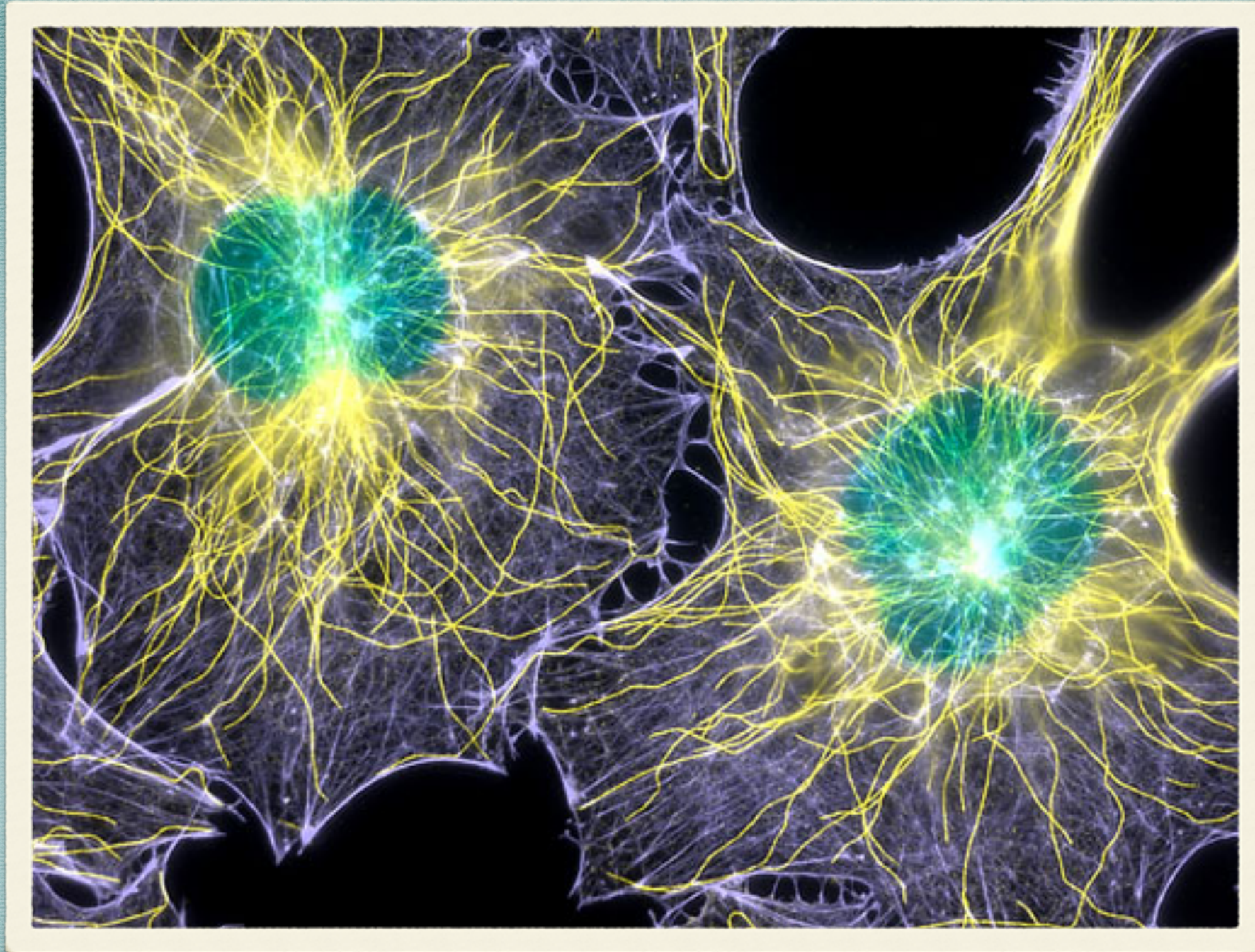




Discovering Cells

Chapter 1, Lesson 1, pages 4-7



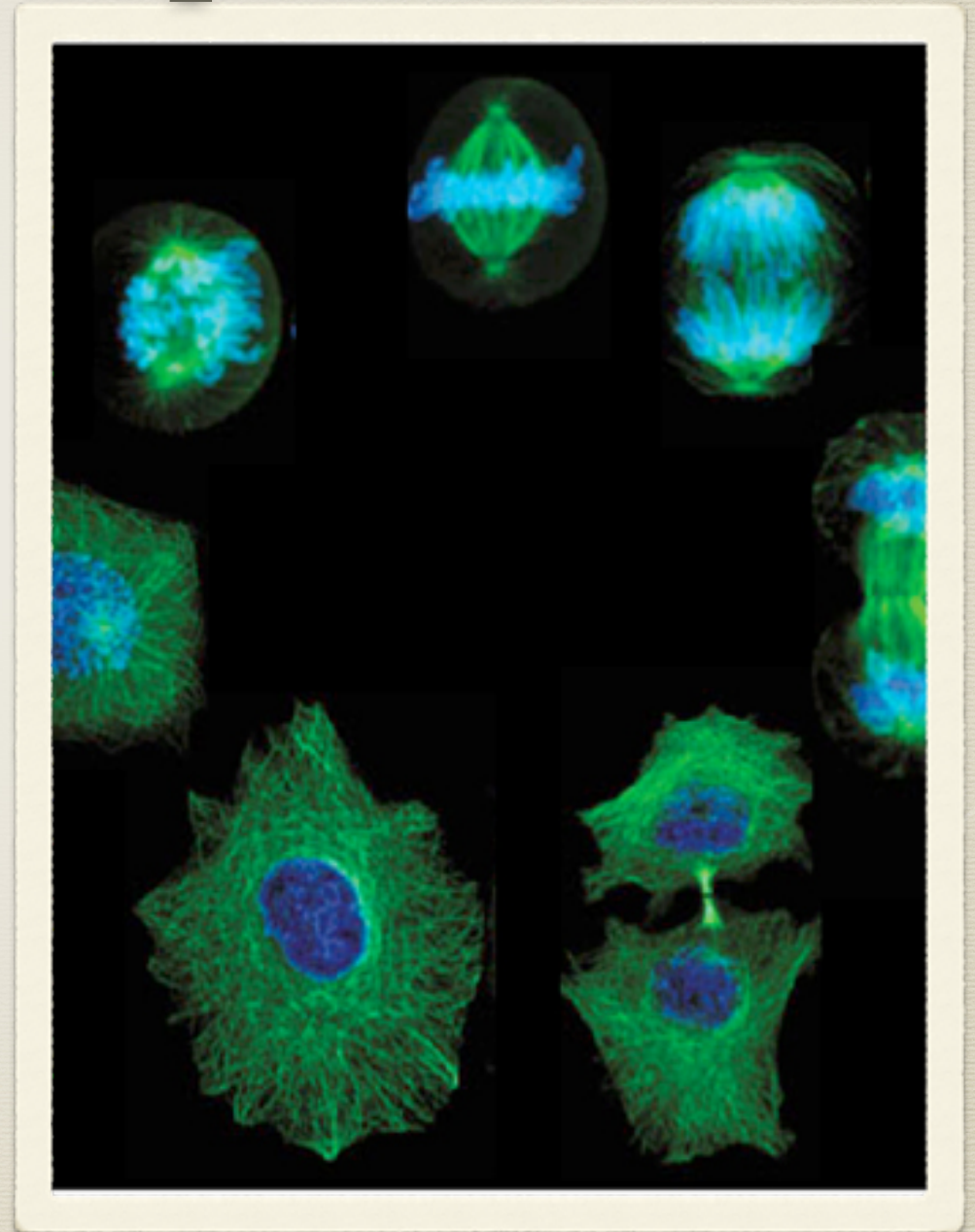
Cells: the basic unit of structure and function in living things.



The structure of all living things is determined by the ways cells are put together.

Cell Functions: allow it to live, grow, and reproduce.

- * Obtain Oxygen
- * Obtain food
- * Obtain water
- * Remove waste



The background of the slide is a microscopic image of plant cells, showing a dense arrangement of cells with thick, dark blue cell walls and small, dark blue nuclei. The cells are roughly rectangular and polygonal in shape, typical of an onion skin or similar plant tissue. The overall color palette is light blue and white, with the cell walls providing a grid-like pattern.

The Cell Theory

1. All living things are made up of one or more cells
2. Cells are the basic unit of structure and function
3. All cells come from pre-existing cells
4. Cells contain the hereditary information which is passed from cell to “daughter” cell during cell division
5. All cells are basically the same in chemical composition



Robert Hooke



Anton van Leeuwenhoek



Matthias Schleiden



Theodor Schwann



Rudolf Virchow

Men of the Cell Theory

