

Activity 1: 10/10/2025

Reading: read the first two sections on genetic variation in *periplaneta americana* (page 1) of 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 breakage

1b. is presence of chromosome is deleted

1c. is segment of one chromosome is broken up and recombined in different order (inversions, translocations)

1d. is fusion of 2 chromosomes (segment from one chromosome is added to another)

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 are the less important chromosomes. For example, hair colour and eye colour. Why may some traits be inherited together?

Answer: Genes are located together and travel as the same chromosome. Therefore, some are inherited together (e.g. eye colour) and some are not (e.g. eye colour and hair colour). Genes on the same chromosome travel with the same chromosome and are 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 important because it allows the crossing over to occur and results in new genetic combinations.

5. How does recombination lead to chromosome polymorphism? Describe two types of genetic markers that can result from recombination.

171 Genes And Variation Worksheet Answer Key

WJ Hussar



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Reviewing **171 Genes And Variation Worksheet Answer Key**: Unlocking the Spellbinding Force of Linguistics

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