

Aturan Main

- Setiap kelompok yang menjawab BENAR/ TEPAT atau menyelesaikan pekerjaannya terlebih dahulu berhak mendapatkan 5 Bintang (4 Bintang – urutan kedua dan 3 Bintang - urutan ketiga dan 1 Bintang – urutan keempat dst)
- Jumlah bintang akan diakumulasi
- Kelompok yang bintangnya paling banyak akan diberi Reward
- Kelompok yang bintangnya paling sedikit akan diberi *Punishment*
- Semua anggota kelompok harus ikut aktif

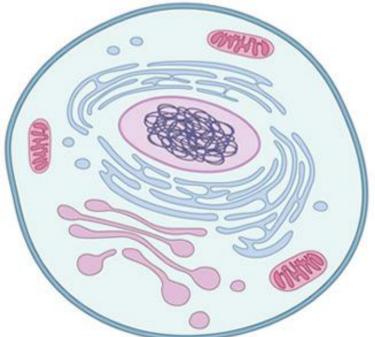
Permainan 1

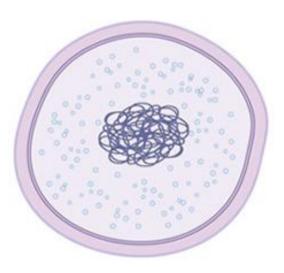
- Buatlah Sel Prokariotik dan Sel Eukariotik sederhana dengan bahan yang ada
- Waktu

15 Menit

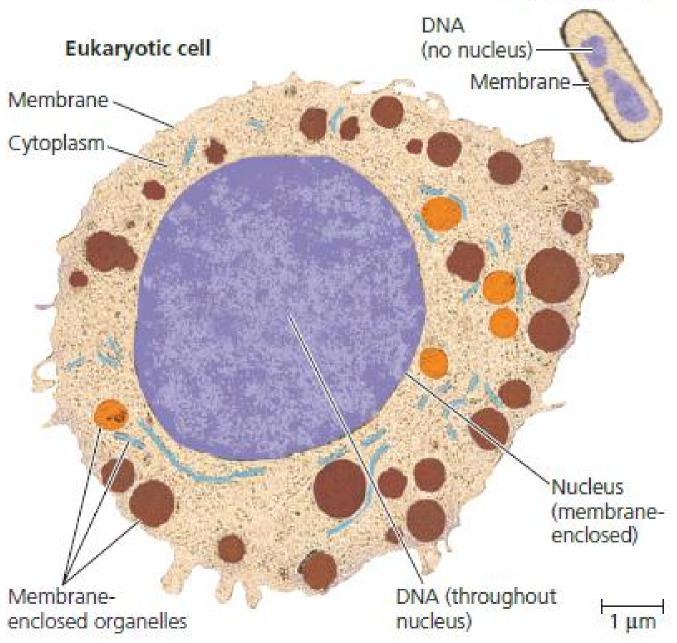
Kelompok yang selesai silahkan menulis bintangnya di papan

