

## Cells

## • Cell Theory

1. All cells come from pre-existing cells (cell cycle)
2. The cell is the most basic unit of life.
3. All organisms are made of cells.

## • Cell Types

1. prokaryotic: no nucleus & no organelles  
ex: bacteria, archaea
2. eukaryotic: has a nucleus & organelles  
ex: protistia, fungi, plantae, animalia

## Types of eukaryotic cells

1. animal: round
2. plant: square

- organelle: a specialized structure that performs a specific function within a cell.

## Structure &amp; Function

- structure directly relates to function (determines function)

ex: car tire

structure - round

function - roll

• ex: teeth

front teeth

s - thin & sharp

f - separate/tear

back teeth

s - flat

f - grinding

<u>Cell Part</u>	<u>Structure</u>	<u>Function</u>	<u>Found in</u>
Cytoplasm			
Nucleus			
ribosomes			
mitochondria			
Cell wall			
cell membrane			
Chloroplast			
Vesicle			
lysosome			
Vacuole			