

عنوان مقاله:

A Review on *Chenopodium botrys* L.: traditional uses, chemical composition and biological activities

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خلاصه مقاله:

Chenopodium botrys L. is native to Europe and Asia and adventive in much of North America. The plant has been used traditionally for medicinal purposes; generally, these therapeutic uses and health benefits of *C. botrys* are largely based on folklore rather than on scientific substantiation, making it a good candidate to gather documentations, including the phytochemical content, in vitro experiments, animal models and human studies available in the scientific studies. The herb contains flavonoids, alkaloids and several terpenoids. *C. botrys* of different origins yielded 0.08-2% essential oil. Pharmacological reports support medicinal potential of *C. botrys* for developing new drugs. Different isomers of ascaridole were identified in *C. botrys* oil from different origins. In some reports, these compounds were major constituents of the essential oil. Ascaridole has various properties including anthelmintic, antifungal, sedative and pain-relieving. Ascaridole also showed activity against different tumor cell lines in vitro. These data suggest that *C. botrys* may be an interesting novel candidate plant for cancer treatment, but many studies are needed to confirm this possibility.

کلمات کلیدی:

Chenopodium botrys L., Traditional uses, Chemical composition, Biological activities

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