

Cell
Theory

Cell Theory

All living
things are
made of cells.

Oct 13-1:40 PM

Cells are the
basic unit of
structure & function.

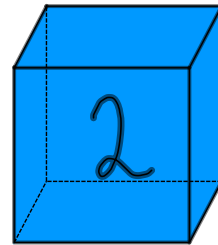
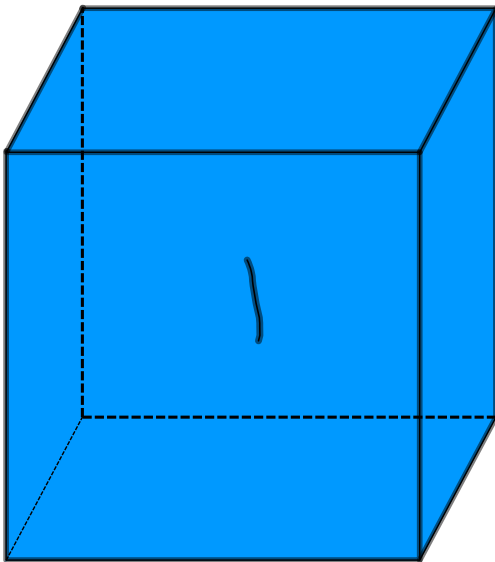
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All cells
Arise from
Other cells.

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Why are
cells so small?

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Surface
Area to
Volume ratio

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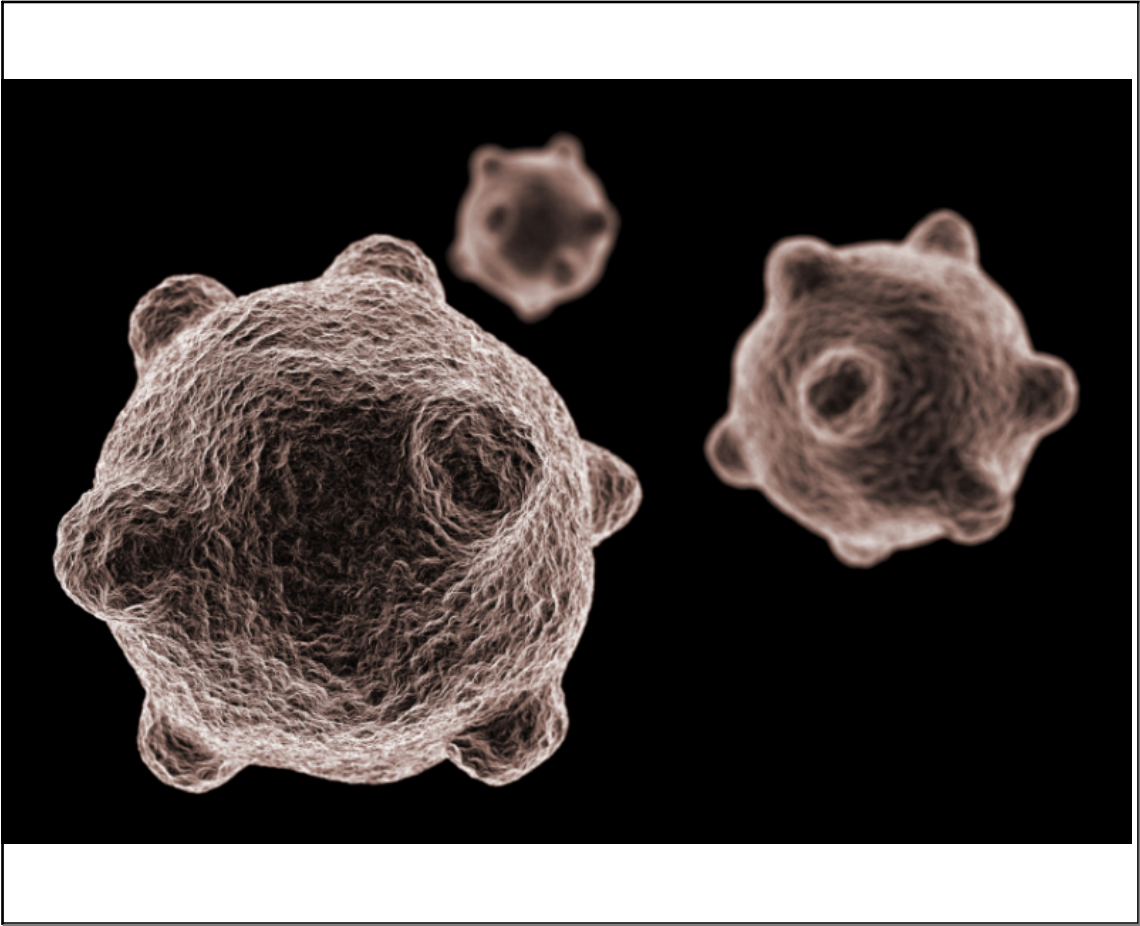
Cells have
common features
called organelles.

