

what is cell

all organisms are made up of cells that are the structural, functional and fundamental unit of life

Robert Hooke in 1665 discovered the cell from dead cork

types of cells

cells are of two types

prokaryotic cells: they are primitive cells that lack a nucleus

eukaryotic cells: they are modified cells that have a nucleus

components of prokaryotes

plasma membrane is made up of a lipid bilayer

mesosomes are infoldings in the cell membrane that help in respiration, DNA replication and metabolic activities

nucleoid is loose genetic material that is present in the cytoplasm

ribosomes are protein synthetic units that are of 70S type in prokaryotic cells

glycocalyx is a protective capsule around cells

polysomes are many ribosomes together on mRNA

pili are reproductive units of cells

flagella are for locomotion

cell wall of prokaryotes

it is made of peptidoglycan that is a heteropolysaccharide

cell theory

all cells come from pre-existing cells

omnis cellula e cellula

neurons, heart cells, muscle cells do not divide

RBCs do not have a nucleus

viruses are not considered living

fluid mosaic model

referred to as icebergs in sea

given by Singer and Nicolson in 1972

made of lipids and proteins

proteins are peripheral that are partially embedded in the plasma membrane and integral that are trans membrane proteins

lipids are phospholipids that are made of head and tail. The head is hydrophilic and the tail is hydrophobic.

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By [nikunj tyagi](https://www.cheatography.com/159463/cs/33616/)

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