




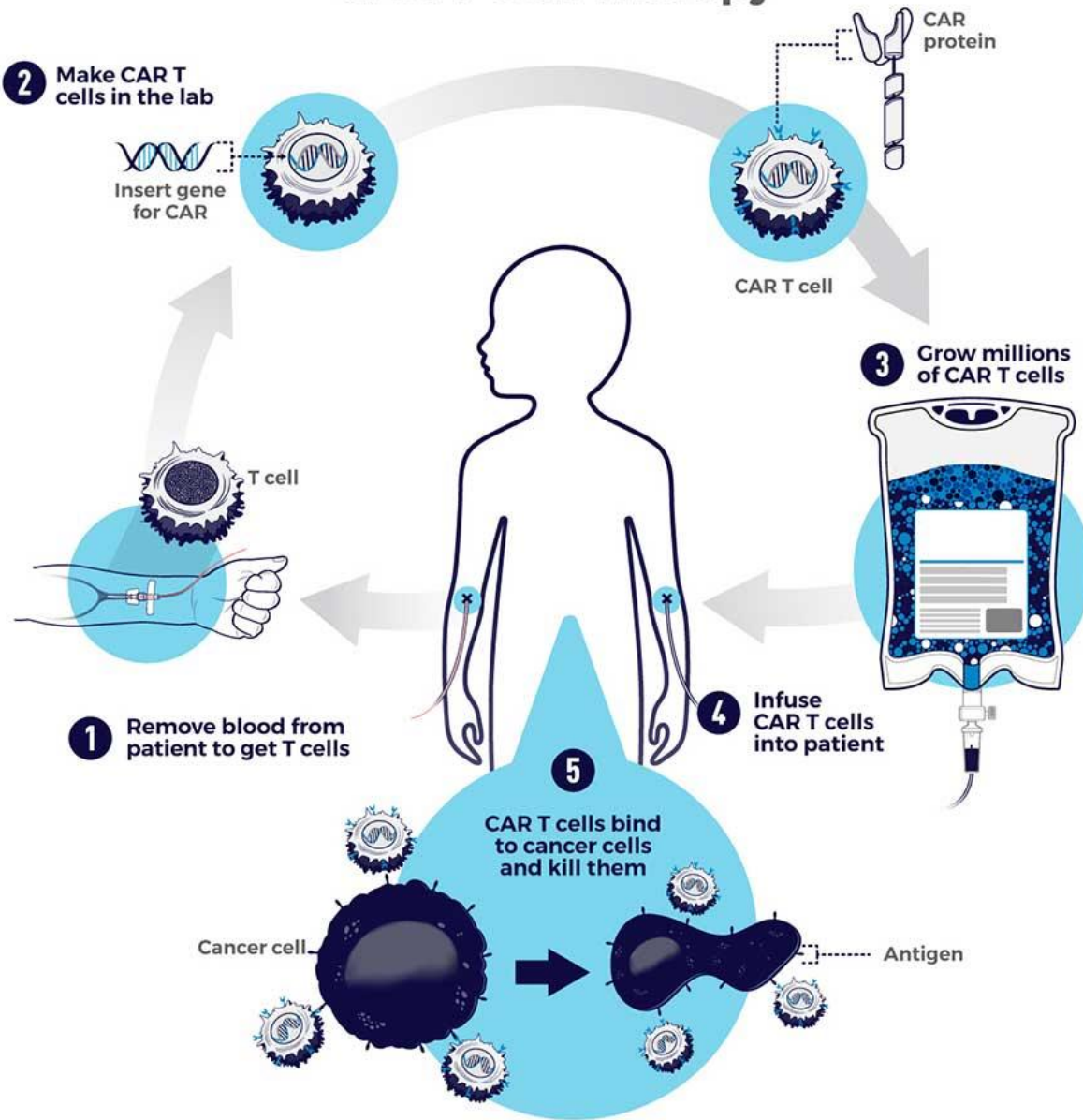
14 October 2023

## National and International News

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



### CAR T-Cell Therapy



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

Chimeric Antigen Receptor

About



## Daily Current Affairs Encyclopedia

<p><b>T-cell (CAR-T cell) therapy</b></p>	<ul style="list-style-type: none"> <li>• CAR-T cell therapy stands for chimeric antigen receptor T cell therapy.</li> <li>• 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.</li> </ul> <p><b>Did you know?</b></p> <ul style="list-style-type: none"> <li>• CAR-T cell therapy is effective against certain types of cancer, especially when other treatments are ineffective.</li> </ul>
<p><b>Biden awards \$7 bn for Clean Energy Projects</b></p>	<p>In news:</p> <ul style="list-style-type: none"> <li>• Biden administration awards \$7 billion program to kickstart Clean Energy Projects.</li> </ul> <p>Key points:</p> <ul style="list-style-type: none"> <li>• Invest in development and production of hydrogen fuel.</li> <li>• Aims to establish seven regional hydrogen hubs to help replace fossil fuels.</li> <li>• Aims to to achieve the President's vision of a strong clean energy economy" and net-zero greenhouse gas emissions in the U.S. by 2050.</li> </ul>
<p><b>Operation Ajay</b></p>	<p><b>About:</b></p> <ul style="list-style-type: none"> <li>• Operation Ajay is a mission launched by the Indian government.</li> <li>• It aims to evacuate its citizens from Israel during the ongoing conflict with the Hamas group in Gaza.</li> </ul>
<p><b>Ninth G-20 Parliamentary Speakers' Summit (P-20)</b></p>	<p><b>Context</b></p> <ul style="list-style-type: none"> <li>• <b>Ninth G-20 Parliamentary Speakers' Summit was held in New Delhi.</b></li> </ul> <p><b>Key points</b></p> <ul style="list-style-type: none"> <li>• The event was held at the Yashobhoomi convention centre in New Delhi's Dwarka area.</li> <li>• The unanimous adoption of the Joint Declaration at P-20 Bharat exemplified the spirit of Vasudhaiva Kutumbkam.</li> </ul>
<p><b>Three main ethnic groups of Sikkim: Lepchas, Bhutia and Nepalese</b></p>	<p><b>Context</b></p> <ul style="list-style-type: none"> <li>• Lepchas, Bhutia and Nepalese are the 3 main ethnic groups of Sikkim.</li> </ul> <p><b>Other key points</b></p> <ul style="list-style-type: none"> <li>• Rangpo and Singtam were affected areas of recent flash floods in Sikkim.</li> </ul>



- The South Lhonak glacial lake burst caused the flash floods.



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