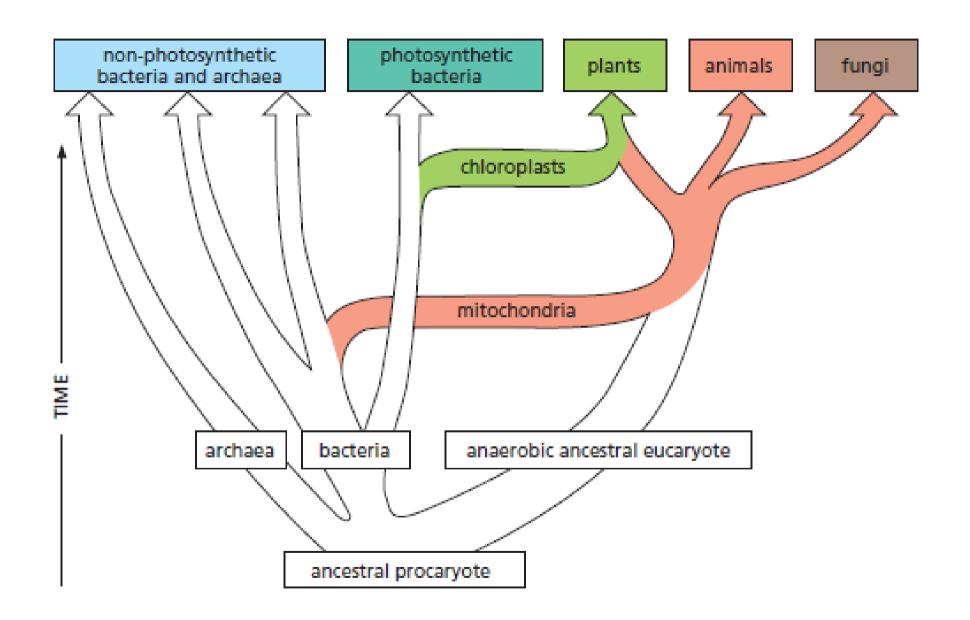






Prokaryotic cell

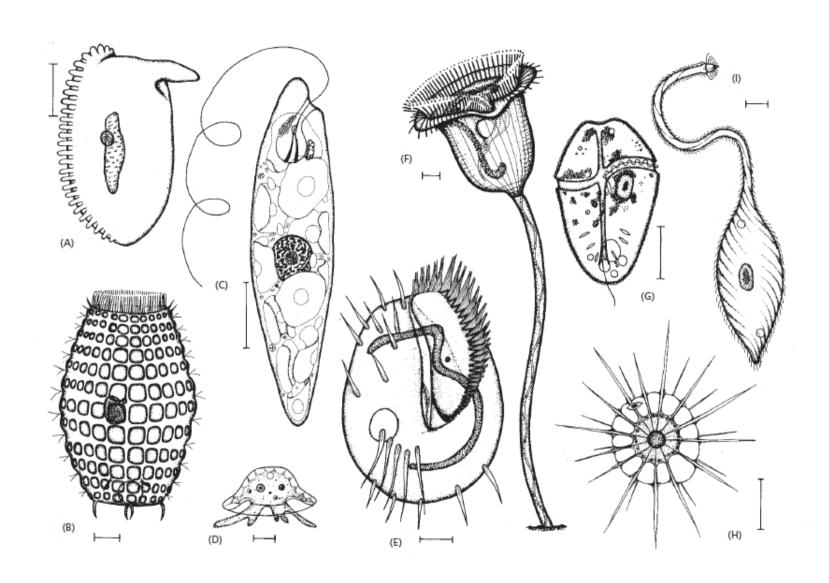




	DOMAIN		
CHARACTERISTIC	Bacteria	Archaea	Eukarya
Nuclear envelope	Absent	Absent	Present
Membrane- enclosed organelles	Absent	Absent	Present
Peptidoglycan in cell wall	Present	Absent	Absent
Membrane lipids	Unbranched hydro- carbons	Some branched hydrocarbons	Unbranched hydro- carbons
RNA polymerase	One kind	Several kinds	Several kinds
Initiator amino acid for protein synthesis	Formyl- methionine	Methionine	Methionine
Introns in genes	Very rare	Present in some genes	Present in many genes
Response to the antibiotics strep- tomycin and chloramphenicol	Growth usu- ally inhibited	Growth not inhibited	Growth not inhibited
Histones associ- ated with DNA	Absent	Present in some species	Present
Circular chromosome	Present	Present	Absent
Growth at tem- peratures > 100°C	No	Some species	No

