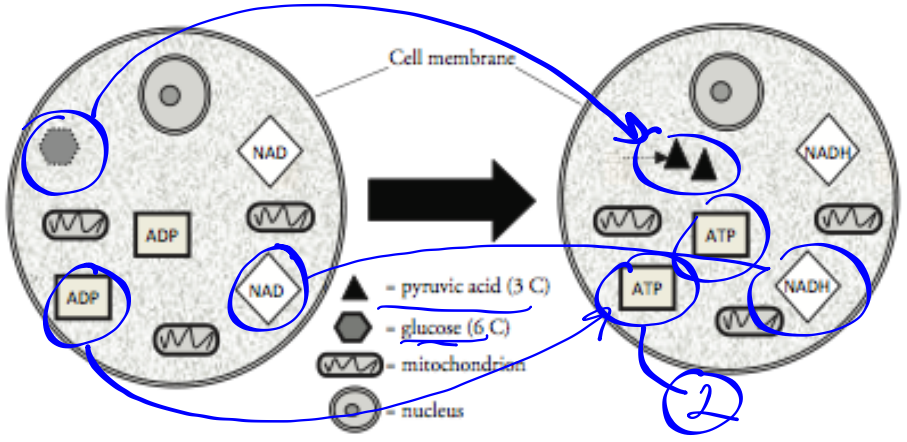
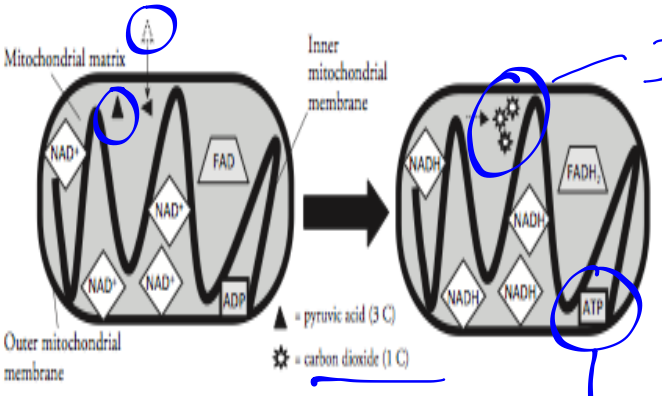


Cell. Respiration

Glycolysis ANAEROBIC

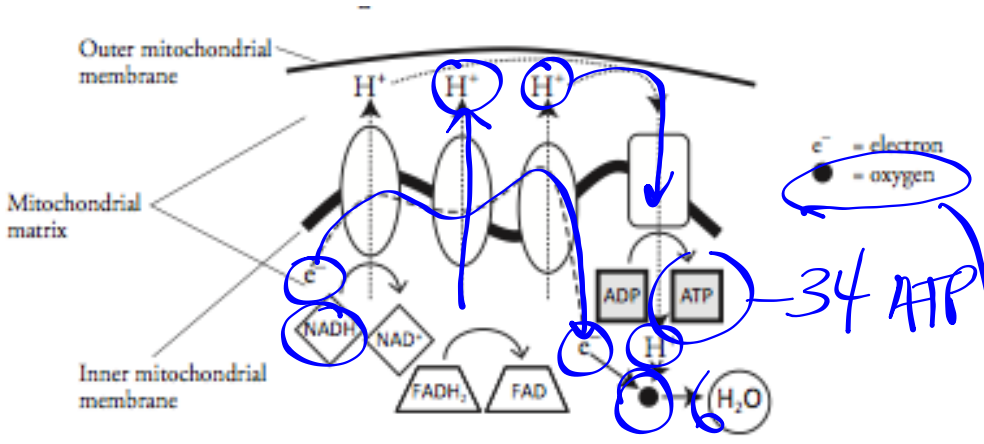
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6H_2O + 6CO_2 + \text{energy}$$



