

KARYOTYPING LAB

Introduction:

Scientists have developed several different tools and techniques for studying chromosomes, genes and base pairs in humans and other organisms. One of the most useful techniques is karyotyping. **A karyotype is a photograph of all of an organism's chromosomes.** The chromosomes in the karyotype are arranged in homologous pairs according to size (largest to smallest). Homologous pairs can be determined by centromere placement, equal length of top and bottom arms as well as similar band placement on each arm. *Karyotyping helps doctors diagnose and treat genetic disorders.* Doctors use a normal human karyotype and compare it to the karyotype of a patient to determine if there are abnormalities. Some of the characteristics the physician will compare are:

- A. Total number of chromosomes - normal humans have 46 chromosomes (23pairs), so if the number is higher or lower then an abnormality exists
- B. Homologous pairs for the first 22 pairs of chromosomes - once centromeres are aligned, top and bottom arms are of equal length and if not then an abnormality exists
- C. Sex Chromosomes (23rd pair) - if female, then 2 homologous X chromosomes (XX) will be present and if male, an X chromosome and a Y chromosome (XY) will be present, so if there are additional or fewer sex chromosomes then an abnormality exists. The X chromosome is much larger than the Y.

Procedure:

1. From the chromosome scatter sheet you received, carefully cut out each of the chromosomes into a rectangles, so they will fit into the layout worksheet.
2. Arrange the chromosomes into homologous pairs, using your Karyotype Reference Sheet as a guide. Hint: Laying your cut chromosomes directly on top of the matching chromosomes on the Karyotype Reference Sheet will help you in this process.
3. Once all chromosomes are laid down on the Reference Sheet begin gluing or taping each pair onto the Karyotype Layout Worksheet. Hint: You may have abnormalities in your karyotype (more or less than 46 chromosomes), so maintain the number of chromosomes you were given.
4. Upon completion of gluing or taping all chromosomes to the Layout Worksheet, answer the Discussion Questions using the background information, your karyotype and Explanation of Chromosome Disorders

Karyotyping Exploration Lab Answers

Robert R. Redfield



Karyotyping Exploration Lab Answers:

Holt Biology: Meiosis and sexual reproduction ,2003

Holt Biology Rob DeSalle,2008

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