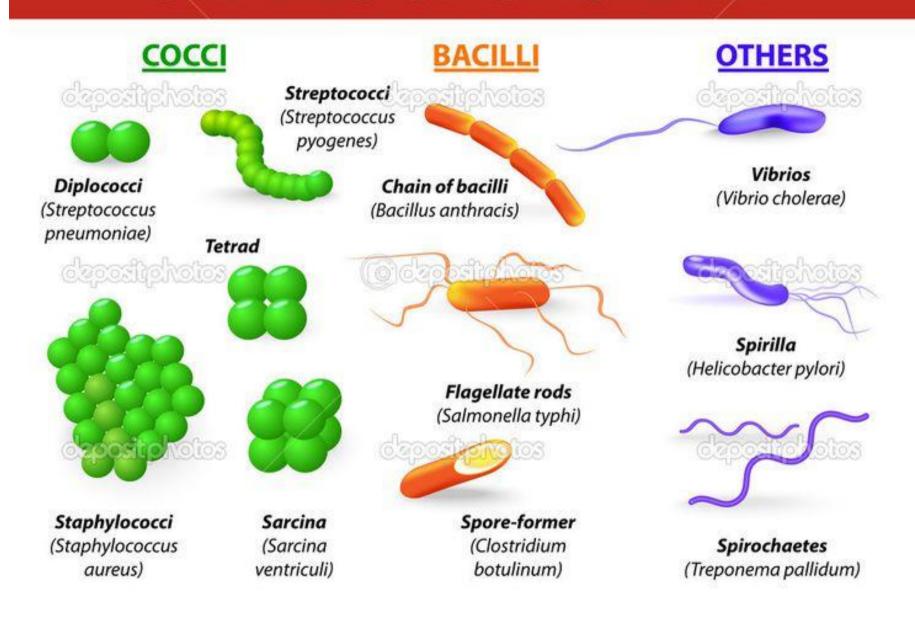
Perbedaan mendasar Prokariot dan Eukariot

