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Phytochemical screening and antitumor effect of ethanol extract of Egyptian wild plants

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It was proposed for decades that natural products are more safe in therapeutics as compared to synthetic drugs. The aim of this study was to screen ethanol extracts of four Egyptian plants (*Varthemia candidans*, *Peganum harmala*, *Suaeda vermiculata* and *Conzya dioscoridis*) to study their antioxidant activity *in vitro* using DDPH (50% DDPH inhibition) and phosphomolybdate assays (as equivalent ascorbic acid/g dry weight), in addition to the total phenolic and flavonoid contents were estimated to find possible sources for future novel antioxidants in food and pharmaceutical formulations. Moreover, the anticancer activity of plants extracts against HepG2 cells using MTT assay was studied. The results revealed that *Varthemia candidans* extract was the highest one in both polyphenol and flavonoid contents. Furthermore, 50% DDPH inhibition showed that *Suaeda vermiculata* extract exhibit lowest IC₅₀ against DDPH indicating it is the most effective. Taken together, the four investigated plants extract showed a potent antioxidant and antitumor activities that hold great promise to identify new natural therapeutic drugs. Further work is needed to study the mode of action of different extracts and more analyses to study their *in vivo* anticancer activities.

Biography

Thoria Diab did her PhD from Paul Sabatier University, Toulouse, France. She has 3 papers in reputed journals, *Journal of Hepatology* is one amongst them. She has presented an abstract in a conference in France, and a chapter in an electronic book (*Advances in Genome Science, Chapter 6*).

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