Organelle

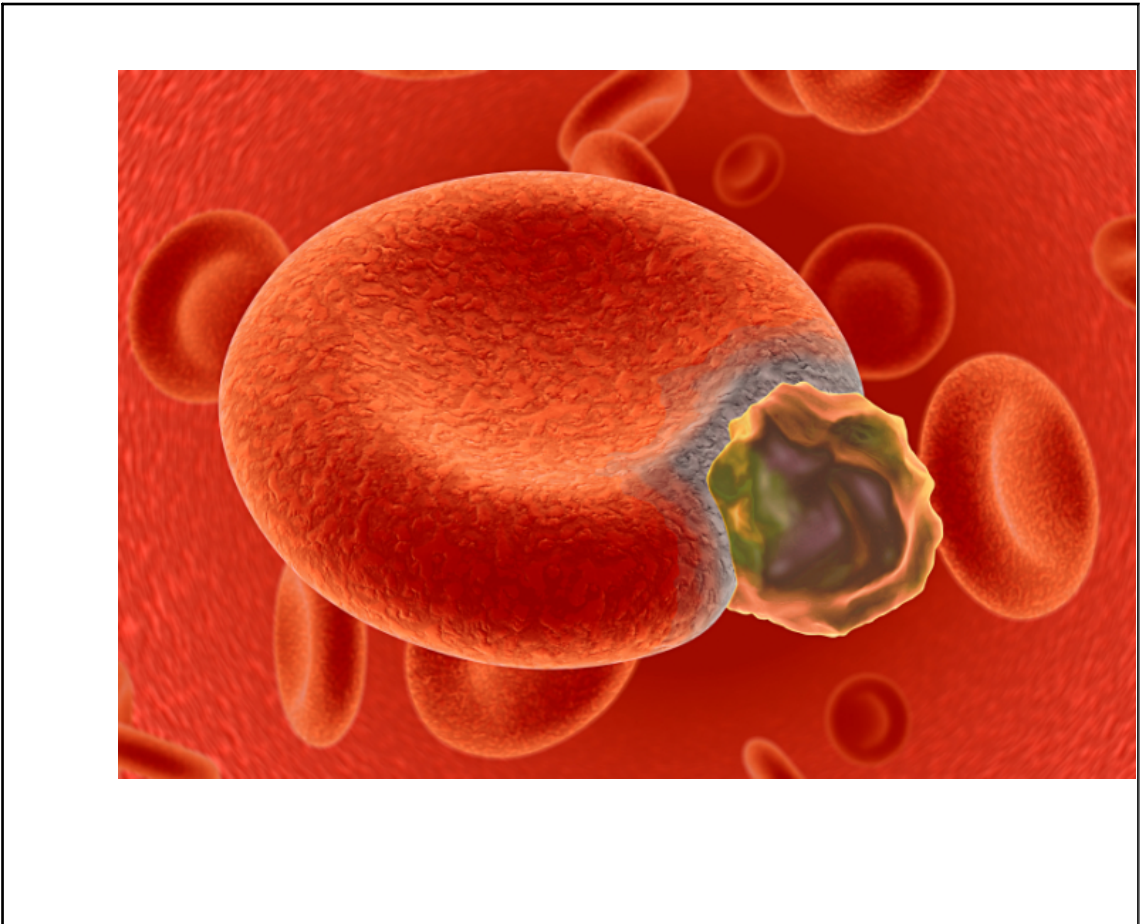
Prokaryotes -
Single-celled organisms
that lack a nucleus.

