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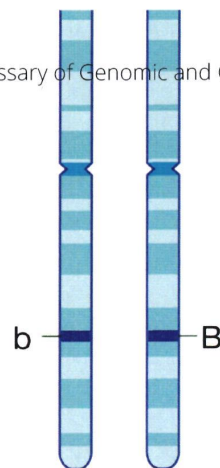
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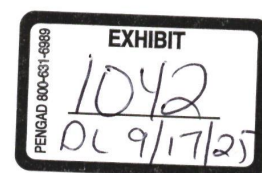
ALLELE

updated: September 16, 2025



En Español

Definition



00:03



00:46

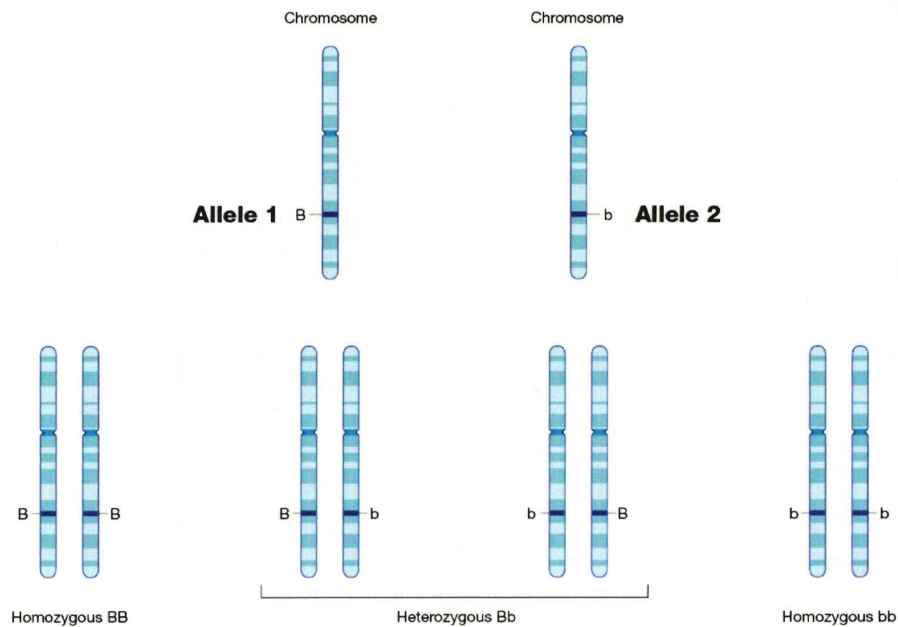


An allele is one of two or more versions of DNA sequence (a single base or a segment of bases) at a given genomic location. An individual inherits two alleles, one from each parent, for any given genomic location where such variation exists. If the two alleles are the same, the individual is homozygous for that allele. If the alleles are different, the individual is

<https://www.genome.gov/genetics-glossary/Allele>[9/16/2025 3:11:25 PM]

Allele

heterozygous.



none;
}

Narration



00:00



00:48



"Allele" is the word that we use to describe the alternative form or versions of a gene. People inherit one allele for each autosomal gene from each parent, and we tend to lump the alleles into categories. Typically, we call them either normal or wild-type alleles, or abnormal, or mutant alleles.

