

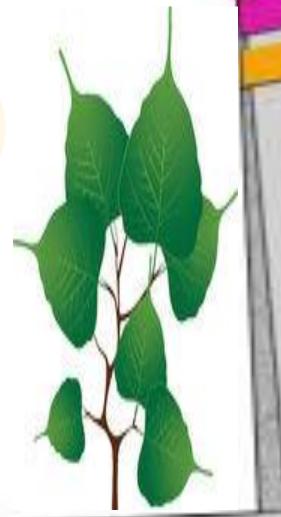
The Plant Gell





102 BOT

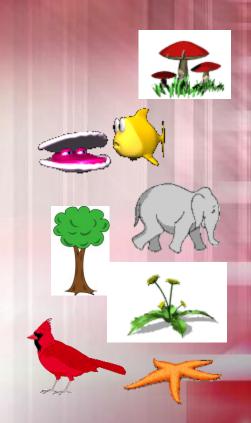




Introduction

Cells are the basic units of organisms

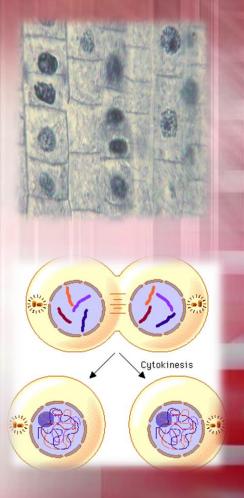
- Cells can only be observed under microscope



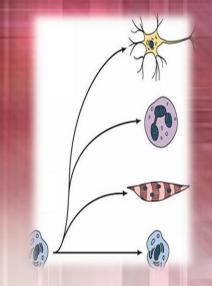


Cell Theory

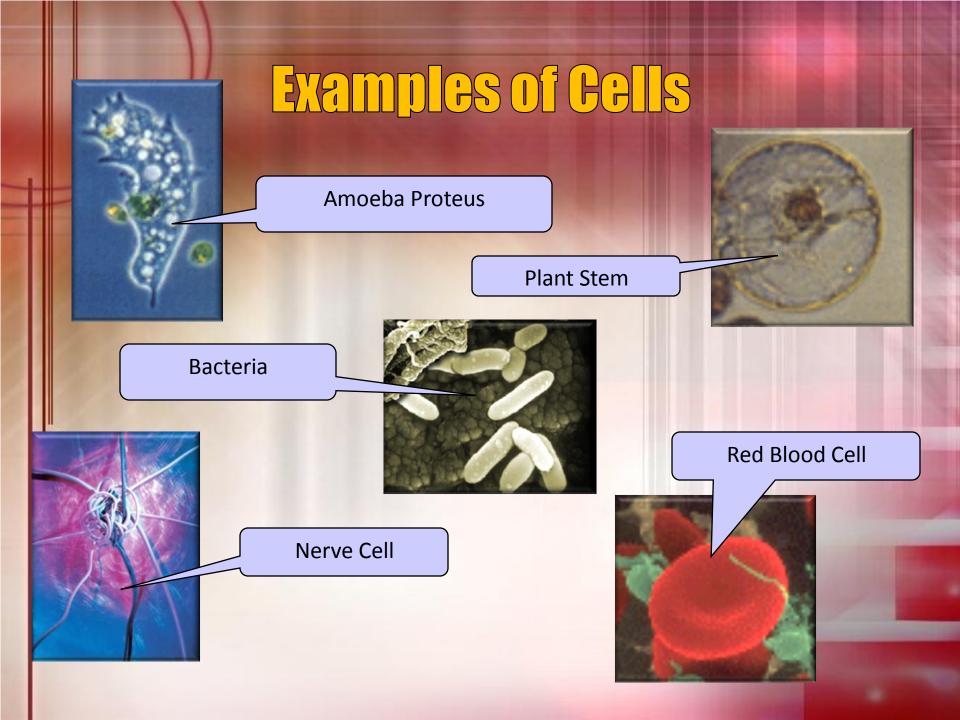
- 1. All organisms are made up of cells.
- Cells are the basic unit of structure and function in an organism (basic unit of life)
 All cells come from cells that
 - All cells come from cells that already exist (cell division)



