

GENETICS: X LINKED GENES

****In fruit flies, eye color is a sex linked trait. Red is dominant to white ****

1. What are the sexes and eye colors of flies with the following genotypes:

$X^R X^r$ Red $X^R Y$ Red $X^r X^r$ White
 $X^R X^R$ Red $X^r Y$ White

2. What are the genotypes of these flies:

white eyed, male $X^r Y$ red eyed female (heterozygous) $X^R X^r$
 white eyed, female $X^r X^r$ red eyed, male $X^R Y$

3. Show the cross of a white eyed female $X^r X^r$ with a red-eyed male $X^R Y$.

	X^R	X^r
X^r	$X^R X^r$	$X^r X^r$
Y	$X^r Y$	$X^r Y$

4. Show a cross between a pure red eyed female and a white eyed male.

What are the genotypes of the parents: $X^R X^R$ & $X^r Y$

	X^R	X^r
X^R	$X^R X^R$	$X^R X^r$
Y	$X^R Y$	$X^r Y$

How many offspring are:

- white eyed, male 0
- white eyed, female 0
- red eyed, male 50%
- red eyed, female 50%

5. Show the cross of a red eyed female (heterozygous) and a red eyed male. What are the genotypes of the parents? $X^R X^r$ & $X^R Y$

	X^R	X^r
X^R	$X^R X^R$	$X^R X^r$
Y	$X^R Y$	$X^r Y$

How many offspring are:

- white eyed, male 25%
- white eyed, female 0
- red eyed, male 25%
- red eyed, female 50%

Math: What if in the above cross, 100 males were produced and 200 females. How many total red-eyed flies would there be? 250

The Origin Of Genetics Answer Key

Jiyuan Zhang



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