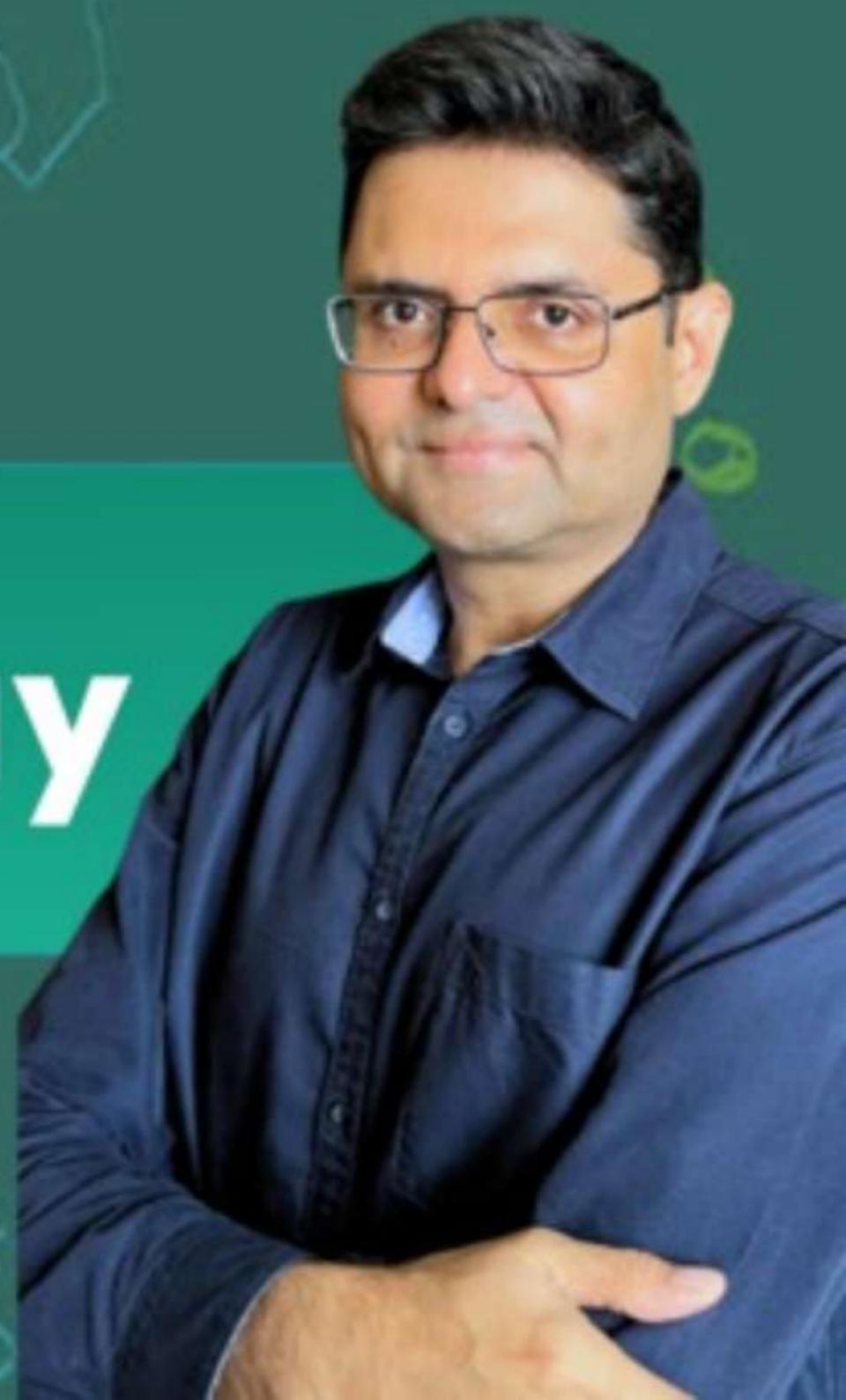