Perbedaan mendasar Bakteri dan Archea

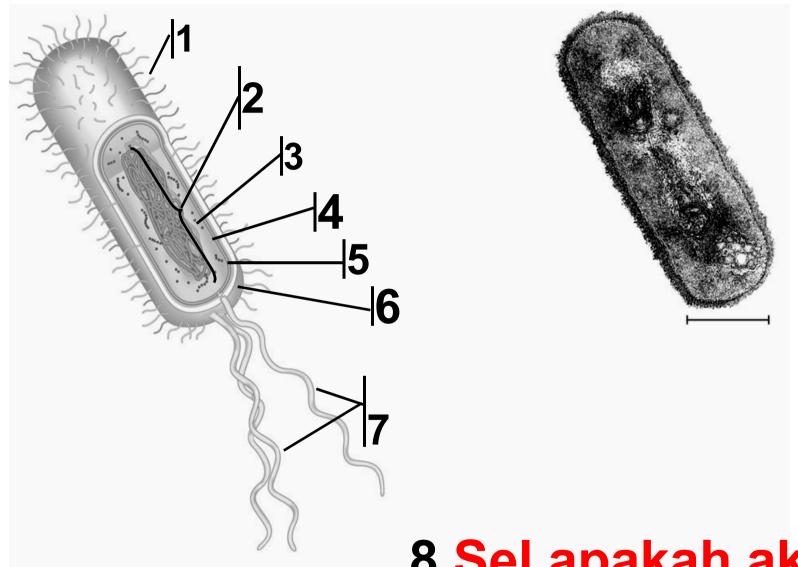


BENTUK PROTOZOA

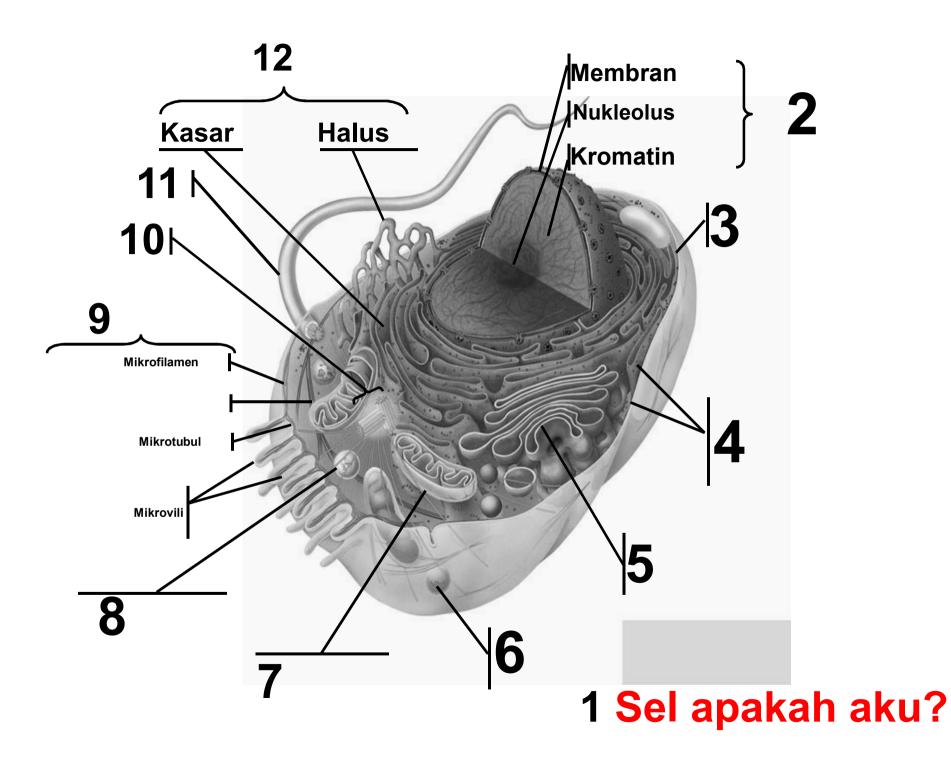
SHAPES OF BACTERIA

