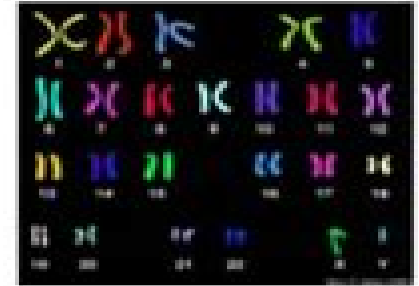


Karyotyping Virtual Lab



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

Ying Liu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Virtual Karyotyping Answer Key:

The AGT Cytogenetics Laboratory Manual Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-03-03

Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting

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