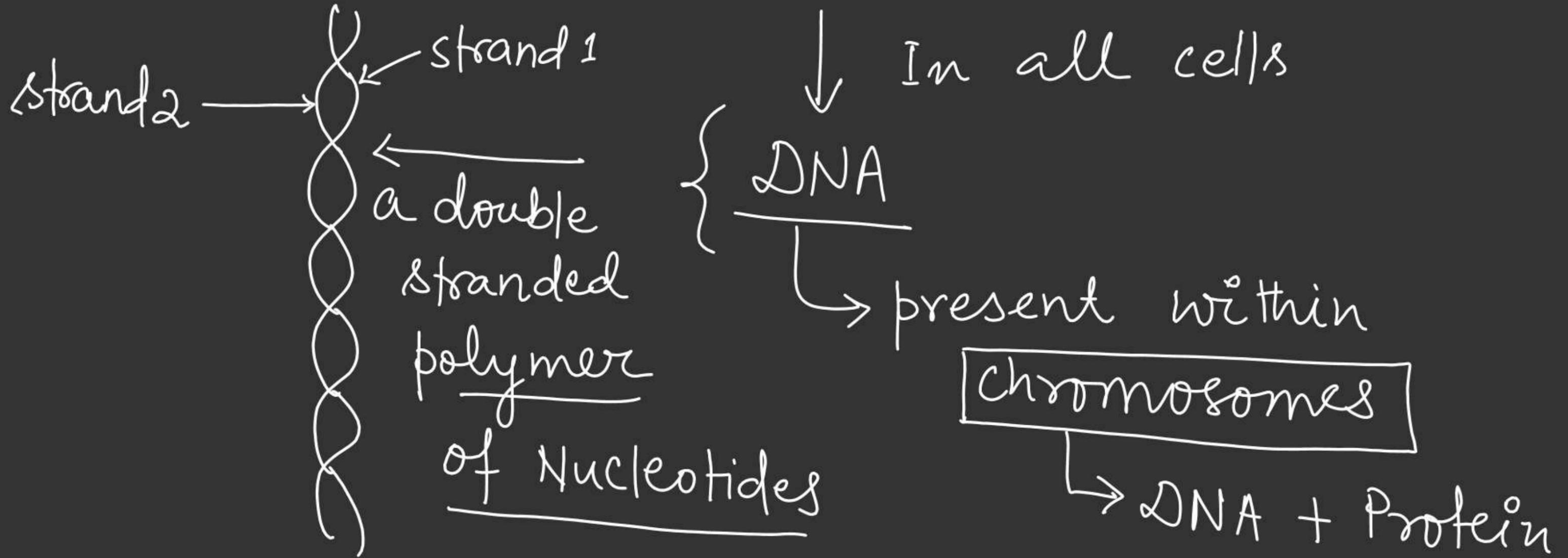


