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

Surface area increases

Highest SA/V ratio

SA/V Ratio Equations

Prokaryotes vs Eukaryotes

No membrane-bound organelles

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:

Linear DNA

Mitosis and meiosis

Membrane-bound organelles

Nucleus

Electr-

SEM

TEM

Light compound

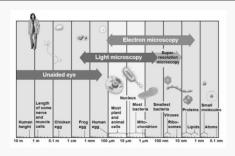
SA

Volume

SA/V Ratio

Prokaryotes: No nucleus

onscope



Focuses beam of electrons through specimen onto

Allows you to zooom really close to tiny organelles

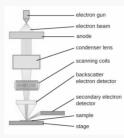
Volume constant

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 Pr	oteins		
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	Electror	Microscope	

high voltage electron gun first condenser lens condenser aperture second condenser aperture specimen holder and al-lock objective lenses and aperture electron beam fluorescent screen and camera

Scanning Electron Microscope



Organelles

Circular DNA Binary fission

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

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