

V. DNA vs. RNA

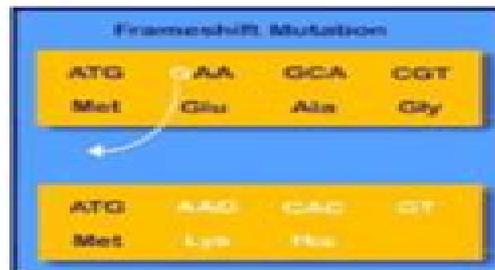
DNA	RNA
<ul style="list-style-type: none">○ Deoxyribose sugar○ Thymine○ Double helix○ Housed in the nucleus○ Longer (many genes)○ 1 type	<ul style="list-style-type: none">○ Ribose sugar○ Uracil○ Single-stranded○ Can go in and out of the nucleus○ Shorter (1 gene length)○ Different types – mRNA, tRNA

Are all mutations bad?

I. Gene Mutations: a random change in the nucleotide sequence of DNA that occurs within a gene

II. Types:

- a. **Frame shift mutation:** gene mutation that shifts the “reading” frame of genetic message by inserting or deleting a nucleotide



- b. **Point mutation:** gene mutation that affects a single nucleotide usually by substituting one nucleotide for another.



Section 12 4 Mutations Answer Key

G Psacharopoulos



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