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US researchers develop immunity injections against cancer

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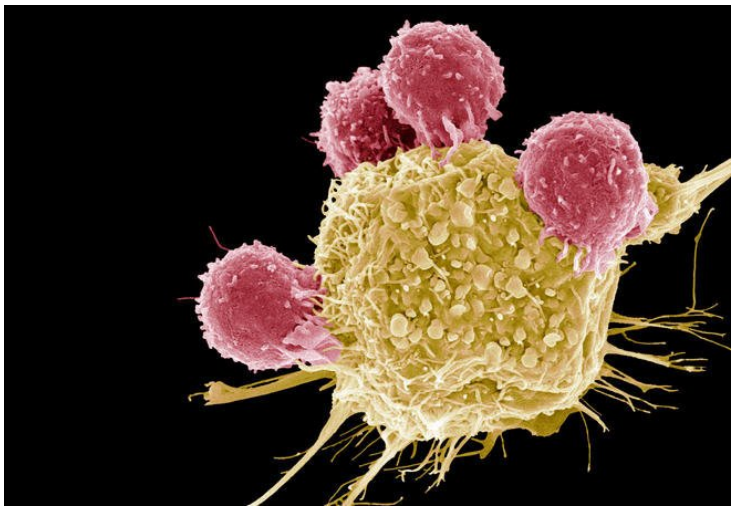

A group of researchers at the Stanford University School of Medicine, US has developed two immune-stimulating injections that removed all traces of cancer when injected directly into solid mouse tumors.

The immune-stimulating injections were shown to not only kill cancer cells within the tumors, but also kill the metastases present distantly at other sites in the body.

One of the injections is already approved for human use, whilst the other is currently in clinical trials for unrelated conditions. A clinical trial for using both the injections in combination began in January 2018, and it will assess the effectiveness of the treatment in patients with lymphoma.

The new drugs consist of a short DNA fragment called a CpG oligonucleotide and an antibody that binds to OX40, an activating receptor found on the surface of T cells. Activation of T cells by the antibody allows them to recognize and attack the cancer cells.

Experts believe that this is one of the biggest breakthroughs in modern day cancer research, and is likely to benefit millions of cancer patients as it is effective against various cancers.