CANCER IMMUNOTHERAPY

(WHAT IS IT?)













* CELLS UNDER A MICROSCOPE





































































TISSUE















LARGE INTESTINE





LARGE INTESTINE

ORGANISM













SMUG CELL








































HEALTHY PROTEIN









GENETIC MUTATION



GENETIC MUTATION









CANCEROUS CELL



1) GFRMLINF 2) ACQURED























CANCER

+

IMMUNE SYSTEM







IMMUNE CELLS




































1. VACCINES



VACCINES

PREVENT



VACCINES

PREVENT

TRFAT









2. CELL THERAPY







T FLASK TO GROW TILS IN

























WOW! I FEEL MUCH BETTER. WHERE THE CANCER CELLS AT?

4. MONOCLONAL ANTBODES







I'M A NATURALLY OCCURRING ANTIBODY. I HAVE A VERY SPECIFIC TARGET.



I'M A MAN-MADE MONOCLONAL ANTIBODY. I TARGET A SPECIFIC KIND OF BREAST CANCER.





5. CHECKPOINT INHBIOR









I SEE NOTHING WRONG HERE, MY RECEPTOR IS TELLING ME ALL IS SAFE. YOU'RE GOOD TO GO.






WHY DO PEOPLE RESPOND DIFFERENTLY TO TREATMENTS?

1)

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ARE THERE WAYS OF PREDICTING HOW A PATIENT WILL REACT TO A TREATMENT?

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3)

CAN WE PERSONALISE TREATMENTS FOR INDIVIDUAL PATIENTS?