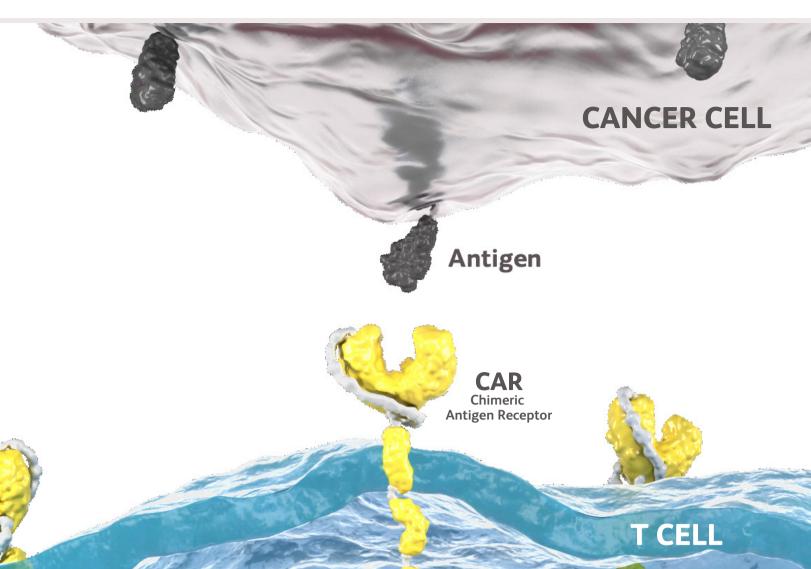
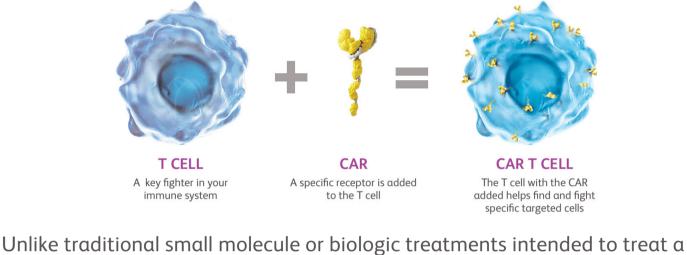
Targeting Cancer with CAR T Cell Therapy



CAR T cell therapy reprograms immune cells for a personalized attack on cancer

Autologous chimeric antigen receptor (CAR) T cell therapy is a type of immunotherapy that has the potential to work with a patient's immune system by reprogramming their T cells (or fighter cells) to recognize and bind to proteins (tumor-associated antigens) found on the surface of certain cells, including cancerous and/or healthy cells that may also express the tumor-associated antigen.



broad range of patients, autologous CAR T cell therapy is specifically manufactured for each individual patient using their own T cells. After a one-time infusion, the CAR T cells can continue to multiply in the patient's body after being administered.

scientifically engineered manufacturing process

Creating CAR T cell therapies involves a

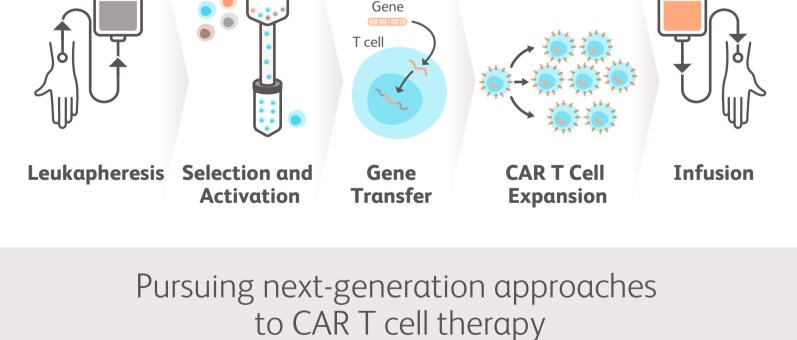
complex engineering process starts with collection of the patient's T cells through a process called apheresis, or leukapheresis. The collected sample is then shipped to the manufacturing facility for engineering of CAR T cells.

Next, a gene that encodes the CAR – which binds to a specific protein (tumor-

As autologous CAR T cells are manufactured for each individual patient, the

associated antigen) found on cancer cells and is linked to T cell activation domains – is inserted into the patient's T cells, thereby reprogramming them into CAR T cells that can bind to targeted tumor cells, resulting in CAR T cell activation, expansion and tumor-killing activities.

Millions of the engineered CAR T cells are then grown in the strictly controlled manufacturing facility before they are infused to the patient.

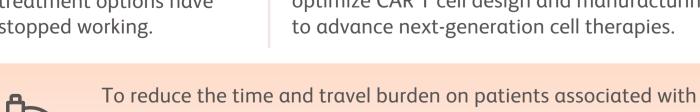


Research suggests that, with a single treatment, Because autologous CAR T cell therapies are made specifically for each individual patient,

CAR T cell therapy has been effective at producing clinically meaningful, deep and durable responses in patients where other treatment options have stopped working.

the manufacturing process is complex and involves close coordination across manufacturing facilities and healthcare teams.

Bristol Myers Squibb is evaluating ways to optimize CAR T cell design and manufacturing





receiving CAR T cell therapies at certified referral institutions, BMS is also researching ways to bring CAR T cell therapy closer to patients safely and effectively.



In addition, BMS is conducting early research into multiple diverse approaches to cell therapy, such as allogeneic CAR T cells, which are made from T cells of healthy donors instead of using the patient's own reprogrammed T cells, as in the autologous approach.



Click here to learn more about Bristol Myers Squibb's ongoing cell therapy research.