

WATERY EXTRACT AND METHONOLIC EXTRACTION OF *NERIUM OLEANDER* EFFECT ON MICROTUBULES OF H22 CELL AND PROGRAMMED CELL DEATH .

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ABSTRACT

The study evaluated the effect of selected Oleandrin and methonolic extraction of *Nerium oleander* on the microtubule network of H22 cells line (hepatic cell) GFP tubulin labeled .

Cells were treated with watery extract and methonolic extraction at various concentration from 0.01 μ /ml to 10m/ml for 60 min , , microtubules were detected by mean of indirect immune fluorescence. the damage was examined in a fluorescnce microscope .

Therapeutic effect of both extracts was studied in tumor-bearing mice after (I.P) administration of watery extract at concentrations of methonolic (16.5 , 8.1, 4.1mg/kg) and methonoloic extract at concentrations (20, 10, 5 mg/kg) for 30 days alternatively. The results revealed significant reduction in the tumor volume weather in those treated with watery extract 84.09%, or those treated with alcoholic extract 86.07%, particularly at the concentration of 16.5 mg/kg and 20 mg/kg respectively .