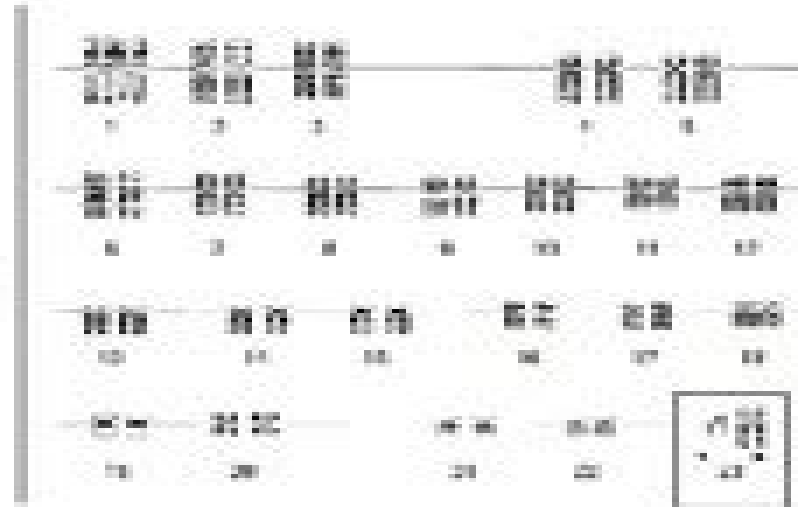


# MAKING KARYOTYPES:

## Introduction:

Several human genetic disorders are caused by extra, missing, or damaged chromosomes. In order to study these disorders, cells from a person are grown with a chemical that stops cell division at the metaphase stage. During metaphase, a chromosome exists as two chromatids attached at the centromere.

The cells are stained to reveal banding patterns (areas that are dark are areas rich in Adenine [A] and Thymine [T]). The chromosomes are placed on glass slides, then observed under the microscope where they are oriented, checked for abnormalities, and photographed. The photograph is then enlarged, and the images of the chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. The arrangement of homologous pairs is called a **karyotype**. In this investigation, you will use a sketch of chromosomes to make a karyotype. You will also learn how the karyotype to determine the presence of any chromosomal abnormalities.



Normal male karyotype

This is a diagram of a normal male karyotype: 23 pairs of chromosomes, 46 total. Pairs 1-22 are referred to as **somatosomal chromosomes**. Pair number 23 are the sex chromosomes. In the case of this male, one chromosome is an "X" and one chromosome is a "Y". Females would have 2 "X" chromosomes.

We have discussed 3 major genetic disorders easily identified by karyotyping:

- **Turner's Syndrome:** female with only one "X" chromosome
- **Down's Syndrome:** 3 copies of chromosome number 21
- **Klinefelter's male** with XXX for his sex chromosomes

## Using A Karyotype to Identify A Genetic Disorder:

### Procedure:

1. Look at the chromosome answer on the next page. Notice that half of them are number 1-22.
2. Cut out the chromosomes and match the un-numbered homologous chromosomes to the numbered ones and tape/glass them to the empty karyotype worksheet. Make sure that chromosome pair #1 gets taped/glassed above the "1" on the karyotype sheet, etc.
3. Line up the centromeres of the chromosomes along the lines above the numbers on the empty karyotype worksheet.

# Laboratory Manual Making Karyotypes Answers

**Prentice Hall Direct Education Staff**



## **Laboratory Manual Making Karyotypes Answers:**

**Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004** Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall Staff, 2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students **Biology Living Systems** Paul J. Hummer, 1994 CAP Today , 1990 **The Software Encyclopedia 2000** Bowker Editorial Staff, 2000-05 Bibliography of Agriculture , 1988-03

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Laboratory Manual Making Karyotypes Answers** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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