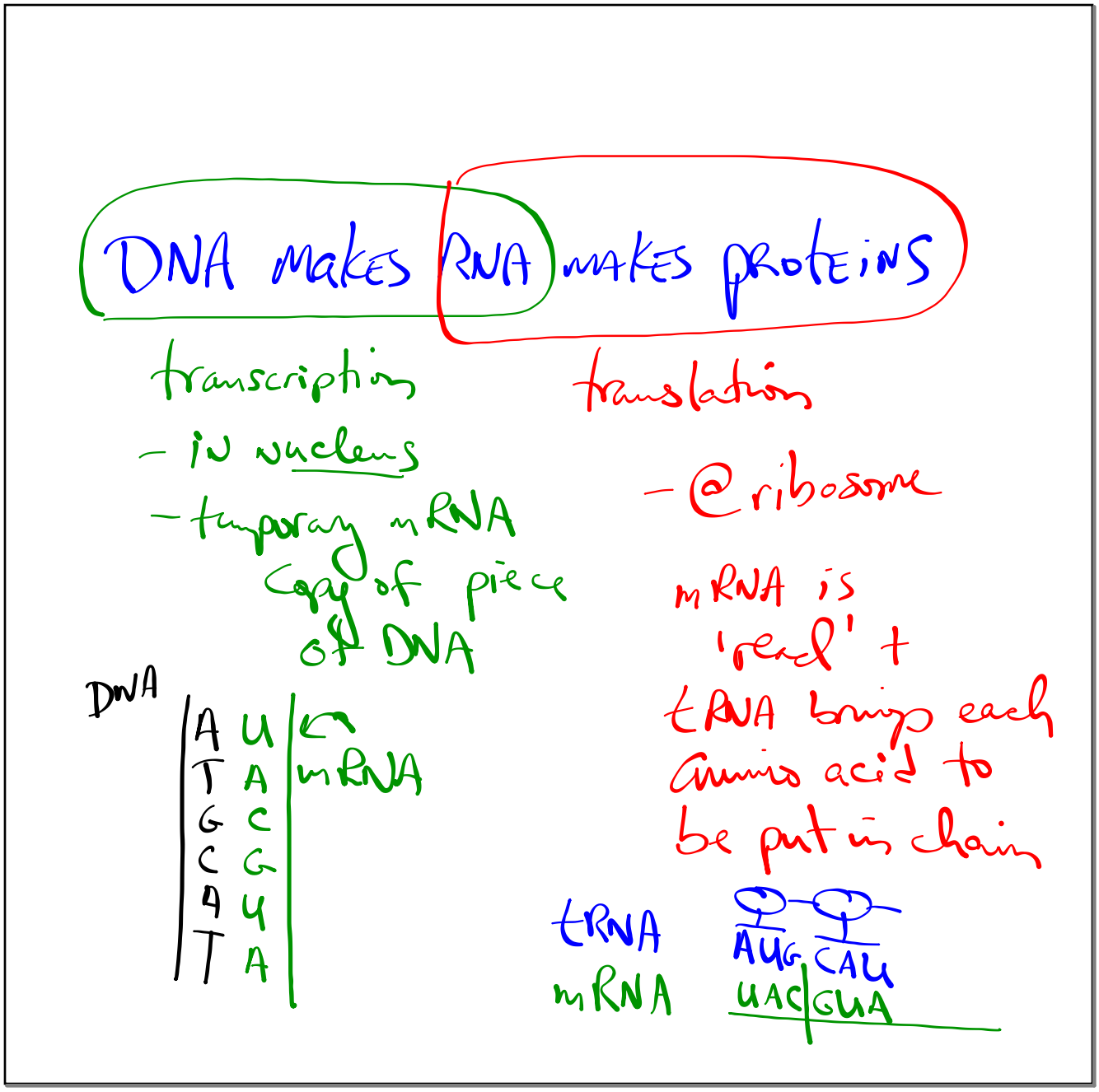
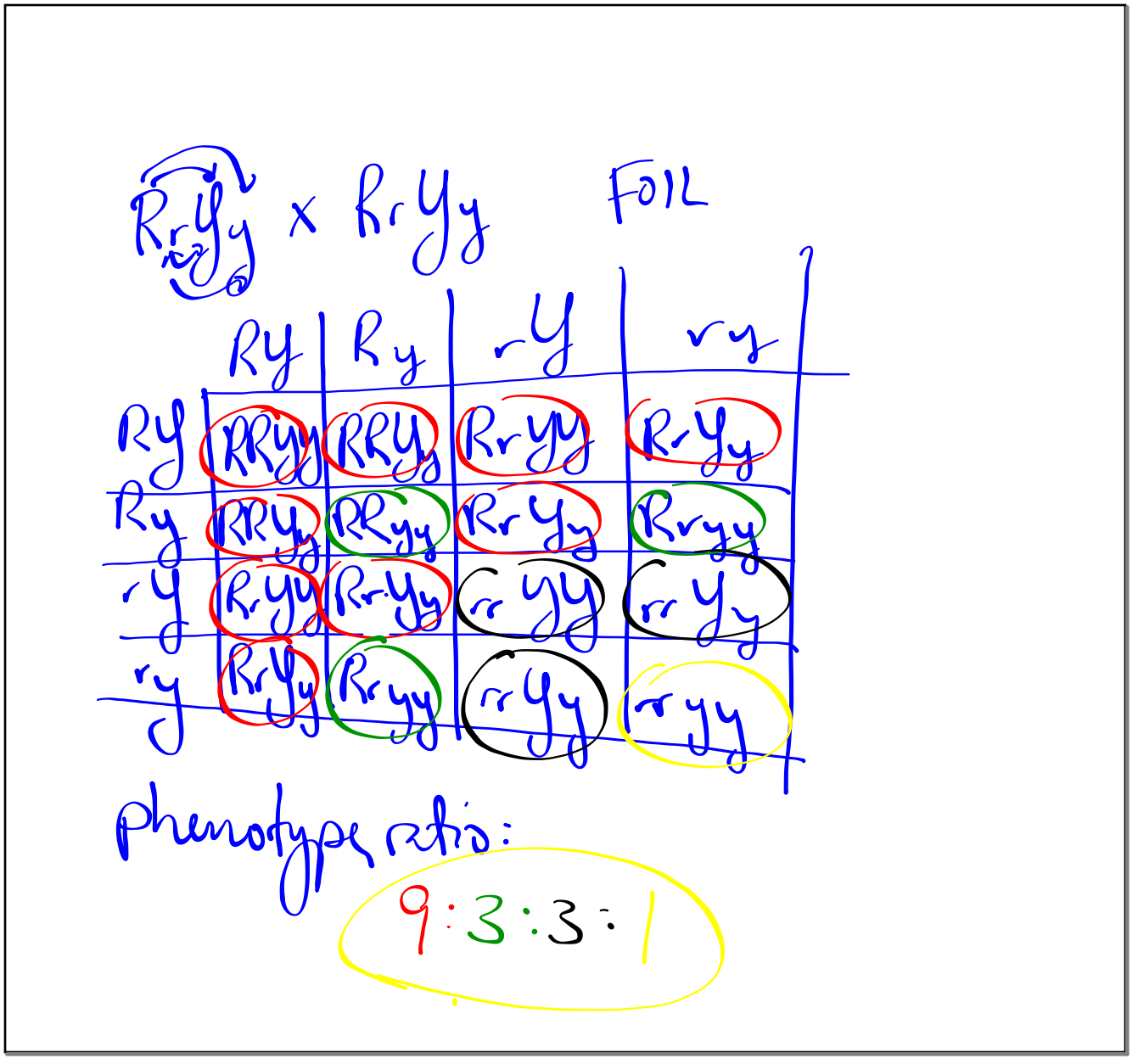
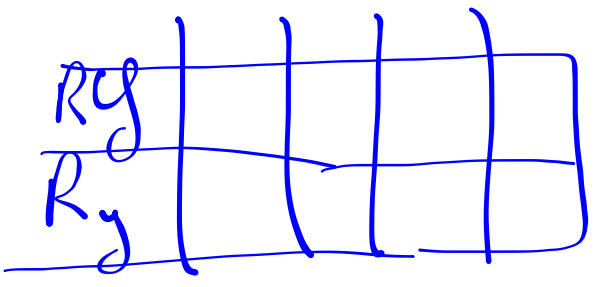

