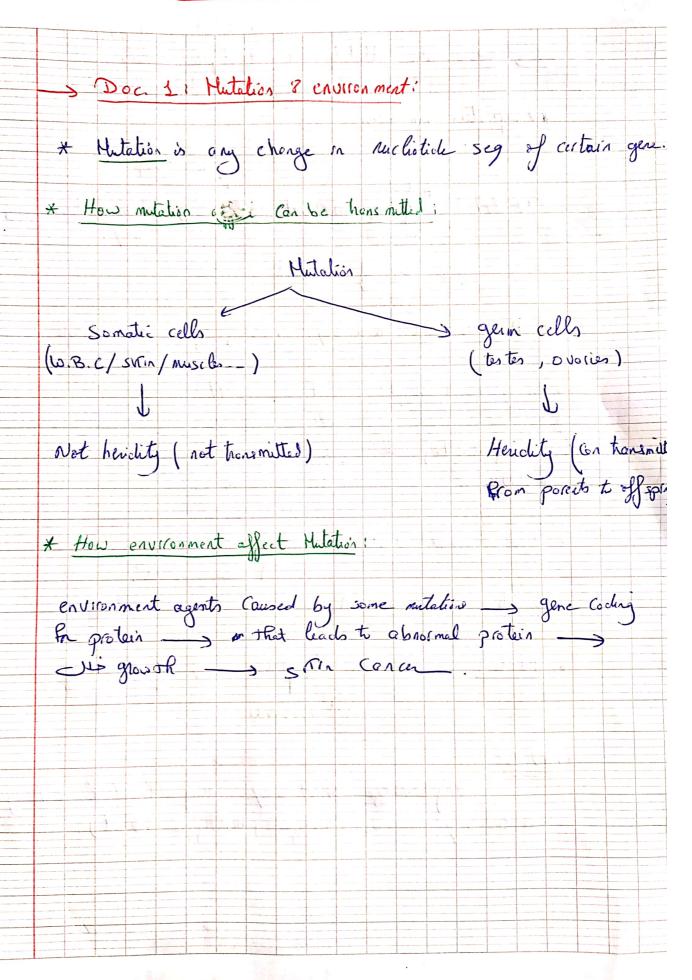
## Chepter 3

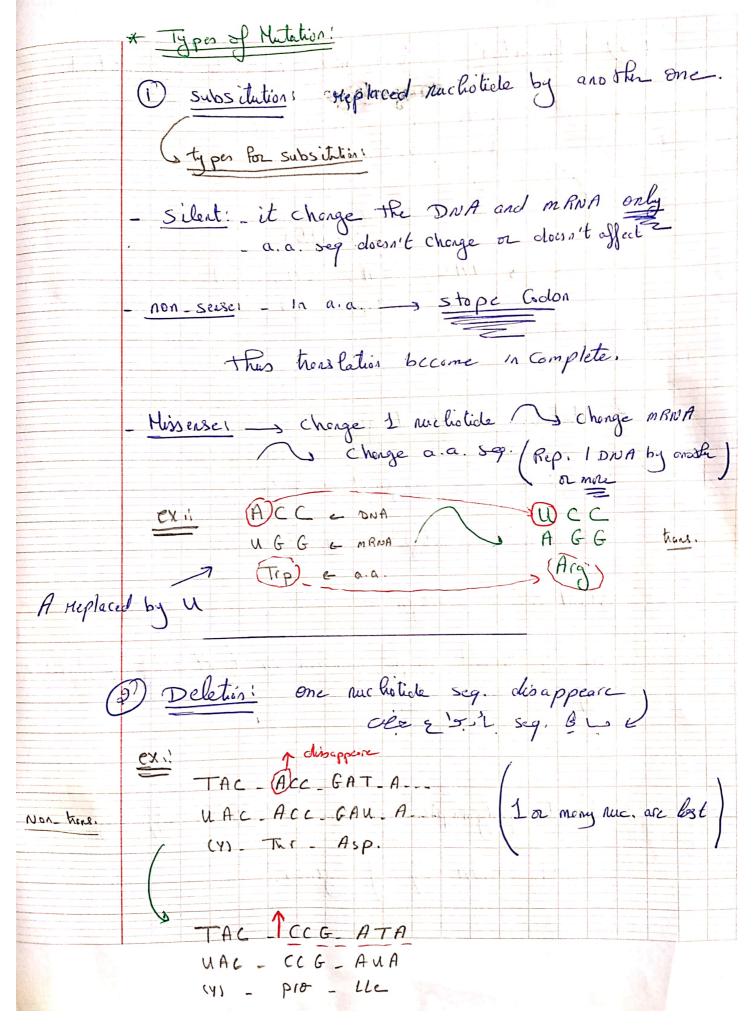


> Doc 9: Hutation 3 multiple allels: \*\* protein synthesis: DNA Pirst step

MRNA by translation amino acid prolein

by transcription

Seg. -> speafie hait \* How to det. a.a. seg. vsing gentic code table · transcribed strand 1 T > A > Complementaly wish C > G MRNA · Non-transcribed strond I identical to mRNA · Note: Codon. (Aug \_\_\_) 1st nucliotide a.a. seg \_\_\_ change phenotype (hait).



Insertion: 1 or more nuclioticle was adoled exii TAC ACC ACG A ... TAC GAC CAC GA \* Mulation in Blood groups -Blood A \_ antigen A on surface \_ 73/00c/ B \_\_ ortigen B // Blood 8 antigen & The 3 Blood groupe Common in (Hantigen), but \* Genetic polymaphin is obse to mutations effecting The DNA seg of genes.

\* How to answer & Compare: \* Comporer statal nis of ruchoticle seg, () or ()

Book ruchisticle seg ere identical

except in (8) triplets where present in

normal but absent in muted. Composes -> number of ruchotide seg of both alleles
or genes identicle except m \_\_\_ ruchotide of
\_\_\_ triplet where \_\_\_ rep. by \_\_\_ (Imp.) \* Q explain how Change n. seg lacks \_\_\_ 8 Mutation by \_\_\_\_ in gene Coding Pa \_\_\_ in \_\_\_ and \_\_\_ trip let \_\_\_\_ belo to ( hange ) mRNA by transcription longer leads to charge a.a seg by translation Change Structure of abnamal + teat

> Doc. 4 1 Detection of genetic polymon phism \* Restriction energies - it at the DNA moletule at specific site. a not of restriction Rayments = not of clerge site + 1 · Size of Mestriction Pragments in normal allel (uts bet in position and position That give Royment of length -اللافيا - اللالي \* Gel electrophorsis? ( techrque wed to sep. DNA Ray ments acc. to their size. large fragments mograte slover shed small fragments DNA migrated to the pole ( from ive ple to the) attraction

> DOC 5: Genetic Identity! \* FISH Methods Steps: - Denaturation I sep of 2 strends of DNA - Hy brickjetism, add a monolows probe that briefs to specific Complementary DNA - Visulizationi Ly Aim to determine the lows of gene on Metaplese Genetic Hap: it Constructed by using of monolous probe wish olyf. Colors to locate mony genes. \* DNA Frage print! (s steps: 1 - Cut the double strand DNA with specific testichion enzyme 2. Electo phores 3 - Southern Blotting -4 - Denaturation & Hybridication 5\_ Auto 6 10 graphy

