

Karyotypes

Pre-Lab Discussion

Several human genetic disorders are caused by additional, missing, or damaged chromosomes. One way of studying genetic disorders is to observe the chromosomes themselves. In order to do this, cells from a person are grown in a laboratory. After the cells have reproduced a few times, they are treated with a chemical that stops cell division at the metaphase stage. During metaphase, the chromosomes are at the best length for identification.

The cells are treated further, stained, and then placed on glass slides. The chromosomes are observed under the microscope, where they are counted, checked for abnormalities, and photographed. The photograph is then enlarged, and the chromosomes are individually cut out. The chromosomes are identified and arranged in homologous pairs. Homologous chromosomes are identical, or matching, chromosomes. 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 examine the karyotype to determine the presence of any genetic defects.

Part A: Analyzing a Karyotype

1. Observe the *normal* karyotype in Figure 1. Notice that the two sex chromosomes, pair numbers 23, do not look alike. They are different because this karyotype is of a male, and a male has an X and a Y chromosome.
2. Identify the centromere in each pair of chromosomes. The centromere is the area where each chromosome narrows.

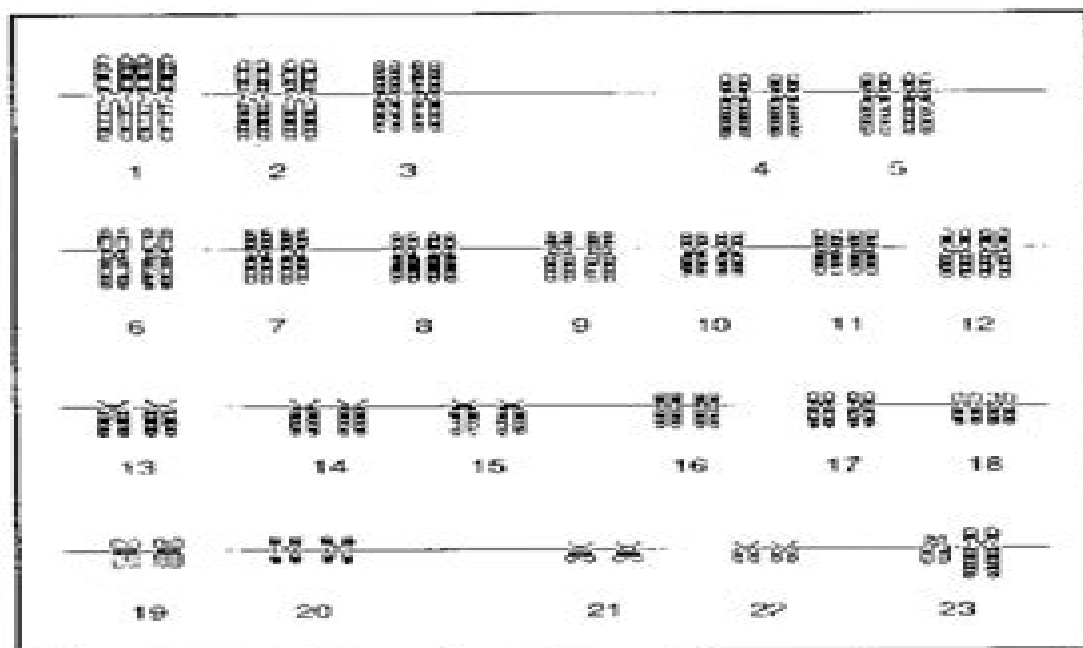


Figure 1

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Bulyzhenkov,Zbigniew Bańkowski**

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