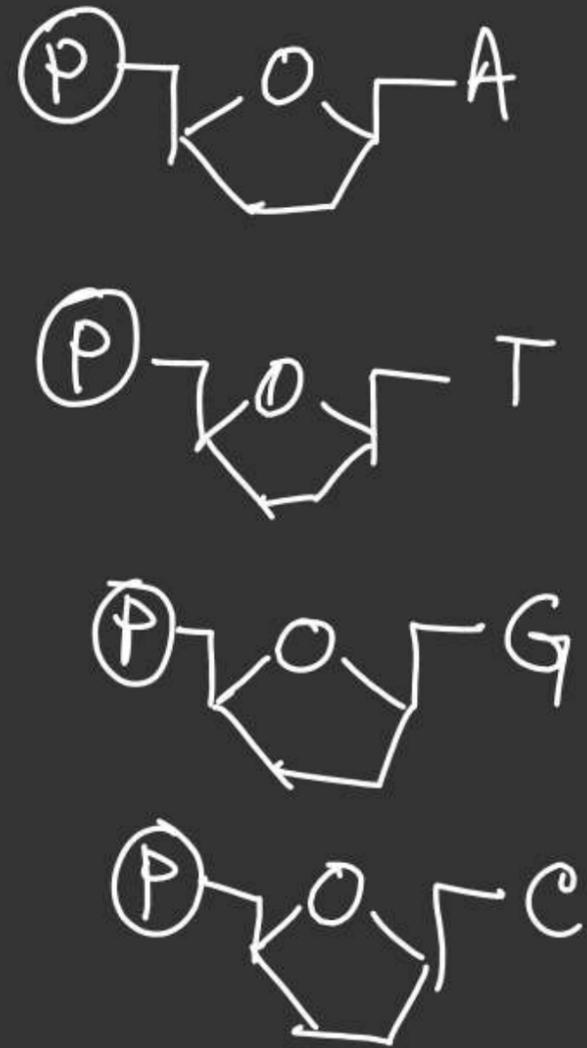
# Science & Technology

By Dr. Abhishek Sir



# Genetic material





↑  
deoxy-ribose sugar

**Nucleotide**

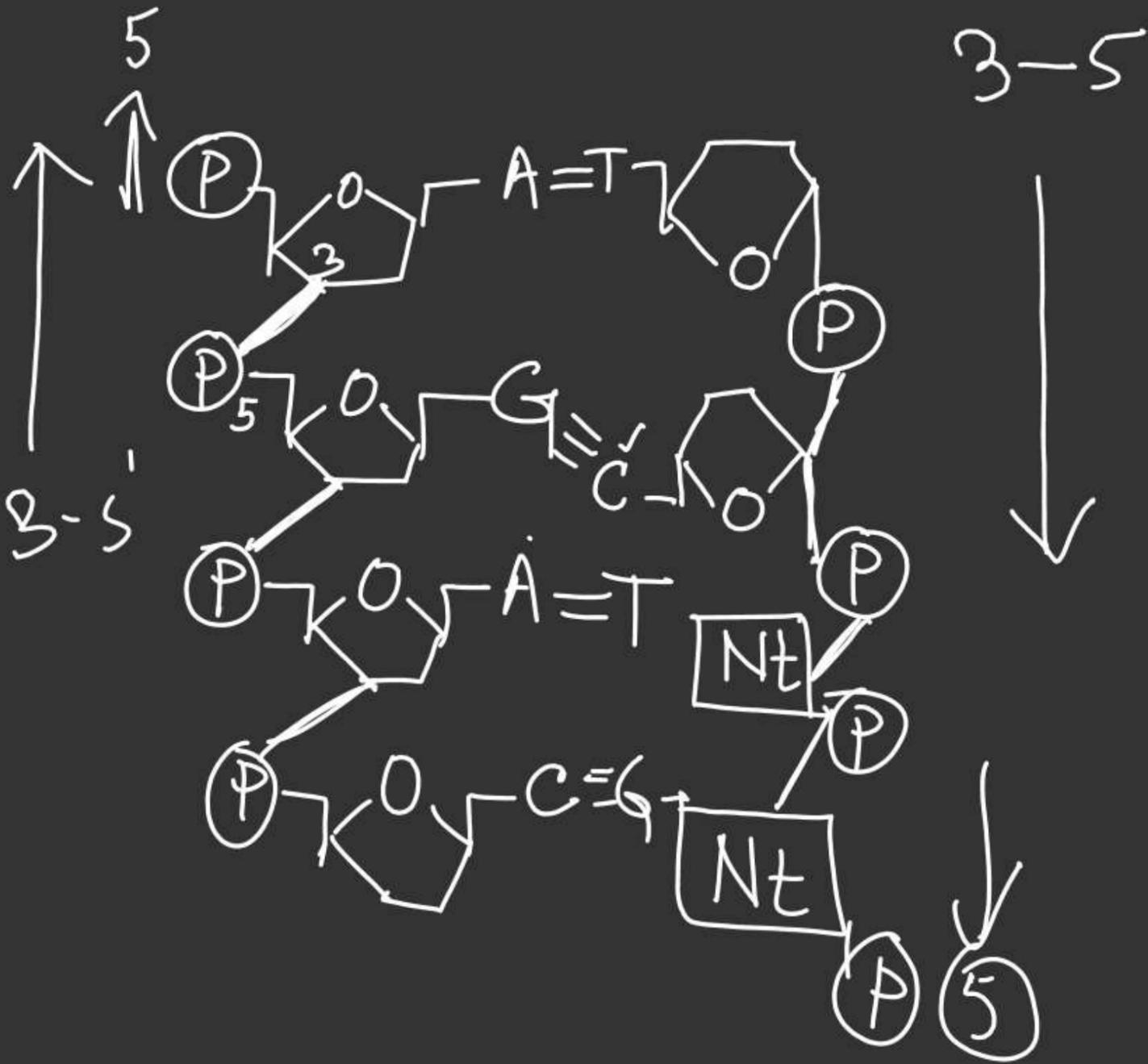
**4 types**

- A = Adenine
- T = Thymine
- G = Guanine
- C = Cytosine

- Double stranded

- Anti-parallel 3-5'

