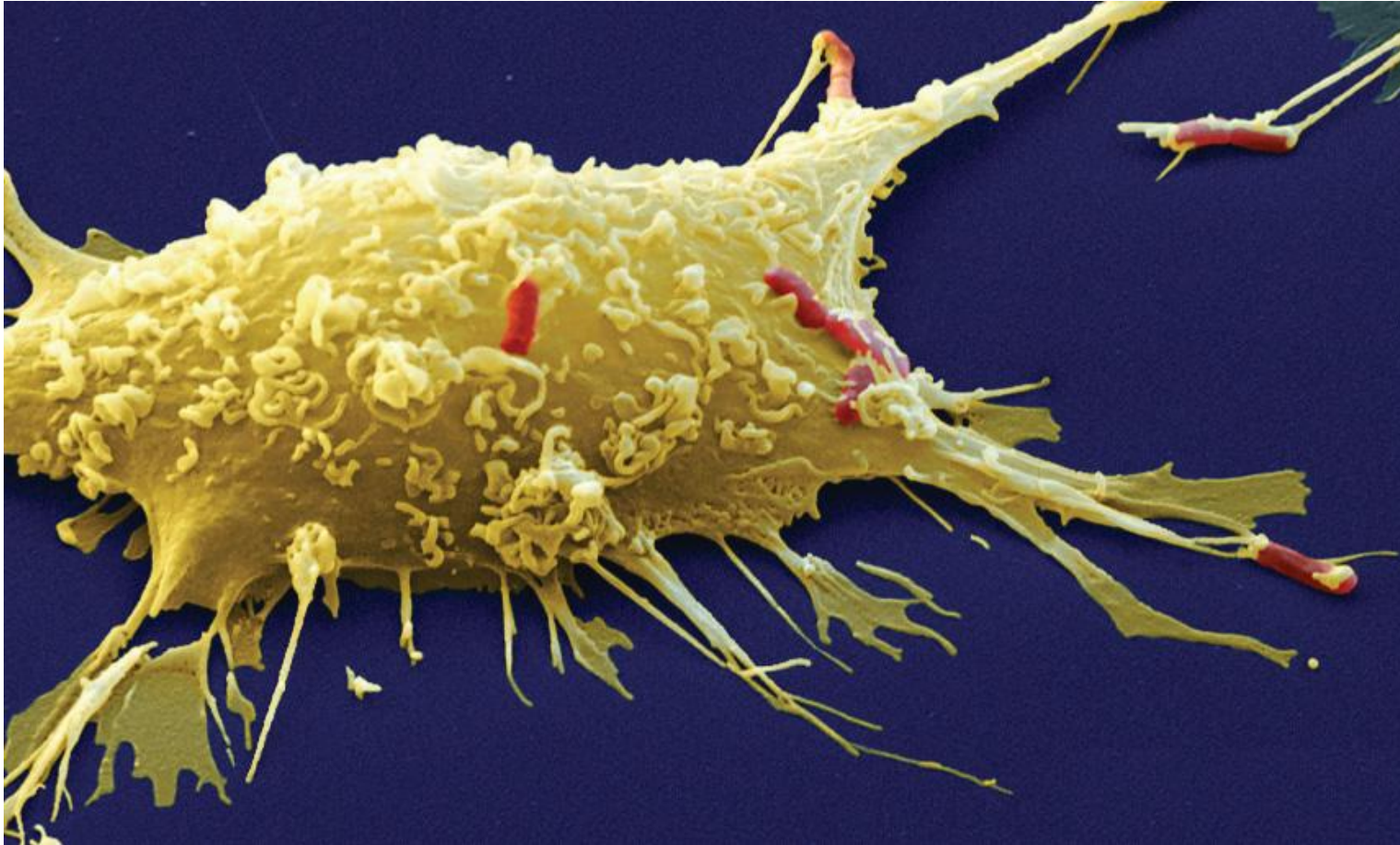


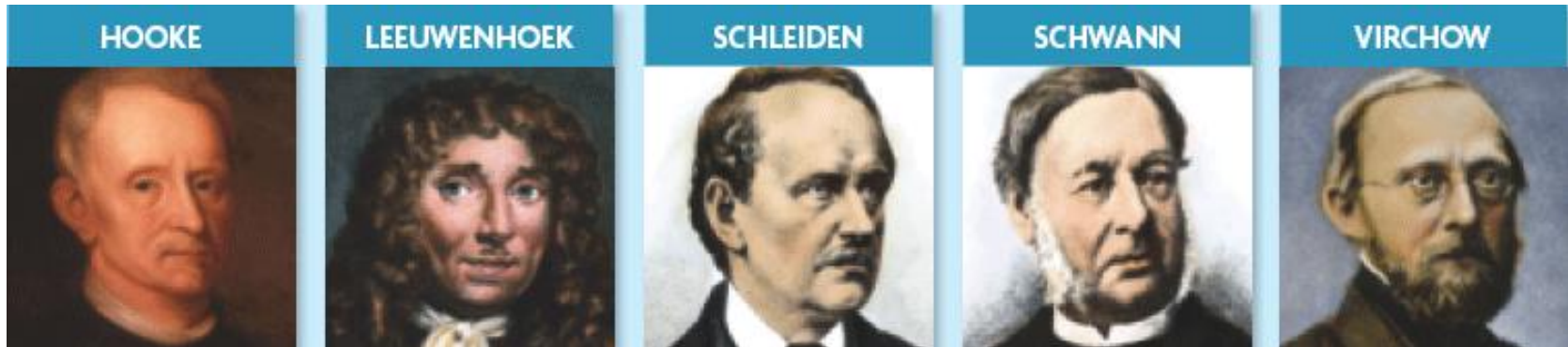
3.1 Cell Theory

KEY CONCEPT Cells are the Basic unit of life.



3.1 Cell Theory

- ▶ **The cell theory grew out of the work of many scientists and improvements in the microscope.**
 - Many scientists contributed to the cell theory.



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 - More was learned about cells as microscopes improved.



