

Chap 6: Organelles

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Describe the functions of the following organelles: (* are VERY IMPORTANT structures)

- Cytosol *
- Plasma membrane *
- Nucleus *
- Nucleolus
- Ribosome *
- ER (smooth and rough)
- Golgi apparatus/complex
- Vesicles/vacuoles
- Lysosome
- Mitochondrion *
- Chloroplast *
- Cytoskeleton
- Cell wall

Define and **Differentiate** between the terms *prokaryotic cell* and *eukaryotic cell*.

List and **Explain** at least 3 uses of vacuoles.

Explain the *endosymbiotic theory* and how it applies to chloroplasts and mitochondria organelles.

Explain the purpose of *motor proteins*.

List and **Describe** the three components of the cytoskeleton. (Table 6.1, pg. 113 - 117)

Describe the *extra cellular matrix*.

List and **Differentiate** between the cell junctions present in plant cells vs. animal cells.