

Sex-Linked Traits & Crosses

- Traits Carried on X & Y chromosome

- Remember

Female = XX
Male = XY

- A sex-linked gene is located on a sex chromosome

- Genes on Y chromosome are passed from father to son

- Genes on X chromosome are passed from mother to both sons & daughters

• Ex: Color-blindness

• These traits are more common in males because if they inherit the recessive allele from their mom, there is no allele inherited from Dad to hide the trait

- Expressed as:

$X^A X^A$

$X^A X^a$

$X^a X^a$

$X^A Y$

$X^a Y$

Example: Cross a female who is a carrier with a normal male. Show the Punnett square