



Cell Theory

Robert Hooke



- ◆ Born Freshwater Isle of Wight July 18, 1635
- ◆ Died London March 3, 1703
- ◆ English Scientist
- ◆ Professor of Geometry at Gresham College



Robert Hooke and cells...



- ◆ 1665 Viewed the first cells under the microscope
- ◆ He viewed cork cells
- ◆ He named them cells because they looked like empty boxes just like the rooms called “cells” that monks slept in at monasteries.
- ◆ The word cell comes from latin word “Cellulae” meaning “rooms” and “cella” meaning “a small room.”



Anton van Leeuwenhoek

- ◆ Born: October 24, 1632, Delft Holland
- ◆ Died: August 26 (or 30,) 1723
- ◆ Dutch lens maker and merchant
- ◆ 1st to observe living cells under the microscope. (1676)
- ◆ Called the “Father of Microscopy”
- ◆ Called living things in a drop of pond water “animalcules.”



Matthias Jacob Schleiden



- ◆ Born April 5, 1804 in Hamburg
- ◆ Died June 23, 1881 Frankfurt
- ◆ German Botanist
- ◆ 1838: All plants are made up of cells.



Theodor Schwann



- ◆ Born: Dec. 7, 1810 in Neuss, Germany
- ◆ Died: Jan. 11, 1882 in Cologne
- ◆ German Zoologist
- ◆ 1839: All animals are made up of cells.



Rudolf Virchow



- ◆ Born: Oct. 13, 1821
- ◆ Died: Sept. 5, 1902
- ◆ German Doctor
- ◆ 1858 observed cells dividing under the microscope and deduced that: All cells come from only other living cells.
- ◆ All cells arise from preexisting cells.



Cell Theory

- ◆ The efforts of these men lead to what is known as cell theory.
- ◆ The cell theory states:
 - A cell is the smallest unit able to carry out life processes (cells are the basic unit of structure and function of living organisms.)
 - All living organisms are made up of one or more cells.
 - All cells come from only other living cells.