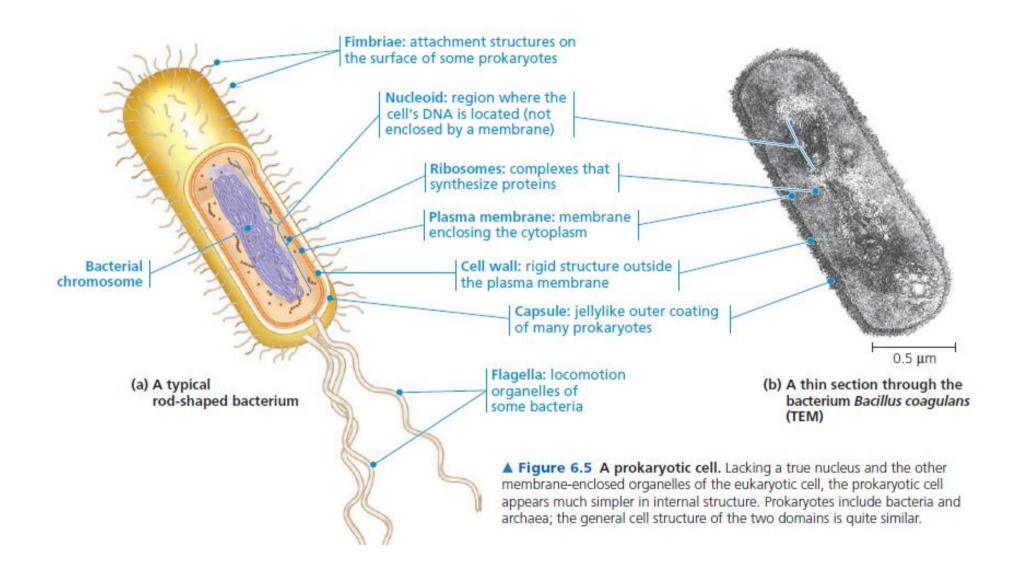


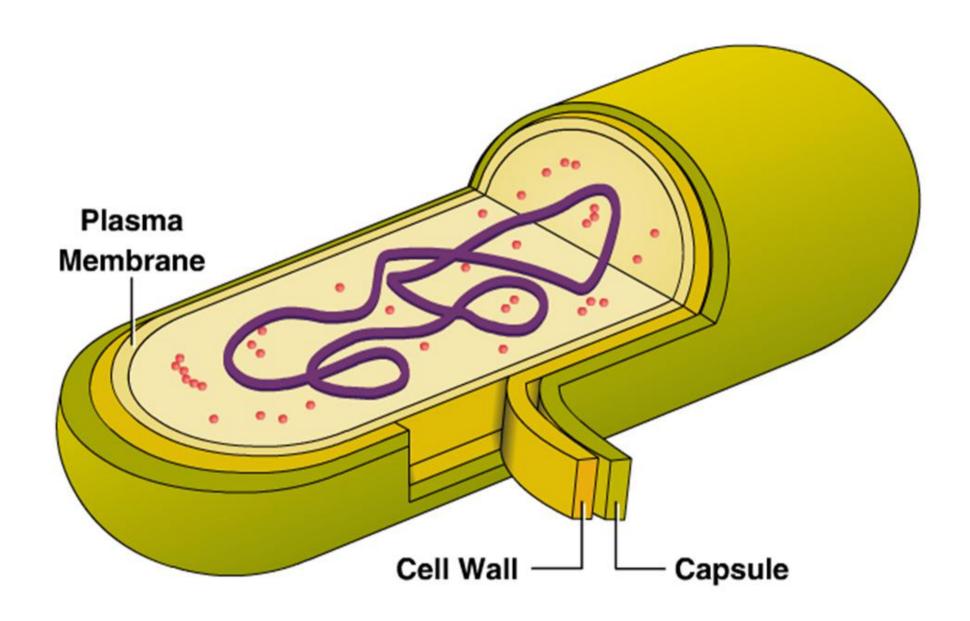
Permainan 2



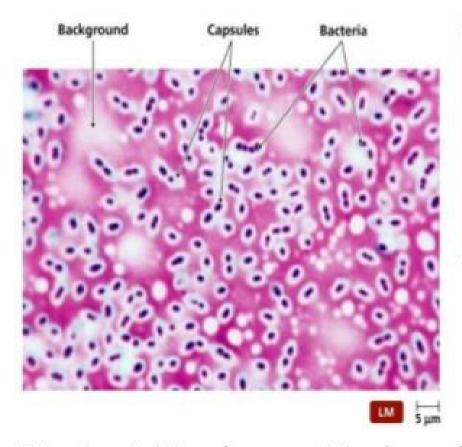
8 Sel apakah aku?