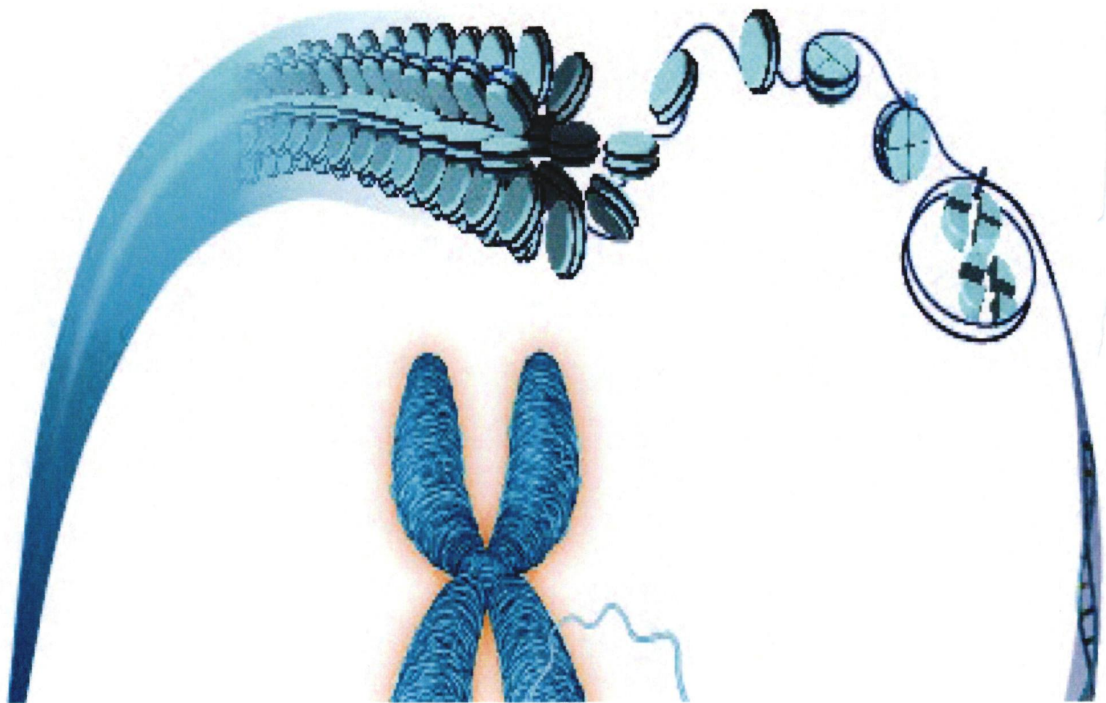
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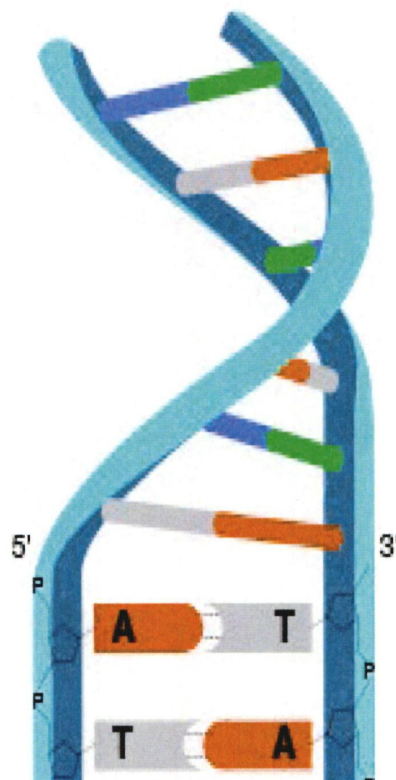


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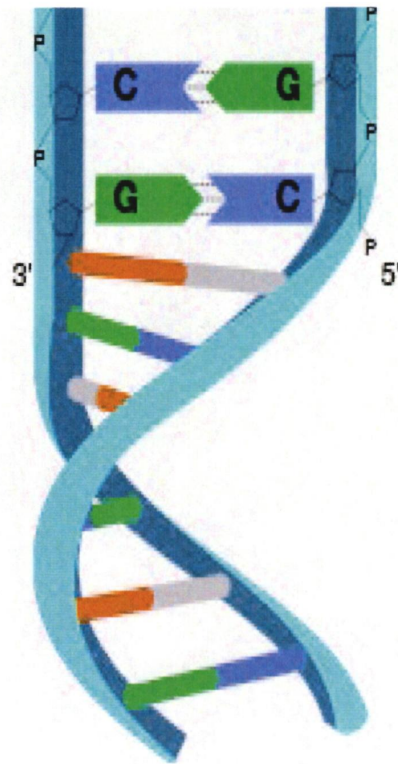


