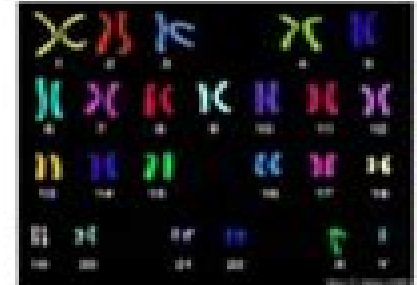


Karyotyping Virtual Lab



In this activity, you will use a computer model to look at chromosomes and prepare a karyotype. You will diagnose patients for abnormalities and learn the correct notation for characterizing karyotypes.

Site 1:

http://www.biology.arizona.edu/human_bio/activities/karyotyping/karyotyping.html

1. How are karyotype analyses conducted?
2. What causes a dark band on the chromosome?
3. What is a centromere?
4. Which chromosome determines sex in humans? Is this an autosome or sex chromosome? (This is not in the introduction, you may have to look it up if you do not know the answer.)

Click on Patient Histories. You will be completing a karyotype for Patient A and B

Patient A (Click on the link to "Complete Patient A's Karyotype")

**Match the chromosome to its homolog (its partner). After all the matches are complete you'll analyze your patient (Scroll down to view your completed karyotype for your results).*

5. What is patient A's history (summarize)?
6. How many total chromosomes are in your karyotype?
(The last set of chromosomes is the sex chromosomes, if you have two large chromosomes, your patient is XX (female), one large and one small indicates and XY (male).

Virtual Karyotyping Answer Key

**Marilyn S. Arsham, Margaret J.
Barch, Helen J. Lawce**



Virtual Karyotyping Answer Key:

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