Source: [KBhBlO101Cells]

# 1 | Organelles in Eukaryotic Cells

## 1.1 | Chloroplast and Mitochondria

- Chloroplast found in plants + does photosynthesis
- Mitochondria found in animals + store ATP and extract energy from ATP

### 1.2 | Rough Endoplasmic Reticulum (ER) and Smooth ER

- Rough ER covered by ribosomes and folds [KBhBIO101Proteins] proteins
- Smooth ER not covered by ribosomes and makes [KBhBIO101Lipids] lipids

### 1.3 | Cell Wall and Plasma Membrane

- Cell Wall found in plants => surround the cell: hard
- Plasma membrane found in animals => surround the cell: soft [KBhBIO101Lipids] lipids

### 1.4 | Cytosol, Cytoplasm and Cytoskeleton

- Cytosol => liquid found inside cells; the "cytoplasm" floats within it
- Cytoplasm => all the stuff within the cell

#### 1.5 | Nucleus and Nucleolus

- Nucleus => centre of the cell, stores DNA
- Nucleolus => largest part of the nucleous that makes ribosomes

#### 1.6 | Lysosomes and Food Vacuoles

- Lysosomes => vesticles that contains enzymes that breaks down biomolecules
- Food Vacoules => vesticels that stores food and other resources

#### 1.7 | Cytoskeleton and Microtubules

- Cytoskeleton => complex network of proteins + fibres that organize the rest of the cell
- Microtubulues => Polymers of tubulin protein that provides the main structure of eukarotic cells