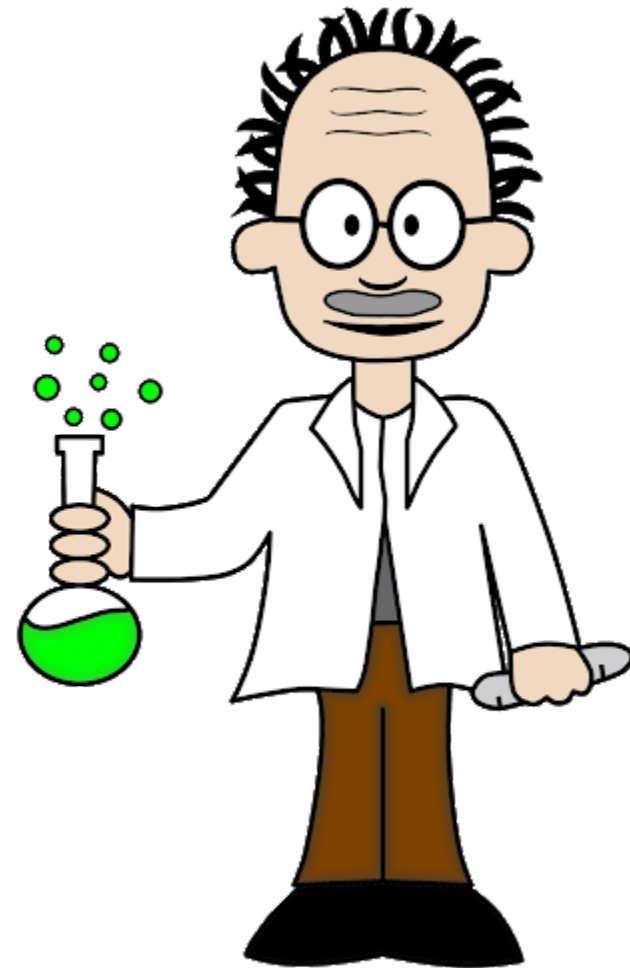
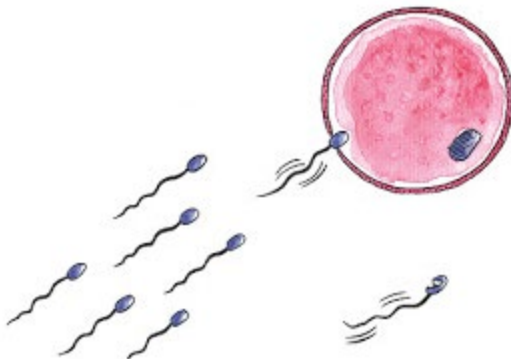
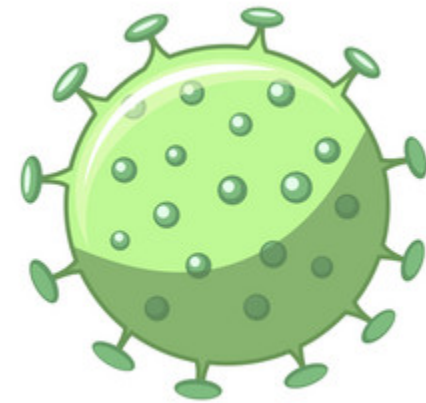