Ex: Bacteria

Prokaryotes



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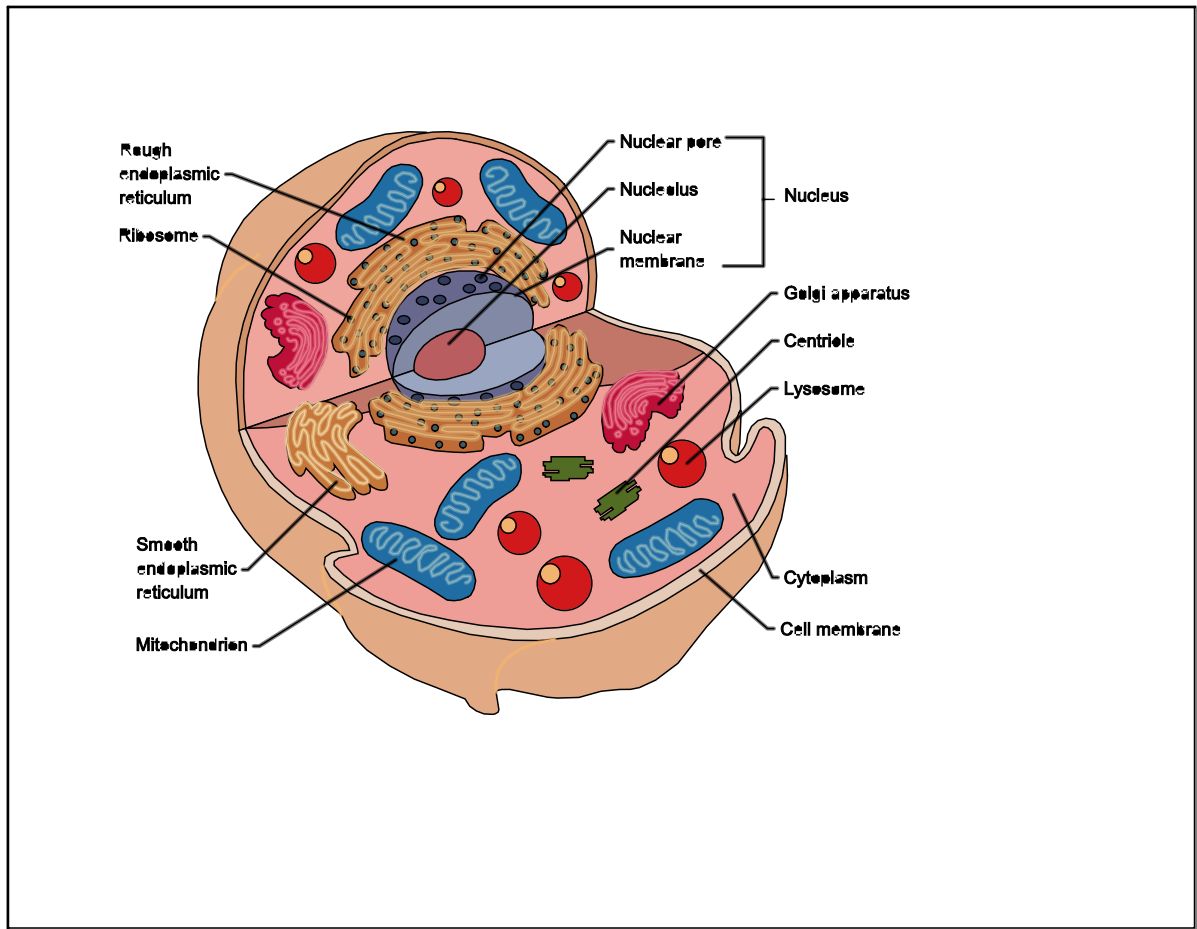
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Eukaryote -
 Organism made
 cells that have
 a nucleus

Eukaryote

Nucleus
controls cell, "brain"
egg yolk
inside the cell

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Nucleolus
contains DNA
center of tootsie pop
inside the nucleus

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Cell Wall

Structure, support,
protection

Orange peel
outside of a Plant Cell

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Cell Membrane

lets things in & out

Cheese cloth

A - outside

P - under the cell wall

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Cytoplasm
holds stuff
jello
inside the cell

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Ribosomes
make protein
kotton candy
inside the cell

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Chromatin
Coiled DNA
Ramen noodles
inside the nucleolus

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ER
transports within
the cell
ribbon candy
inside the cell

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Golgi
packages, processes,
& distributes UPS
ribbon candy
inside the cell

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Lysosome,
breaks down +
digests damaged parts
mini m+mls
inside the cell