Chromosome

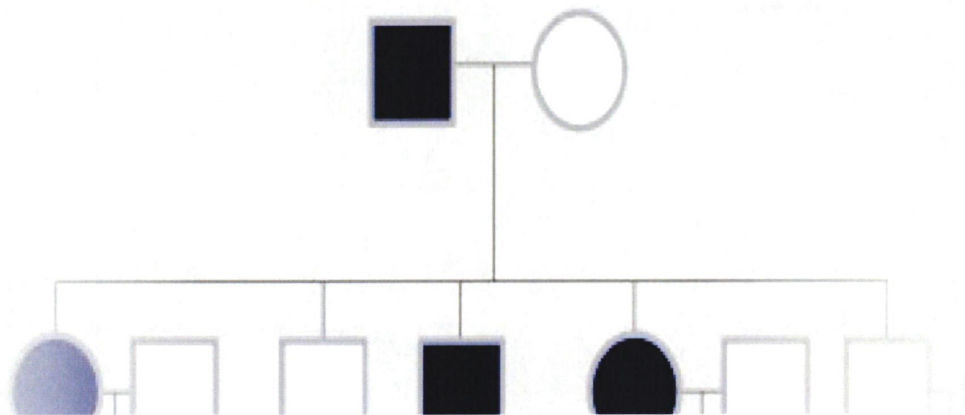


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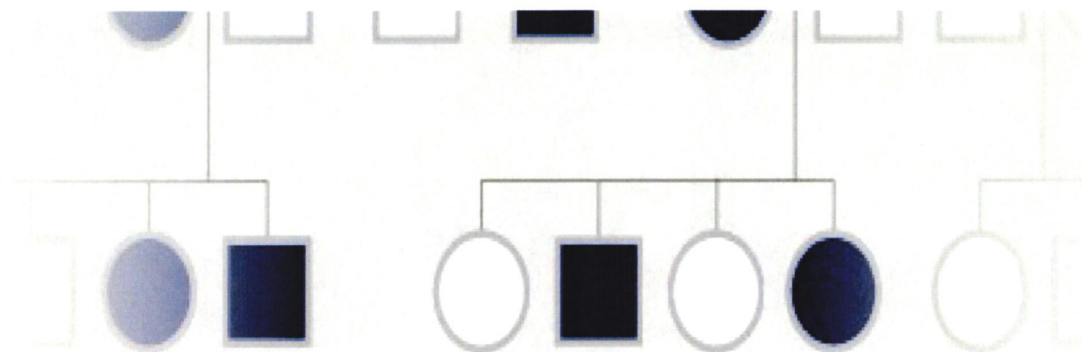


Deoxyribonucleic Acid (DNA)

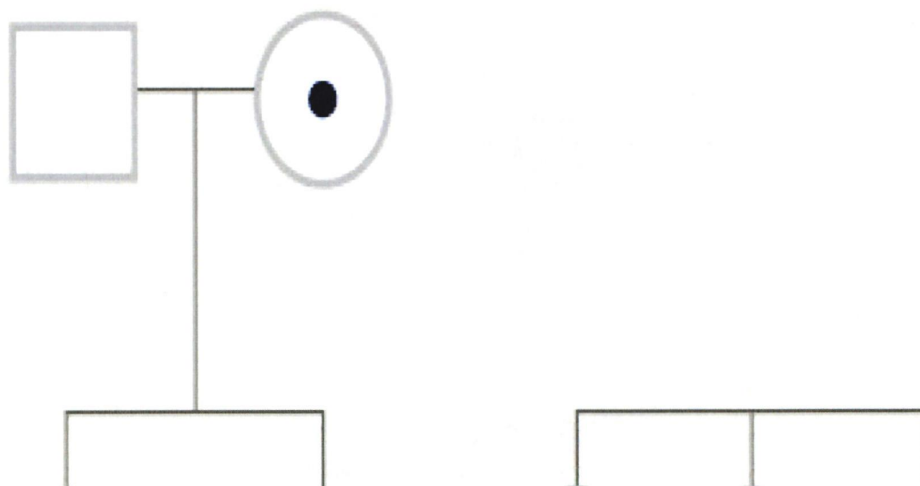


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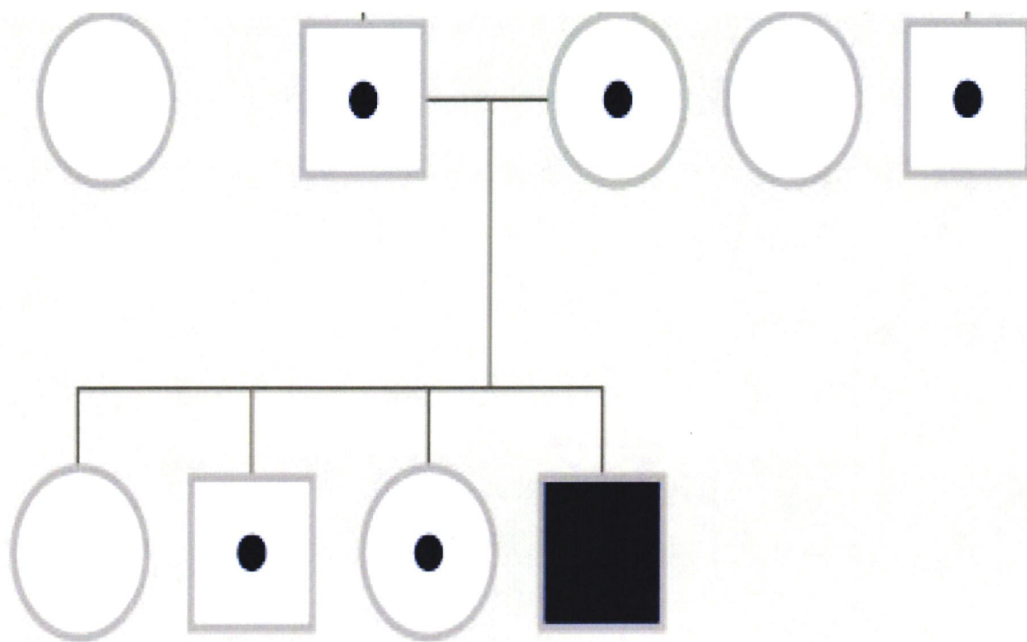


