

Cells

A.) Cell Theory - Matthias Schleiden, Theodor Schwann & Rudolf Virchow

1.) All living things are composed of cells

2.) Cells are basic unit of life
(Structure & functions)
(Smallest working unit)

3.) New cells come from pre-existing cells

B.) All living organisms have

1.) Cell membrane - barrier (keeps things in or out)

2.) DNA = genetic information

C.) 2 types of cells

1.) Eukaryotes - have a nucleus

Nucleus - contain DNA \therefore it
therefore
controls cell activities

2.) Prokaryotes - lack a nucleus

Still have DNA but it is
not enclosed in a membrane!

* Prok
no nucleus
smaller
but do all "living"
activities
~~at~~ Bacteria

* Euk
nucleus
larger
organelle (little organ)
uni or multi cellular organism
Protista, Animal, Plant, Fungi