

# 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)

(stoage, gets rid of waste, controls homeos-

tasis)

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)

# organelle pro

organelle found is pro:

pilus

(attach to things)

capsule

(sticky, helps keep cell moist)

(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

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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