# 10 Great Biological Discoveries





## **In memory of Francis Crick**

**Compiled by:**

Manjunath.R

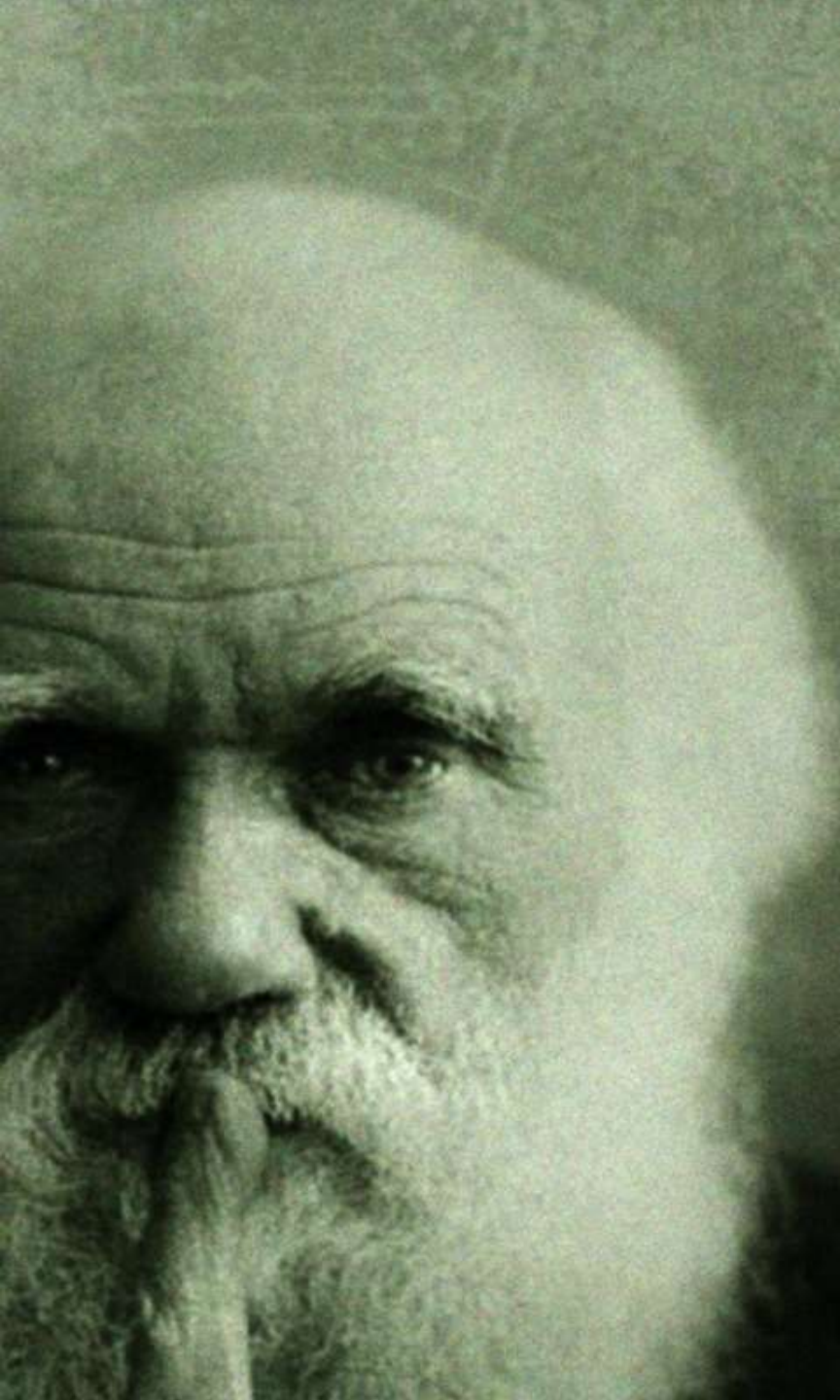
#16/1, 8th Main Road, Shivanagar, Rajajinagar, Bangalore 560010, Karnataka, India

\*Corresponding Author Email: [manjunath5496@gmail.com](mailto:manjunath5496@gmail.com)

