

Activity 1: 10/10/2025

Reading: read the first two sections on genetic variation in *peromyscus crinitus* (last section on the following questions) to understand the principles of the concepts discussed in the lecture.

1. Match each of the following changes in chromosome structure to its definition:

☒ A. Deletion

☐ B. Duplication

☐ C. Inversion

☐ D. Translocation

1a. a section of a chromosome is inserted

1b. a piece of a chromosome is deleted

1c. a segment of one chromosome has moved to a different chromosome

1d. a section of a chromosome appears twice or more times in a cell

2. How many genetically different gametes can be produced from a diploid cell with four chromosomes pairs? Explain your answer.

Answer: The number of genetically different gametes that can be produced is equal to 2^n , where n is total number chromosomes pairs. A diploid cell with four chromosomes pairs contains 8 chromosomes. $2^4 = 16$ genetically different gametes.

3. Although you observed a combination of traits from your parents, you recognize that some traits carry the less frequent chromosomes. For example, both mother and your father's eyes may have blue but inherited together?

Answer: That's correct. In genetics, you should use the same chromosome. For example, blue eye chromosomes are inherited together, and a heterozygous pair of genes only passes either heterozygous chromosomes. Since both will be found in the same chromosome in the gametes, parents' heterozygous will be inherited together.

4. Describe the alignment of chromosomes during prophase I, write the sequence:

During prophase I, homologous chromosomes and non-homologous chromosomes align together, called synapsis. This is a synapsis because it allows the homologous chromosomes to interact and exchange genetic material.

5. How does recombination lead to chromosomes with new combinations? Describe how types of genetic inheritance that can result from recombination.

Genes And Variation Worksheet Answers

Marcel A. Müller



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