$3CO_2 + 3CO_2$

2

Krebs Cycle



34 ATP

Elect. Transport Chain

AEROBIC

Mutations

1. Gene
2. Chromosomal

— point mutations

— substitution —

THE FAT CAT ATE THE RAT

I

— deletion/duplication

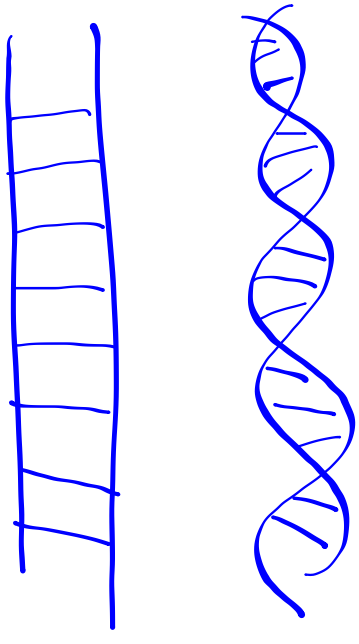
— FRAMESHIFT

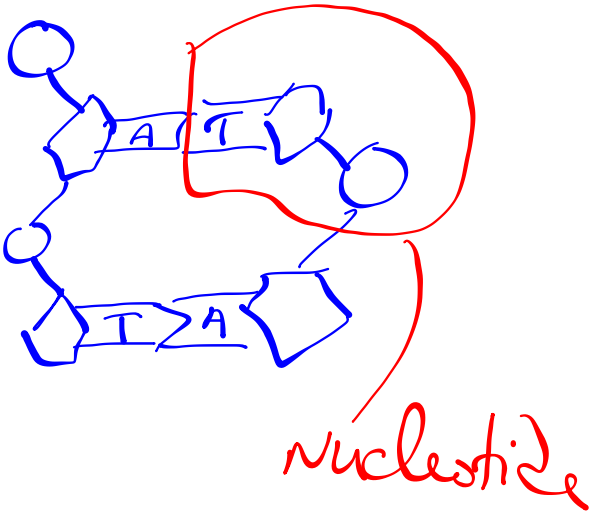
THE | FAT CAT ATE THE RAT

THE FTC ATA TET HER AT

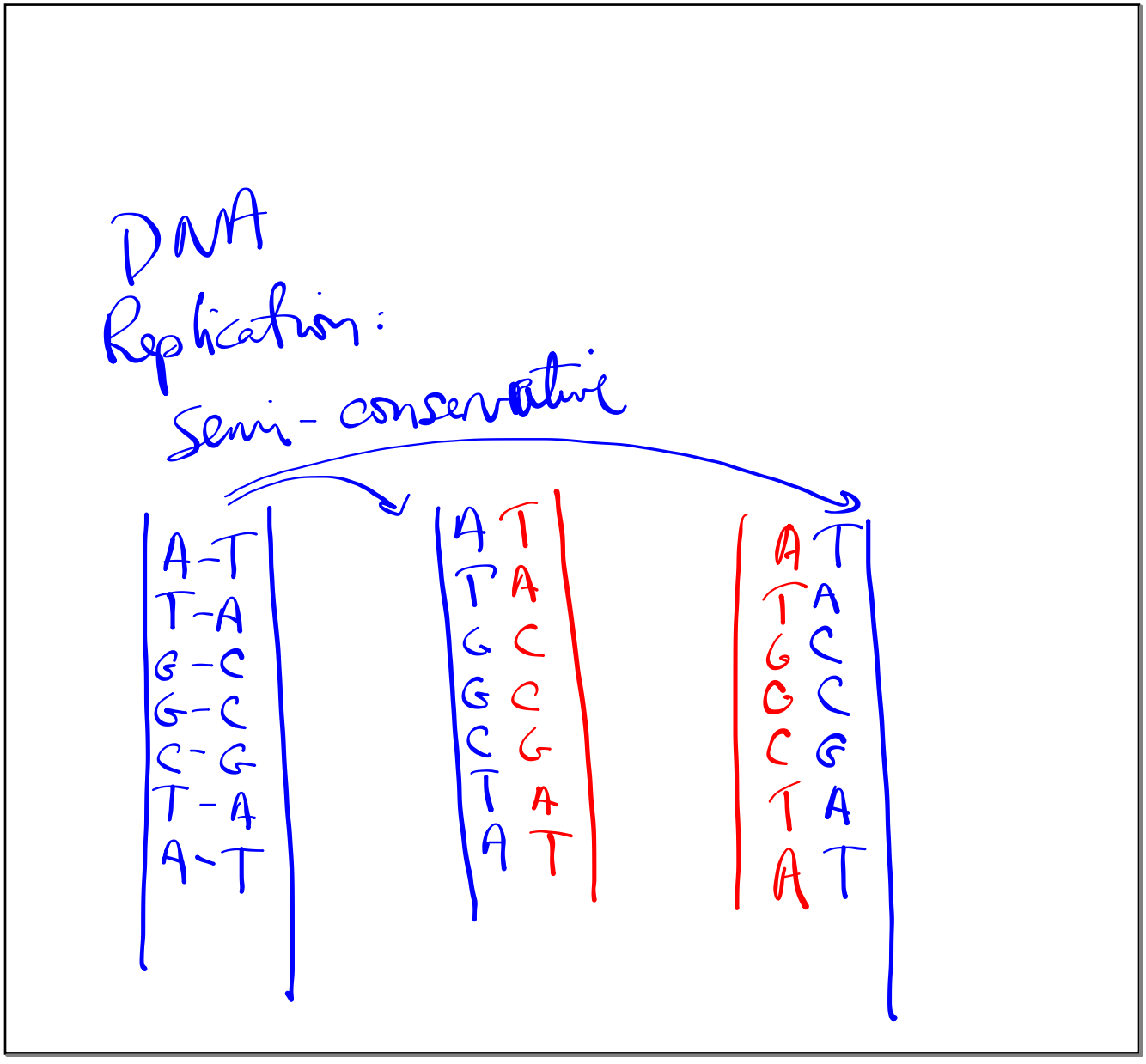
EVERY A.Acid after mutation is altered

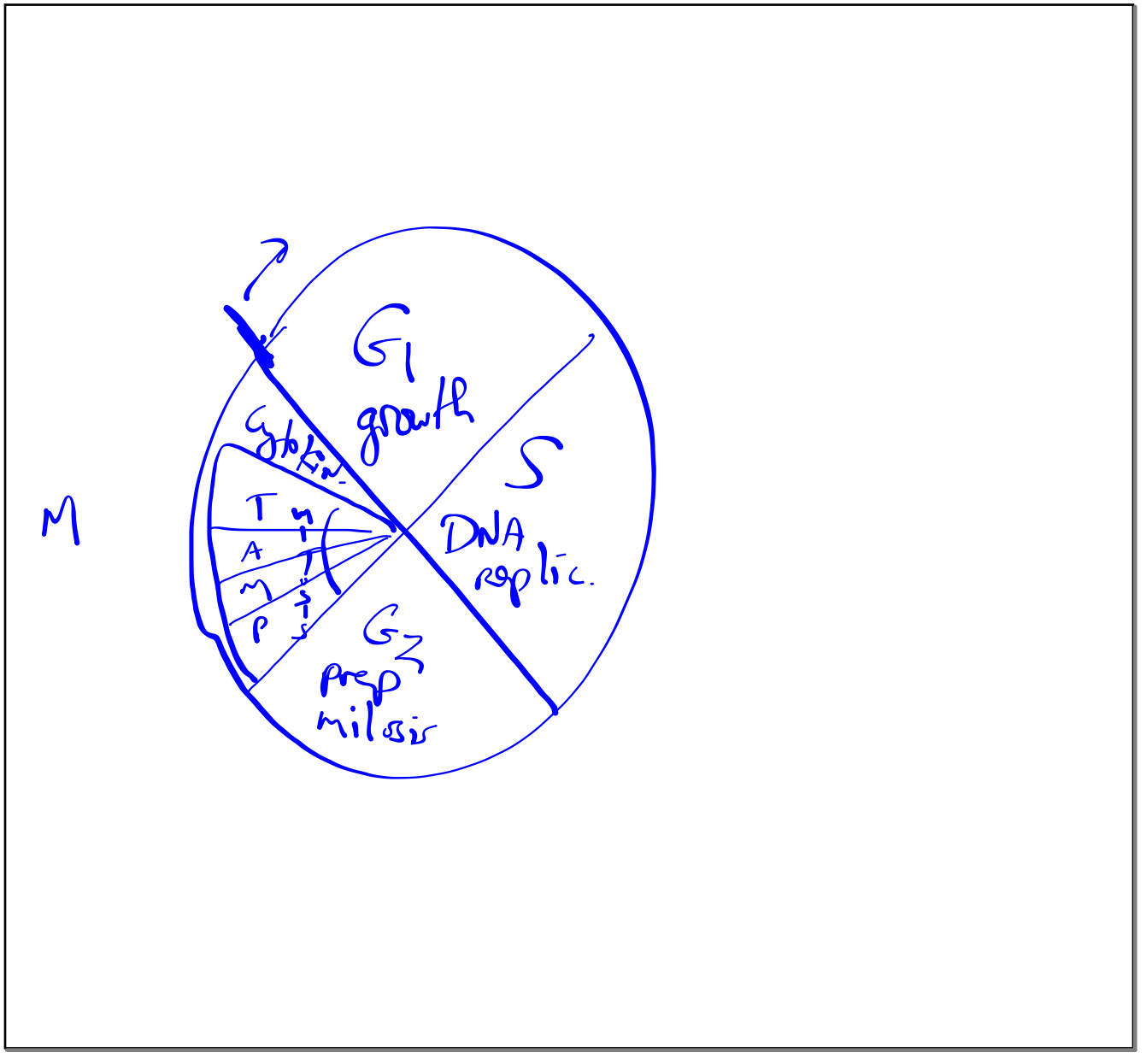
Double helix