\*Website: <http://www.myw3schools.com/>



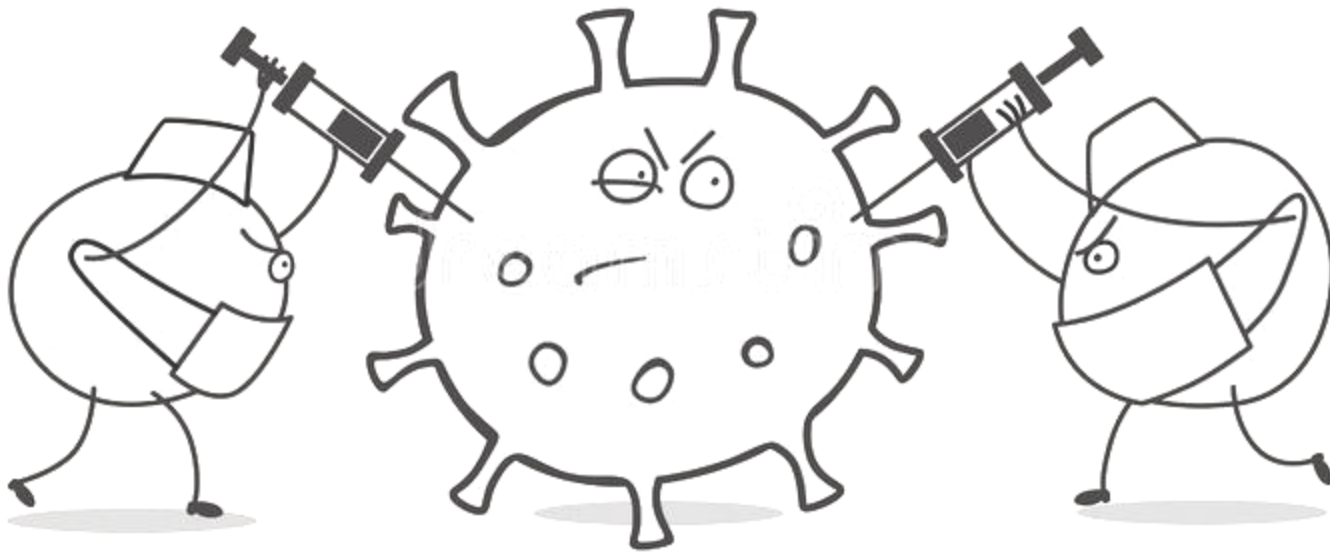
"Evolution is  
cleverer than  
you are"



“It is not the  
strongest of the  
species that  
survives, nor the  
most intelligent,  
but the one most  
responsive to  
*change.*”

~Charles Darwin, 1809

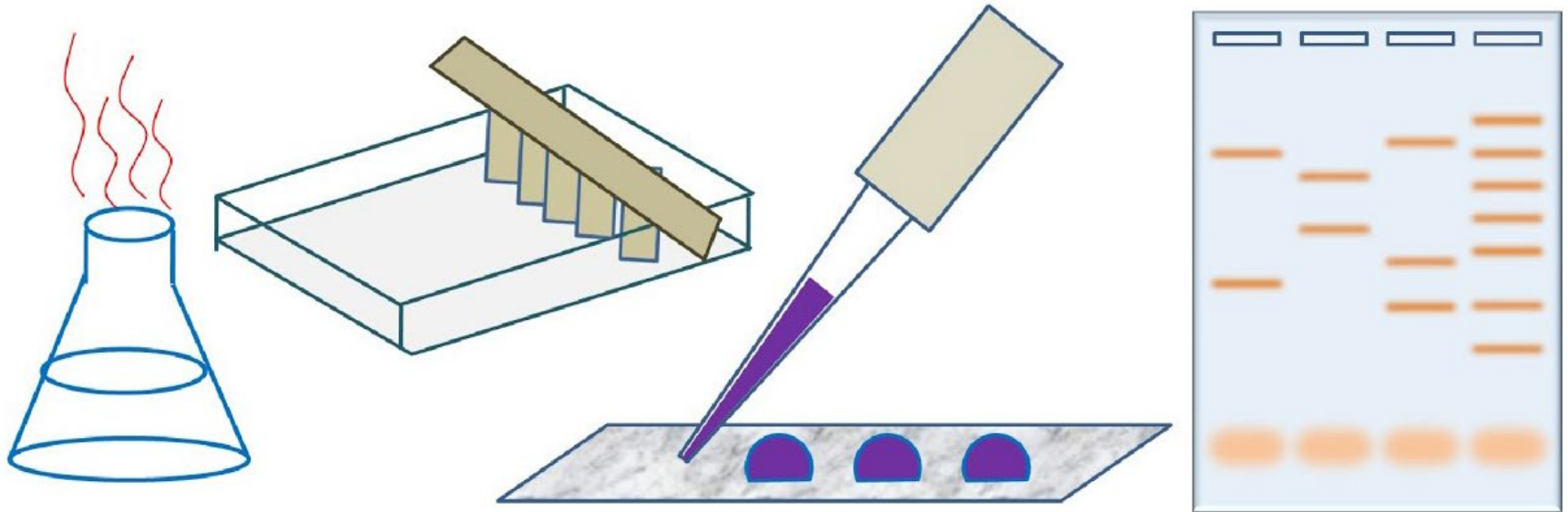
# Antibiotics (1928)



