

# 1655 Robert Hooke

## CELL THEORY INFORMATION CARDS

He made one of the first microscopes and was the one to introduce the word cell when he was looking at a cork underneath his microscope. The image he saw reminded him of the cells that monks used to live in, this is how the word cell came to be used as a scientific term



# 1670-83 Van Leeuwenhoek



He was the first one to see a living organism through the eyes of a microscope, this happened when he was studying pond water. He named the moving organisms animalcules because they looked like animals

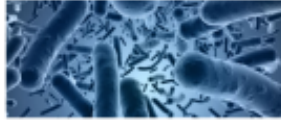
# 1748 John Needham

He heated the chicken broth to kill any bacteria, covered it and then left it. Days later he found there was presence of life, he supported the idea of spontaneous generation because of his experiments and believed that all molecules contained the ability to do abigogenesis. What he didn't know was that he hadn't heated it long enough for his experiment to work properly.



## 1869 Louis Pasteur

He was a scientist who studied disease causes and preventions and found out that there were microorganisms in food. After also studying and experimenting with chicken broth he manipulated the variable of air and found out that living organisms were made from air-borne organisms. He also invented a way to prevent food from making people sick, this was called Pasteurization.



## 1859 Rudolf Virchow

Virchow built off the work of Theodor Schwann and introduced the idea of cell division, he said that all cells stem from other cells. This was seen when he saw that when an organism got sick only some cells or group cells got sick and not the full organism.



## 1839 Theodore Schwann

Theodore saw a connection between plants and animals how they had similar cell structures. Matthias Schleiden and Theodore Schwann, together made an important part of the cell theory. They stated all living things are made of one or more cells.



# 1668 Francesco Redi

An Italian scientist who experimented on meat to see how rotting/maggots were produced. He did this to disprove the spontaneous generation belief, this was the belief that living things appeared from non-living things. He discovered this was wrong because there was no growth of organisms on the meat. Yet people still believed that abiogenesis was real because Redi did not know why the meat experiment had worked.

