

Jan van Helmont

1577 A.D. – 1644 A.D.



Flemish chemist and physician who studied spontaneous generation. van Helmont performed a five-year experiment and showed that plants obtain some of their matter to grow from the atmosphere.

Jan Ingenhousz

1730 A.D. – 1799 A.D.



Dutch physiologist, biologist, chemist who showed that light was essential to plant cellular respiration.

Joseph Priestly

1733 A.D. – 1804 A.D.



English theologian, chemist, who discovered oxygen, wrote a history of electricity, and realized that animals used oxygen to survive.

Julius van Sachs

1832 A.D. – 1897 A.D.



German botanist who realized that chlorophyll could catalyze oxygen and water to create starches.

Theodor Engelmann

1843 A.D. – 1909 A.D.



German botanist and microbiologist who measured the effects of different colors of light on the rate of photosynthesis and showed that the activity occurred in the chloroplast.

Fritz Albert Lipmann

1899 A.D. – 1986 A.D.



German-American biochemist and codiscoverer of coenzyme A, a critical factor in the process of cellular respiration.

Hans Adolf Krebs

1900 A.D. – 1981 A.D.



German-born British physician and biochemist who discovered the urea and citric acid metabolic cycles.