

## عنوان مقاله:

Therapeutic potential of the plant-based compounds crocin and picrocrocin in cancer treatment

## محل انتشار:

سومین سمپوزیوم بین المللی سرطان نسترن (سال: 1396)

تعداد صفحات اصل مقاله: 1

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## خلاصه مقاله:

Cancer is the most important cause of mortality among humans and current treatments including chemotherapy and radiotherapy are often not effective and have adverse side effects. It has recently been determined that herbal compounds with different biological effects represent the main source of cancer prevention. Crocin, followed by picrocrocin, is one of the most important carotenoid and glycosidic compounds of *Crocus sativus* that have great therapeutic potential to treat cancer. This review reported the latest scientific evidence on the therapeutic effects of *C. sativus* secondary compounds on cancer. This review was conducted using relevant search terms to retrieve eligible articles published by the journals and congresses on medical sciences in Iran as well as the articles indexed in the Scopus, Scientific Information Database and PubMed. The crocin and picrocrocin in dried *C. sativus* extract have anticancer effects and can inhibit breast cancer cell lines MCF-7 and HepG2, cervical cancer cell line HeLa, colon cancer cell line HT-29 and pancreatic cancer cell line TCL in time- and dose-dependent manner. These compounds have also been found to exert significant effects on lung, pancreatic and bladder cancers in animal models, with increased longevity of the treated mice. It is particularly important to use plant-based compounds as anticancer agents due to comparatively fewer side effects. Crocin and picrocrocin are two of the most important compounds of *C. sativus* that have great potential, as safe natural agents, to prevent and treat different types of cancer. It is therefore necessary to pay further attention to the isolation and purification of the active pharmaceutical compounds of *C. sativus* as well as to explain the anticancer action mechanism(s) of this plant to develop drugs

## کلمات کلیدی:

Colon Cancer, Cancer Prevention, Cell and Cancer, Cancer Risks, Cancer Treatment and Management, Drugs and Cancer

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