

Activity 1: 10/10/2025

Reading: read the first two sections on genetic variation in *peromyscus* completely (both) and the following questions. Respond to these prior understanding of the concepts discussed in the lecture.

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

☒ A. Crossing

☐ B. Duplication

☐ C. Inversion

☐ D. Translocation

1a. is fusion of 2 chromosomes by their ends

1b. is piece of chromosome is deleted

1c. is segment of one chromosome is removed and substituted with different one from different chromosome

1d. is fusion of 2 chromosomes happens twice so there there are 4 in total

2. How many genetically different gametes can be produced from a diploid cell with 4 pairs of 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 of chromosomes pairs. In this case with 4 pairs of chromosomes we have $2^4 = 16$ genetically different gametes.

3. Although you will learn in next lecture of health from your parents, you may wonder that some traits come to be independent assortment. For example, hair colour and eye colour. Why may some traits be inherited together?

Answer: that's correct together and those are the **autosomal recessive**. Examples: blue eye, red hair, cleft chin, etc. and **autosomal dominant** are only those traits that are inherited together. Autosomal dominant traits will be found in the same chromosome in the genome, usually. Autosomal dominant 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 key event because it allows the crossing over to occur and results in the genetic recombination.

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

16 Genes And Variation Answer Key

Jay Marvin Templin



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