DNA makes RNA makes proteins
transcription
- in nucleus
- temporary mRNA copy of piece of DNA
translation
- @ ribosome
mRNA is 'read' + tRNA brings each amino acid to be put in chain
DNA
A U
T A
G C
C G
A U
T A
mRNA
tRNA
mRNA
AUG CAU
UAC GUA


RrYy x RrYy
FOIL
RY Ry rY ry
RY RRYY RRYy RrYY RrYy
Ry RRYy RRyy RrYy Rryy
rY RrYY RrYy rrYY rrYy
ry RrYy Rryy rrYy rryy
phenotype ratio:
9:3:3:1

$Rr\,y_y \times RRy_y$



Mutations –

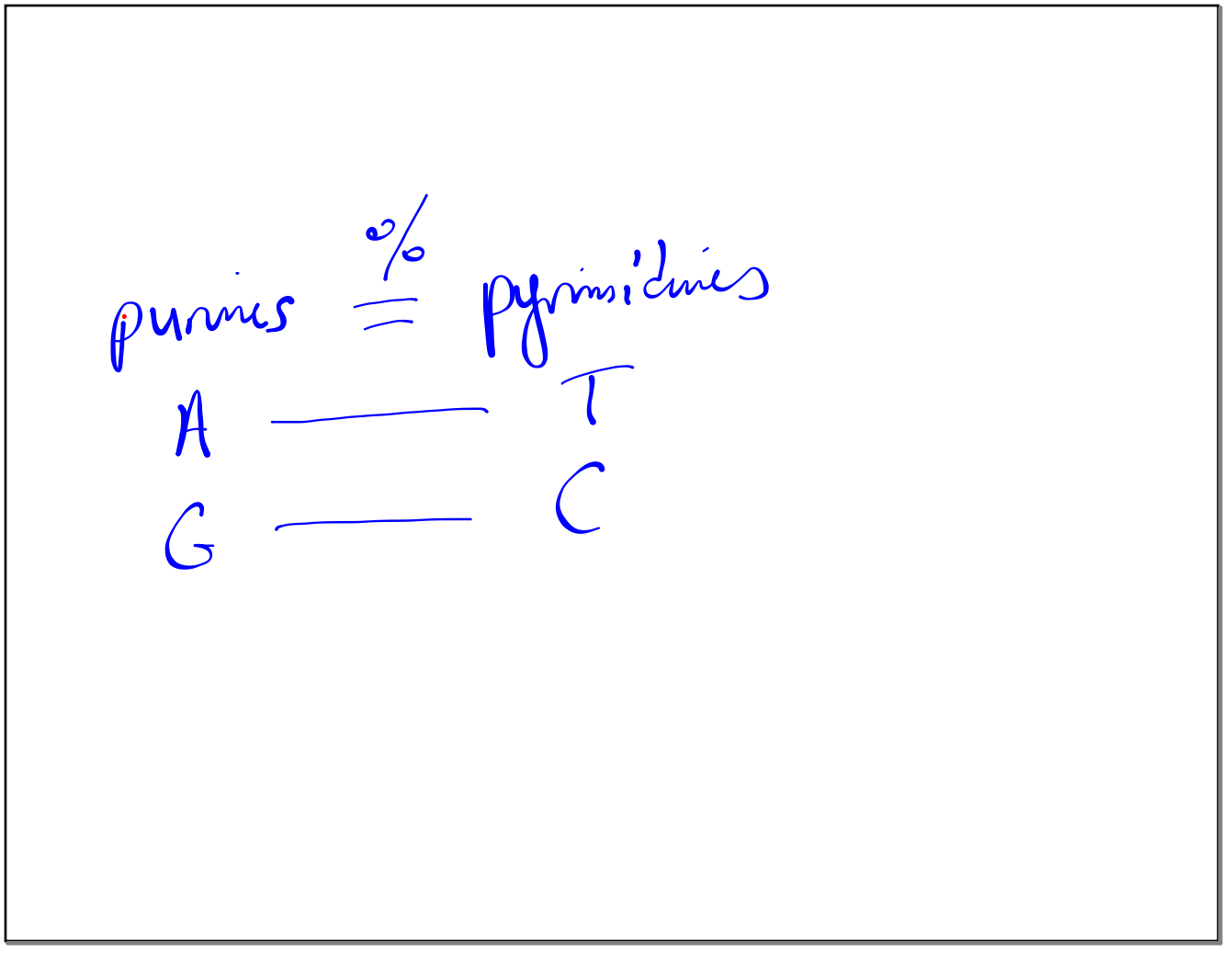
1. Chromosomal
2. Gene
   - point mutations
     - substitution