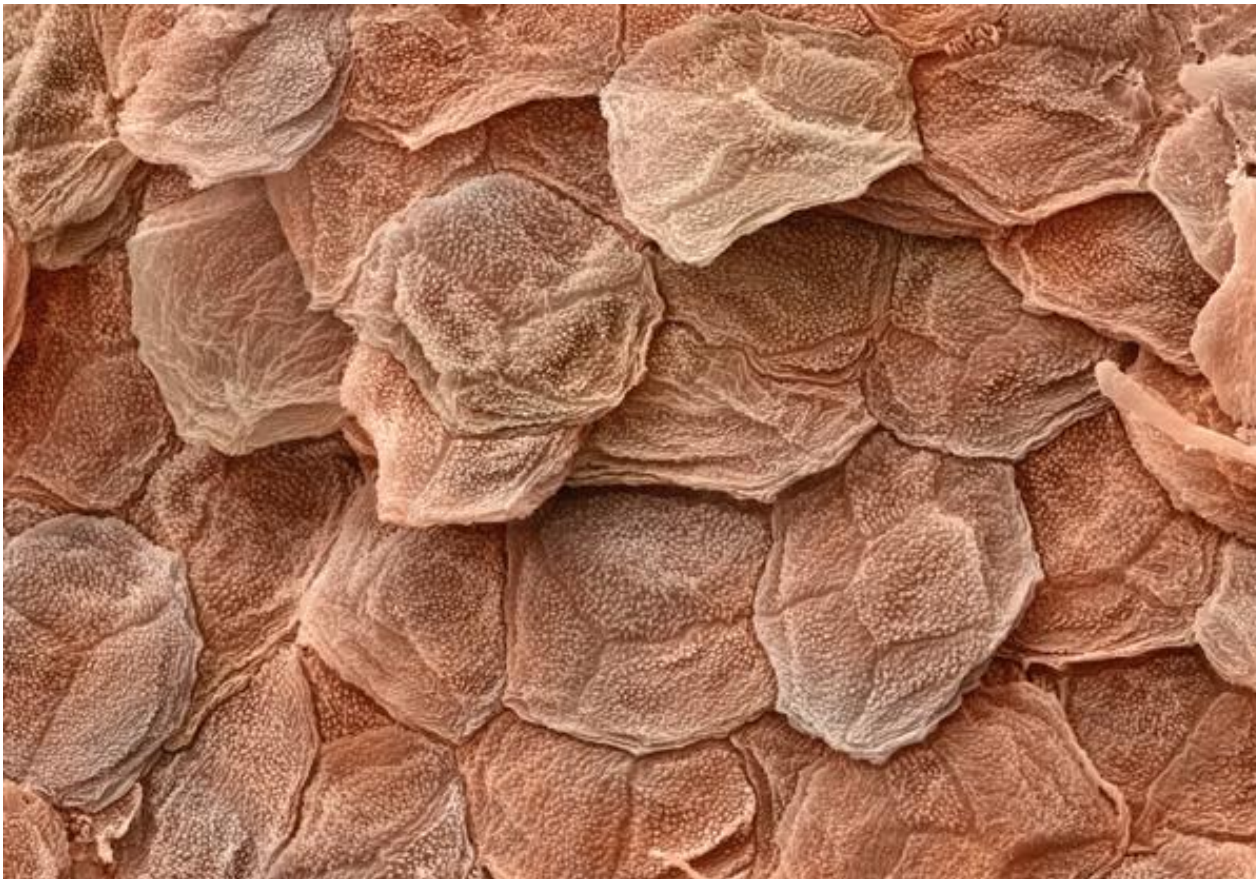
3.1 Cell Theory

- ▶ **The cell theory grew out of the work of many scientists and improvements in the microscope.**
 - Many scientists contributed to the cell theory.
 - More was learned about cells as microscopes improved.
 - The cell theory is a unifying concept of biology.



