

## عنوان مقاله:

Insights into the Antimicrobials and anti-cancers drugs of bacterial origin

## محل انتشار:

چهارمین کنگره بین المللی توسعه کشاورزی، منابع طبیعی، محیط زیست و گردشگری ایران (سال: 1398)

تعداد صفحات اصل مقاله: 21

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## خلاصه مقاله:

Approximately 17 million deaths are reported by WHO per year due to infectious diseases caused by microscopic germs. Bacteria is one of the primary sources of infectious diseases. Some bacteria are carcinogens. With the passage of time, the pathogens are developing resistance to chemotherapy and antimicrobials. Therefore, the treatment of cancers and infectious diseases is becoming a challenge. That calls for an urgent need of new anticancer and antimicrobial drugs, that are more effective. Then as the saying goes Diamond cuts diamond, in recent decades, studies have shown that some cells of bacteria have the potential to inhibit growth or kill others of their own type. Hence proposing the solution to the problem, they and their kind created. Bacteriocin is a protein toxin of bacterial origin that can kill other microbes. Antimicrobial peptides (AMPs) from bacteriocins are ribosomally synthesized, that can disrupt the cell membrane of the target cell, hence killing it. AMPs shows intense cytotoxicity to pathogens as compared to host cells. Recent studies have shown that there are many bacteria and bacterial products that have antimicrobial and anticancer properties. The aim of the article is providing a brief summary of the recent literature on the anticancer and antimicrobial drugs of bacterial origin.

## کلمات کلیدی:

Bacteria, Antimicrobial, Anticancer, , Proteins, , Bacteriocins

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