

Lesson 9 Study Guide - Cellular Reproduction and Mitosis (Ch 6 Intro, 6.1, and 6.2)

Introduction

(Not in your book's chapter introduction): There are two types of cellular reproduction – mitosis and meiosis. Mitosis is how all of the cells of your body make exact copies of themselves– and happens in all of the body's cells. Meiosis only occurs in one place – in ovaries or testes, to make gametes – sperm or eggs. The process by which these both occur is almost exactly the same in all eukaryotic organisms – which means it is very important to development.

Chapter 6.1: Genomic DNA

The important point here is to note several things:

1. a. In prokaryotes, have nucleoids (DNA is in a loop that is in a particular spot in the cytoplasm of the cell)
b. In eukaryotes – DNA is in a nucleus
2. Your DNA contains genes – which are merely sections of DNA that tell your body how to make a particular trait (such as, eye color, or whether your earlobes are attached or not). Your DNA also contains “nonsense” spaces between the genes – sections that don't appear to have any purpose, though we might not have discovered their purpose yet, too.). The entire collection of all of an organism's DNA is called its “genome”.
3. Chromosomes – are highly folded up DNA sequences wound around proteins. The DNA folds up into chromosomes when the cell is getting ready for cell division. (At all other times, the DNA is just in its unwound form, spread out throughout the nucleus.) The cell needs to have its DNA in a compact package so that the copies can separate without getting all tangled up when the cells divide.
4. Somatic cells are body cells. They are diploid (means there is a full copy of genetic information (on chromosomes from both the mom and dad).
5. Gametes are sperm and egg cells. They are haploid (means they have HALF the DNA of a somatic cell.

Look at Figure 6.2. This is a karyotype – when a woman gets an amniocentesis, they pull fetal cells out of the amniotic fluid (these are cells that have sloughed off the baby, they aren't actually getting them from the baby itself). They then look at these cells, and find some that are in the process of dividing. They can magnify the image of the chromosomes from those cells, and count them to make sure the

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