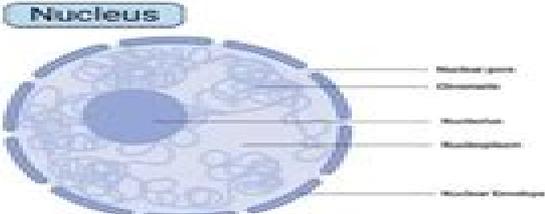
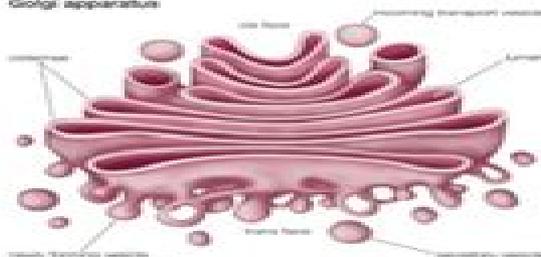


Chapter 2: Cell Biology and Organization

Basic:

- Cells are basic units of living organisms
- All organisms are made up of one/ more cells
- Cells consist of protoplasm:
 - Made up of cytoplasm & nucleus
 - Surrounded by thin layer: plasma membrane
 - Consist of small structure: organelles [usually can be seen under electron microscope]
 - Example of non-organelle structure in cell: plasma membrane, cytoplasm, cell wall [in plant]
 - Example of organelle structure in cell: nucleus, endoplasmic reticulum, mitochondrion, ribosome, Golgi apparatus, vacuole, chloroplast [plant cell]

Organelle Component	
<p>Nucleus</p> <ul style="list-style-type: none"> • Control all activities of cell • Nucleolus: synthesis of ribosome & RNA [ribonucleic acid] • Chromosome: carry genetic material which is transferred from parent to the offspring • Cell without nucleus: mature red blood cell [RBC] 	<p>Mitochondria</p> <ul style="list-style-type: none"> • Site of cellular respiration • Help oxidize glucose to release energy in the form of ATP [adenosine triphosphate] • ** Abundance in sperm, muscle, plant meristem cell [in shoot, root tips]
 <p style="font-size: small;">Figure: Nucleus, from Pearson Education, Inc. www.pearsoned.com</p>	 <p style="font-size: small;">Figure 1</p>
<p>Endoplasmic reticulum</p> <p>a) RER [rough endoplasmic reticulum]</p> <ul style="list-style-type: none"> • Has ribosome on its surface • Synthesize by ribosome <p>b) SER [smooth endoplasmic reticulum]</p> <ul style="list-style-type: none"> • Smooth surface – no ribosome on its surface • Centre for drug detoxification 	<p>Golgi apparatus</p> <ul style="list-style-type: none"> • Help in processing, packaging, transporting macromolecules: protein, carbohydrates
	 <p style="font-size: small;">Figure: Golgi apparatus, from Pearson Education, Inc. www.pearsoned.com</p>

Form Biology Chapter Notes

David Kirk



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