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Vacuole

Stores H₂O

wax bottles

inside the cell

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Mitochondria

makes energy ^{own} DNA

Kidney beans

inside the cell

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Chloroplast
makes food for
plant

Pea pods
inside the cell

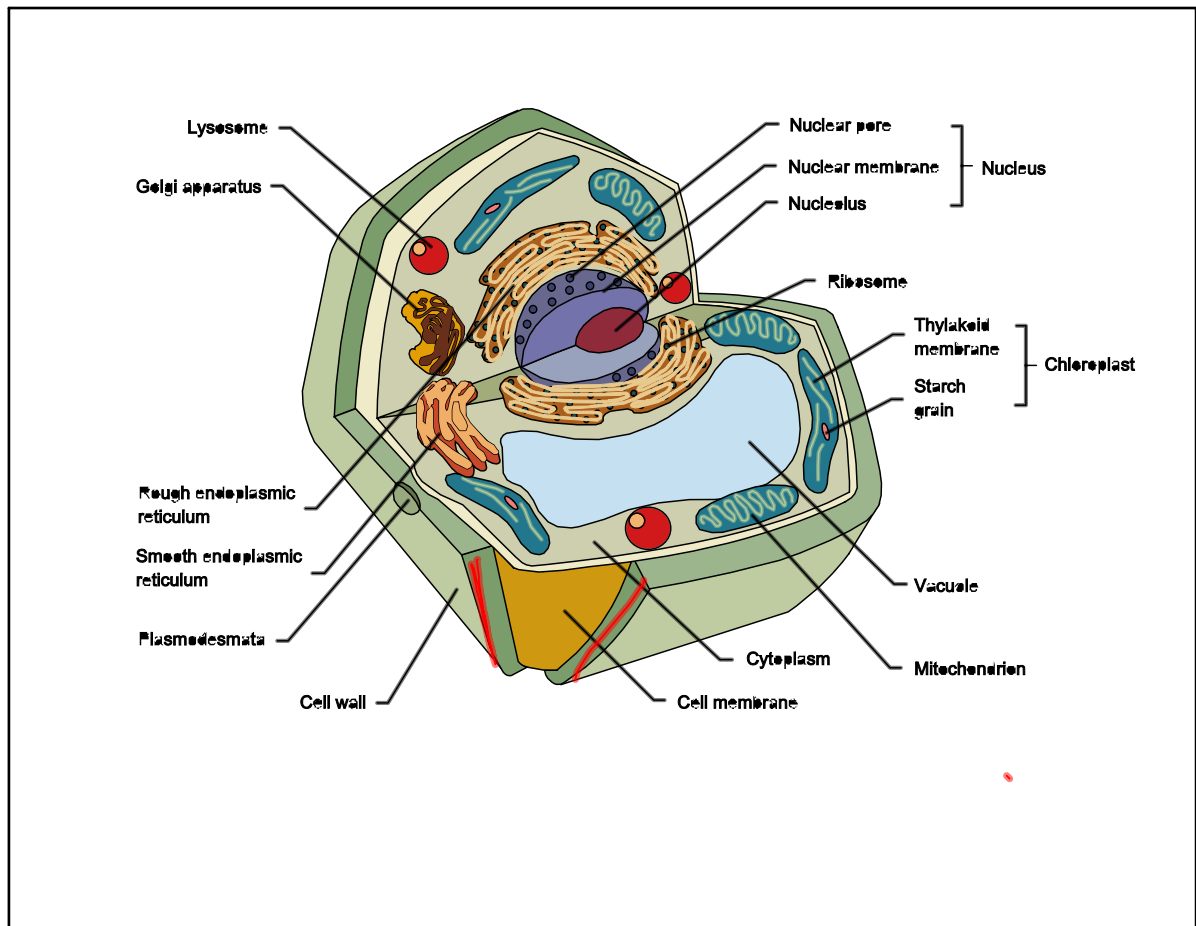
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Cilia
movement
hairs on kiwi fruit
outside the cell

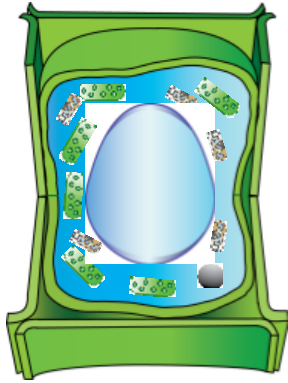
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Flagella
movement
tail
outside the cell

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