

Eukaryotic Cell

Cell membranes

- Two surfaces are differentially permeable relative to ions, a concentration gradient and selective different ions, or molecules, etc.
- Barriers to harmful and potentially useful foreign molecules



Cytoplasm

- Suspends the organelles and allows diffusion of molecules throughout the cell
- Contains mostly of water, important ions, and other smaller molecules
- Making up the cytoplasm



Nucleus

- Well organized into chromatin
- Enclosed by the nuclear envelope of pores
- Contains genetic material
- Acts as a control center for the cell



Single Apparatus

Genetics and Growth of Prokaryotic Cells

Prokaryotes multiply by binary fission

- Binary fission is a type of asexual reproduction where a parent cell divides, resulting in two identical cells, each having the potential to grow to the size of the original cell.
- The word asexual describes a reproduction that occurs without involving sex cells.



- Cells are able to grow and divide rapidly, and are able to reproduce asexually.
- The word asexual describes a reproduction that occurs without involving sex cells.



COMPLETE BIOLOGY - THE CELL STUDY NOTES

Supernumerary

- Cells that are not part of the normal complement of cells in an organism
- They are usually found in the same tissue as the normal cells, but they are not part of the normal complement of cells in an organism



Callosities

- Cells that are not part of the normal complement of cells in an organism
- They are usually found in the same tissue as the normal cells, but they are not part of the normal complement of cells in an organism



Viral Genomes

- Viral genomes are very diverse, some they can be DNA or RNA, single or double stranded, linear or circular, and vary in length and in the number of DNA or RNA molecules



Mfat Biology Study Guide

Chao Zhang

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