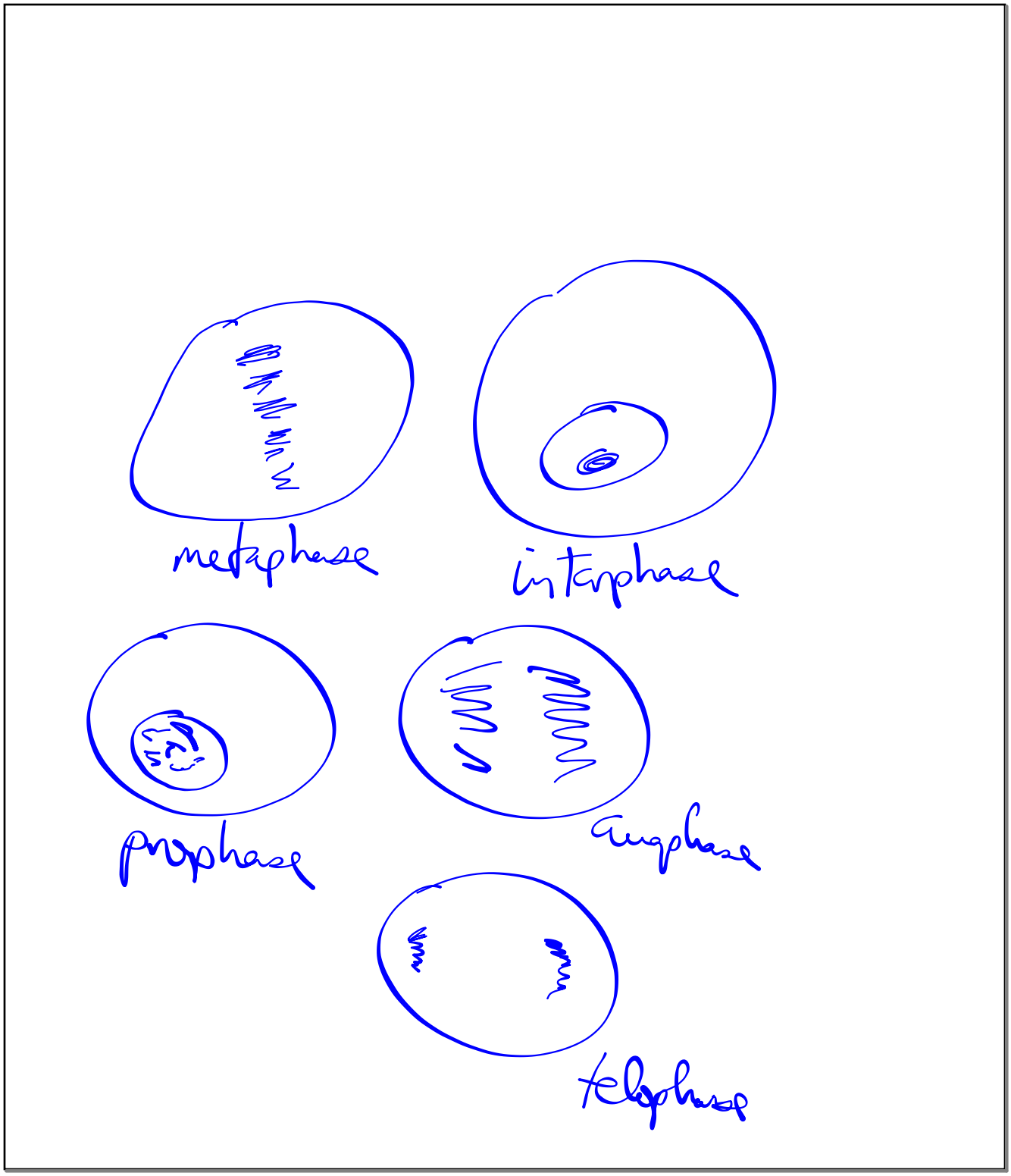


trisomy @ #21
Down's syndrome
XXY – Klinefelter's syndrome
XO – Turner's "


DNA
Replication:
Semi-conservative
A-T
T-A
G-C
G-C
C-G
T-A
A-T
A T
T A
G C
G C
C G
T A
A T
A T
T A
G C
G C
C G
T A
A T