Dominant Traits and Alleles



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Recessive Traits and Alleles

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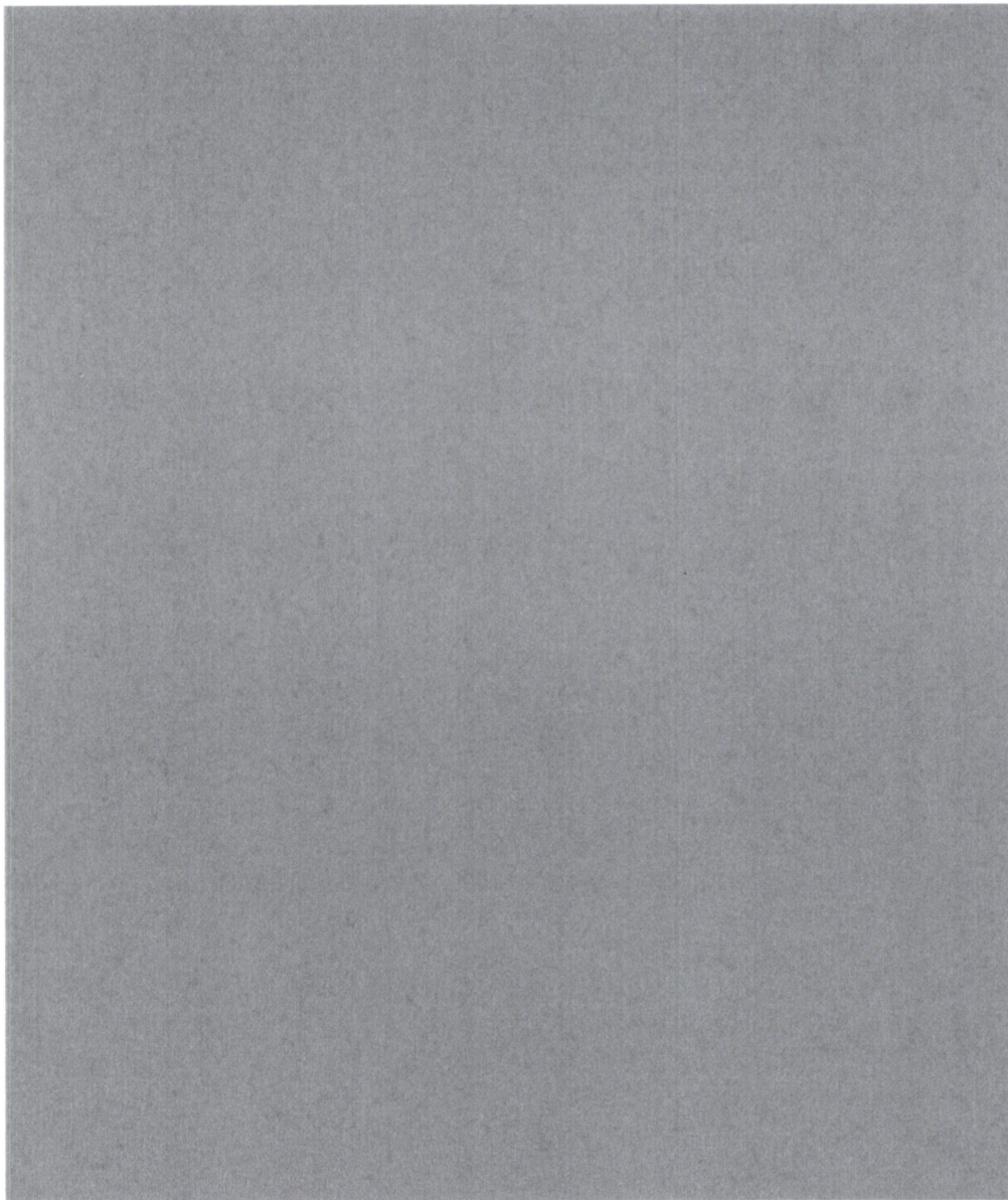
