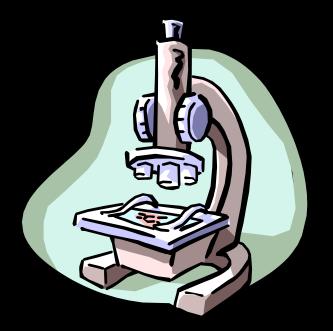
## Microscopes



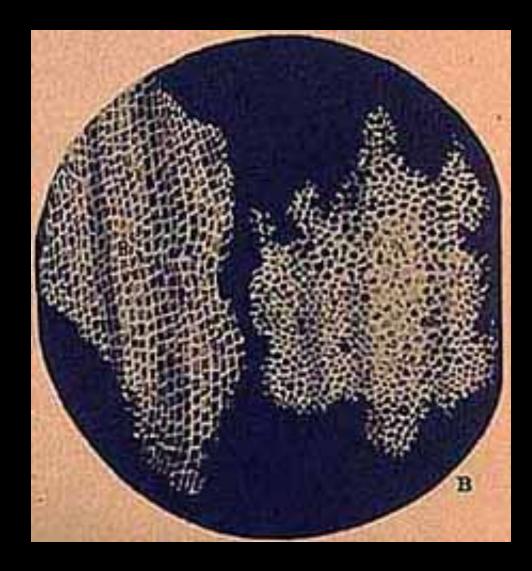
#### Dr.Aseel basim

### History of the Microscope

## 1590 –first compound microscope



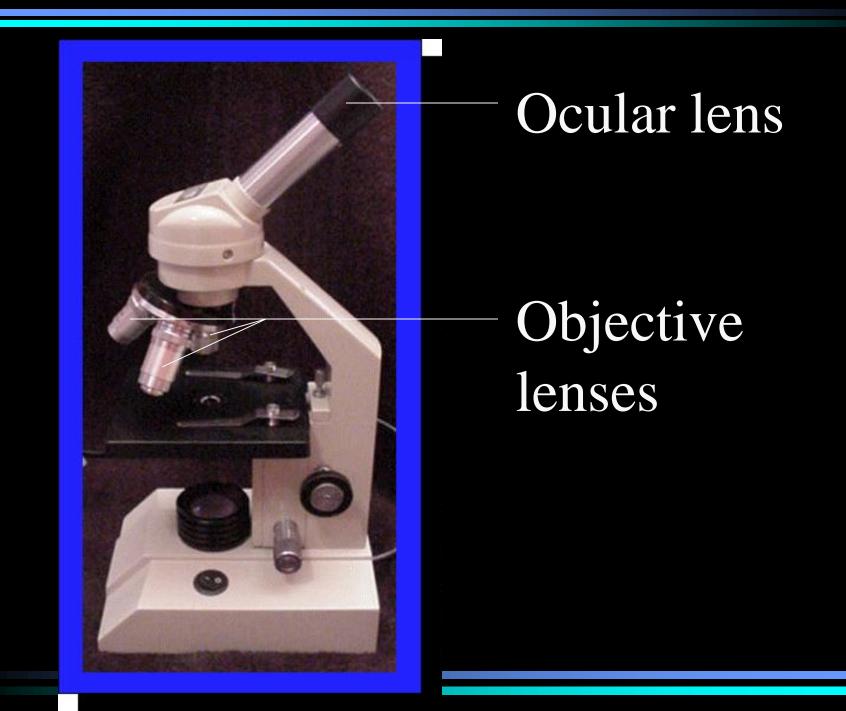
 1655 – Robert Hooke used a compound microscope to observe holes in cover He called them "cells"



# Antoine van Leeuwenhoek -1<sup>st</sup> to see single-celled plants in pond water

 Magnification: increase of an object's apparent size Resolution: power to show details clearly Both are needed to see a clear image

**Types of Microscopes** 1. Compound Light Microscope -1<sup>st</sup> type of microscope, most widely used -light passes through 2 lenses -Can magnify up to 2000x



Types of Microscopes • 2. Electron Microscope -Used to observe VERY small objects: viruses, DNA, parts of cells -Uses beams of electrons rather than light -Much more powerful

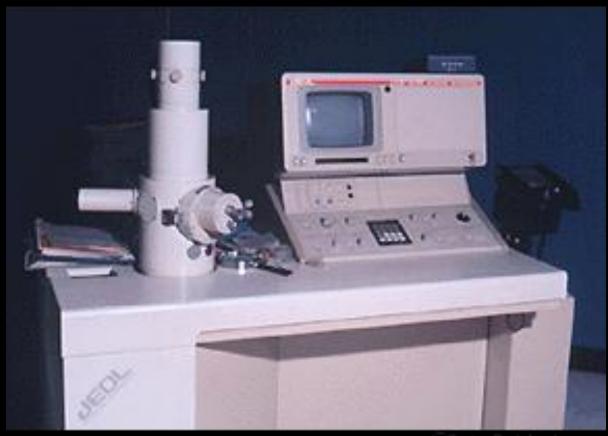
#### Types of Microscopes

 Transmission Electron Microscope (TEM)
–Can magnify up to 250,000x



#### Types of Microscopes

 Scanning Electron Microscope (SEM)
–Can magnify up to 100,000x



ISENICE, Workman