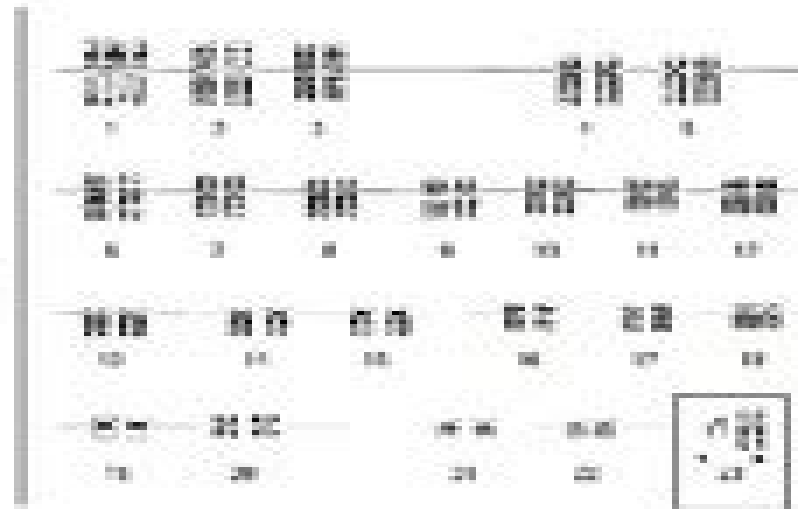


MAKING KARYOTYPES:

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 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 **autosomes**. Pairs 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.

Making Karyotypes Chapter 14

**Michael A. Hitt, C. Chet Miller, Adrienne
Colella**



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