G1
growth
S
DNA
replic.
G2
Prep
mitosis
M
T
A
M
P

December 03, 2013

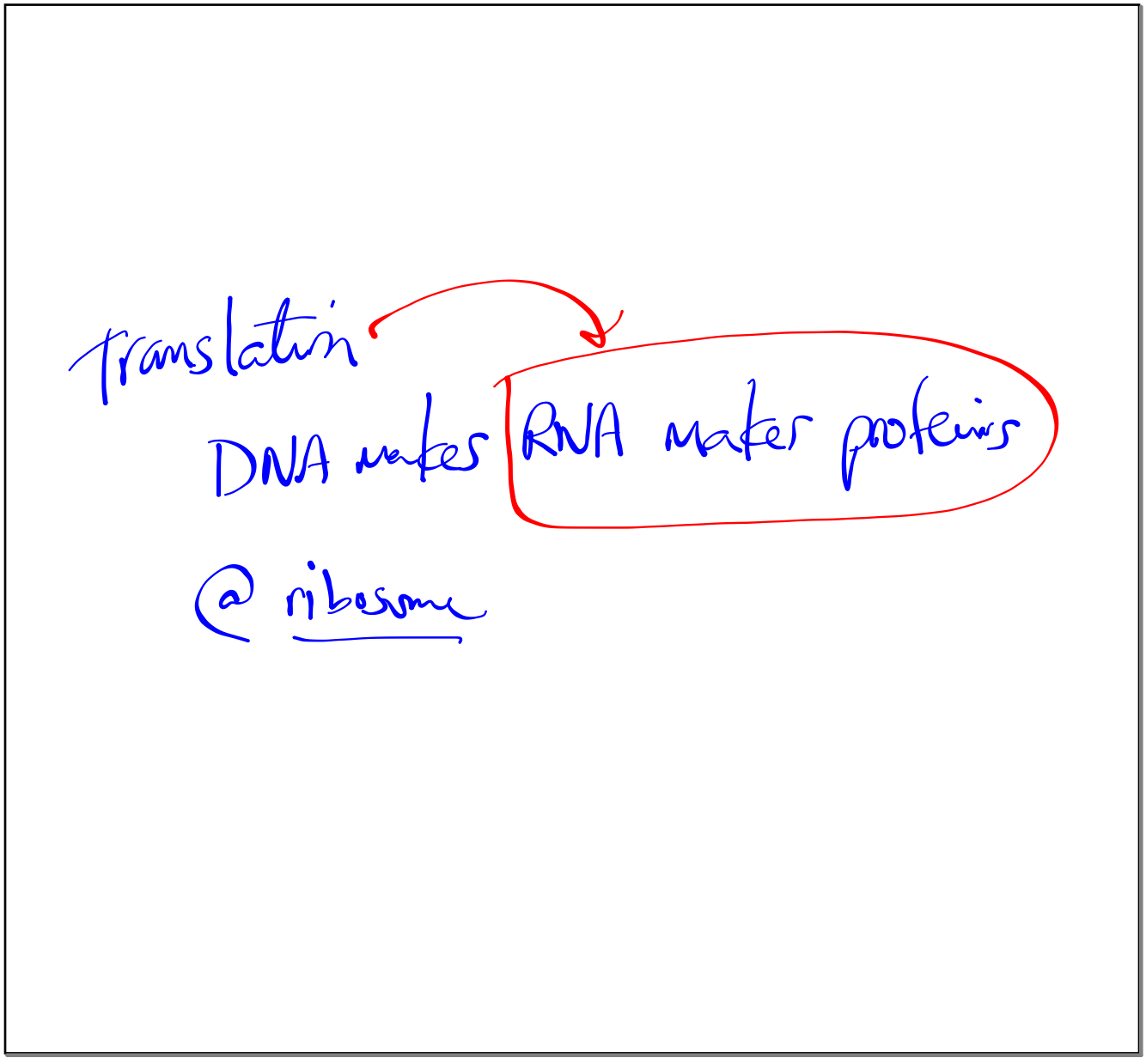


