

عنوان مقاله:

Ameliorative effect of ginger extract against methotrexate effect of liver tissue

محل انتشار:

کنگره توسعه همکاری های علمی منطقه ای علوم صنایع غذایی و کشاورزی (سال: 1397)

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خلاصه مقاله:

This study was designed to investigate the role of ginger (*Zingiber officinalis*) in the inhibition of genotoxicity and histopathological effects of methotrexate (MTX) in liver tissues of female albino mice. The genotoxic effects of MTX at a dose of 0.5 mg/ kg and ginger extract at doses (25,50) mg kg were analyzed, as well as protective activity of this extract against MTX. The results revealed that high genotoxicity effects of MTX in liver tissues by increasing DNA fragmentation, the absence of toxicity and genotoxicity for ginger extract, in addition, the inhibitory efficiency of ginger extract against the toxicity and genotoxicity of MTX, by reducing DNA fragmentation specially at the dose 50 mg kg, histological sections of liver of MTX group revealed many changes. Ginger extracts exhibited hepatoprotective effect by lowering these changes in both doses but 50 mg/kg was the most effect to degree that similar of negative control. From this result we can concluded that this plant have a promising medicinal plant for protect liver cells from cyto-genotoxic effects.

کلمات کلیدی:

Ginger, Methotrexate, Dna fragmentation, Liver

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