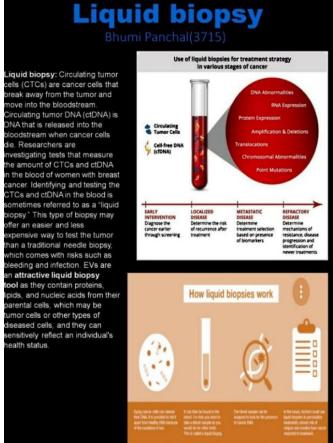


# BIOTECHNOLOGY DEPARTMENT PRESIDENT SCIENCE COLLEGE DIGITAL POSTER COMPETITION 2021

Our Biotechnology students of semester 5 displayed their thoughts through an array of posters on the recent trends in biotechnological research. Total of 28 participants were there who showcase their talent, among them top 5 best posters were selected portraying their outstanding performance irrespective of their ranks are as follows:

- 1. Ms. Bhumi Panchal (3715)- Liquid Biopsy
- 2. Ms. Mansi Kanji (3737)- Therapeutic Protein FC-fusion protein
- 3. Mr. Suhas Singh Rao (3734)- Nanobiotechnology Endoscopy
- 4. Ms. Zeel Patel (3726)- CAR T- cell Cancer Therapy
- 5. Ms. Bansi Singhala (3732)- Potential Role of Junk DNA in Ageing- Cancer

Selected Top 5 Best Posters showing varied research fields of Biotechnology are as follows-





FC-FUSION PROTIEN



- Most protein therapeutics currently on the market are recombinant and hundreds of them are in clinical trials for therapy of cancers, immune disorders, infections, and other therapy of cancers, immune disorders, infections, and other therapy of cancers, increase in the control of the cancer of t
- New engineered proteins, including bispecific mAbs and multispecific fusion proteins mAbs conjugated with small molecule drugs, and proteins with optimized pharmacokinetics, are currently under development.
- It appears that a paradigm change in methodologies and understanding of mechanism is needed to overcome major challenges, including resistance to therapy, access to targets, complexity of biological systems, and individual variations.





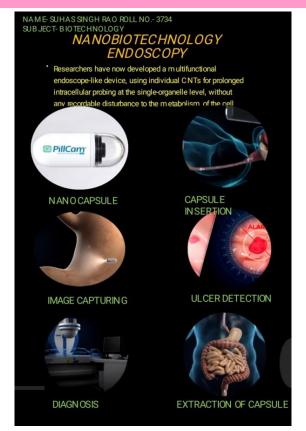
They can be divided into five groups: [a] replacing a protein that is deficient or about

[d] Interfering with a molecule or organism; and

molecular mechanism of activity as [a] binding non- covalently to target, e.g. mAbs;[b]affecting

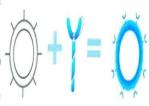


REFERANCE: https://link.springer.com/protocol/10.1007%2F978-1-61779-921-1\_1



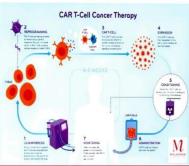
AR (for Chimeric Antigen Receptor) T-cell therapy uses specially engineered white blood cells called T cells to lead an assault on cancer. T cells' role in the immune system is to hunt down and destroy abnormal cells, including cancer cells. For a variety of reasons, however, they don't always recognize cancer cells, or don't mount an all-out attack on them. potentially allowing tumors to take root and expand. Turning them into CAR T cells seeks to overcome those deficiencies. To make CAR T cells, technicians collect a sample of a patient's T cells from the blood and engineer them to sprout special structures called chimeric antigen receptors on their surface. When these CAR T cells are reinjected into the patient, the receptors may help the T cells identify and attack cancer cells throughout the body.

# How CAR T-Cell Therapy Works



Your I cell with the CAR added

CARTCELL helps find and fight specific cells



## SIDE EFFECTS

CAR T-cell therapy can cause cytokine release syndrome (CRS), which can cause dangerously high fevers, extreme fatigue, difficulty breathing, and a sharp drop in blood pressure.. Other general side effects can include:

- •Tremors
  •Headaches
- •Loss of balance •Trouble speaking
- Seizures
   Sometimes, hallucinations



# POTENTIAL ROLE OF JUNK DNA SEQUENCE IN AGEING - CANCEL

# INTRODUCTION

# DISCUSSION









# **EXPERIMENT**

# CONCLUSIONS

Research shows that the picture is a lot more complicated than a mutation of an oncogene and makes a strong case for expanding our research to look more closely at this so-called junk DNA.

# REFERENCES

# CONTACT