

Cell: The unit of life

A living being have cell that a non living doesn't have

What is a cell?

Unicellular organisms have independent existence and capable of performing the essential functions of life. Anton Von Leewenhoek described living cell & robert hook described first dead cell. Robert brown discovered nucleus.



Cell theory!

In 1838, Mathias Schleiden, a german botanist concluded that plants are composed of many different cells. In 1839, Theodre Schwann, British zoologist discovered plasma memb. in animals, showed cell wall in plants & told that "animals & plants are composed of cells". In 1855, Rudolf Virchow explained *omnis cellula e cellula*.

An overview of cell

Cell contain dense memb. bound structure,nucleus contains chromosomes,cytoplasm is main arena of cellular activities. **Different chemical reactions in cell makes it living.** Prokaryotic cell lacks memb. Bound cell organelles. Ribosomes are non memb. bound & found in chloroplast,mitochondria & rough ER. In animal centrosome(non memb. bound) help in cell division. **Sizes of different cells:-** Mycoplasma-0.3um , RBC- 7um , bacteria- 3-5um , nerve cell- 1m (longest)



Prokaryotic cells

(Bact.,BGA,mycoplasma,PPLO)

They are smaller & multiply faster than eukaryotes. Types of bacteria are bacillus,cocci,spiral,vibrio. All have cell wall Except mycoplasma. They have naked genetic material,have genomic DNA (single chromosome/circular DNA),have PLASMID(small circular DNA outside genome) which gives resistance to antibiotics. They have inclusion bodies. And also have MESOSOME (infoldings of plasma membrane)

Cell envelope & it's modification

It is present in most of bacterial cells. It includes glycocalyx(outer),cell wall(mid) and cell memb.(inner). Cell envelope acts as protective unit. Glycocalyx could be loose sheath called slime layer or maybe tough as capsule. Cell wall prevent from bursting or collapsing. **BACTERIA CAN BE:-** gram positive or gram negative on basis of different composition in cell envelope. In some prokaryotes,chromatophores(membranous extensions) are present which store pigments. Bacterial flagellum = filament + hook + basal body. **Pili**→ elongated tubular structure made up of special protein. **Fimbriae**→ bristle like fibres help to get attached to substratum.

MESOSOME

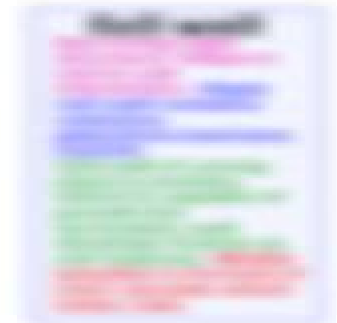
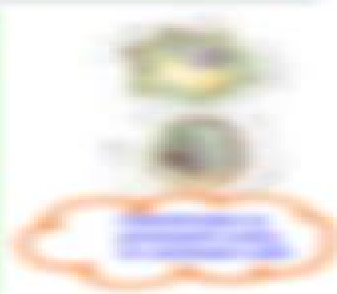
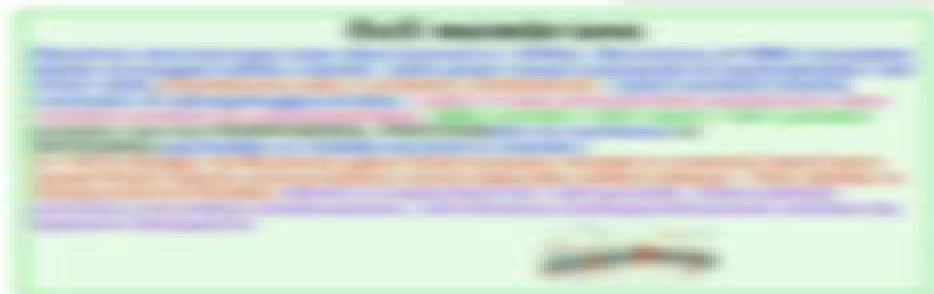
- * may be in the form of vesicles, tubules,lamellae.
- * cell wall formation

Ribosomes & inclusion bodies

In prokaryotes, ribosomes are associated with the plasma membrane(15nm x 20nm). It have 2 subunits 50s & 30s i.e. total 70s ribosomes. Several ribosomes attach to single mRNA to form polyribosome. Or polysome. These ribosomes translate mRNA to protein. **INCLUSION BODIES-** Several food material is stored in the form of it in cytoplasm. They are not bound with

Eukaryotic cells

(Fungi,plants,animals)



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