


TRADING CARD CREATOR

by: Carissa Stear

Nucleus

Create Your Own



- 1 Structure**

The nucleus contains DNA or the genetic material of life. In animal cells the nucleus is found in the center of a cell.

But in plant cells the nucleus isn't always in the middle. The nucleus is made of many things plus inner and outer membranes.
- 2 Function**

The nucleus controls the activities of the cell. It is kind of like the brain of the cell.

Since the nucleus is in control of all activities it directs protein through the cell. The nucleus also contains most of the genes.
- 3 Nickname**

The nucleus' nickname is "The Control Center" because it controls everything that the cell does.

It navigates proteins and sugars through the cell. It also moves the cell. If a cell didn't have a nucleus it wouldn't function well.
- 4 Comparison to an Object**

The nucleus is like a brain because our brain is in control of what we do just like a nucleus is in control of a cell.

If we didn't have a brain it would be like if a cell didn't have a nucleus. We both wouldn't function like we should if at all.
- 5**

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ER
Create Your Own



1 Structure

The endoplasmic reticulum is a liquid membrane that all eukaryote cells have. It is made up of tubes, vesicles, and sacs.

The ER is attached the nuclear membrane. There is both the smooth ER and the rough ER. They have different textures.

2 Function

It is the system that transports molecules that are needed throughout the cell.

The rough ER moves ribosomes from the nucleus to the cytoplasm. The smooth ER produces steroids and lipids.

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3 Nickname

The "Packaging System" because it packages and sends proteins and sugars throughout the cell.

4 Comparison to an Object

It is like a post office because they both package and send things to another destination.

It is very important we have both these things because without them we would not get some important items we need.

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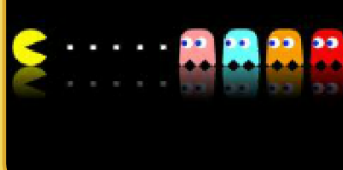
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Lysosomes

Create Your Own



- Structure**

Lysosomes look like tiny round bubbles. They are made of liquid membrane like a lot of the other cell parts.

The lysosomes are located in the cytoplasm of the cell.
- Function**

It breaks down molecules into digestive enzymes. It also helps the cell digest food, waste, and old cell parts that are not needed.

They hold enzymes that are created by the endoplasmic reticulum.
- Nickname**

The lysosomes' nickname is the "Suicide Sacs".

They are called this because if they blow up the whole cell will also blow up. The cell would self destruct.
- Comparison to an Object**

The lysosomes are like PACMAN because the lysosomes eat bacteria and PACMAN eats ghosts.

The ghosts and bacteria are both bad things so lysosomes and PACMAN both eat or get rid of harmful things.
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by: Genna Ellingson

Golgi Bodies

Create Your Own



- 1 Structure**

The Golgi Body is composed of stacks of membrane-bound structures known as cisternae.

The Golgi Bodies are located near the Endoplasmic Reticulum and are found in all animal and plant cells.
- 2 Function**

The Golgi Bodies change molecules and divides them into small membrane-contained sacs called vesicles.

These can then be sent to other parts of the cell in need of nutrients.
- 3 Nickname**

The nickname of the Golgi Bodies is "The Post Office" because it moves nutrients from one area of the cell to another area.

It takes the nutrients and moves them from place, sort of like a post office, hence its nickname.
- 4 Comparison to an Object**

Golgi Bodies can be compared to packages or containers because they divide nutrients and proteins up.

They then move them to other parts of the cell, similar to how packages carry things to us, only carrying nutrients to the cell.
- 5**

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Mitochondria

Create Your Own



- Structure**

The mitochondria are composed of two membranes- an inner and an outer. The function of the outer membrane is to cover the cell.

The inner membrane's function is to fold itself over and increase the cell's size. It's size allows the mitochondria to do more work.
- Function**

The mitochondria creates most of the energy for the cell. It takes in nutrients, breaks them down, and creates energy.