- Base paired



Base pairing

A = T

G = C

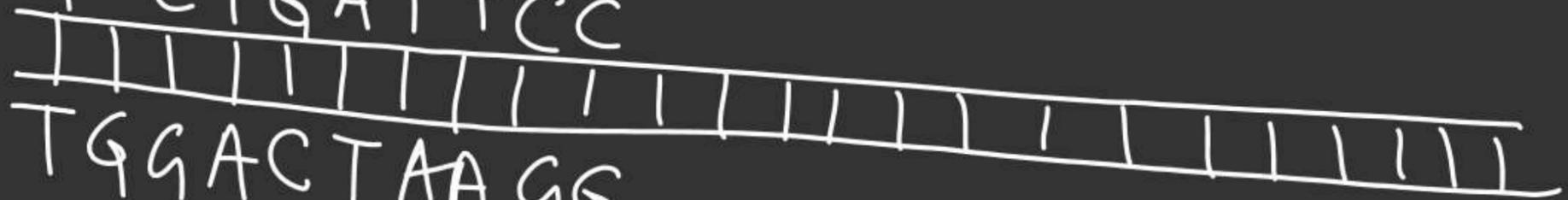
# Genetic Information on DNA

present as ←

sequence of base pairs

ACCTGATTCC

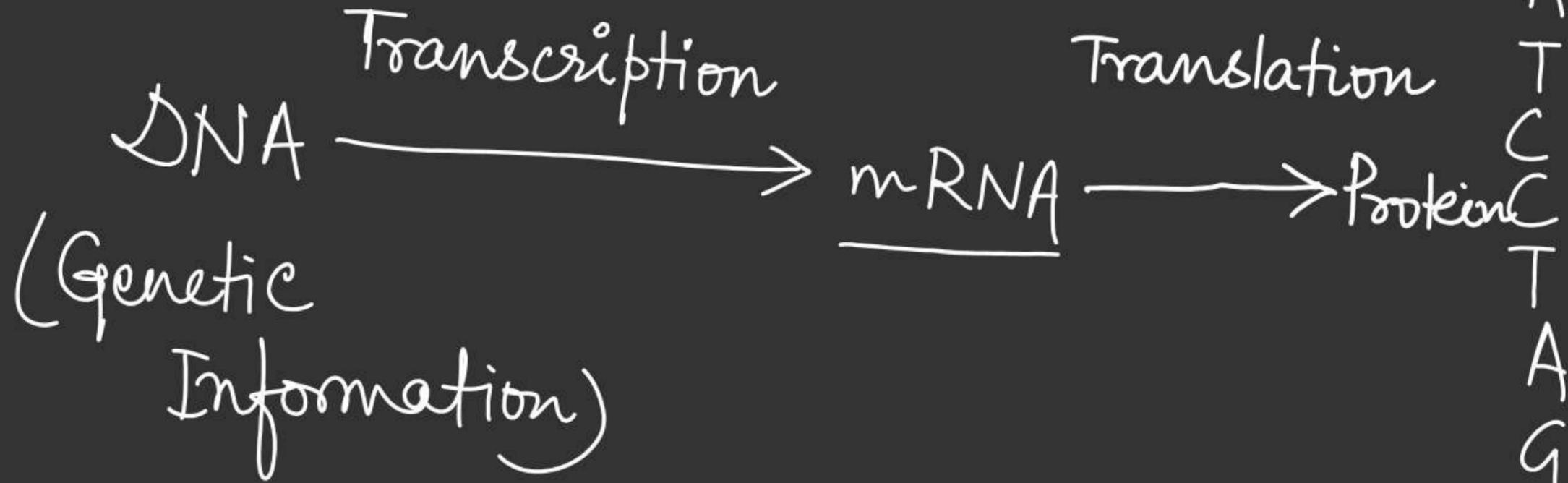
TGGACTAAGG



# Central Dogma

U = Uracil  
RNA does not have (T)  
↳ has (U)

