

- There are three categories of mutations, depending on how much DNA is impacted
  - gene mutation affect one or a few nucleotides of one gene
  - chromosomal mutations affect many genes on one or more chromosomes
  - aneuploidy affects whole chromosomes

### WHAT ARE GENE MUTATIONS?

- Gene mutations may involve a single (or a few) nucleotides
  - They typically have less of an impact than chromosomal mutations, because they involve changes to the DNA on a smaller scale
    - Nucleotides vs genes

- There are 3 types of gene mutations:

- Substitution (or Point mutation): One nucleotide is switched out (substituted) for another
  - Only 1 codon is affected



- Insertion: One or more nucleotides are added to the DNA sequence
  - Frameshift mutation
- Deletion: One or more nucleotides are removed from the DNA sequence
  - Frameshift mutation
- Indel: One or more nucleotides are inserted or deleted from the DNA sequence
  - Frameshift mutation



# Gene And Chromosome Mutation Answer Key

**Tao Wei**



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