Cell organization

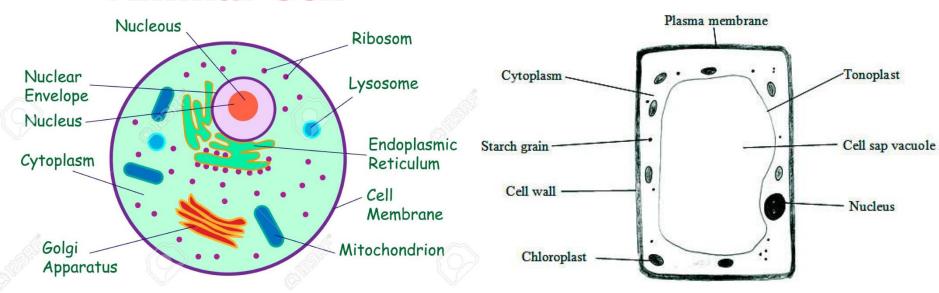
Structure of animal and plant cell

- Animal and plant cell are similar that they have same structures such as nucleus and cytoplasm. However, there are a few differences between them.
- *Cell structure* cannot be seen with the naked eye. We have to see the light microscope to magnify them. Structures in the cell can be seen under the light microscope.

ANIMAL CELL

PLANT CELL

Animal Cell



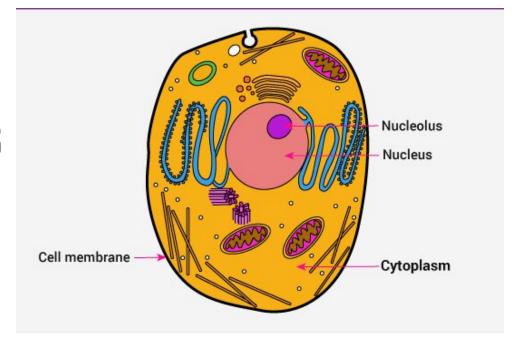
Light microscope-a n insrument that to allowed to see magnified objects or images



• Nucleus-the central part of mos cells that contain genetic material an is enclosed in a membrane

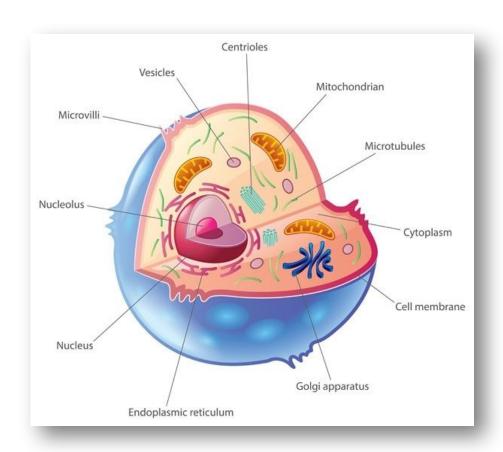


 Cytoplasm-the substance inside a cell that surrounds the cell's nucleus



- The *nucleus* is controlling all cell process.It contains **DNA**, which stores genetic information of plants and animals. Cytoplasm is a jelly-like structure inside of the cell.It surrounds and holds organelles. Organelles are little organs of the cell. They are doing different activities inside it. For example: Vacuole stores water and minerals. Plants have one large vacuole, while it is absent in multicellular animals.
 - Only some **unicellular animals** have food and contractile vacuoles.
 - Food vacuole stores food while contractile vacuole remove excess water from the cell