**Medicines that fight **bacterial infections** in  
people and animals**



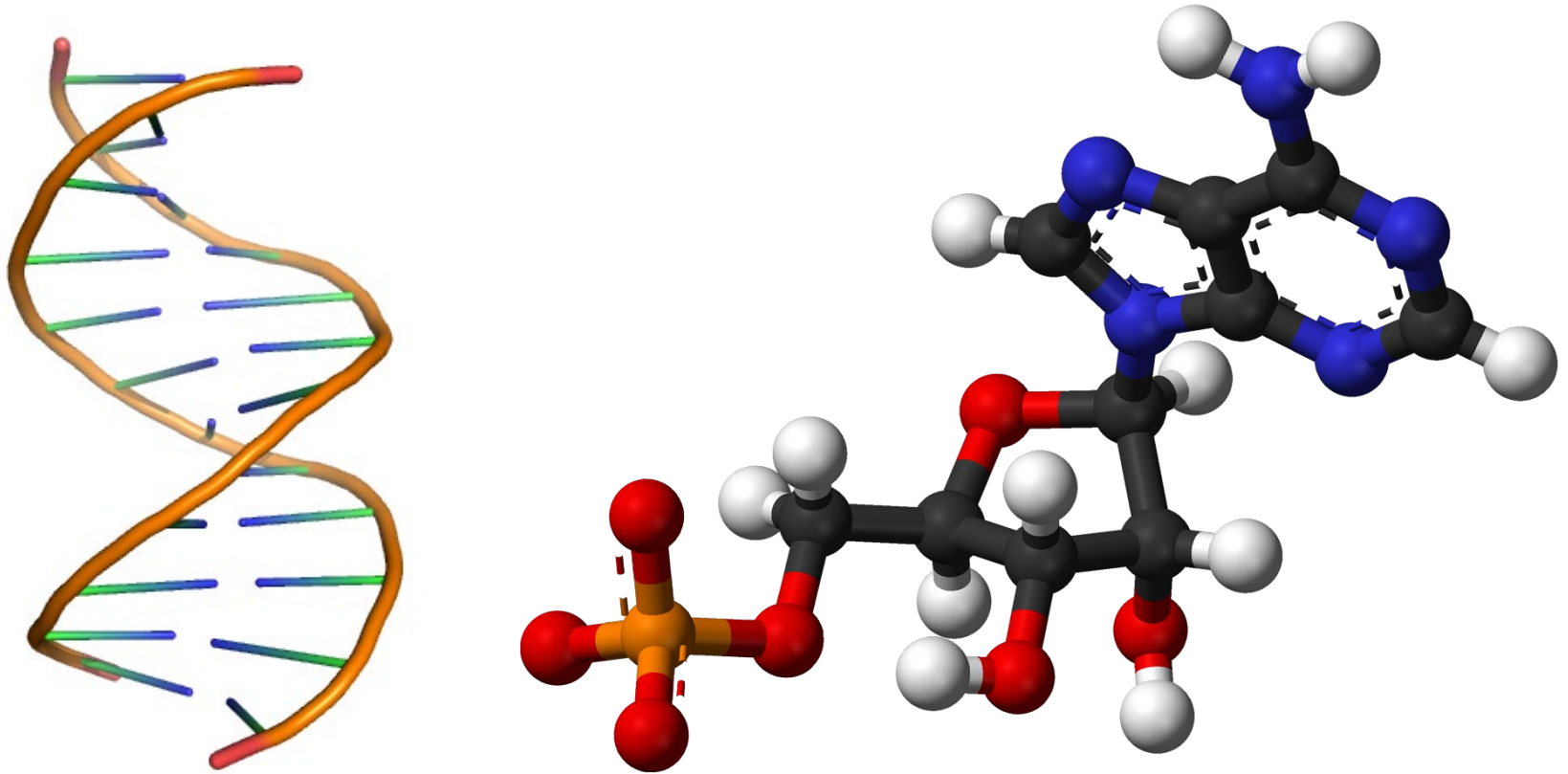
# Gel Electrophoresis (1931)



