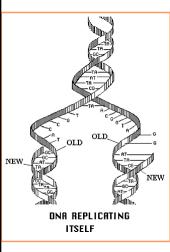
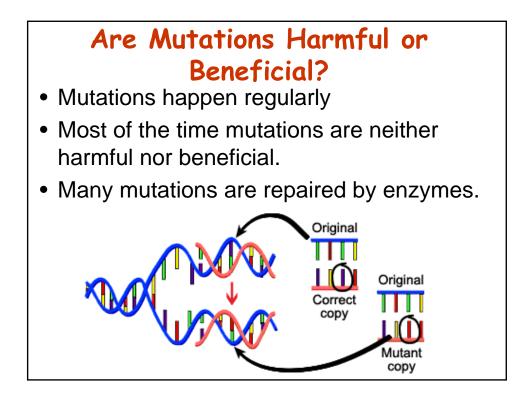
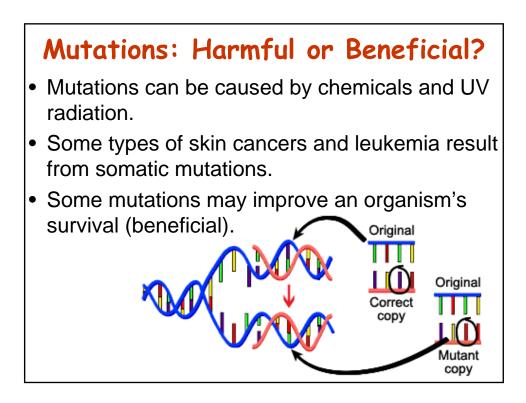


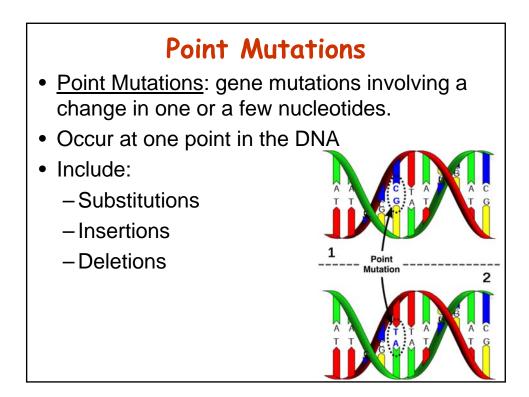
What are mutations?

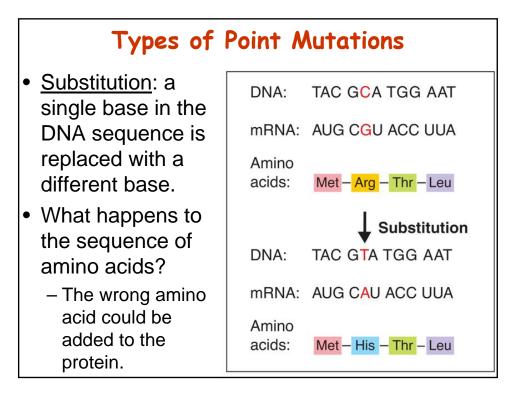


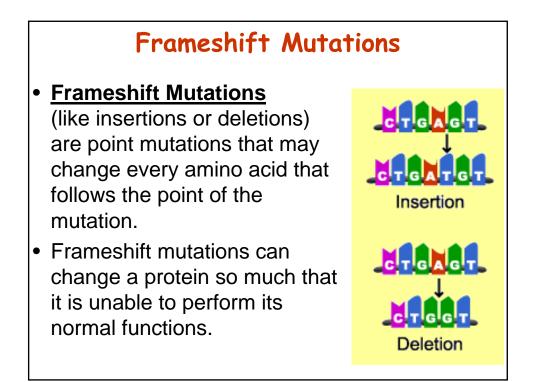
- Changes in DNA that happen when cells make a mistake in copying their own DNA.
- Can happen in body cells (somatic cells) – will not be passed on to offspring.
- Can happen in gametes (egg or sperm cells) – and could be passed on to offspring.

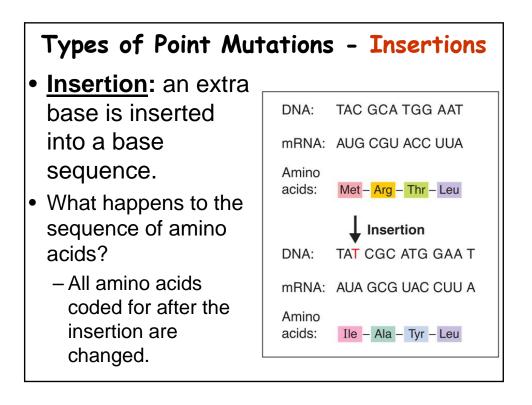


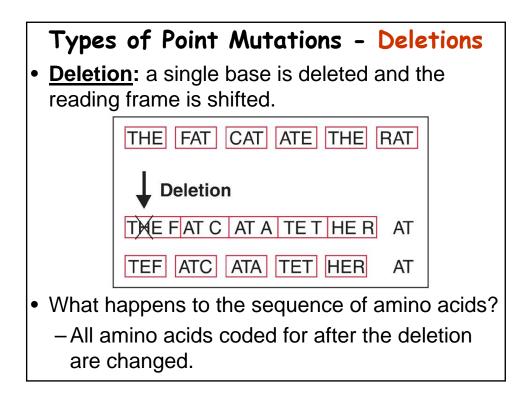












| Normal | Substitution |
|-------------------------------|--------------------------------|
| DNA: TAC G <u>C</u> A TGG AAT | DNA: TAC G <u>A</u> A TGG AAT |
| mRNA: AUG CGU ACC UUA | mRNA: AUG CUU ACC UUA |
| Amino | Amino |
| Acids: Met-Arg-Thr-Leu | Acids: Met(Leu)Thr-Leu |
| Normal | Insertion |
| DNA: TAC G CA TGG AAT | DNA: TA <u>G</u> C GCA TGG AAT |
| mRNA: AUG CGU ACC UUA | mRNA: AUC GCG UAC CUU A |
| Amino | Amino |
| Acids: Met-Arg-Thr-Leu | Acids: Ile-Ala-Tyr-Leu |

| Practice Protein Synthesis and Identify | | |
|---|--|--|
| the Type of Mutation: | | |

| Normal | Deletion |
|-------------------------------|----------------------|
| DNA: TAC G <u>C</u> A TGG AAT | DNA: TAC GA TGG AAT |
| mRNA: AUG CGU ACC UUA | mRNA: AUG CU ACC UUA |
| Amino | Amino |
| Acids: Met-Arg-Thr-Leu | Acids: Met-Leu-Pro- |
| | |