

Figure S1. Effect of exercise and the combined action of exercise and catechin treatment on familiarization phase in the novel object recognition test in old rats. Bars represent the mean \pm SEM of the total time spent exploring each object (1, left object; 2, right object) of animals subjected to exercise (Exerc, $n = 7$) and the exercise plus catechin treatment group (Exerc + Cat, $n = 7$) respect to the control group ($n = 7$). $**p < 0.01$, $***p < 0.001$ when compared to the control group.

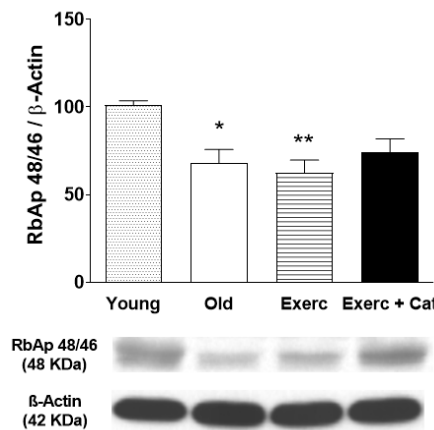


Figure S2. Effect of exercise and the combined action of exercise and catechin antioxidant treatment on RbAp 48/46 (48 kDa) protein expression in hippocampus of old rats. Bars represent mean \pm SEM of protein levels per group (animals subjected to exercise, Exerc, $n=7$; exercise together with catechin, Exerc + Cat, $n=7$; old control group, Old, $n=6$) expressed as percentage relative to the young group ($n=6$). Protein level was normalized to β -actin content and each sample was analyzed in three different membranes. One-way ANOVA detected a significant effect ($F(3,22)=6.052$, $p=0.0036$). $*p<0.05$, $**p<0.01$ when compared with young animals in the control group (one-way ANOVA, followed by Bonferroni test). A representative immunoblot of the changes obtained in RbAp 48/46, with no changes in β -actin (loading pattern), is shown below graph.