

عنوان مقاله:

An in Silico Survey on Therapeutic Products of Marine Bacteria, an Introduction for Development Approaches ofCancer Prevention and Cancer Therapy

محل انتشار:

اولین سمپوزیوم بین المللی سرطان نسترن (سال: 1394)

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خلاصه مقاله:

Anti-cancer, anti-fungal and antibiotics effects are some properties of the marine bacteriaproducts with scientific untapped capabilities. Therefore, these bacteria and their productscould be providing a major promising source for cancer therapy and cancer prevention. Bearing in mind, the assessment of therapeutic products of these bacteria and their structure, function, compound as well as critical genes, which are involved in production and effectiveness, were investigated in this study. In this regard, a comprehensive profile ofmarine bacteria and corresponding therapeutics products as well as related molecularmechanisms were collected, and then assessment based on statistical and insilico analysis. Our survey revealed that these products not only have anti-cancer effects but also possesscurative properties on genetics, infections, heart, gastrointestinal, autoimmunity andmetabolite disorders. Meanwhile, this study showed that the most of these products whichwere secondary metabolites, with various compounds, could be derived from actinomycetesand cyanobacteria. On the other hand, comparative studies demonstrated that colon canceris suitable candidate for treatment via these products. Moreover, homology and structuresearch of nucleotide sequences of selected genes, which were involved in metabolitesproduction, lead to discovery a different species of bacteria with anti-cancer capacity and designing a new genetics construct for development anti-cancer probiotic strains. Takentogether, the results of this research while provide a comprehensive profile of therapeuticsmetabolites, lead to disclose a series of bacteria with anti-cancer capacity and also a newgenetics construct which ought to be .more experimental analysis

کلمات کلیدی:

Cancer, Marine Bacteria, Metabolite, Probiotic, In Silico

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