If the cell needs more energy, more mitochondria can be created for the cell. Some cells have thousands of mitochondria.

by: Genna Ellingson
- Nickname**

It's nickname is the Powerhouse of the Cell. It creates all the cell's energy for the cell to use in cellular activities.
- Comparison to an Object**

The mitochondria reminds me of the Sun because it creates energy for other organelles to use in their jobs, just like the Sun.

The Sun creates energy for us, likewise to how the mitochondria makes energy for other parts of the cell.
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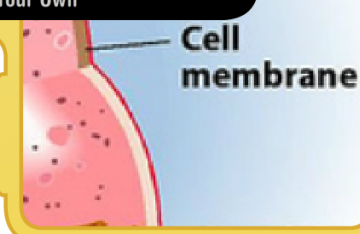
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by: Kylie Nelson

Cell Membrane

Create Your Own



1 Structure

The cell membrane is made of proteins and lipids. The edge contains a thick phospholipids layer. It is over half lipids.

It is located by the layer next to the outside wall, but not the outside wall. It looks like rubber protecting the cell.

2 Function

Supports and protects the cell and holds it together. It decides what comes into the cell and what goes out of the cell.

The things it chooses to come in are not harmful to the cell because it is trying to protect it.

by: Kylie Nelson

3 Nickname

It is nicknamed the "Gate of the Cell" This makes sense because it decides what can come in and what can go out of the cell.

4 Comparison to an object

The cell membrane reminds me of the candy called 'nerds' because it has a hard outer layer holding together the insides.

Like a cell membrane the 'nerd's' outer layer holds together the inside material. It also keeps everything intact.

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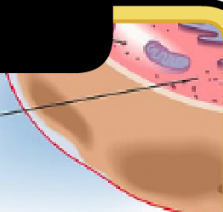
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Cytoplasm

Create Your Own



Cytoplasm
Gel-like fluid inside the cell

- ### 1 Structure

Cytoplasm looks like water or a jelly like substance. It is clear and 80% water. It is located all throughout the cell.

It is made of vitamins, proteins, nucleic acids, ions, amino acids, sugars, fatty acids, and carbohydrates.
- ### 2 Function

A cytoplasm's job is to break down molecules that are too large for the cell using enzymes.

The material broken down is given to small organelles to use.
- ### 3 Nickname

It's nickname is 'Filling Fluid'. The reason it is called this is because it is the liquid that fills the whole cell around every part.
- ### 4 Comparison to an object

Cytoplasm reminds me of saliva. It constantly fills your mouth like cytoplasm fills a cell.

It also breaks apart food if it sits in your mouth for a long amount of time which is like cytoplasm breaking down molecules.
- ### 5

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Vacuoles

Create Your Own



1 Structure

Vacuoles are made of single-celled organelles located throughout and within the cell. Made of food and nutrients.

They look like little bowls or ponds that are spread out within the cell.

2 Function

The vacuoles job is very important. It stores the food, water, and chemicals needed for the cell to live.

by: Kylie Nelson

3 Nickname

'Storage Bin' of the cell. It is called this because it holds all nutrients and food that the cell needs to survive.

4 Comparison to an object

The vacuole cell reminds me of a bowl. It holds all the waste, water, and food for the cell.

A bowl for a human holds whatever they need it to, in most cases food or water like it does for the cell.

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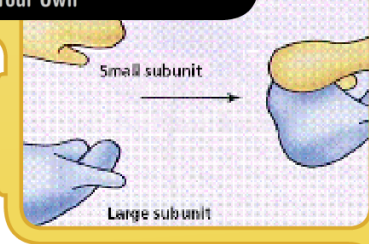
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Ribosomes

Create Your Own



Small subunit

Large subunit

- Structure**

Two different pieces in one ribosome. It is found in all different places throughout the cell.

It is made of an acid called RNA.
- Function**

The ribosomes create protien that the cell needs. The process in which it makes protien is called protien synthesis.
- Nickname**

It is called the "Synthesizers". It is called this because it creates the protien for the cell.
- Comparison to an object**

The ribosomes are like cereal. They float around in the cytoplasm like cereal floats around in milk.
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