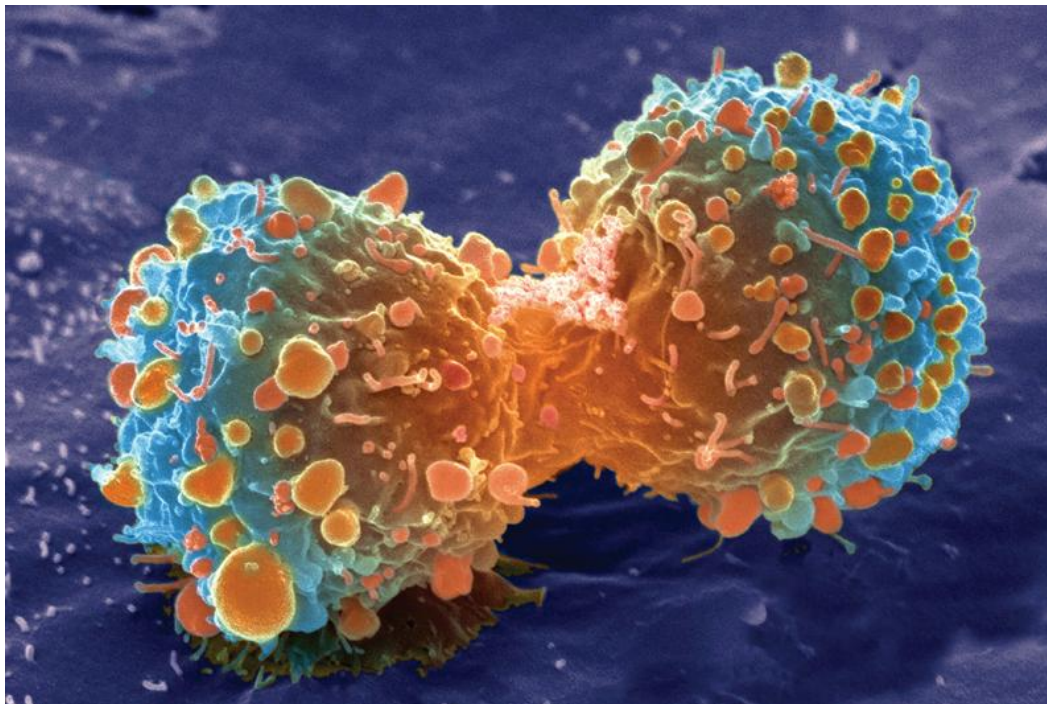
3.1 Cell Theory

- ▶ **Early studies led to the development of the cell theory.**
 - The Cell theory has three principles.
 - All organisms are made of cells.



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3.1 Cell Theory

- ▶ **Early studies led to the development of the cell theory.**
 - The Cell theory has three principles.
 - All organisms are made of cells.
 - All existing cells are produced by other living cells.
 - The cell is the most basic unit of life.

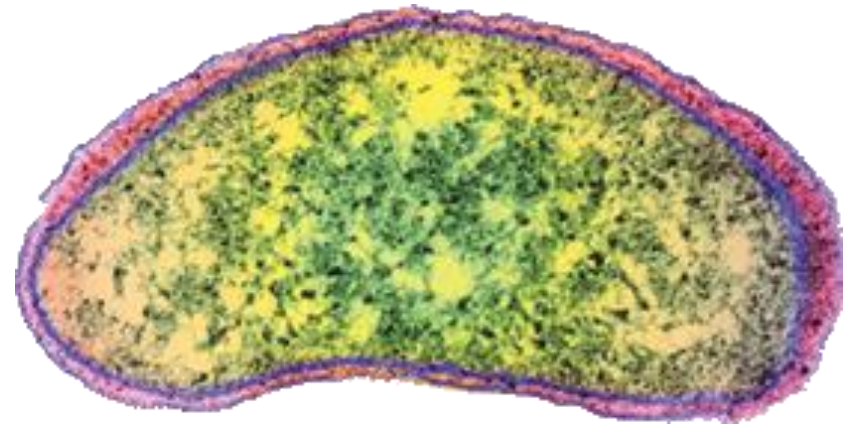


3.1 Cell Theory

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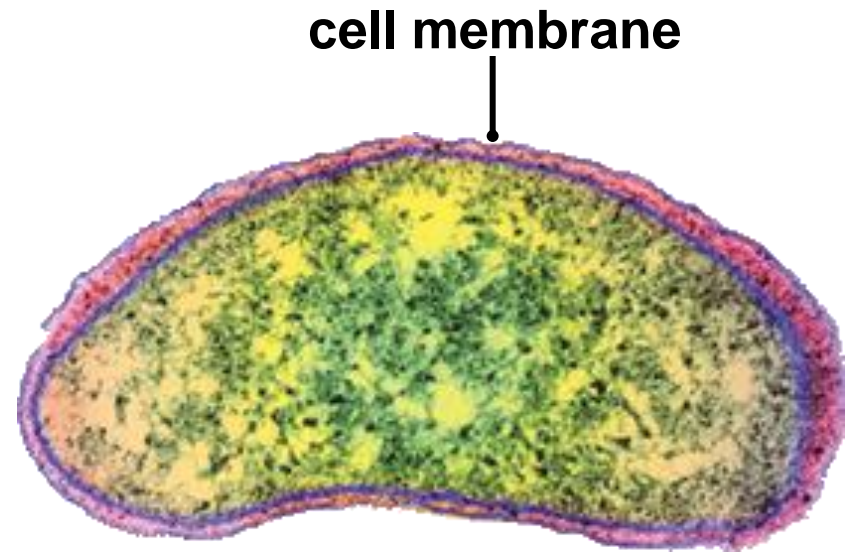


Bacterium
(colored SEM; magnification 8800x)

3.1 Cell Theory

▶ Prokaryotic cells lack a nucleus and most internal structures of eukaryotic cells.

