

عنوان مقاله:

Quercetin decrease leptin gene expression in breast cancer

محل انتشار:

دهمین کنگره بین المللی سرطان پستان (سال: 1393)

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خلاصه مقاله:

Leptin plays the role of mitogenic factor in the breast carcinogenesis. Quercetin, a flavonoid that has existed in nature. The aim of this study was the investigation of potentiality of Quercetin for inhibition of leptin gene expression and secretion, and its link with expression of estrogen receptors. Cytotoxic effect of Quercetin on T47D breast cancer cells was investigated by MTT assay test after 24h treatments with different concentrations of Quercetin. The levels of leptin, estrogen receptor α and estrogen receptor β genes expression was measured by reverse-transcription real-time PCR. The amount of secreted leptin in the culture medium was determined by ELISA. Data were statistically analyzed by one-way ANOVA test. Quercetin inhibits growth of T47D cells in a time and dose dependent manner. There was significant difference between control and treated cells in the levels of leptin, estrogen receptor β expression levels and the quantity of secreted leptin was decreased in the treated cells in comparison to control cells. In conclusion, Quercetin inhibits the expression and the secretion of leptin and in the future it might probably be a drug candidate for breast cancer therapy through leptin targeting.

کلمات کلیدی:

Leptin, Quercetin, Breast cancer, T47D cell line

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