Cheatography

Cellular structure and function Cheat Sheet by knooo4 via cheatography.com/211046/cs/45641/

Basic Cell Theory	Tenets of ce	ell theory	Cell Size
Living Organisms can only exist where:	All organisms are composed of cells All cells come from pre-existing cells		Cells are limited in size by their ability to exchange substances with their environment.
- an energy source is available			
- liquid water is available			Every living cell must maintain
- the chemical building block necessary for life exist	The cell is the zation of an	he basic organi- organism	its internal environment. The cells relies on the plasma
- stable environmental conditions exist	Prokaryote vs Eukaryote		membrane to exchange the necessary material with its surroundings at an appropriate
MRS GREND		bkaryotes Eukaryotes	rate.
M movement	•No or •Smalle	ganelles ·Cell ·Nucleus pr Membrane ·Has organ	elles ce Area to Volume ratio
R respiration	•Unic	ellular •DNA •Ribosomes •More com	nplex
S sensitivity G growth	organisms •Multicellula organisms		
			As the volume increases the metabolic needs increase too.
R reproduction	Eukanyotos	vs Prokaryotes	The plasma membranes ability
E excretion			to meet these metabolic
N nutrition	Plant	Bacteria	demands increases but not at the same rate.
D deoxyribonucleic acid (DNA)	Animal	Archaea	
	Protista Fungi		

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