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Title :	Effect of <i>Prunus domestica</i> L. (Mirabelle) on learning and memory in mice
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Abstract :	<p>Introduction: Plums have been known to have various pharmacological activities.</p> <p>Object: With regard to the antioxidant and antidyslipidemic activities of plums, the aim of the present study was to evaluate the effect of short-term administration of hydro-alcoholic extract of Mirabelle plum, in mice using the passive avoidance learning (PAL) and memory performance.</p> <p>Methods: twenty-eight male Mice were randomly divided into 4 groups (n=7each) one control and three Mirabelle plum (75, 100, 150 mg/kg) groups. The control group received saline and Mirabelle groups, received the extract, by oral gavage for 7 days. Memory and learning were evaluated using passive avoidance test. The number of trials to acquisition, step through latency (STLr) in the retention test and the time spent in the dark compartment during the retention test (TDC) were measured. Differences between groups were tested by one-way ANOVA with Tukey post-hoc test.</p> <p>Results: A significant difference was found in the number of trials to acquisition between the groups. The results also indicated in the retention test, administration of 75 and 100 mg/kg Mirabelle plum caused an increased STLr (compared to the untreated control group). The results also showed that the total time spent in the dark compartment by the animals of the extract groups was lower than that of the control group.</p> <p>Conclusion: Hydro-alcoholic extract of plum has significant effect on learning and memory in passive avoidance task. It can be concluded that antioxidant and antidyslipidemic activities may be involved in the obtained effects.</p>
Keywords :	<i>Prunus domestica</i> L., learning, Memory, mice ,