

## Identifying key Mutations

Identify the following:

1. **Substitution mutation:** the replacement of one amino acid by another. Sometimes they are conservative (the replaced amino acid is replaced by another amino acid with similar properties), or the substitution is non-conservative (the replaced amino acid is replaced by another amino acid with different properties).
2. **Insertion mutation:** the addition of one or more amino acids into a protein sequence.
3. **Deletion mutation:** a protein sequence where one or more amino acids are missing from the sequence.
4. **Translocation:** a chromosome segment is moved to another chromosome.
5. **Transposition:** a segment of DNA is moved from one location to another.
6. **Recombination:** the exchange of genetic material between two chromosomes.
7. **Replication:** the process of making a copy of a DNA molecule.
8. **Point mutation:** a mutation that affects only one or a few nucleotides in a DNA sequence.
9. **Indel mutation:** a mutation that involves the insertion or deletion of one or more nucleotides in a DNA sequence.
10. **Frameshift:** a mutation that causes a shift in the reading frame of a gene, resulting in a different sequence of amino acids being produced.

Indel mutations, and a. identify that involve the replacement of one amino acid by another. Sometimes they are conservative (the replaced amino acid is replaced by another amino acid with similar properties), or the substitution is non-conservative (the replaced amino acid is replaced by another amino acid with different properties).

Changes in DNA Sequence	Identify the Type of Mutation
1. Original DNA: <b>ATG</b> GCG TCG Copied DNA: <b>ATG</b> GCG TCG	Conservative
2. Original DNA: <b>ATG</b> GCG TCG Copied DNA: <b>ATG</b> GCG TCG	Point
3. Original DNA: <b>ATG</b> GCG TCG Copied DNA: <b>ATG</b> GCG TCG	Indel
4. Original DNA: <b>ATG</b> GCG TCG Copied DNA: <b>ATG</b> GCG TCG	Frameshift
5. Original DNA: <b>ATG</b> GCG TCG Copied DNA: <b>ATG</b> GCG TCG	Frameshift

# Biology Science Unit 07 Lesson 02

**John W. McConnell**



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