hey

Mitosis & Meiosis

Describe the difference between Mitosis & Meiosis:

What are the two main cell types? What are some examples of each?

Bacteria cells have <u>Pertido glycon</u> in their cell walls.

The Nucleus is found in eukaryotes while the Nucleur is found in prokaryotes and it is where you can find genetic material.

All living organisms have quetic material.

Microtubules are made of: Jubulin

Microfilaments are made of: acti 1

Spindle fibers are made of: microtubules

What region of the nucleus codes for rRNA production?

NOB

Draw and label each of the centromere positions. Label the q and p arms.

meta centric

P X submeta centric

q X Acrocemtric

q telocentric

Describe the relationship between sister chromatids, seperase, kinetochore proteins, and shugoshin:

sister chromatids are 2 Parts of a chromosome that are held together by robeston. Coheston is Protected by shugoshin. During replication, seperase degrades coheston so spindle fibers can bind to kinechore protiens and pull them apart.

Describe what takes place during interphase and why it's so important:

DNA replication!

It's important for mitosis and meiosis to

What are the different phases of interphase? Can you describe them?

(1) g, 7 growth

(2) g, 7 growth

(3) g, 7 growth

(3) g, 7 growth

(4) g, 7 growth

(5) g, 7 growth

(6) g, 7 growth

(7) g, 7 growth

(8) g, 7 growth

(9) g, 7 growth

(1) g, 7 growth

What are the 5 stages of mitosis?

Prophase, Prometaphase, metaphase, Anaphase, and telophase

Describe what is needed for chromosomes to be homologous.

Identical length, identical centromere Placement, 10cus, and carry genes for the same traits

Compare and contrast Bacteria and plants Plasma membranes.

Baeteria: peptidoglycan

Plants: cell wall w/ Polysaccharides)

What are the three structural carbohydrates of the cell wall in plants?

cellulose, hemicellulose, and lignin

What is unique about mitochondria and chloroplasts?

They have their own DNA and are from the maternal DNA.