- All cells share certain characteristics.
 - Cells tend to be microscopic.
 - All cells are enclosed by a membrane.

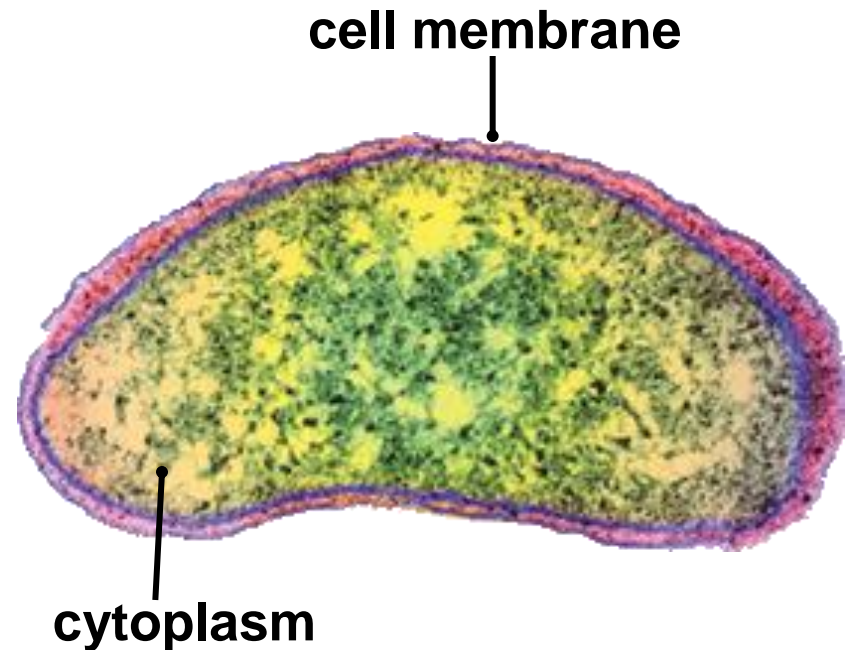


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3.1 Cell Theory

▶ Prokaryotic cells lack a nucleus and most internal structures of eukaryotic cells.

- All cells share certain characteristics.
 - Cells tend to be microscopic.
 - All cells are enclosed by a membrane.
 - All cells are filled with cytoplasm.



Bacterium
(colored SEM; magnification 8800x)