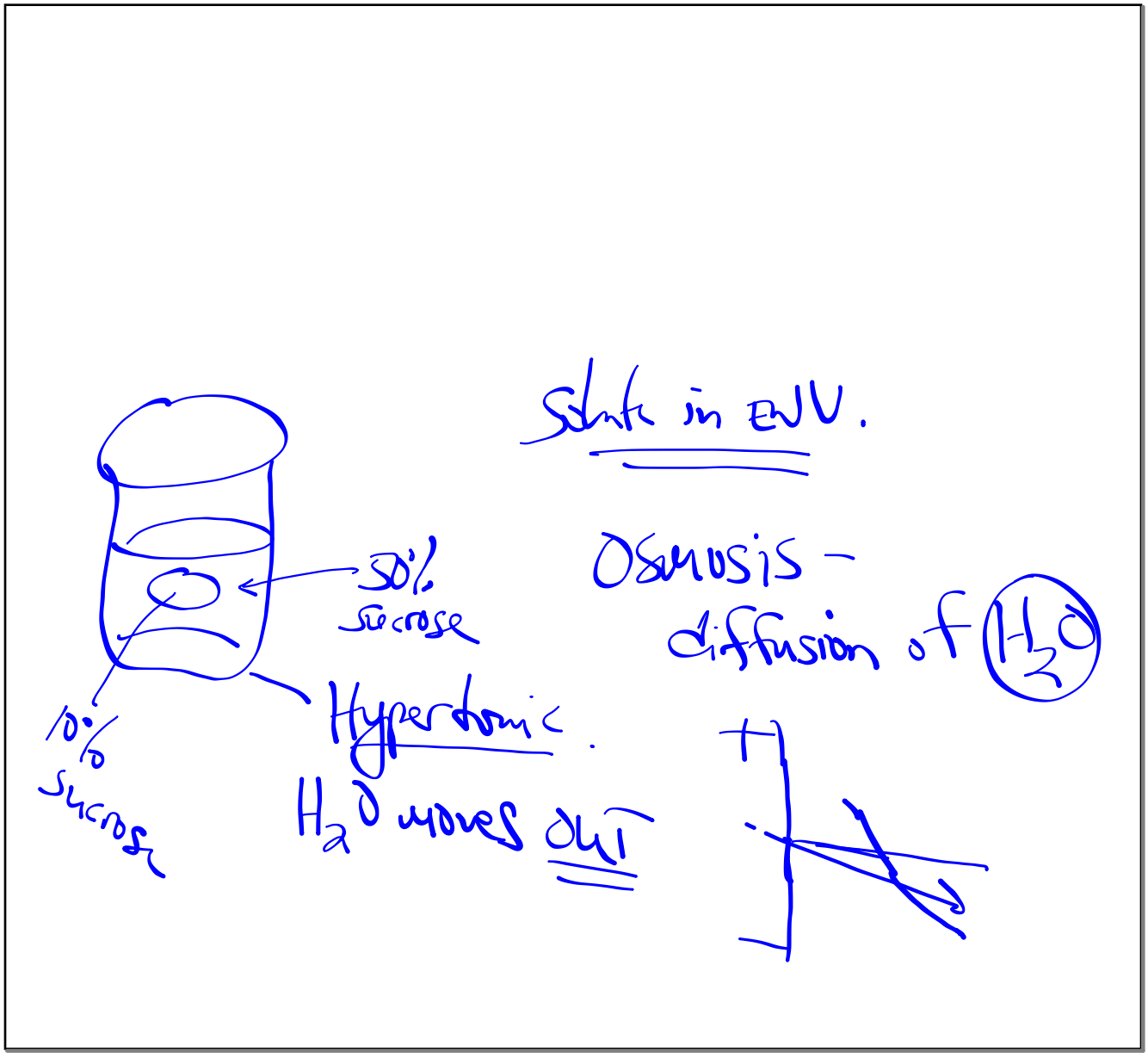
Transcription

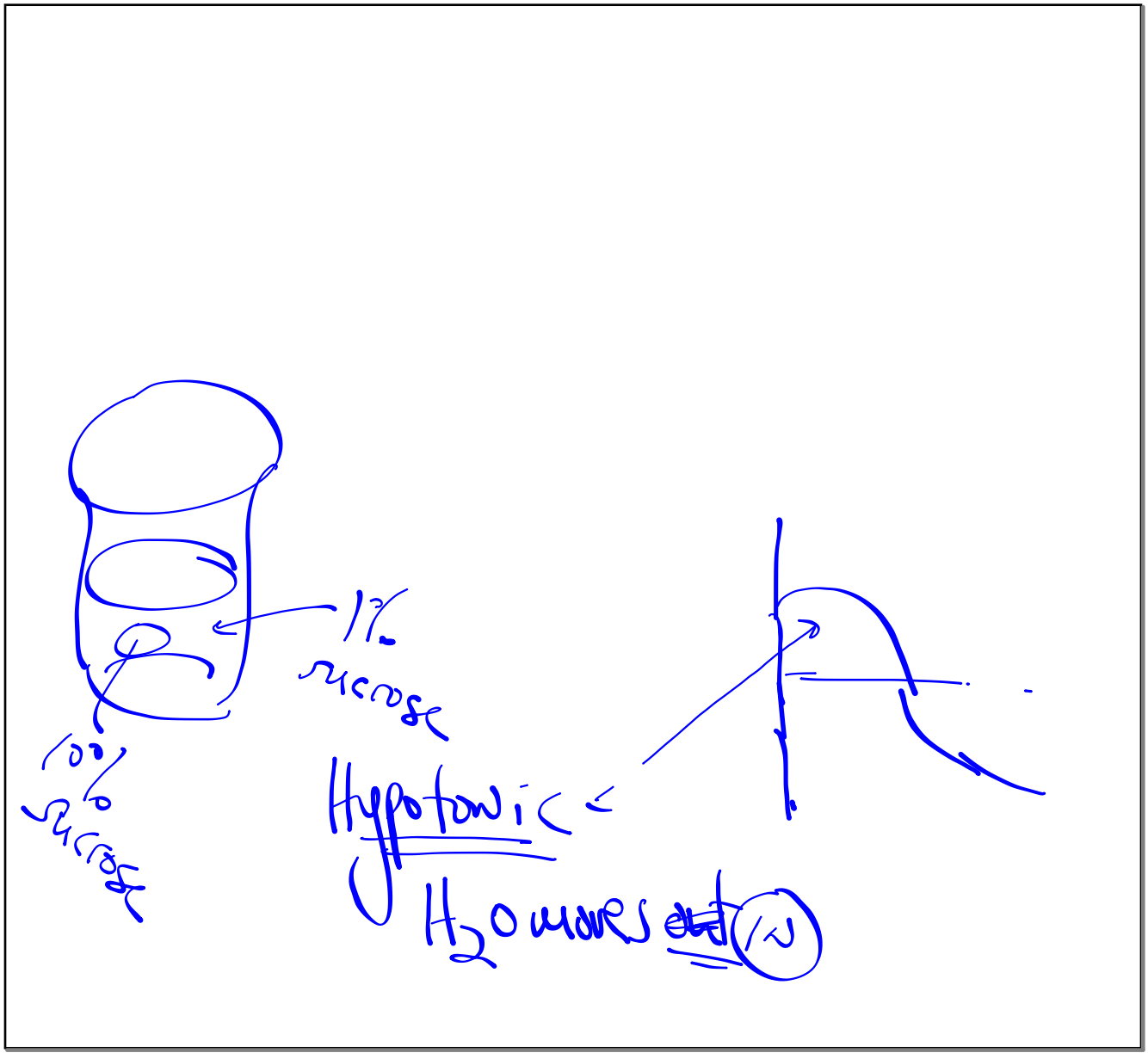
DNA makes RNA makes proteins