**Technique used to separate **DNA fragments** according to their size**

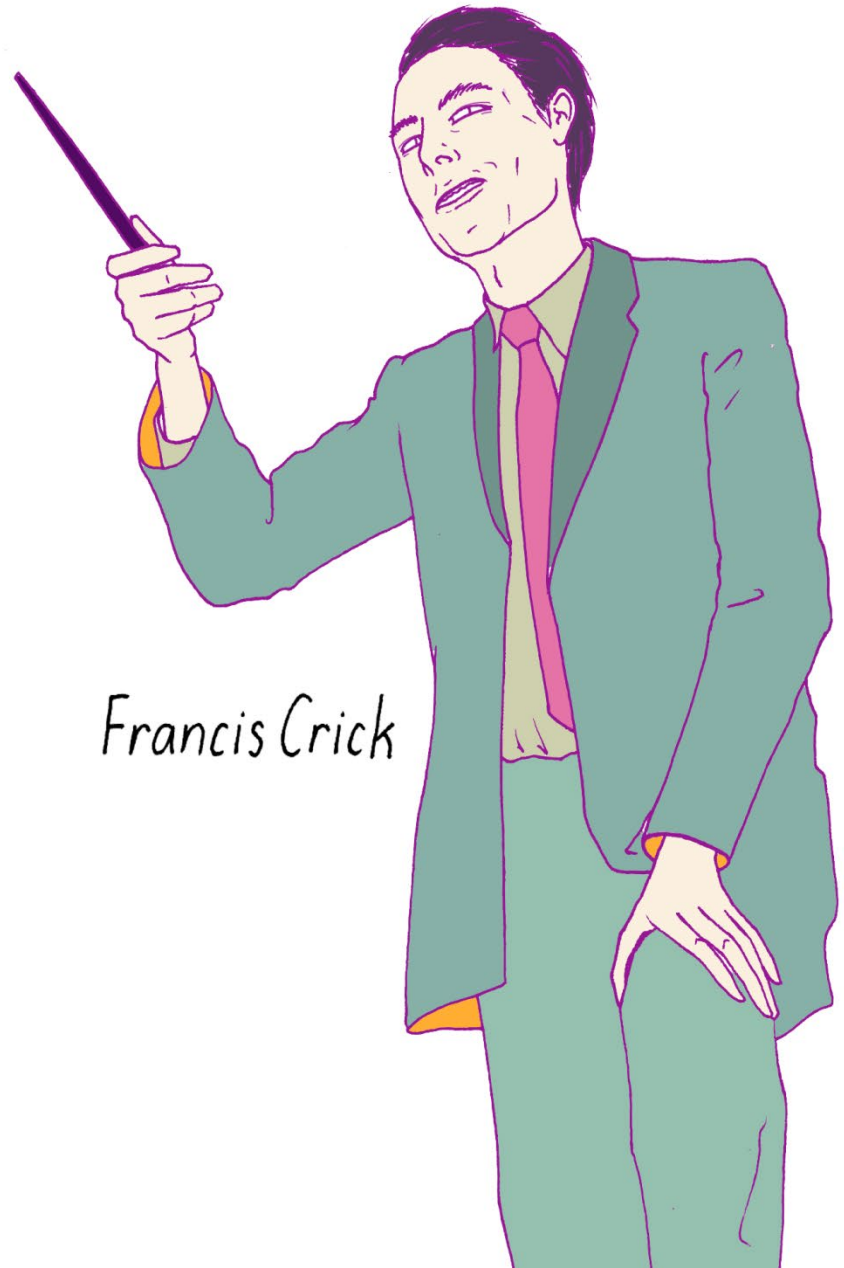
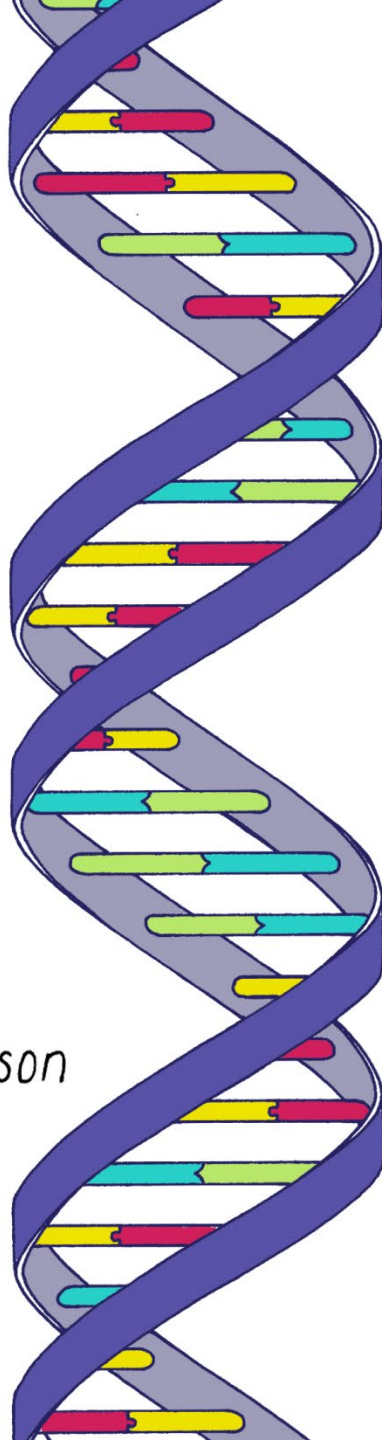
# The Structure of DNA

