

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

Nucleus

- 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]**

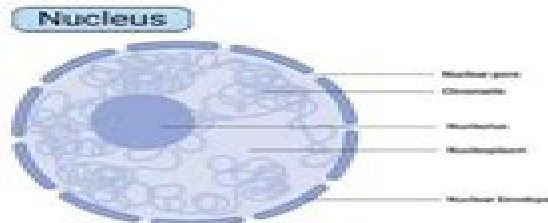


Figure 1: Nucleus (from Campbell Biology, 11th edition, © 2011 Pearson Education, Inc.)

Endoplasmic reticulum

- a) RER [rough endoplasmic reticulum]
- Has ribosome on its surface
 - Synthesize by ribosome
- b) SER [smooth endoplasmic reticulum]
- Smooth surface – no ribosome on its surface
 - Centre for drug detoxification

Mitochondria

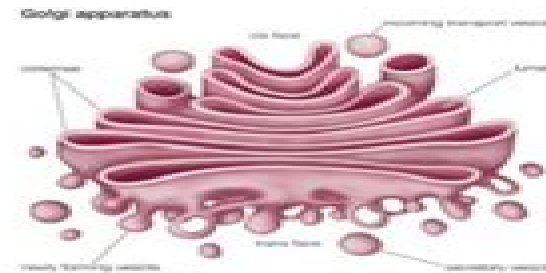
- Site of cellular respiration
- Help oxidize glucose to release energy in the form of ATP [adenosine triphosphate]
- **** Abundance in sperm, muscle, plant meristem cell [in shoot, root tips]**



Figure 1

Golgi apparatus

- Help in processing, packaging, transporting macromolecules: protein, carbohydrates



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