Definition of Cell

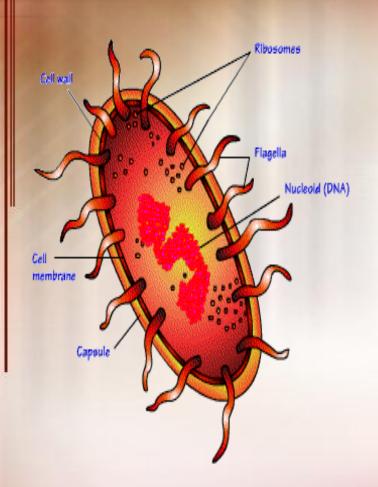


• A cell is the smallest unit that is capable of performing life functions.

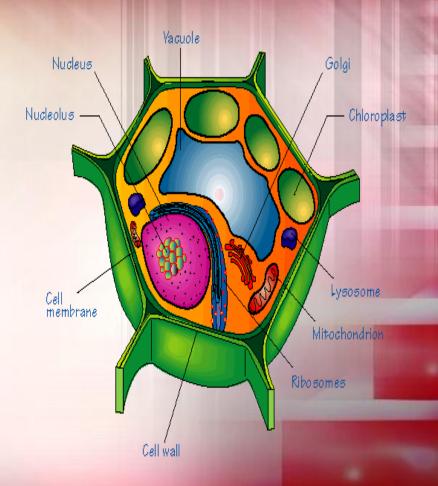


Cell Types

Prokaryotic

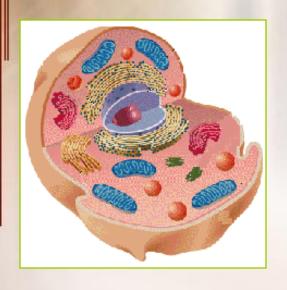


· Eukaryotic

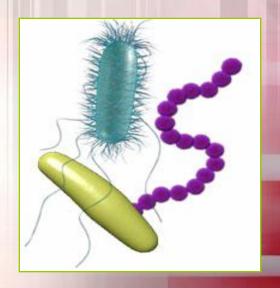


Fell Size and Types

- Cells, the basic units of organisms, can only be observed under microscope
 - Three Basic types of cells include:





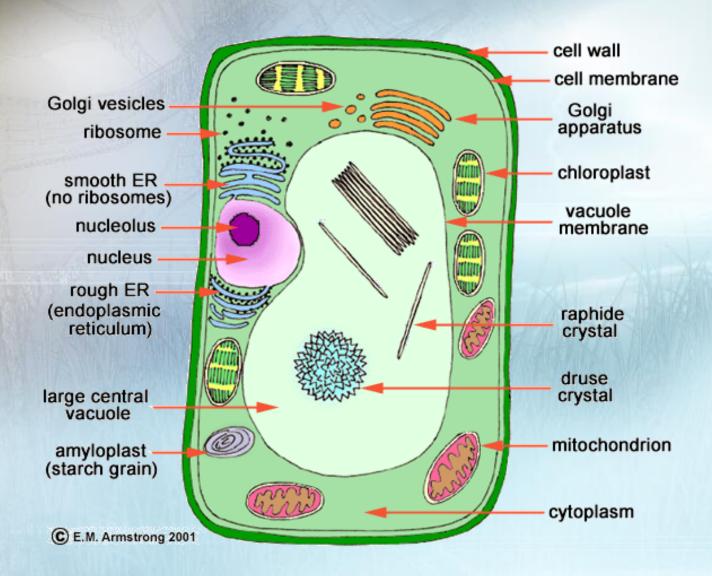


Animal Cell

Plant Cell

Bacterial Cell

Typical Plant Goll



Plant Cell

Plant cell contain following major organelles:

· Cell wall: Made of cellulose

The protoplast: consists of the cytoplasm

and nuclous.

