# Cheatography

# Revising for my Bio Test Cheat Sheet by Joxtel (Joxtel) via cheatography.com/149882/cs/33558/

#### Cell theory

-All living things are made of cells

-New cells are created by old cells dividing into two

-Cells are the basic building units of life. Remember (people, devide, build) or pbd

#### ff

Unicellular: single cell orginism eg bacteria and archaea Multicellular multi cell orginism eg Plants, mammals

#### organelle eukaryote

cell organelle: euchloroplast (makes energy for plants) rough er (has ribosomes, makes new protiens) smooth er (makes lipids, no ribosomes) golgi apparatus (prepars things to leave the cell, sorts) mitochondrion (cell respiration, makes energy) nucleus (holds DNA and RNA) vacuole (stoage, gets rid of waste, controls homeostasis) lysosome (breaks down larger molecules) necleolus (creates ribosome) Ribosomes (makes protiens) centrioles (orginizes movement of chromosomes, help in mitosis) cytoskeleton (network of protiens, helps maintain cell shape) flagellum (for movement)



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### organelle pro

organelle found is pro: pilus (attach to things) capsule (sticky, helps keep cell moist) cell wall (protects cell and gives it shape) plasma membrane (doors, lets things enter and leave) Nucleoid (contains dna) cytoplasm (contains nutrients) flagellum (helps move) ribosome (makes protien)

#### nucleus anatomy

nucleolus (primaray source of ribosome biogenesis, made of RNA and proteins) nucleoplasm (keeps the shape of the nucleous and provides a substance for the nucleolus to float in) nuclear pore (allows small molecules and ions to pass in or out) nuclear envelope seperates the content of the nucleus and the rest of the cell) Chromatin (mix of DNA and Protiens that make chromosomes, chrom- prefix)

# The 2 types of cells

Prokaryote - no nucleus - no cell membrane -always unicellular -no defined organelles - thought to be older -far smaller -cell walls though

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## The 2 types of cells (cont)

-smaller ribosomes Bacteria and archaea remember, "older so less good, lacking everywhere" eukaryote -definded nucleus -defind organelles -cell wall with chitin -more complex -usually bigger -has DNA -Larger Ribosomes plant, animal, fungi "bigger more better type, has to be bigger cos its complex, like the 2.0 version Both have -DNA -come from Mitosis -can be unicellular -Ribosomes -Cell membranes -Cytoplasm

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