Organelle-the part of the cell which has its
own function



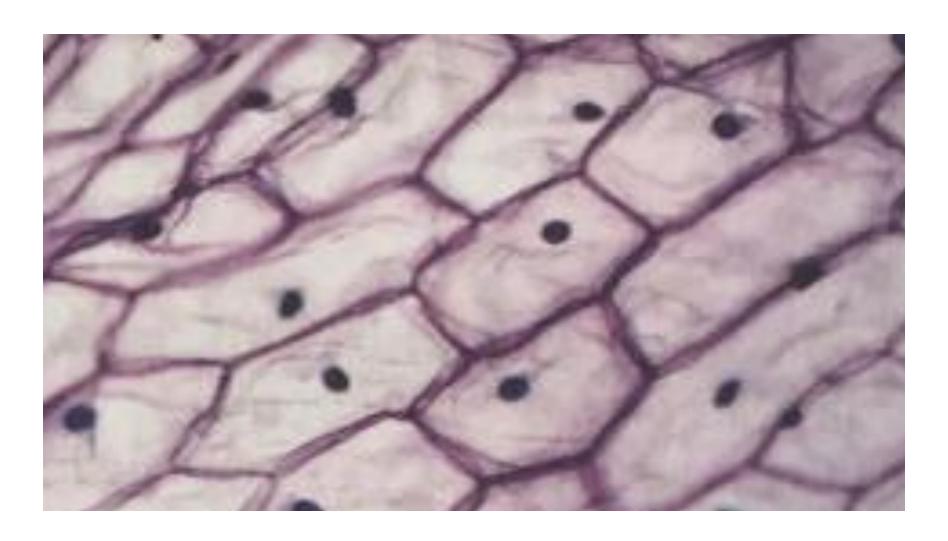
Another different between plants and animals are PLASTIDS

- i. Plastids are found only in plant cells.
- ii. Their function is to make food by using sunlight.
- iii. Plastids give color to the plants.

There are 3 main types of plastids:

- Chloroplasts-give to plants green color
- Leucoplasts-colorless, store starch
- Chromoplasts-give to plants red, yellow, orange colors.

Onion cells under the light microscope

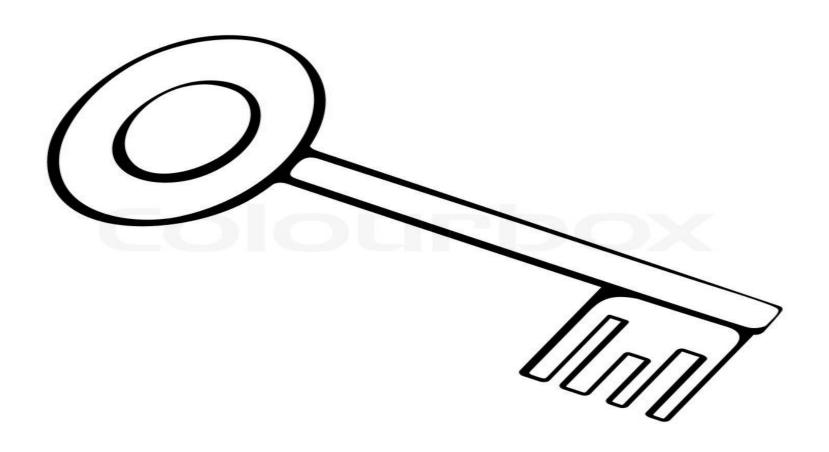


Activity

 Work individually to fill a table below. Which organelle is present in which type of the cell

Name of Organelle	Plant Cell	Animal Cell	Both
Cell Membrane			
Cell Wall		The state of the s	
Chloroplast		To but I	
Cytoplasm			
Vacuoles	and median		3.000
Vacuoles			

KEY TERMS



TERMINOLOGY

- 1) Cell membrane-жасуша 1) мембранасы,клеточная мембрана
- 2) Cell wall-жасуша қабырасы,клеточная стенка
- 3) Contractile vacuoleжиырылғыш вакуоль, сократительный вакуоль
- *4) Enclosed*-қоршалған, закрытый
- 5) Flexible-иілгіш,гибкий

- Light microscope-жарық ұлғайтқышы,световой микроскоп
- **2) Magnify**-ұлғайту, увеличить
- 3) Rectangular-тікбұрышты, прямоугольный
- 4) Rigid-қатты,тығыз, жесткий
- *5) Starch*-крахмал
- 6) Store-сақтау,хранить

Thank you for your attention!