Plant Coll



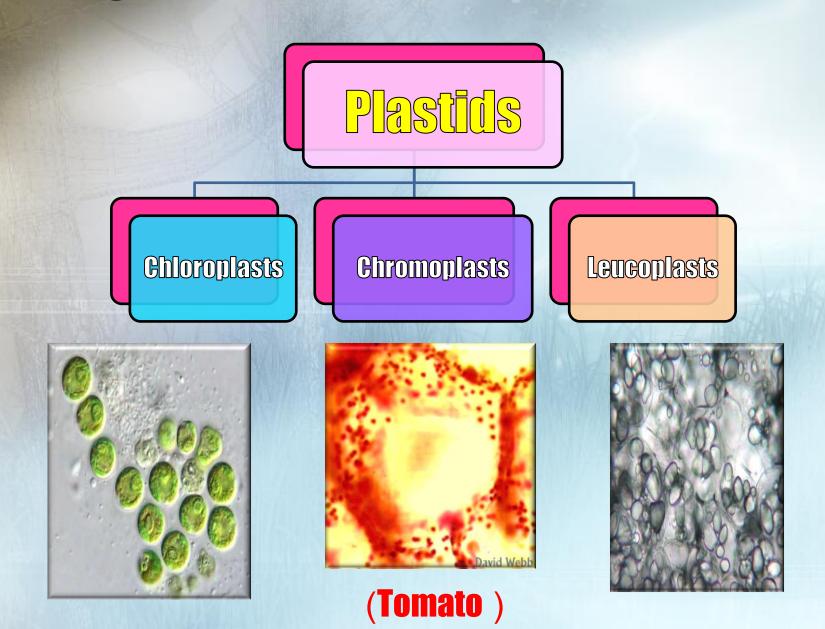


Living contents

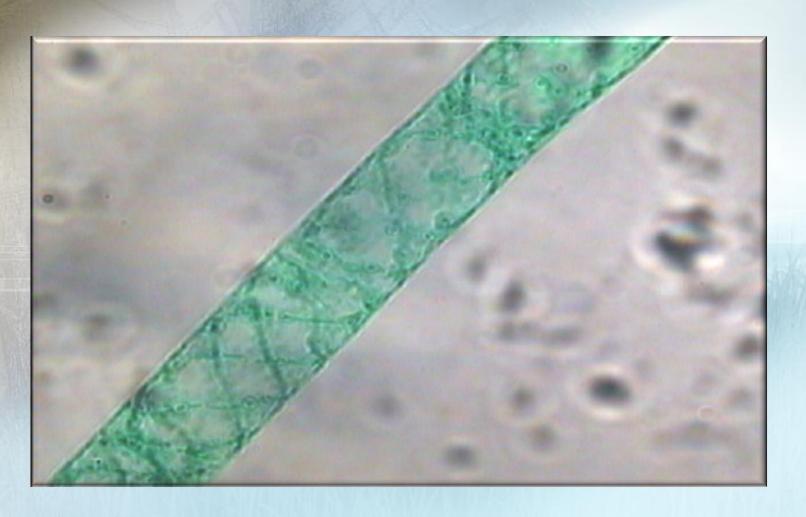
- Gytoplasm
- nuelous
- plastids (Contain the green pigment chlorophyll)
- mitochondria
- golgi bodies
- DSOSOMO
- endoplasmic reticulum
- -ribosomes
- microtubles



Living contents:



