

Activity 10.1

Reading material on our website on genetic variation in gametes completes part 1 of the following questions. Read carefully and 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

(a) a section of a chromosome is inserted

(b) a piece of a chromosome is deleted

(c) a segment of one chromosome has moved elsewhere; different, non-homologous, chromosomes

(d) a section of a chromosome appears twice or more times in a row

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

From the number of genetically distinct 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 gametes of 2^4 or 16 genetically distinct gametes.

3. Although you will learn in next lecture of health from your parents, you may wonder that some health issues are less inheritable. For example, heart disease and type 2 diabetes. Why may some health be inherited together?

These diseases are linked together and travel on the same chromosome. Therefore, these are inherited together as a group, and a family may only have one type of chromosome inheritance. Some health will be inherited together some are missing in the genome, possibly, interacting with the inherited together.

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

During prophase I homologous chromosomes and homologous chromosomes align together, called bivalent. This is a bivalent because it shows the pairing between sister and brother for the bivalent genome variation.

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

Genes And Variation Worksheet Answers

RM Cervero



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