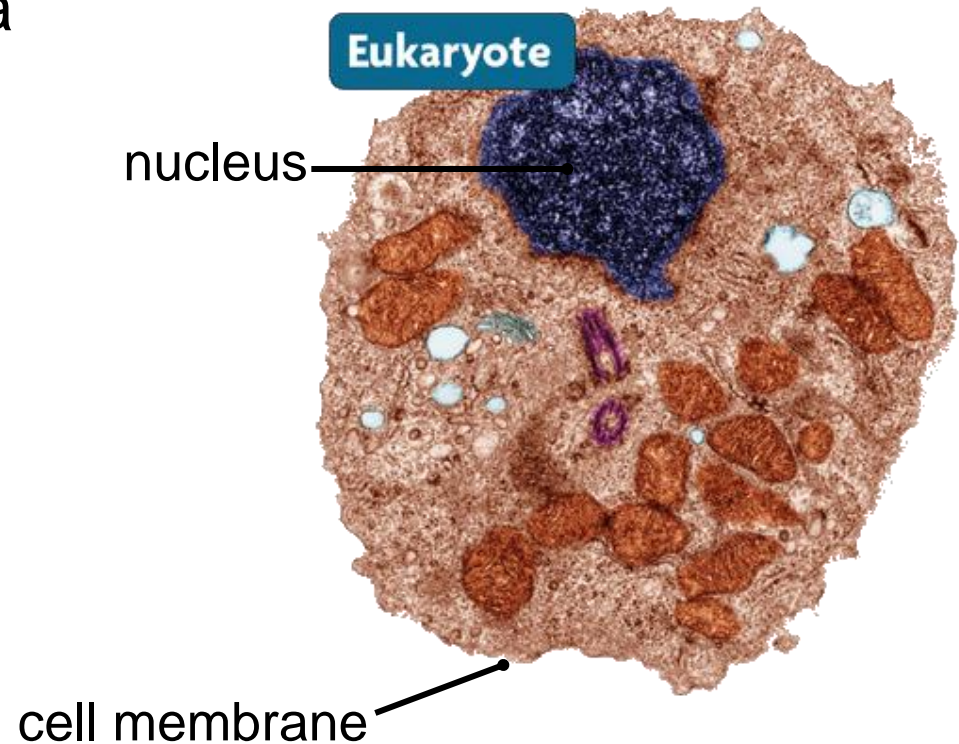
3.1 Cell Theory

- ▶ **There are two cell types: eukaryotic cells and prokaryotic cells.**

3.1 Cell Theory

▶ There are two cell types: eukaryotic cells and prokaryotic cells.

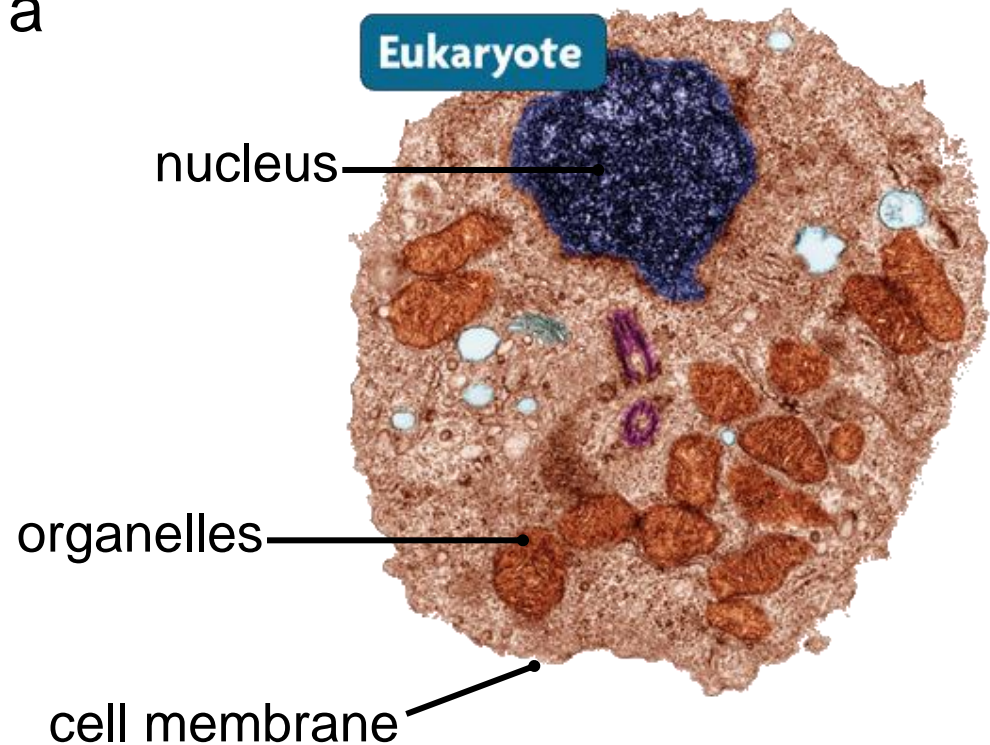
- Eukaryotic cells have a nucleus.