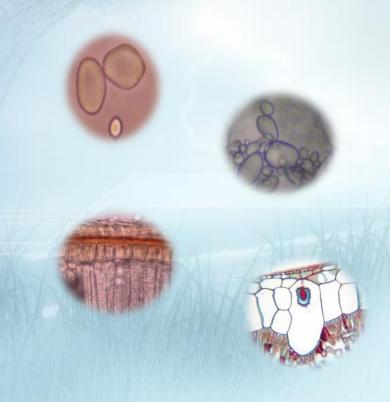
Plastids



Chloroplasts in Spirogyra

Non-living contents

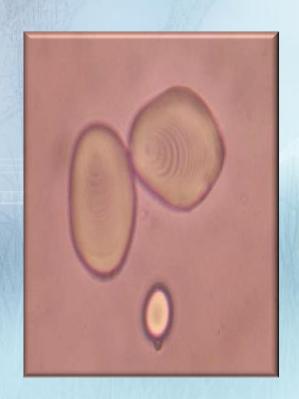
- -Starch granules
- -Vacuoles
- Crystals
- Aleurone grains
- Fell wall



Non-living contents

1-Starch grains







Starch grains (potato)

2- Grystals

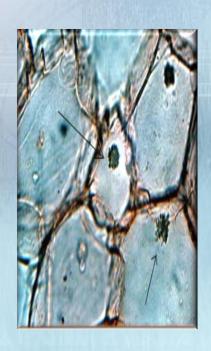
Raphides

Druses

Solitary

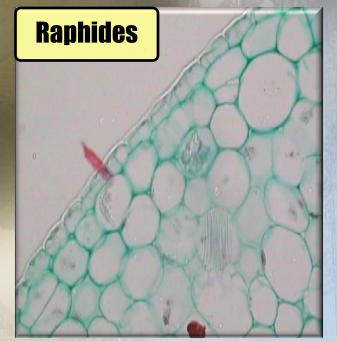
cystolith

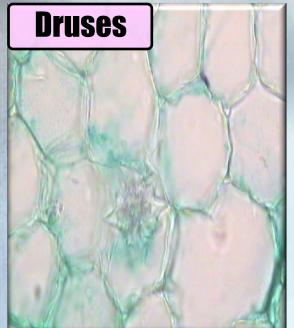




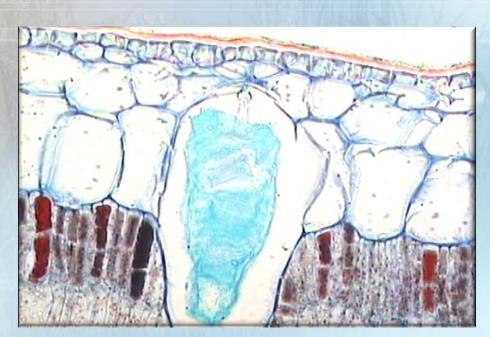






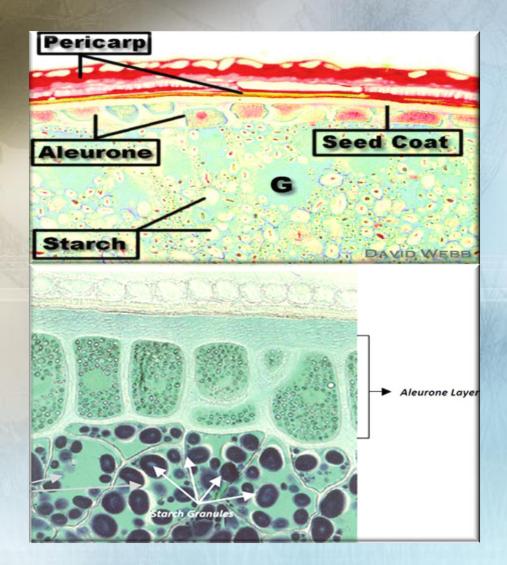






Cystolith Crystals

3-Aleurone grains





Aleurone grains (Wheat)

DRAWING A LESSON TODAY SAMPLES



Munifa Al-Dosafi