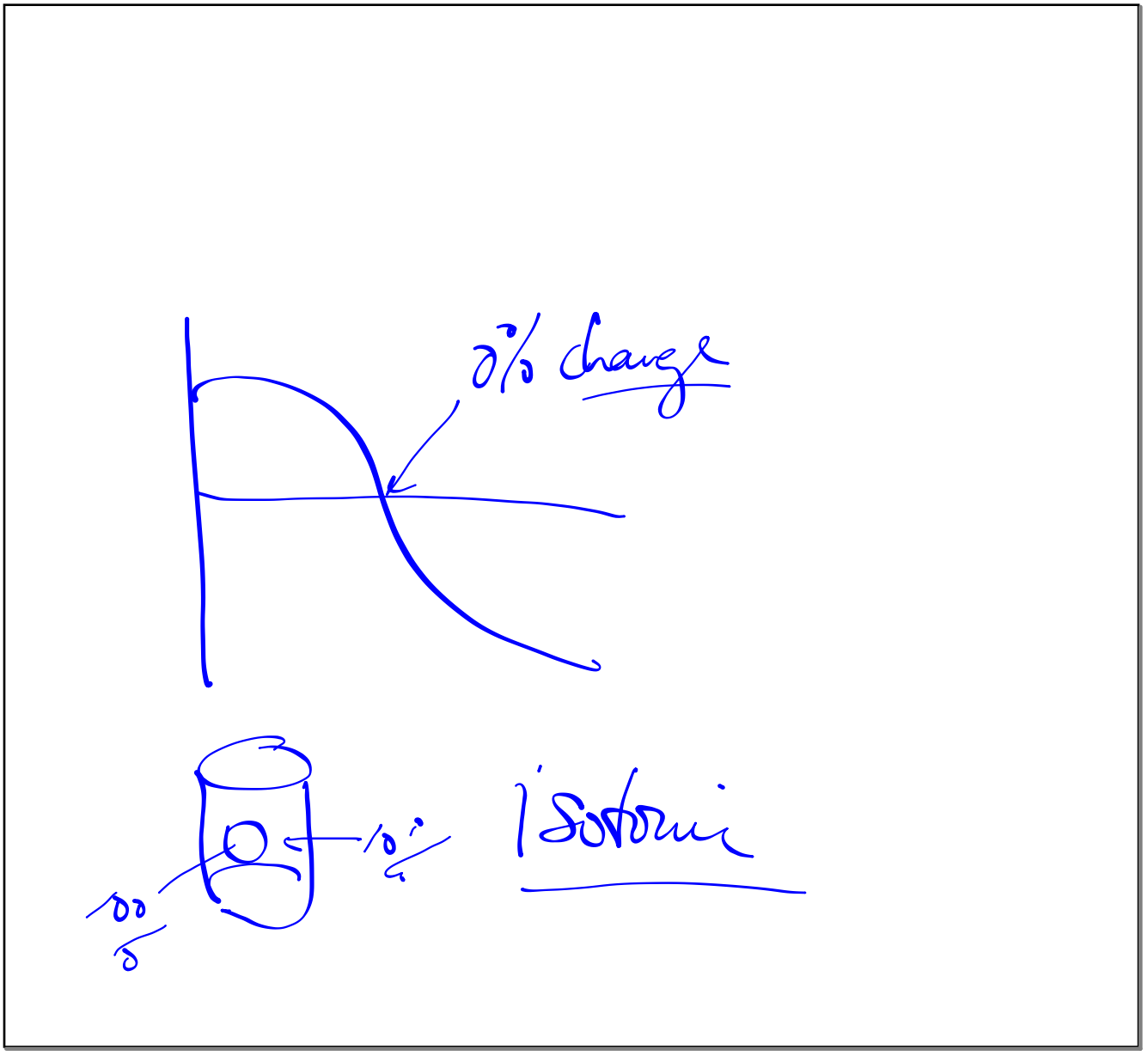
in nucleus

mRNA


translation
DNA makes RNA makes proteins
@ ribosome


Solute in ENV.
OSMOSIS -
diffusion of H_2O
50% sucrose
10% sucrose
Hypertonic.
H_2O moves OUT


1% sucrose
10% sucrose
Hypotonic
H_2O moves in


% change
isotonic