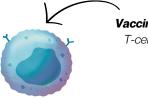
## Strategies Toward an HIV Cure

## Latency Reversal

Reactivation happens naturally with exposure to pathogens like vaginosis!

> Activating the cells harboring HIV so they become visible for killing and clearance. In the presence of anti-retroviral therapy, the immune system remains protected

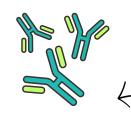
## **Immune-Based**



**Vaccines:** Train the B-cells and/or T-cells to find and kill HIV more effectively

Researchers are

finding ways to ignite the pathway with drug discovery



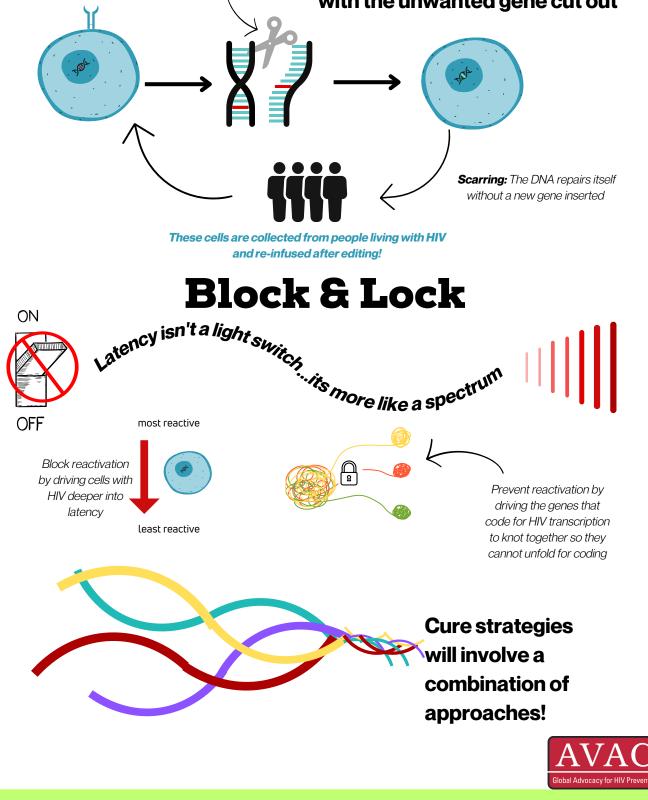
Chimeric Antigen Receptor T-cells (CAR T-cells): Passively delivered, these T-cells get into sanctuary sites and boost the immune system to fight HIV

Boosting or altering the immune system to improve finding and killing HIV

**Broadly Neutralizing Antibodies:** Passively delivered these immune products bind to HIV and call for killing

## **Gene & Cell Editing**

Insertion: A vector carries a new gene that will insert where the deletion occurs



Using molecular scissors, genes are cut out and new genes are inserted to make a change to cell function or phenotype. Alternatively, the DNA can repair with the unwanted gene cut out