3.1 Cell Theory

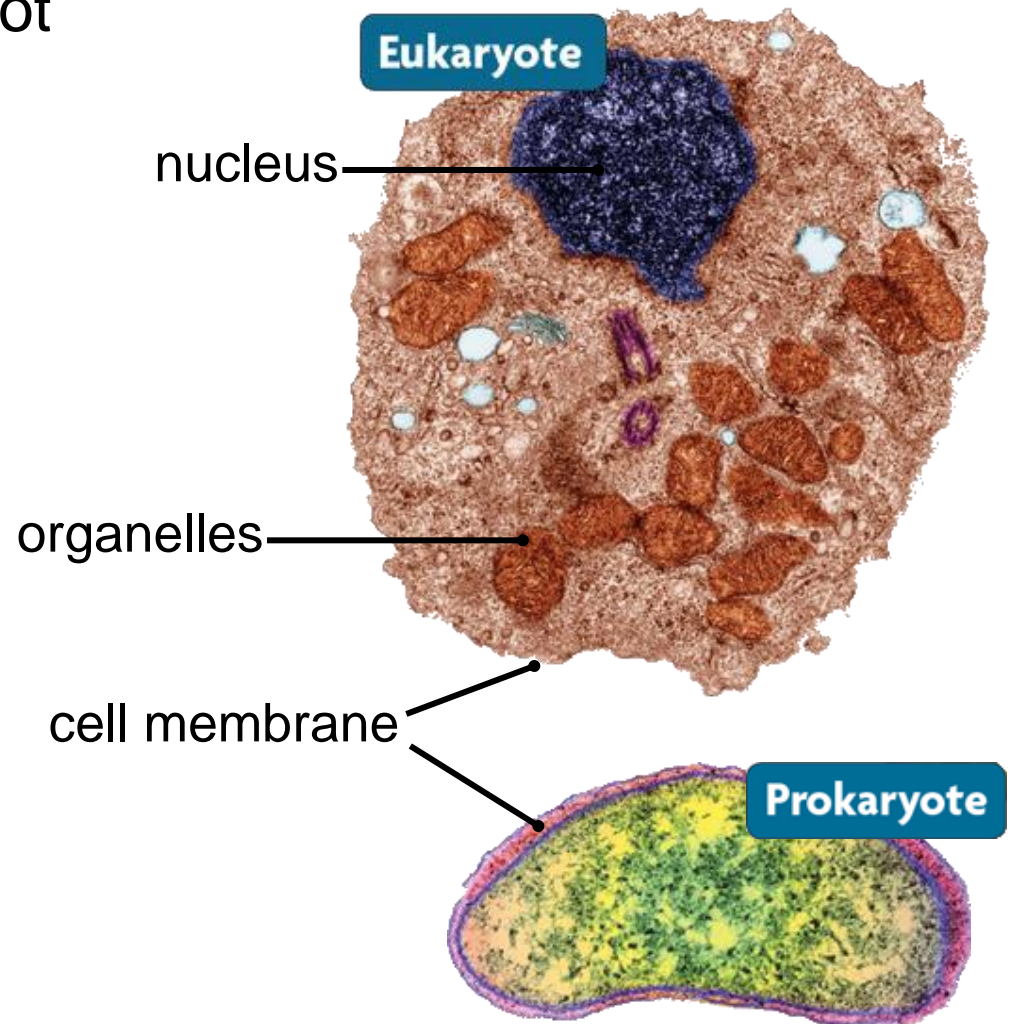
▶ **There are two cell types: eukaryotic cells and prokaryotic cells.**

- Eukaryotic cells have a nucleus.
- Prokaryotic cells do not have membrane-bound organelles.



3.1 Cell Theory

- ▶ There are two cell types: eukaryotic cells and prokaryotic cells.
 - Prokaryotic cells do not have a nucleus.



3.1 Cell Theory

▶ There are two cell types: eukaryotic cells and prokaryotic cells.

- Prokaryotic cells do not have a nucleus.
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