

Sex-Linked Traits

1. What makes something sex-linked trait instead of just a regular trait.

2. Are males or females be more susceptible (likely to be affected) to sex-linked diseases? Explain.

3. Hemophilia is a sex-linked trait found on the X chromosome. To get this disease, a person must have a recessive copy of the gene (h) on every X chromosome. Predict the genotypic and phenotypic probabilities of the offspring if a woman who was a carrier for the disease had a baby with a man who had the disease.

Genotype of one parent: _____

Genotype of other parent: _____

GENOTYPE: _____

PHENOTYPE: _____

4. Color Blindness is also a sex-linked trait found on the X chromosome. To become color blind, a person must have a recessive copy of the gene (b) on every X chromosome. Predict the genotypic and phenotypic probabilities of the offspring if a woman who has no history of color blindness in her family (B) had a baby with a man who was color-blind.

Genotype of one parent: _____

Genotype of other parent: _____

GENOTYPE: _____

PHENOTYPE: _____