Source: [KBBiologyMasterIndex]

1 | Cells

1.1 | The Two Major Cell Types

- Prokaryotic cells often in single-cellular cells, has a cell wall, and contained in capsules
- Eukaryotic cells in multicellular cell elements, contains a plasma membranes and nucleus

1.2 | Plant and Animal Cells, Compare and Contrast

Animal Cells	Plant Cells
No cell wall	Has cell wall
No chloroplast	Has chloroplast to do photosynthesis
Has cytoplasm	Has cytoplasm
Has Ribosomes	Has Ribsonmes
Has mitochondria	Has mitochondria
No plastics	Has plastids — organelles that form pigments
Has cilla — hair like extrusions on outer surface	Mostly no cilla

1.3 | Endosymbiotic theory

Endosymbiotic theory states that organelles within our current eukaryotic cells — the mitochondria and chloroplasts — are originally prokaryotic cells in their own right. This is because they divide independently through binary fission, and also contains circular DNA that is independent of the main cell itself.