

## عنوان مقاله:

EVALUATING THE OF THE EXTRACTED SUPERNATANT OF LACTOBACILLUS GASSERI CONTAIN MEDIUM ON THYROID CANCEROUS CELL LINES; USING MTT METHOD

## محل انتشار:

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## خلاصه مقاله:

**Background and Aim:** Cancer occurs as a result of uncontrolled cell division that is caused by environmental factors and genetic disorders. Thyroid cancer is the most common malignant tumor of the endocrine system. Undifferentiated carcinomas include approximately 10-15% of all thyroid carcinomas. It usually appears in the 7th and 8th decades of life and includes some of the most malign human neoplasms. Probiotics are living organisms that, if consumed, will have effective healing effects for their host. Probiotics are effective in the treatment of cancers. Lactobacillus is one of the most important probiotics. Gram-positive organisms are able to grow under anaerobic or low-oxygen conditions. Lactobacillus gasseri is a probiotic isolated from breast milk. **Methods:** First, the supernatant of Lactobacillus gasseri was prepared in different volumes of 7.81, 15.6, 31.25, 62.5, 125, 250, 500  $\mu$ L of cell suspension in a volume of 1200  $\mu$ L from the cell culture medium. The effect of supernatant Lactobacillus gasseri on the cancer cell line The thyroid C643 carcinoma were examined by MTT. The survival rate of testicular and thyroid cancer cells was calculated. **Results:** Treatment of thyroid cancer cells (C643) with different volumes of probiotic suspension showed that higher volumes of cytotoxicity were higher and the survival rate of cancer cells decreased. **Conclusion:** Supernatant Lactobacillus gasseri can be used as a candidate for the treatment of thyroid cancer.

## کلمات کلیدی:

Lactobacillus gasseri, MTT, thyroid cancer

## لینک ثابت مقاله در پایگاه سیویلیکا:

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