## (1952-1953)





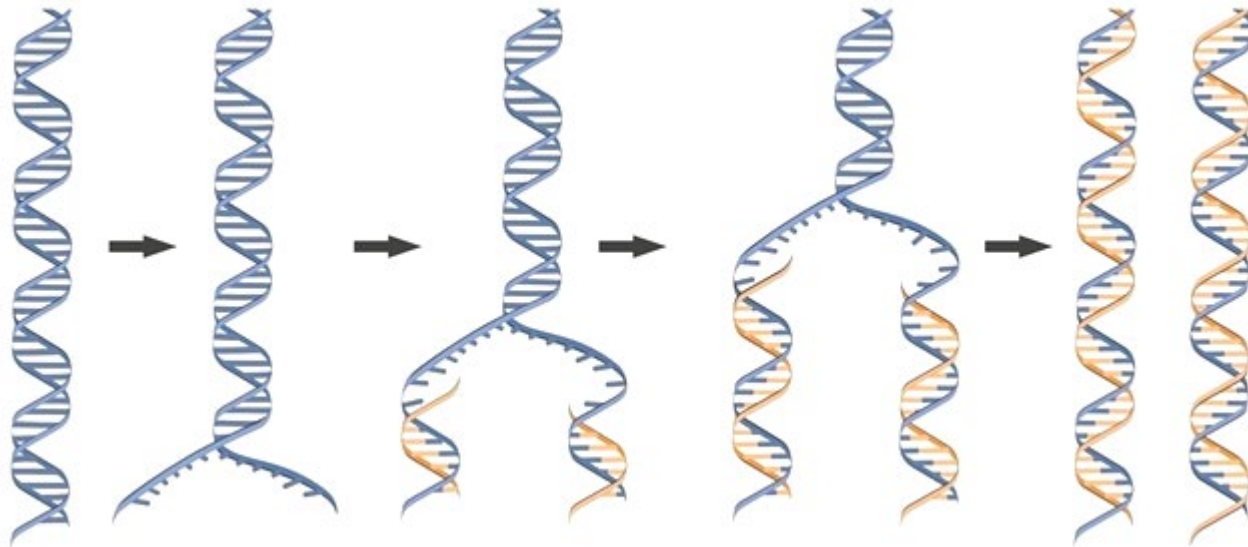
*Jim Watson*



*Francis Crick*

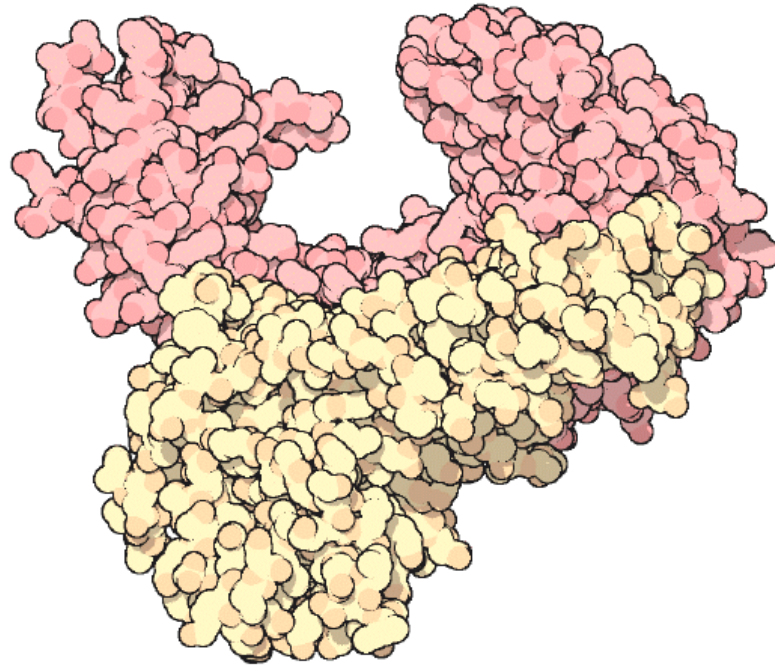


# DNA Polymerase (1956)



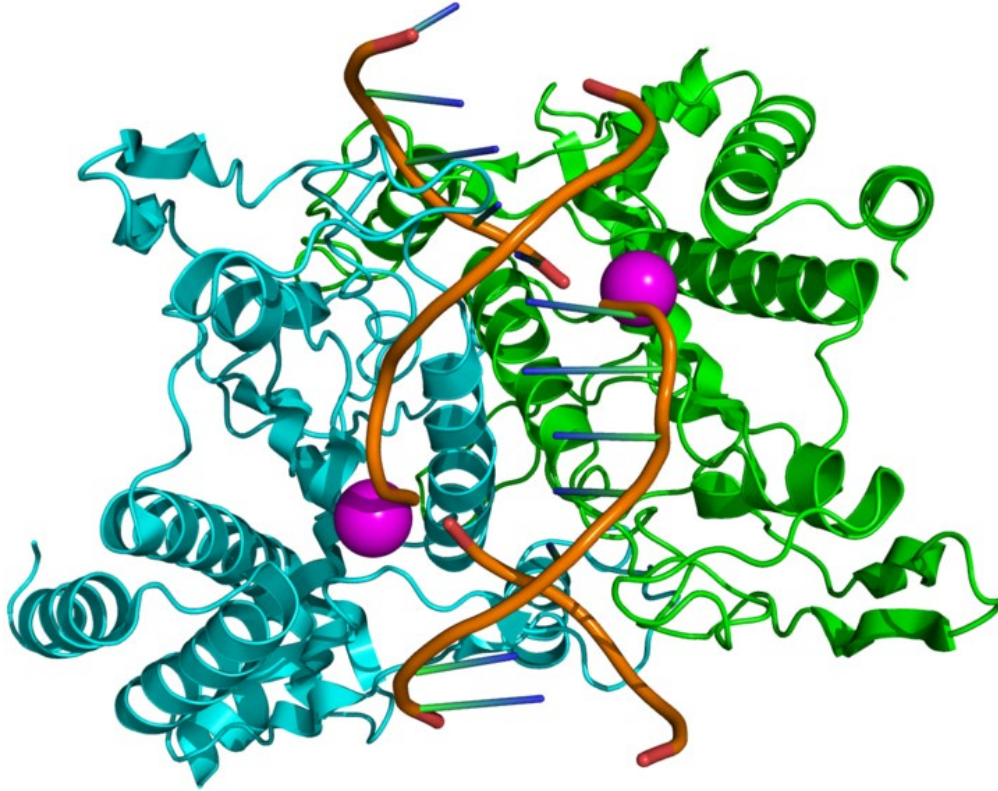
**Enzyme that catalyses the synthesis of  
DNA during replication**

# Reverse transcriptase (1970)



**Enzyme encoded from the genetic material of **retroviruses** that catalyzes the transcription of retrovirus RNA into DNA**

