Simple Microscope (1 lens)

~ 20 magnification

Antonie Von Leeuwenhoek

first to see living cells

Leeuwenhoek's Simple Microscope (1 lens)

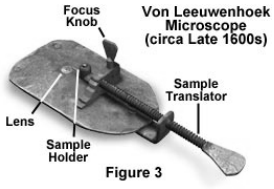
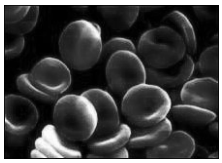


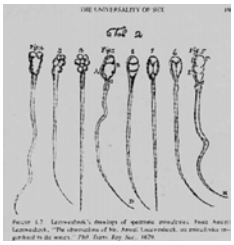
Figure 3

Leeuwenhoek looked at red blood cells



He also looked at bacteria

This is his drawing of sperm.



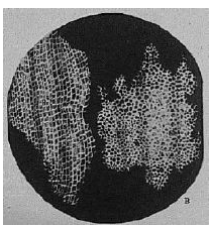
Robert Hooke – 1st Compound Scope

first to see cells (but they were dead)

Hooke's Compound Microscope (2 lenses)

Figure 1

Drawing of Cork Cells by Hooke



Snowflakes by Hooke

Fly drawing by Hooke

Modern Light Microscope

~1,500 magnification

Scanning Electron Microscopes (SEM)

~60,000 magnification

Scanning Tunneling Microscope (STM)

~1,000,000 magnification

Transmission Electron Microscope (TEM)

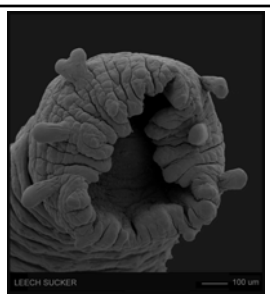
~2,000,000 magnification

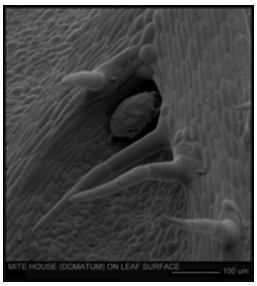
The latest in transmission electron microscopes.

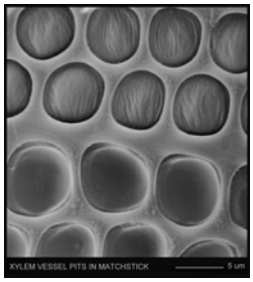
A woman standing inside the microscope.

Picture Gallery

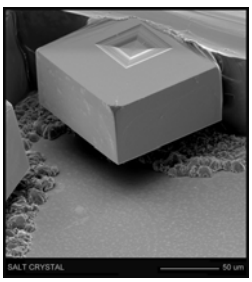
(using a scanning or tunneling electron microscope)




MITE HOUSE (DOMATUM) ON LEAF SURFACE
100 um


XYLEM VESSEL PITS IN MATCHSTICK
5 um


MAYFLY EGG
10 um


SALT CRYSTAL
50 um


WATTLE POLLEN GRAIN
10 um

The End