

## 1.2 Cells

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7:06 PM

### Organelles

- Parts of the cell that allow the cell to survive
- take up about 5-30% of the cell  
↳ the rest of the cell consists of H<sub>2</sub>O

### Functions of Cell Organelles

**Cell Membrane** : - protects cell  
- regulates the movement of particles in and out of the cell

**Cytoplasm** : - jelly-like substance within the cell  
- contains organelles, water...

**Nucleus** : - controls all activities within the cell  
- contains DNA

**Mitochondria** - produces **ENERGY** in the cell  
- **Cellular Respiration** takes place

**Proteins** : - assembled by ribosomes  
- building blocks of everything.

**Endoplasmic** : - proteins pass through here

Reticulum and are placed in vesicles

Golgi: packages proteins

Vacuoles: temporary storage compartments

Lysosomes: break down food particles, cell wastes, and any worn-out organelles.