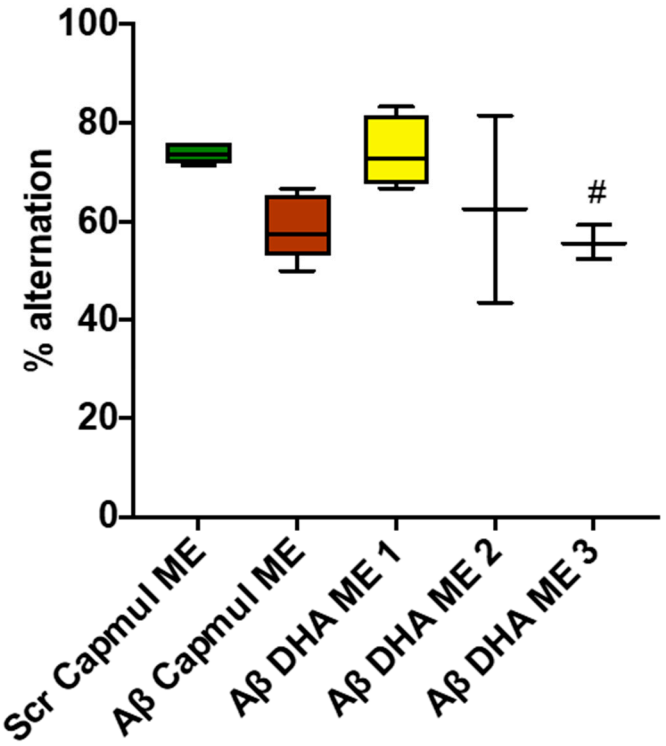



**Suppl. Figure S1**: Effect of intranasal or intraperitoneal administration of CUR, DHA and CURDHA MEs on working memory in scrambled $A\beta_{25-35}$ peptide-injected mice. Effect of intranasal (**A**) or intraperitoneal (**B**) administration of MEs on spatial working memory was measured after 4 days of treatment with either Capmul ME (vehicle), CUR-ME, DHA-ME or CURDHA-ME in scrambled $A\beta_{25-35}$ peptide-injected mice. All the results represent the percentage of alternation and are expressed as whiskers (min to max). No significant differences were observed (One-Way ANOVA).




**Suppl. Figure S2:** Effect of intranasal or intraperitoneal administration of CUR, DHA and CURDHA-MEs on locomotion in oA$\beta_{25\text{-}35}$-injected mice and J20 mice. Locomotion (number of entries in the Y-Maze) was assessed 7 days after intracerebroventricular peptide injection in oA$\beta_{25\text{-}35}$ injected mice or in 4-months old J20 mice. A & B. Effect of intranasal (**A**) or intraperitoneal (**B**) administration of MEs was measured the day after 4 days' treatments in oA$\beta_{25\text{-}35}$ injected mice. C. Effect of intranasal administration of MEs was measured after a 4 week-treatment in J20 mice. Capmul ME was used as a vehicle. All the results represent the number of entries and are expressed as whiskers (min to max). No significant differences were observed (One-Way ANOVA).




**Suppl. Figure S3:** Effect of intranasal administration of DHA-MEs after different times of storage on working memory in oA$\beta_{25\text{-}35}$-injected mice. Spatial working memory was assessed in the Y-Maze 7 days after intracerebroventricular scrambled (Scr) or oA$\beta_{25\text{-}35}$ (Aβ) peptide injection. Effect of intranasal administration of DHA MEs after different times (1, 2 or 3 months) of storage at 4°C was measured after 4 days of treatment (One-Way ANOVA followed by a Tukey post-hoc test, $^{\#}p<0.05$ *vs* Scr Capmul ME group). Scrambled and Aβ-injected mice received a ME containing Capmul oil as vehicle. All the results represent the percentage of alternation and are expressed as whiskers (min to max).