

Virchow	Proposed that all cells come from pre-existing cells
Schwann	Proposed that all <u>animals</u> are made of cells
Schleiden	Proposed that all <u>plants</u> are made of cells
Hooke	The first to observe and name “cells” when he looked at cork under a microscope
Van Leeuwenhoek	Improved the design of the microscope and is credited with discovering bacteria (which he named “animicules”)
Pasteur	Disproved the “theory of spontaneous generation” with the Swan Neck Flask Experiment; responsible for germ theory – diseases are caused by microbes; advanced techniques of pasteurization and immunization
Koch	Definitively proved that contagious diseases are caused by specific germs, and invented a technique to prove a particular germ was the cause of a particular disease
Darwin	Proposed the ideas (theories) of ‘evolution by natural selection’ and ‘descent with modification’
Mendel	The “father of genetics,” he performed experiments with pea plants to determine how traits were passed from generation to generation through units called “genes.”
Franklin	Used a technique called x-ray crystallography to observe the DNA molecule; provided crucial information that led to the discovery of DNA’s structure
Watson & Crick	Credited with first determining the double helix structure of the DNA molecule; later involved in other genetic discoveries, including the Central Dogma and the Human Genome Project
Chargaff	Discovered that in any DNA sample, the amount of Adenine (A) and Thymine (T) are always equal; and the amount of Cytosine (C) and Guanine (G) are always equal