

# Historical Contributors

Directions: Use the information below to complete the "Historical Contributions" chart and timeline.

## I. Hans and Zacharias Janssen

- Dutch lens grinders, father and son
- Produced first compound microscope (2 Lenses)



Zacharias Janssen  
(1580-1638)

1600

|

1800

|

2000



Hans Janssen

45 cm lang



## II. Robert Hooke (1665)

- English scientist
- Looked at a thin slice of cork through a compound Microscope
- Observed tiny, hollow, room-like structures
- Called these structures "cells"
- Only saw outer walls (cell walls) because cork cells are not alive



Robert Hooke  
(1635-1703)

## III. Anton van Leeuwenhoek (1680)

- Dutch fabric merchant and amateur scientist
- Looked at blood, rainwater, scrapings, from teeth through a simple microscope (1 lens)
- observed living cells called some "animalcules"
- some of the small "animalcules" are now called bacteria



Antonie van Leeuwenhoek  
(1632-1723)

**IV. Matthias Schleiden (1838)**

- **German botanist**
- **Viewed plant parts under a microscope**
- **Discovered that plant parts are made of cells**



**Matthias Schleiden  
(1804-1881)**

**V. Theodor Schwann (1839)**

- **German zoologist**
- **Viewed animal parts under a microscope**
- **Discovered that animal parts are made of cells**



**Theodor Schwann  
(1810-1882)**

**VI. Rudolf Virchow (1855)**

- **German physician**
- **Stated that all living cells come only from other living cells**



**Rudolf Virchow  
(1821-1902)**