

# Autosomal & Sex-Linked Genes



Genes on one or other of the sex chromosomes produce inheritance patterns different from that shown by autosomes:

## Autosomal Genes

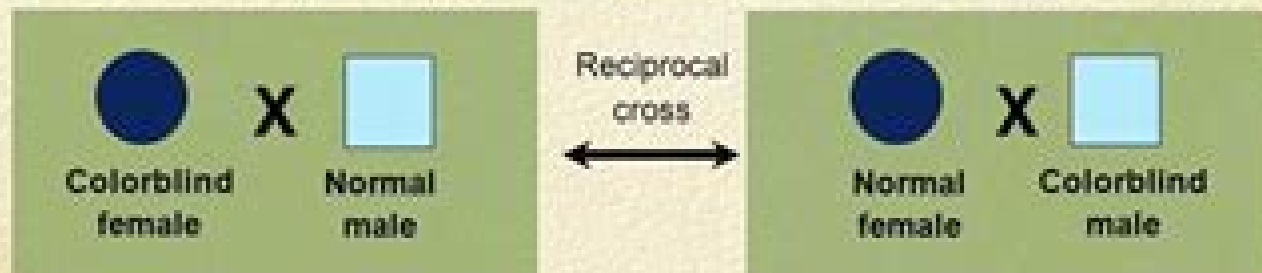
1. All individuals carry two alleles of each gene
2. Dominance operates in both males and females
3. Reciprocal crosses produce the same results
4. Alleles passed equally to male and female offspring

## Sex-Linked Genes

1. Males carry only one allele of each gene (hemizygous)
2. Dominance operates in females only.
3. Reciprocal crosses produce different results.
4. 'Criss-cross' inheritance pattern: father to daughter to grandson, etc

## Reciprocal Cross

A reciprocal cross involves a pair of crosses in which the phenotypes of the partners are reversed:



Different results from the two crosses indicate that sex-linkage of the gene is controlling the trait

# Genetics Problem Solving Crosses Involving Two Traits

## Answer

**Jane B. Reece, Noel Meyers, Lisa A.  
Urry, Michael L. Cain, Steven A.  
Wasserman, Peter V. Minorsky**

## **Genetics Problem Solving Crosses Involving Two Traits Answer:**

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