

### Simple Microscope (1 lens)



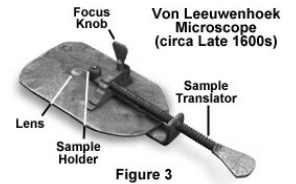
~ 20 magnification

### Antonie Von Leeuwenhoek

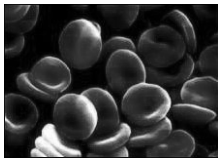


first to see living cells

### Leeuwenhoek's Simple Microscope (1 lens)



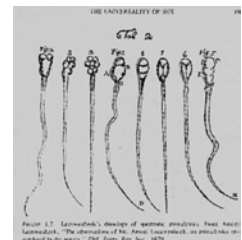
Leeuwenhoek looked at red blood cells



He also looked at bacteria



This is his drawing of sperm.



### Robert Hooke - 1<sup>st</sup> Compound Scope

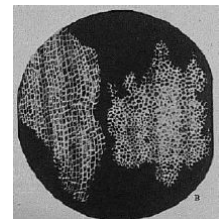


first to see cells (but they were dead)

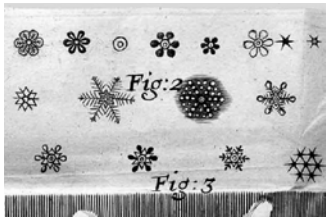
### Hooke's Compound Microscope (2 lenses)



### 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



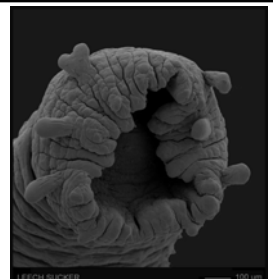
### The latest in transmission electron microscopes.

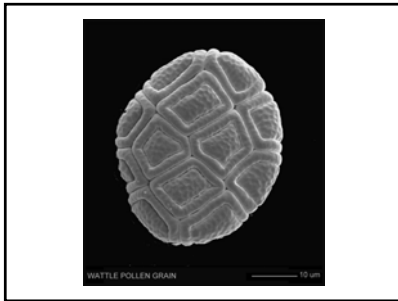
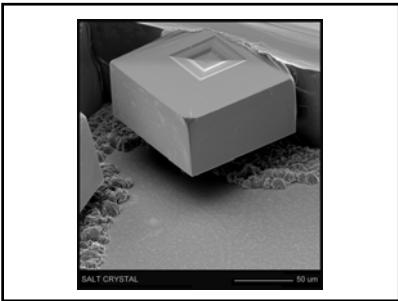
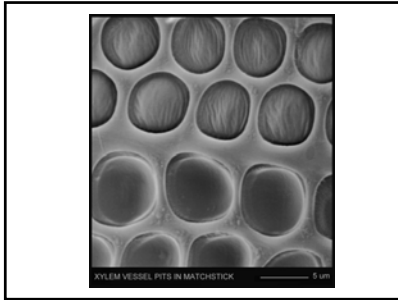
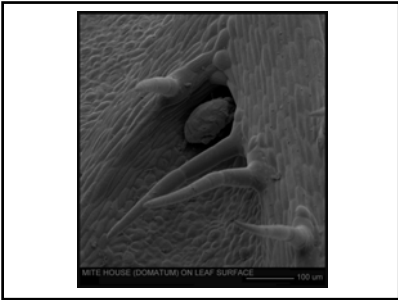


A woman standing inside the microscope.

### Picture Gallery

(using a scanning or tunneling electron microscope)





**The End**