




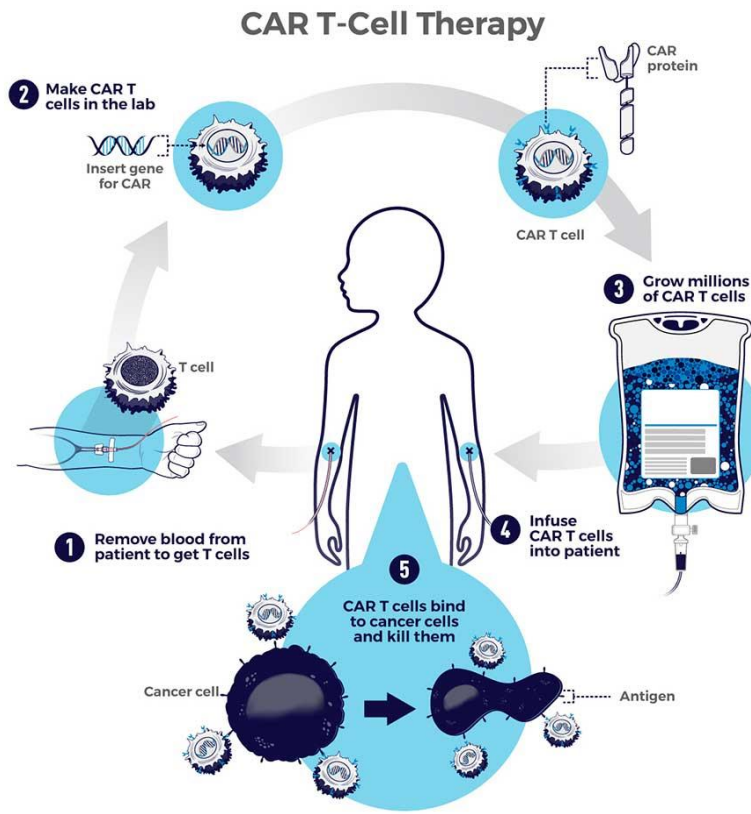
14 October 2023

National and International News

<p>'World Athlete of Year' award</p> 	<p>Context Neeraj Chopra was named as one of the 11 nominees for the 2023 men's 'World Athlete of the Year' award.</p> <p>Key points:</p> <ul style="list-style-type: none"> • Olympic and World champion javelin thrower. • The winners of the 'World Athlete of the Year' award will be revealed on World Athletics' social media platforms on December 11.
<p>Cricket will be part of the 2028 Olympics</p>	<p>Context</p> <ul style="list-style-type: none"> • Cricket to feature in the 2028 Olympics <p>Key points:</p> <ul style="list-style-type: none"> • The International Olympic Committee approved Cricket to be part of the 2028 Olympics. • T20 format for men and women <p>Did you know?</p> <ul style="list-style-type: none"> • Compound archery is not part of the 2028 Olympics. • Los Angeles to host the 2028 Olympics. • The 2028 Summer Olympics is officially known as the Games of the XXXIV Olympiad.
<p>India's 1st CAR-T cell therapy gets CDSCO nod</p>	<p>In news:</p> <ul style="list-style-type: none"> • India's 1st CAR-T cell therapy developed by ImmunoACT gets CDSCO nod. <p>Did you know?</p> <ul style="list-style-type: none"> • Mumbai-based Immunoadoptive Cell Therapy Private Limited (ImmunoACT) has received approval from the Central Drugs Standard Control Organization (CDSCO) for India's first Chimeric Antigen Receptor T-cell (CAR-T cell) therapy. • The therapy, called NexCAR19, is a CD19-targeted CAR-T cell therapy product used to treat relapsed/refractory B-cell lymphomas and leukemia.



Daily Current Affairs Encyclopedia




CAR T-cell therapy is a type of treatment in which a patient's T cells are genetically engineered in the laboratory so they will bind to specific proteins (antigens) on cancer cells and kill them. (1) A patient's T cells are removed from their blood. Then, (2) the gene for a special receptor called a chimeric antigen receptor (CAR) is inserted into the T cells in the laboratory. The gene encodes the engineered CAR protein that is expressed on the surface of the patient's T cells, creating a CAR T cell. (3) Millions of CAR T cells are grown in the laboratory. (4) They are then given to the patient by intravenous infusion. (5) The CAR T cells bind to antigens on the cancer cells and kill them.

cancer.gov

<p>Chimeric Antigen Receptor T-cell (CAR-T cell) therapy</p>	<p>About</p> <ul style="list-style-type: none"> • CAR-T cell therapy stands for chimeric antigen receptor T cell therapy. • It is a type of cancer immunotherapy that uses the patient's own T cells, genetically modified in a laboratory to enhance their ability to locate and destroy cancer cells. <p>Did you know?</p> <ul style="list-style-type: none"> • CAR-T cell therapy is effective against certain types of cancer, especially when other treatments are ineffective.
<p>Biden awards \$7 bn for Clean Energy Projects</p>	<p>In news:</p> <ul style="list-style-type: none"> • Biden administration awards \$7 billion program to kickstart Clean Energy Projects. <p>Key points:</p> <ul style="list-style-type: none"> • Invest in the development and production of hydrogen fuel. • Aims to establish seven regional hydrogen hubs to help replace fossil fuels.



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	<ul style="list-style-type: none"> Aims to achieve the President’s vision of a strong clean energy economy” and net-zero greenhouse gas emissions in the U.S. by 2050.
<p>Operation Ajay</p>	<p>About:</p> <ul style="list-style-type: none"> Operation Ajay is a mission launched by the Indian government. It aims to evacuate its citizens from Israel during the ongoing conflict with the Hamas group in Gaza.
<p>Ninth G-20 Parliamentary Speakers’ Summit (P-20)</p>	<p>Context</p> <ul style="list-style-type: none"> Ninth G-20 Parliamentary Speakers’ Summit was held in New Delhi. <p>Key points</p> <ul style="list-style-type: none"> The event was held at the Yashobhoomi Convention Centre in New Delhi’s Dwarka area. The unanimous adoption of the Joint Declaration at P-20 Bharat exemplified the spirit of Vasudhaiva Kutumbakam.
<p>Three main ethnic groups of Sikkim: Lepchas, Bhutia, and Nepalese</p> 	<p>Context</p> <ul style="list-style-type: none"> Lepchas, Bhutia, and Nepalese are the 3 main ethnic groups of Sikkim. <p>Other key points</p> <ul style="list-style-type: none"> Rangpo and Singtam were affected areas of recent flash floods in Sikkim. The South Lhonak glacial lake burst caused the flash floods.

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