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Searching Cytotoxic T Cells for Destroying Target Invading Cells

Alireza Heidari[1,2,3,4,*], Ricardo Gobato[5,6] and Abhijit Mitra[7]

[1]Faculty of Chemistry, California South University, 14731 Comet St. Irvine, CA 92604, USA
[2]BioSpectroscopy Core Research Laboratory, California South University, 14731 Comet St. Irvine, CA 92604, USA
[3]Cancer Research Institute (CRI), California South University, 14731 Comet St. Irvine, CA 92604, USA
[4]American International Standards Institute, Irvine, CA 3800, USA
[5]Green Land Landscaping and Gardening, Seedling Growth Laboratory, Bela Vista do Paraíso, 86130-000, Parana, Brazil
[6]Secretary of Education and Sports of the State of Parana, Laboratory of Biophysics and Molecular Modeling Genesis, Parana, 86130-000, Brazil
[7]Department of Marine Science, University of Calcutta, 35 B. C Road, Kolkata, 700019, West Bengal, India

***Corresponding Author:** Alireza Heidari, Faculty of Chemistry, California South University, 14731 Comet St. Irvine, CA 92604, USA, email id: Scholar.Researcher.Scientist@gmail.com; Alireza.Heidari@calsu.us; Central@aisi-usa.org

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Abstract

A groundbreaking study led by engineering and medical researchers at the California South University (CSU) shows how immune cells engineered in new cancer therapies can overcome physical barriers so that the patient's own immune system can fight tumors. This research could improve the future of millions of cancer patients worldwide. Immunotherapy, instead of using chemicals or radiation, is a type of cancer treatment that helps the patient's immune system fight cancer. T cells are a type of white blood cell that is essential for the body's immune system. Cytotoxic T cells are like soldiers searching for and destroying target invading cells. Although there has been success in using immunotherapy for some types of cancer in the blood or blood-producing organs, T cell work is much more difficult in solid tumors.

Keywords: Cancer; Cells; Tissues; Tumors; Prevention; Prognosis; Diagnosis; Imaging; Screening, Treatment; Management

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Introduction

The tumor acts as a barrier, making it harder for T cells to reach cancer cells. With the help of science and engineering, these T cells enter the tumors, but they cannot move well and go to their required place before running out of fuel and overcoming fatigue. In this first study, researchers are working on engineering T cells and creating engineering design criteria to mechanically optimize cells or make them more suitable for overcoming obstacles. If these immune cells can detect and reach cancer cells,

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then they can kill the tumor. In the fibrous mass of a tumor, tumor stiffness causes the immune cells to almost double in size and flow like sand. This study is our first release in which we have identified some structural and signaling elements in which we can regulate these T cells. To make cancer fighters more effective among them. Each "barrier pathway" within a tumor is slightly different, but there are many similarities between them. After engineering these immune cells, we found that they travel through the tumor almost twice as fast, regardless of the barriers. To engineer cytotoxic T cells, the authors used advanced gene editing technologies (also called genome editing) to modify T cell DNA to better cross tumor barriers. The ultimate goal is to slow down cancer cells and speed up engineered immune cells. Researchers are trying to create cells that are proficient in overcoming different types of barriers. When these cells are mixed together, they reach the main goal, which is to cross the group of immune cells through different types of barriers to reach the cancer cells. The next step is to continue to study the mechanical properties of cells to better understand how immune cells and cancer cells interact. Researchers are studying immune cells engineered in rodents and are planning clinical trials in humans in the future. While early research focused on pancreatic cancer, Provenzano said the techniques they are developing could be used in many types of cancer. Using cell engineering to fight cancer is a relatively new field. This approach allows a completely personalized approach to applications to be developed for a wide range of cancers. Researchers are expanding a new study to find out how our bodies can fight cancer. This can have a big impact on the treatment process in the future [1-567].

Results and Discussion

Cancer treatments have long been limited to items such as chemotherapy and radiation, but more effective methods have emerged in recent years. Scientists at the University of Konstanz in Germany have now found that combining two experimental methods - vaccines and immunotherapy - can help increase success in treating mouse models. The team began with a cancer vaccine consisting of micrometer-sized particles containing a tumor protein and a molecule called rib oxime. This vaccine teaches the immune system how to attack cancer cells. Rib oxime activates T cells and the tumor protein tells them what to attack. Experiments on mice showed a strong anti-tumor response even at very low doses, but the tumors began to return after about 30 days. This is due to a natural process by which the body regulates the immune system to prevent rogue and damage to its own cells. As you know, cancer and all types of cancerous tumors are cells of the human body and due to improper cell cycle and lack of control, these cells turn into cancer or cancerous tumors, so the team combined the vaccine with another type of treatment, immunotherapy. In this way, new drugs are added to reduce this inhibitory effect, which is to suppress the attack on one's own cells, and allow the body's immune system to continue its fight against cancer. The anti-cancer vaccine alone is only about 20 percent successful in humans, but the research team found that combining inhibitory drugs with the vaccine increases this success.

Conclusions

Mice tested for immunotherapy and vaccine were 75 percent more likely to recover than mice tested for vaccine alone. This new treatment with a promising vaccine is a promising treatment for a variety of cancers, including prostate cancer and breast cancer. The German team has announced that the new method is now being tested in a phase 1 human experiment.

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