

Novel Anti-Cancer Vaccine: Inhibition of Tumor Stat3 Expression

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Technology description

Researchers at the University of South Florida have developed a new anti-cancer vaccine for treatment of a wide range of cancers. In vitro and in vivo data indicate that the vaccine developed by our investigators targets Stat3 activity in tumor cells, which allows the tumor cells to produce pro-inflammatory cytokines that activate immune cells, such as dendritic cells cytotoxic T cells, and macrophages. These activated immune cells are then able to recognize and eliminate tumor cells in the patient. Stat3 activity is high in a variety of tumor cells, so this technology has great potential as a therapeutic anticancer vaccine for a range of cancer types, including, but not limited to colon, breast, bladder, prostate, and lung cancers.

Institution

[University of South Florida](#)

联系我们



叶先生

电话：021-65679356

手机：13414935137

邮箱：yeyingsheng@zf-ym.com