Cheatography

Bio-Fundamental unit of life Cheat Sheet by N.nia.a via cheatography.com/194717/cs/40661/

Cells----> all living organisms Tissues----> group of cells Organs----> group of tissues Organ systems----> group of organs Organism----> group of cells

Imp discoveries		
1665	Robert Hooke	cells (cork)
1674	Leeuwe- nhoek	living cells (pond)
1831	Robert Brown	nucleus
1839	Purkinje	coined the term "- protoplasm"
1838- 39	Schleiden & Schwann	cell theory
1855	Virchow	cell theory
1940	-	discovery of electron microscope

~Cells are the basic structural unit of life ~Cells are the basic functional unit of life ~All cells arise from pre-existing cells

Definitions

Cell:	the structural and functional unit of life. every living organism is made up of cells
Unicel- Iular organism:	organisms made of single cells that carry out all functions. Ex- amoeba, bacteria, Chlamydom- onas, etc. Usually prokaryotic
Multic- ellular organism:	organisms made of multiple cells. Ex- plants and animals. Usually eukaryotic
Cell organe- lles:	membrane bound organelles present in cells to support functions performed by it



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Definitions (cont)		
Diffusion:	movement of solid, liquid or gas particles from a region of higher to lower conc.	
Osmosis:	movement of water particles from a region of higher to lower conc. thru a semi-permeable membrane	
Cell division:	the process by which new cells are made	
Mitosis:	process by which most of the cells divide for growth. Each mother/parent cell divides to form 2 identical daughter cells thats have the same no. of chromosomes as the mother cell (helps in growth and repair of tissues)	
Meiosis:	a process where a single mother/parent cell divides twice, to produce four daughter cells that each contain half the	

original amount of chromosomes. These cells are our sex cells - sperm in males, eggs in females (helps in reproduction)

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