

Study Guide Chapter 15 -Chromosomal Basis of Inheritance- Answers

15.1 Mendelian Inheritance and chromosome theory_____

1. Thomas Hunt Morgan identified the first solid evidence
associating a specific___gene_____ on a specific chromosome.

2. Why did Morgan choose *Drosophila* as his experimental
organism? (List 3 reasons)

They reproduce quickly, a new generation of adults forms every
two weeks!

Prolific (single matting = hundreds of offspring)

Only 4 chromosome pairs = simple genetics

3A. The normal phenotype for a character (phenotype most
common in nature) is called___wild type_____.

3B. Provide at least two examples this phenotype in *Drosophila*.
Red eyes

gray body

4A. An alternative phenotype for a character (phenotype not
common in nature) is called___mutant_____.

4B. Provide at least two examples of this phenotype in
Drosophila.

White eyes

Black body

5. Morgan and his students invented a notation to symbolize
alleles in *Drosophila* that differed from the notation Mendel
used to represent alleles. Describe how Morgan's *Drosophila*
characters are named and the symbol used for the allele type.

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