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 | Prokaryotic vs Eukaryotic Cells

Prokaryotic Cells	Both	Eukaryotic Cells
Cell wall	DNA	Plasma membrane
Capsule container	Cytoplasm	Nucleus
	Ribosomes	Mitochondria
	Membranes	

1.3 | Eukaryotic Cells, a deep dive

1.3.1 | Plant and Animal Cells, Compare and Contrast

Plant Cells
Has hard cell wall
Has chloroplast to do photosynthesis
Has cytoplasm
Has Ribsonmes
Has mitochondria
Has plastids — organelles that form pigments
Mostly no cilla

1.3.2 | Endosymbiotic theory

See KBhBIO101Endosymbiotic

1.3.3 | Organelles in Eukaryotic Cells

See KBhBIO101EukaryoticOrganells

1.4 | Cell Membrains

Eukaryotes have a thin membrane layer that helps them regulate nutrients, defend themselves, and control I/O. See KBhBIO101CellMembraines

1.5 | Cell Replication

Eventually, at some point, cells need to replicate itself. This, of course, is due to the fact that your body needs to grow. This intricate process is dependent on KBhBIO101CentralDogma, specifically, KBhBIO101DNAReplication.

The timeschedule of each cell replicating is dependent on something called "The Cell Cycle". See KBh-BIO101CellLifecycle