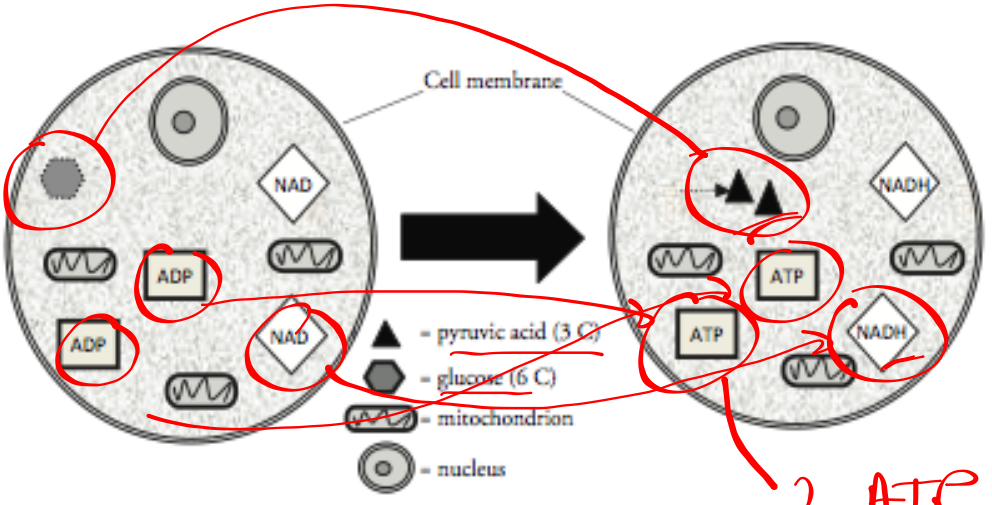
THE FAT CAT ATE THE RAT
THE FIT CAT ATE THE RAT

   - FRAMESHIFT
     - deletions, replications

THE FAT CAT ATE THE RAT

THE FTC ATA TET HER AT

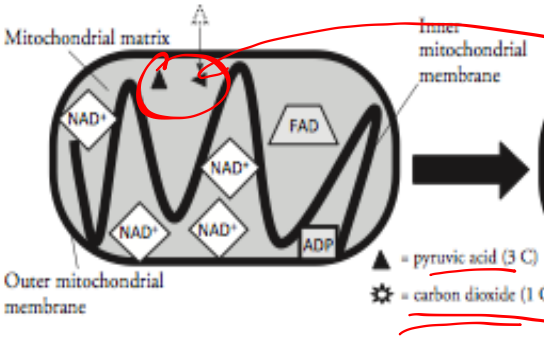

purines = pyrimidines
A — T
G — C



2 ATP

GLYCOLYSIS – ANAEROBIC

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



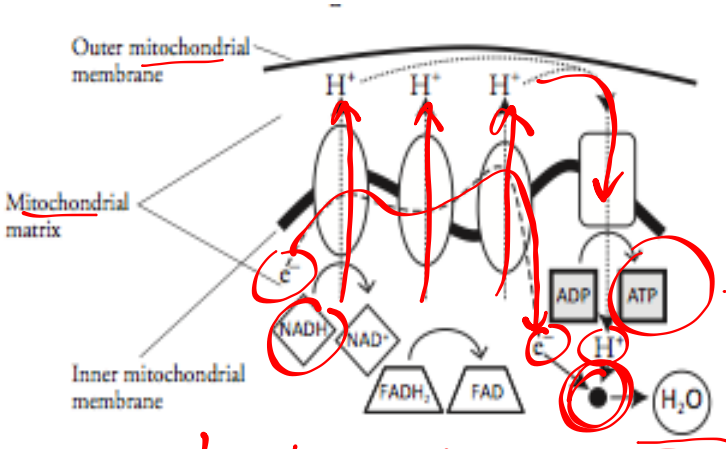
$3CO_2 + 3CO_2$

e⁻

KREBS cycle
- mitochondrion

2 ATP

December 03, 2013



~34 ATP

ELECTRON TRANSP. CHAIN

(mitochondrion) — AEROBIC

Transgenic orgs —
contain DNA from
another organism.

December 03, 2013