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Haloxylon as an alternative nanoscience medicine in treatment of cancer

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Cancer is a disease that affect about millions of Iraqi people in all age groups and both sexes. Most of current chemotherapeutic agents on the market are low index and lack of specificity with unwanted effects and cause significant damage to non-cancer tissues. Additionally are expensive. In Iraq the cancer level increased because of war using dirty weapons and low care of health and poor nutrition so pushed us to look for a new drug resources, cheap and easy to get from natural medicine. However we have looked to traditional medicines which have less resistance and effective in treatment of cancer with fewer side effects. Among screening of many traditional plants we found that some of these medicinal plant of a good efficient and significant value in treatment of cancer especially after extraction of active constituent from their leaves, fruits, stems and roots. Among these, Haloxylon, Loranthus ferruginous and Loranthus europeus. In addition using gold which one of inert materials. The activity of these natural materials when mixed with vincristine has shown tremendous result. This potentiation lead to decrease the dose and decrease the side effect of vincristine the structure and tunable surface functionality of these agents allows for the encapsulation of multiple entities may render them ideal drug deliver agents for various anticancer drugs which have ability to arrange excretion mode from body as a function of nanoscale diameter. From these result especially with Haloxylon active constituent may act as a new anticancer drug delivery or a new anticancer drug with high significant activity even with very low doses with low price and available resources from Iraqi desert, thus, this multifunctional unique small nanoparticulate has the potential to detect diseases, deliver medications which could change current scenario of cancer research and could be help in diagnosis at the same time. The extraction of active constituent materials includes alkaloid, flavonoids and terpenoid by using chromatography method (using a thimble of suxlet) with different organic solevents the alkaloid kills the cancer cells and flavonoids with terpenoids act as antioxidant which potentiat the anticancer activity of these natural agents.

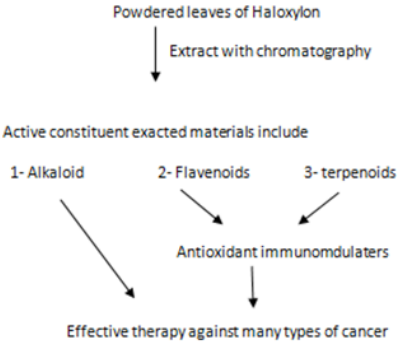


Figure 1: This diagram shows the summary of extraction of active constituent extracted from Haloxylon leaves.

Biography

Ali Awad Hamoud Al-jeboory has completed PhD at the age of 30 years from strathclyed University. He is the professor of Uruk Pharmacy College, Uruk Private University. Ali Awad Aljeboory has published 50 papers and has had 5 discoveries of new drugs from natural products antihypertensive and heart tonic. In addition serving as an editorial board member of Al-mustanseriah College of medicine journal. Also supervised 20 PhD graduated students in pharmacology, published two books in natural pharmacology and pharmacy. He was the director of Kufa College of medicine, head of the department of pharmacology, pharmacognosy in scientific research center, Head of the department of pharmacology and Therapeutics College of medicine Baghdad University. Now a days working as director of Uruk Pharmacy College.

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