

Cell + Microscope History Notes

≈ 1590 Dutch lens Makers

Zacharias Janssen + his father Hans
made a simple "double lens" microscope
- "first compound microscope"

≈ 1670's Anton von Leeuwenhoek (Dutch)
improved on the microscope - magnifying up to
270x

"Father of Microscopy"

≈ 1665 Robert Hooke (English)

- looked at thin slices of cork
- saw small box-like structures + named the cells

Robert Brown (Scottish)

- cells seem to have a dark structure near the center of the cell

Matthias Schleiden (Germany)

- plants are made of cells

Theodor Schwann (Germany)

- Animals are made of cells

Rudolf Virchow - (Germany)

- cells arise from other living cells

Cell Theory

- 1.) All cells come from pre-existing cells
- 2.) All living things are made up of cells
- 3.) Cells are the basic unit of structure + function in living things

Prokaryotic -

- do not have an organized nucleus or membrane covered organelles
- bacteria

Eukaryotic -

- organized nucleus + membrane covered organelles
- plants + animals