

# GENERAL BIOLOGY 1

## LESSON 1: CELL THEORY

Biology (Study of Life)

- > Bios-life
- > Logos-study

## SCIENTIST CONTRIBUTES TO THE CELL THEORY

- ❖ Robert Hooke
  - The first scientist to discover the cell
  - Observe a thin sliced of cork using microscope with 20x-50x magnification
  - Inside the thin sliced of cork he found an empty rooms that he called cell from the Greek word
- ❖ Antoine Van Leeuwenhoek
  - The father of microbiology
  - Invented a compound microscope with magnification of 270
  - Tried the experiment of Hooke using his microscope and found motile objects in cork
  - Discover the red blood cells, sperm cell, protist, and bacteria

## FORMULATES

- ❖ Matthias Jakob Schleiden
  - German Botanist
  - Proposed that all plants are composed of cell
- ❖ Theodore Schwann
  - German Zoologist
  - Proposed that all animals are composed of cell
- ❖ Rodolph Virchow
  - German Pathatologist
  - Proposed that all living cells comes from pre-existing cells

## Cell Theory

- Basic unit of life
- All living things are composed of one or more cell
- All living things comes from pre-existing cell

## LESSON 2: STRUCTURE AND FUNCTION

- Structure means the physical appearance of a thing
- Function means the task or job of a thing
- Cell Wall
  - Outermost layer of the cell
  - Found only in plants
  - Gives strength and support and structure

# General Biology 1 Bio 111

**Ying-Ying Zheng**



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