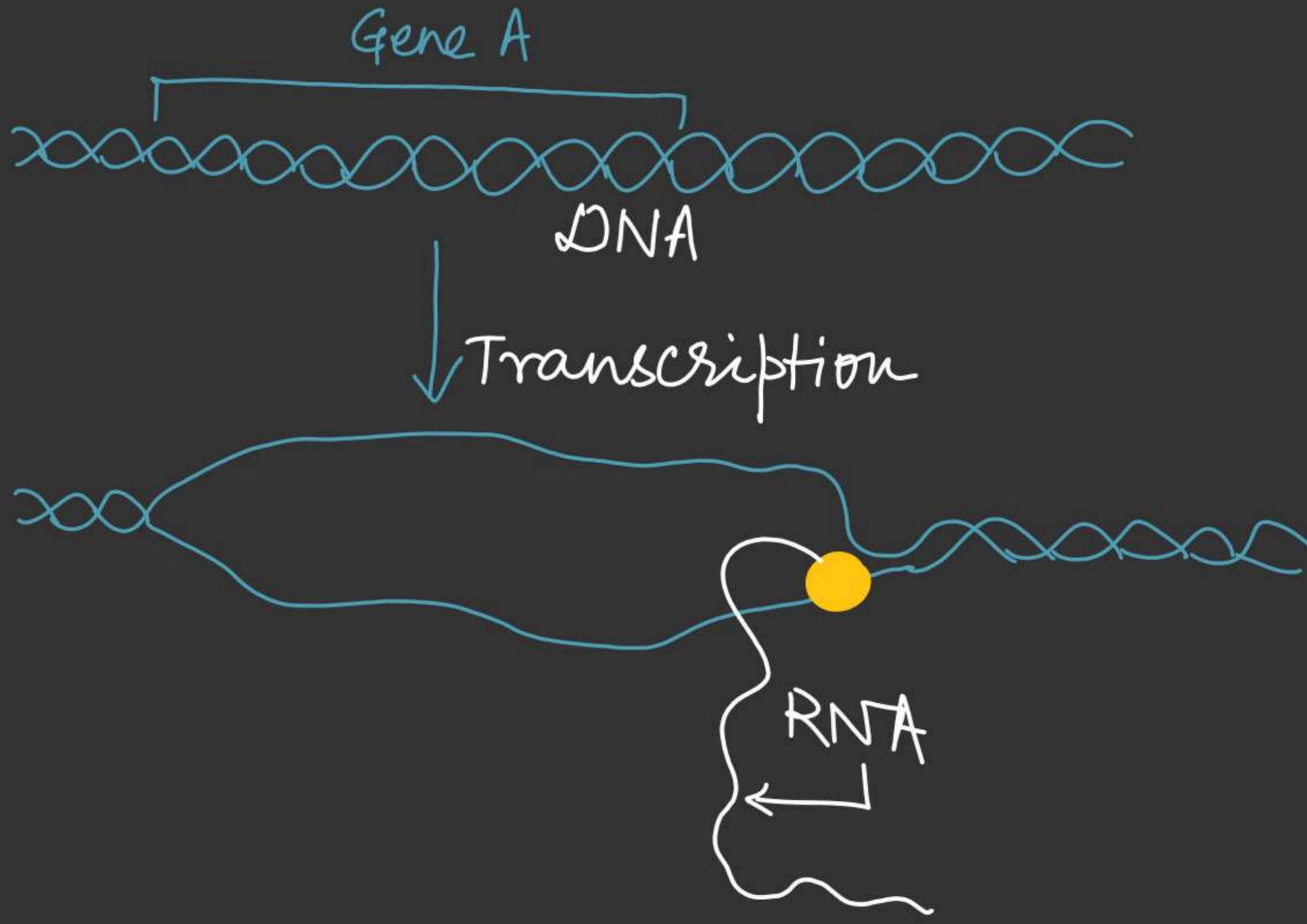
(Francis Crick)

