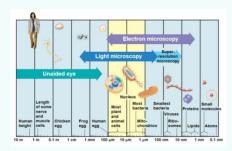


AP bio Unit 2 Cheat Sheet

by NoelleEvelyn via cheatography.com/168075/cs/35456/

Size Range of Cells



Microscopes	
Electr- onscope	Focuses beam of electrons through specimen onto surface
SEM	Allows you to zooom really close to tiny organelles
TEM	Do not use much
Stereoscope	Texture, color, details
Light compound	Typical, big organelles, but not tiny

Surface Area Volume ratio

Surface area increases Volume constant
Highest SA/V ratio More efficent cell

SA/V Ratio Equations

SA Height x Width

Volume Height x Width x Length

SA/V Ratio SA/V

Prokaryotes vs Eukaryotes

Prokaryotes: Eukaryotes:

No nucleus Nucleus

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

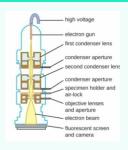
Organelles (cont)

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,

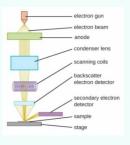
Membrane Proteins

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



Scanning Electron Microscope





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