Cheatography

AP bio Unit 2 Cheat Sheet by NoelleEvelyn via cheatography.com/168075/cs/35456/

Size Range of Cells

Microscopes

Stereoscope

Surface Area Volume ratio

Highest SA/V ratio

SA/V Ratio Equations

Prokaryotes vs Eukaryotes

surface

Do not use much

Texture, color, details

Typical, big organelles, but not tiny

Height x Width

SA/V

Height x Width x Length

Eukaryotes:

Nucleus

Electronscope

SEM

TEM

Light compound

SA Volume

SA/V Ratio

Prokaryotes: No nucleus



Focuses beam of electrons through specimen onto

Allows you to zooom really close to tiny organelles

Volume constant

More efficent cell

Organelles (cont)				
Cilia and Flagella	Motility related extensions of cytoskeleton proteins, allow cell to move through space,			
Centrosome	Animal-like cell only, organizing center, orgin of microtubules, major role in animal-like cell division,			
Cell membrane	Phospholibid (hydrophilic head, hydrophobic tail, always moving) bilayer, boundary of cells, transport materials in and out, communication between cell and environment			
Cholestreol	Steroid lipid, temp buffer, maintains fluidity over range of temps,			
Membrane Proteins				
Intergral proteins		Penetrate one or both sides of bi-layer		
Perepheral proteins		Associated with membrane, don't penetrate		
Polarity		depends on role of protein		
Transmission Electron Microscope				
		high voltage electron gun first condenser lens condenser aperture second condenser lens condenser aperture		

	election gun
	first condenser ler
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	specimen holder a air-lock
	objective lenses and aperture
2	electron beam
	fluorescent screer and camera

Scanning Electron Microscope



No membrane-bound organelles	Membrane-bound organelles
Circular DNA	Linear DNA
Binary fission	Mitosis and meiosis

Organelles

Cytos	Structural proteins extend throughout cytoplasm, maintains
k-	cell shape, anchors organelles, regulates cell/organelle
eleton	motility, movement of chromosomes during cell division

By NoelleEvelyn

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