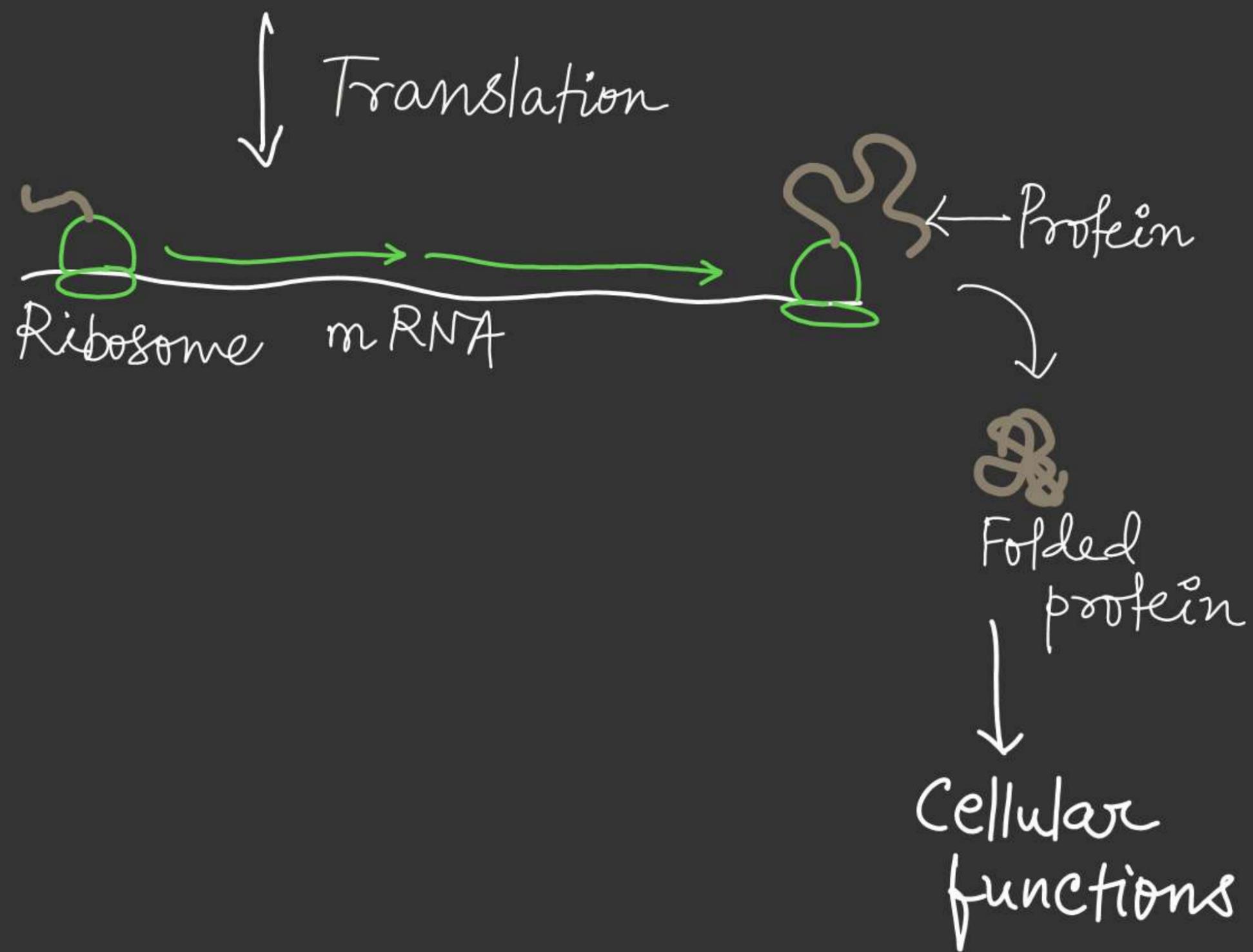


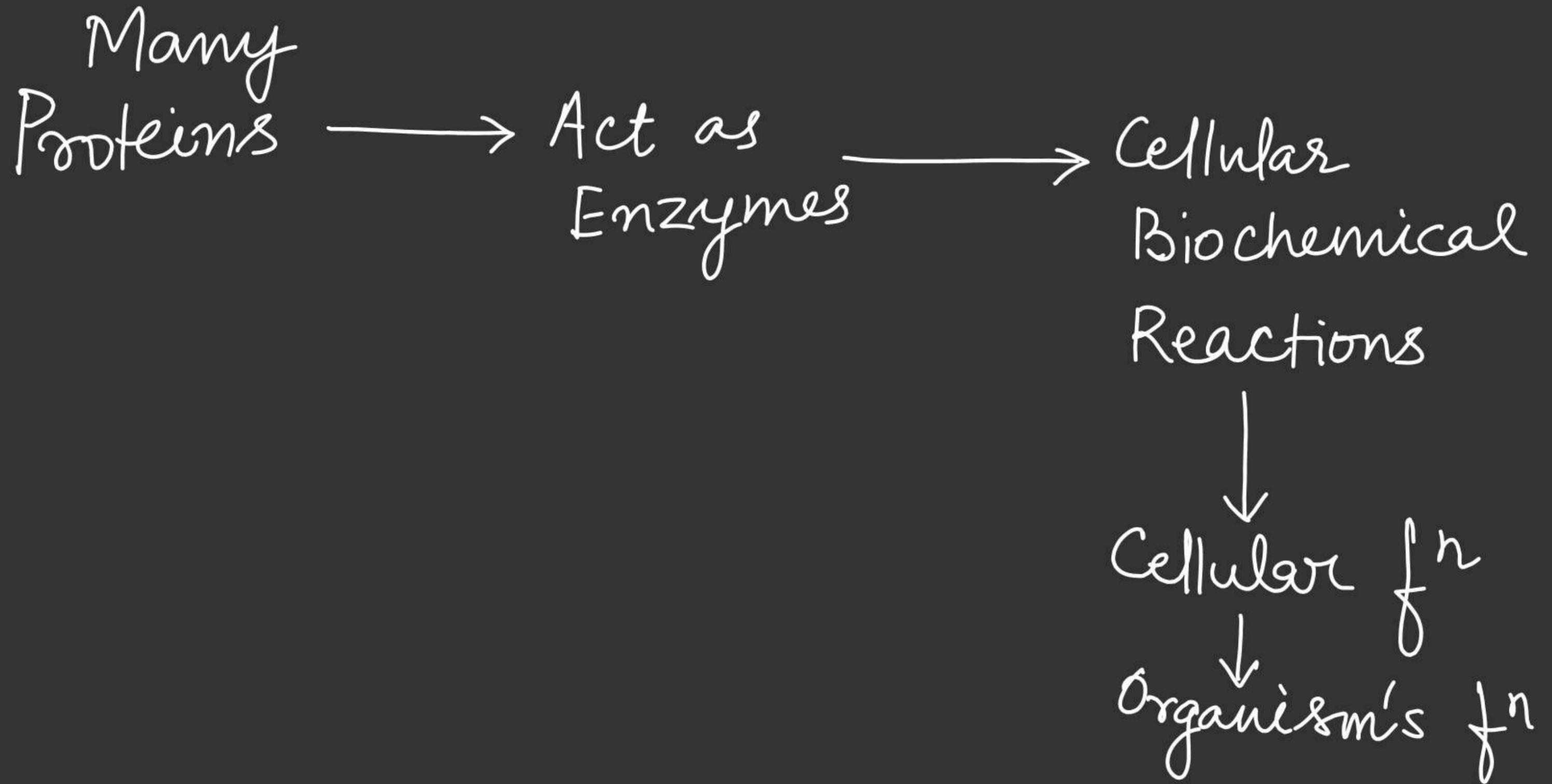
A  
T  
C  
C  
T  
A  
G  
G  
G

U  
A  
G  
G  
A  
U  
C  
C  
C

RNA







$$\underline{00.001\%}$$

$$= \cdot \frac{001}{\cancel{100}} \times \cancel{3 \times 10^9} \quad \nabla$$

==

$$3 \times 10^4$$

$$= 30,000$$

ATCCG AA TTCC ATTGC  
CX