by: Rebecca Cutright, Natalia, Dakari



1665- Robert Hooke found cells by looking at a thin piece of cork. He said that the cells looked like tiny boxes or honey comb.

1673- Anton van Leeuwenhoek used a handmade microscope to look at pond scum & discovered single cell organisms. He called them animolecules. He also looked at blood cells from fish, birds, frogs and humans. He concluded that cells were in plants and animals too.

1838- Matthias Schleiden found that all plant parts are made of cells

1839- Theodor Schwann found out that all animals are composed of cells

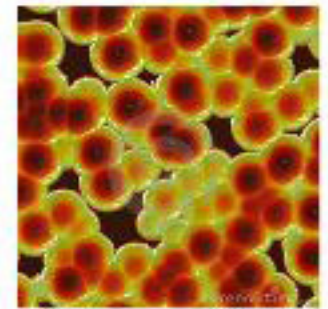
1858 Rudolf Virchow concluded that cells must arrive from from cells that are already there



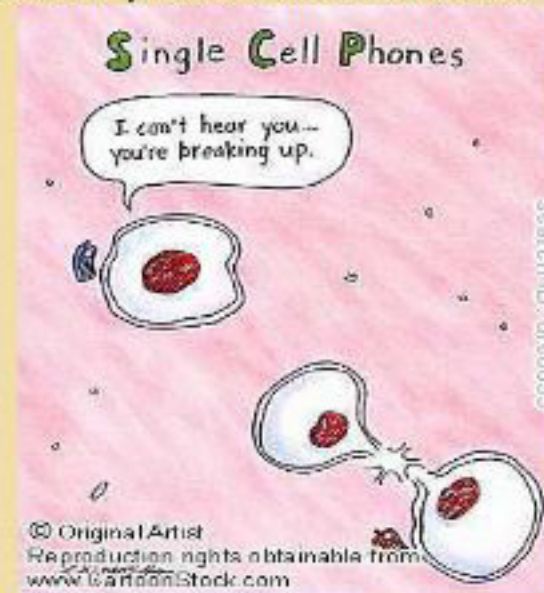
blood cells



microscope



more cells



A cell's functions can
include obtaining food and
water and getting rid
of

A cell's functions can
include obtaining food and
water and getting rid
of wastes

A large organism is made
up of many millions of ...

A large organism is made
up of many millions of ...
Cells

The describes
how cells are related to
living things.

The cell theory describes
how cells are related to
living things.

The scientist who gave cells
their name?

The scientist who gave cells their name? Robert Hooke

