

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 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. is a section of a chromosome is missing

1b. is a piece of a chromosome is deleted

1c. is a segment of a chromosome has been reversed (inverted, translocated, chromosome)

1d. is a section of a chromosome appears to be or more times as it is

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 can produce gametes of 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 offspring may have traits but inherited together?

Answer: That's correct. In general, you should see the same chromosomes. For example, you see the same chromosomes together, and a chromosome pair of genes only have one offspring. chromosomes chromosomes from traits will be found in the same offspring in the gametes. possible. In general, you will be inherited together.

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

During prophase I, chromosomes condense and homologous chromosomes align together, called synapsis. This is a synapsis because it shows the chromosomes are in pairs and results in the double chromosome.

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

Genes And Variation Worksheet Answers

Tao Wei



Genes And Variation Worksheet Answers:

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