What is immunotherapy?

Immunotherapy is a type of cancer treatment that helps the patient's own immune system fight cancer.

1. Normal immune system

T cells are the cells of the immune system that identify tumor cells and combat them.

2. Tumor cells fight back

Some tumor cells develop a shield of molecules called **PDL1**.

These bond to the T cells' **PD1** receptors and deactivate them.

3. Checkpoint inhibitors

In this type of immunotherapy, drugs are given to reduce the cancer cell's ability to trick the immune system.

4. Restored defenses

Checkpoint inhibitor drugs block the **PDL1** and **PD1** from binding to each other, allowing the T-cells to attack tumor cells.

