

Sex-Linked Traits

When an allele is linked with the X or Y chromosome. For X-linked traits, two recessive alleles are needed for a recessive phenotype in women. For both X-linked and Y-linked traits, one recessive allele is needed for a recessive phenotype in males.

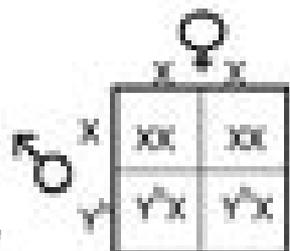
Ex.) color blindness (x-linked), ear hair (Y-linked)

Y-Linked Trait:

Trait: Hairy Ears

Genes: X, Y

Alleles: X = female,
Y^h = male,
not hairy



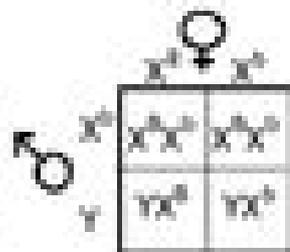
Genotype **Phenotype**
50% XX Female
50% XY^h Male, hairy ears

X-Linked Trait:

Trait: Color blindness

Genes: X^h, X^H, Y

Alleles: X^H = normal
X^h = color blind
Y = male



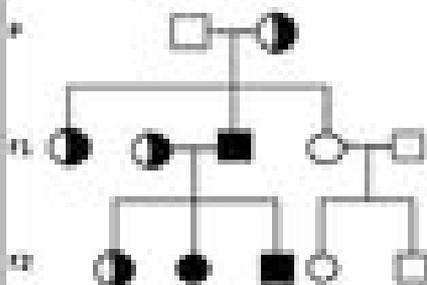
Genotype **Phenotype**
50% X^HX^H Female, normal
25% Y X^H Male, normal
25% Y X^h Male, colorblind

Models of Inheritance

- Dominant - Recessive
- Incomplete Dominance
- Codominance
- Sex-Linked (X and Y)
- Multiple Alleles

Can be illustrated (P, F1, F2, F3 etc.)
across generations using a

PEDIGREE



Hints:

- indicates pairing relationship
- | indicates parent-offspring relationship
- Write allele combinations of individuals
- next to symbols on the pedigree to help
- Identify appropriate model of inheritance!

Ex. X^hY^h X^HY

Multiple Alleles

When alleles for different genes at multiple loci (locations on the chromosome) travel together due to proximity on a chromosome.

Ex.) fur color and texture in guinea pigs or dogs

Trait 1: Fur color

Gene: B

Alleles: B = Black
b = yellow

Trait 2: Fur texture

Gene: S

Alleles: S = straight
s = curly

Step 1: Use the genotype of parents to determine possible gamete combinations (first Outer from left).

Mom: BbSs → BS, Bs, bS, bs

Dad: bbSs → bS, bs, bS, bs

Step 2: Use gametes in a punnett square to

determine possible genotypes/phenotypes of F1.

Hint: Do one gene (B or S) at a time, starting from the top, working down, column by column.

| | | | | |
|----|------|------|------|------|
| | BS | Bs | bS | bs |
| bS | BbSS | BbSs | bbSS | bbSs |
| bS | BbSS | BbSs | bbSS | bbSs |
| bs | BbSs | Bbss | bbSs | bbss |
| bs | BbSs | Bbss | bbSs | bbss |

Genotype **Phenotype**
 (2/16) = 12.5% BbSS Black, straight fur
 (4/16) = 25% BbSs Black, straight fur
 (2/16) = 12.5% Bbss Black, curly fur
 (2/16) = 12.5% bbSS Yellow, straight fur
 (4/16) = 25% bbSs Yellow, straight fur
 (2/16) = 12.5% bbss Yellow, curly fur
 (16/16) = 100%

Mendelian Genetics Review Answers

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step 3 make sure the arrows are pointing up on your rainbow loom this is the way it will stay while you lay the rubber bands on ask question step 4 now place the first color you chose on the pegs like so

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