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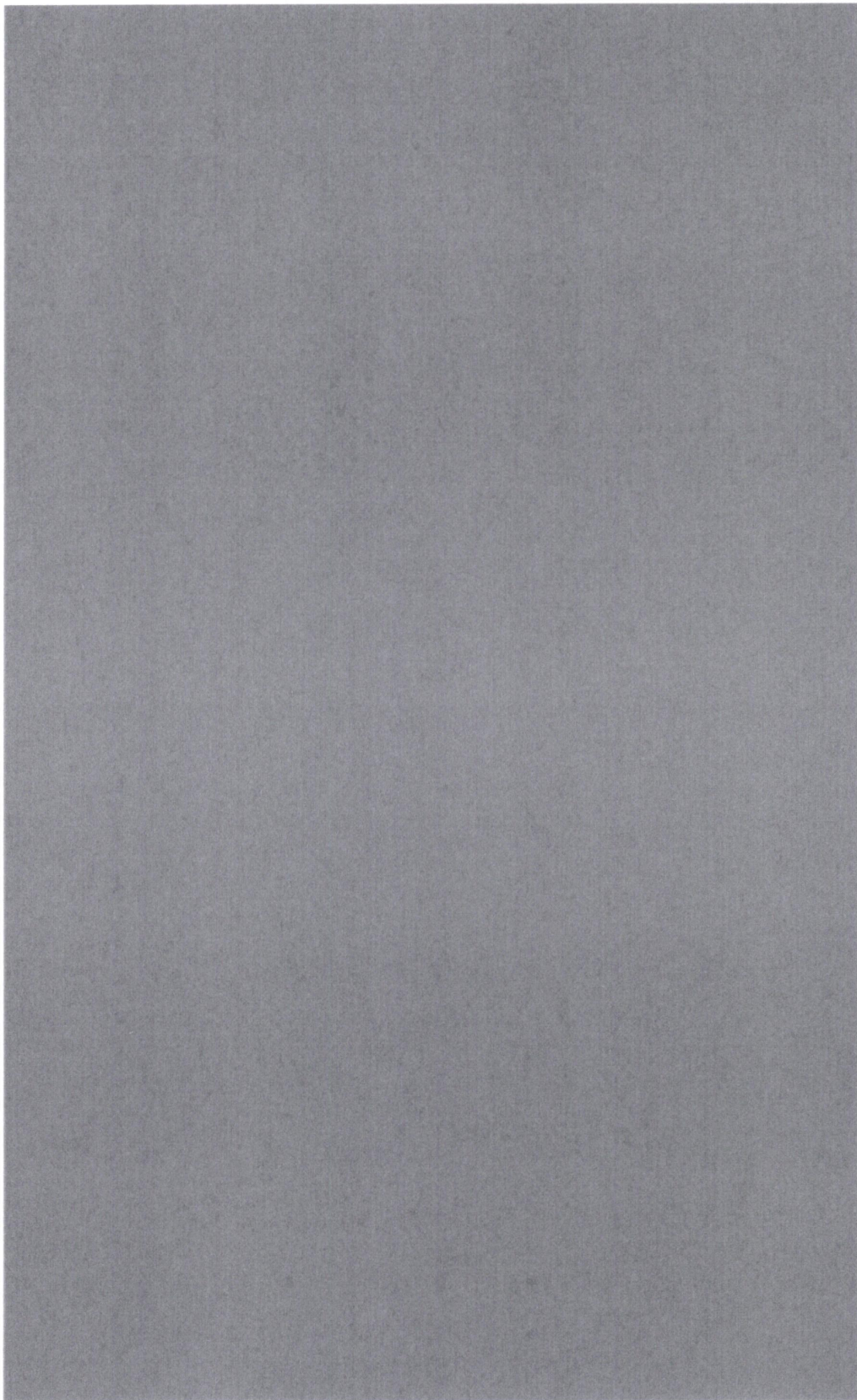
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Allele



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