

Chapter 8

CELL STRUCTURES AND FUNCTIONS

Discovery of the cell theory:

- **Robert Hooke** (1665) observed a thin slice of Cork under his crude Microscope and described that cork composed of small spaces surrounded by firm wall and gave the name cell.
- **Anton van Leeuwenhoek:**
First time observed the living cell under his single lens microscope.
- **Robert Brown:**
1831 Discovered the Nucleus in the cell.
- **Matthias Schleiden & Theodore Schwann** are proposed the cell theory.
- **Rudolf Virchow** he explained that every cell arise from pre-existing cell. He modified the hypothesis of Schleiden & Schwann to give the cell theory final shape.

Modified cell theory:

1. All living organisms are composed of cells and product of cells.
2. All cells arise from pre-existing cells.