

2nd WORLD OBESITY CONGRESS

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International Conference on

DIABETES AND ENDOCRINOLOGY

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2nd WORLD VACCINES AND IMMUNOLOGY CONGRESS

October 15-16, 2018 | Tokyo, Japan

Biomed Res 2018, Volume 29 | DOI: 10.4066/biomedicalresearch-C5-014

CANCER IMMUNOTHERAPY WITH USING BACTERIA

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Cancer cells escape from the immune system this subject is nearly because the tumor is a normal body tissue that has been out from its normal state. So, the body does not consider it as an invader. On the other hand, some cancers have evolved in a way that they can deal with the immune system or hide from it. During recent research and studies cancer cells can be detected by using a variety of bacteria to body's defense mechanism notice their presence and attack them. Bacteria are used in many ways in the treatment of cancer that we can point to the direct anti-tumor effects in them or transfer of effective factors. Bacterial treatments are unique mechanisms for cancer treatment which standard methods do not have access to it. Bacteria can specifically target tumors and actively penetrate the tissue, search and create a controlled form of infection. In this regard, the important point is the ability to determine the location of bacterial colonies in clinical terms and possibility of diagnosis of ambiguous tumors and metastasis by the agents. For example, Diphthera toxin (DT) is attached to the surface of the cells expressing the precursor of HB-EGF and through endocytosis intermediate clattering enter and under a few changes after translation catalytically active and finally by inhibiting protein synthesis, cell lysis and apoptosis induction is effective in treating the mass of cancer cells with this method.

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