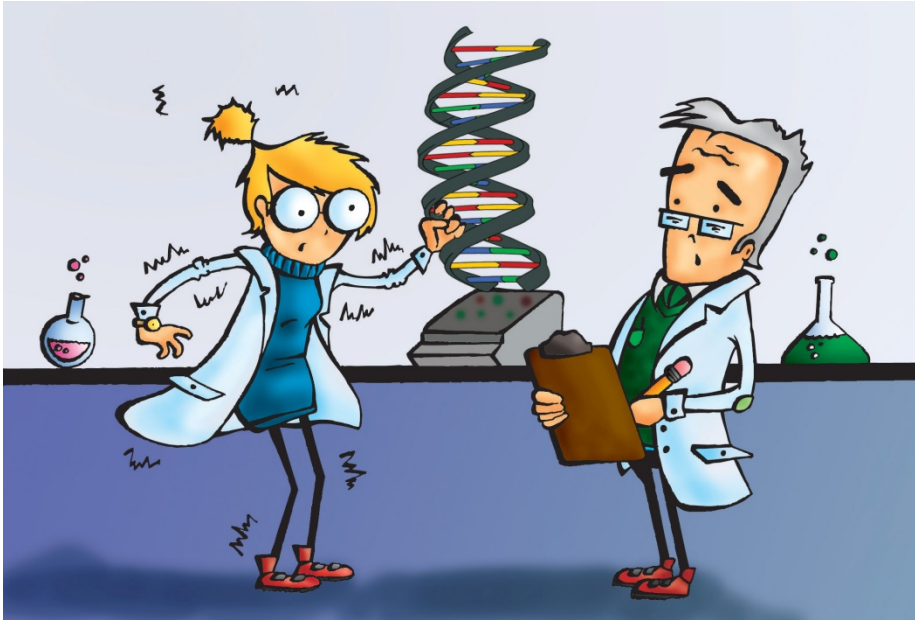
# Restriction enzymes (1970)



**DNA-cutting enzymes**

# Polymerase Chain Reaction

## (1983)



**Technique** used to make numerous copies of a specific segment of DNA quickly and accurately

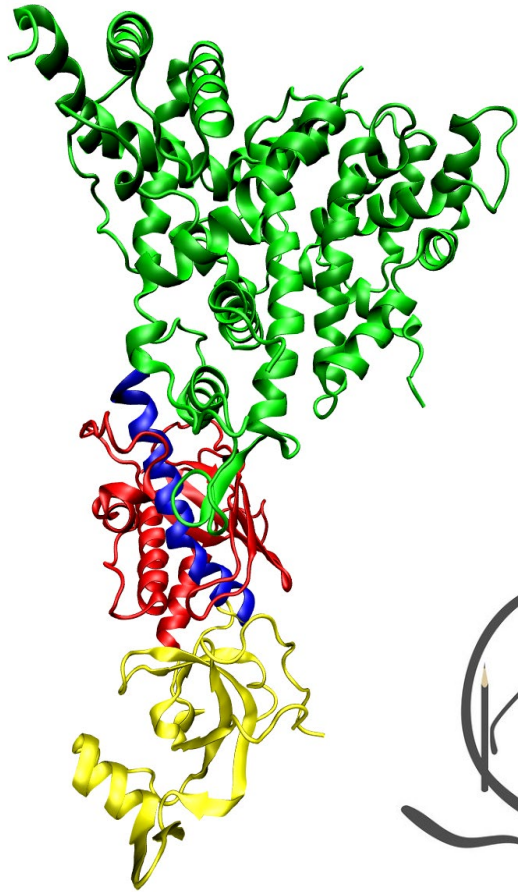
# Gene Therapy (1990)



**Technique that modifies a  
**person's genes** to treat or cure  
disease**



# RNA interference (1998)



**Process of inhibiting gene  
expression by neutralizing the  
targeted **mRNA molecules****



# CRISPR-Cas9 (2012)



**Genome editing technology**

**BIOLOGY IS THE  
SCIENCE. EVOLUTION  
IS THE CONCEPT  
THAT MAKES  
BIOLOGY UNIQUE.**

JARED DIAMOND

