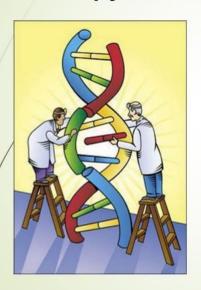
What is Gene Therapy?

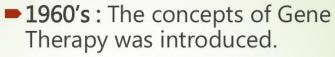


An approach of treating diseases by either modifying the expressions of an individual's genes or correction of abnormal genes.

Cont....

- This can be accomplished by:
- Replacing a mutated gene that causes disease with a healthy copy of the gene.
- Inactivating, or "knocking out," a mutated gene that is functioning improperly.
- Introducing a new gene into the body to help fight a disease.

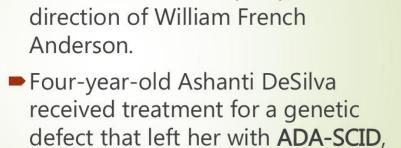
History



- 1972: Friedman and Roblin authored a paper in Science titled "Gene therapy for human genetic disease."
- 1984: A retrovirus vector system was designed that could efficiently insert foreign genes into mammalian chromosomes.

■ 1990: The first approved gene





a severe immune system deficiency.

therapy in the US took place on 14

Institutes of Health (NIH), under the

September 1990, at the National