BACTERIAL CAPSULE

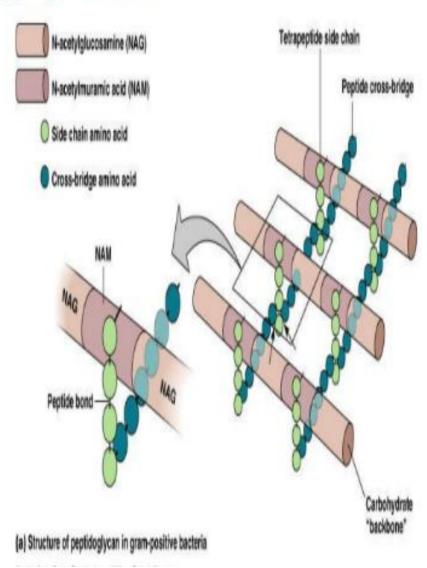


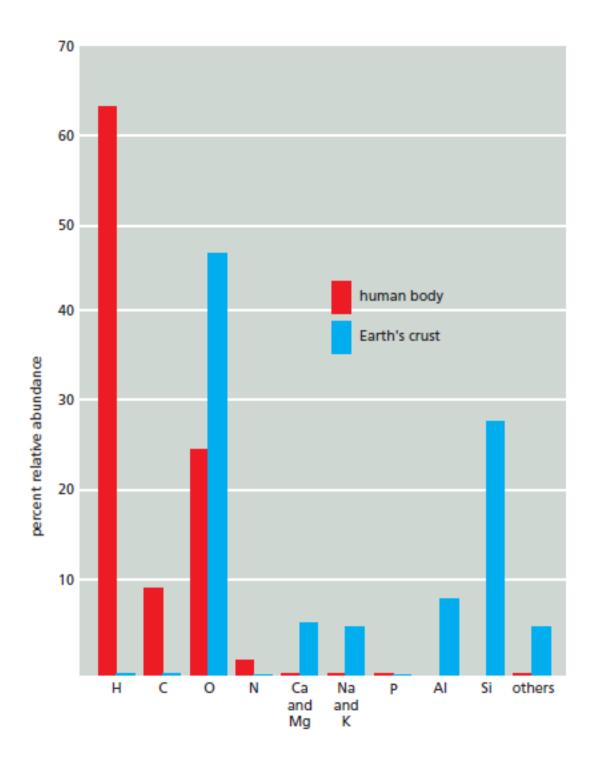
A gelatinous layer
Polysaccharide in nature
Antiphagocytic
Antigenic
Helps bacterial adherence
Aids lab diagnosis

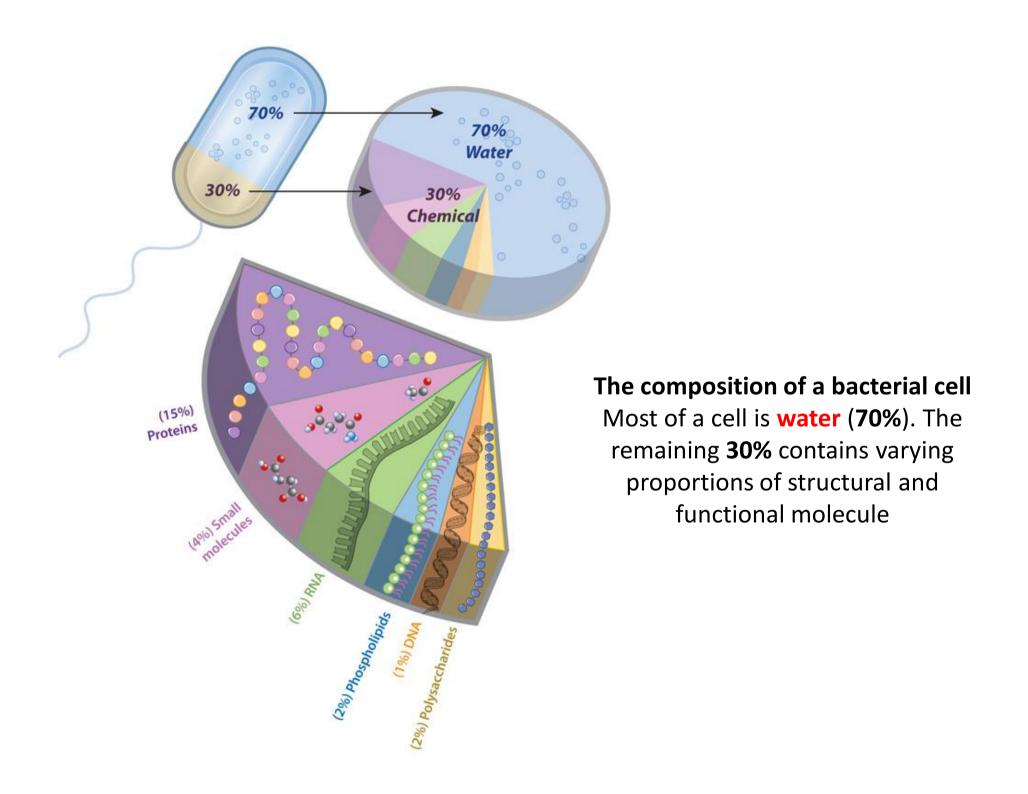
Negative staining shows unstained capsule

Peptidoglycan

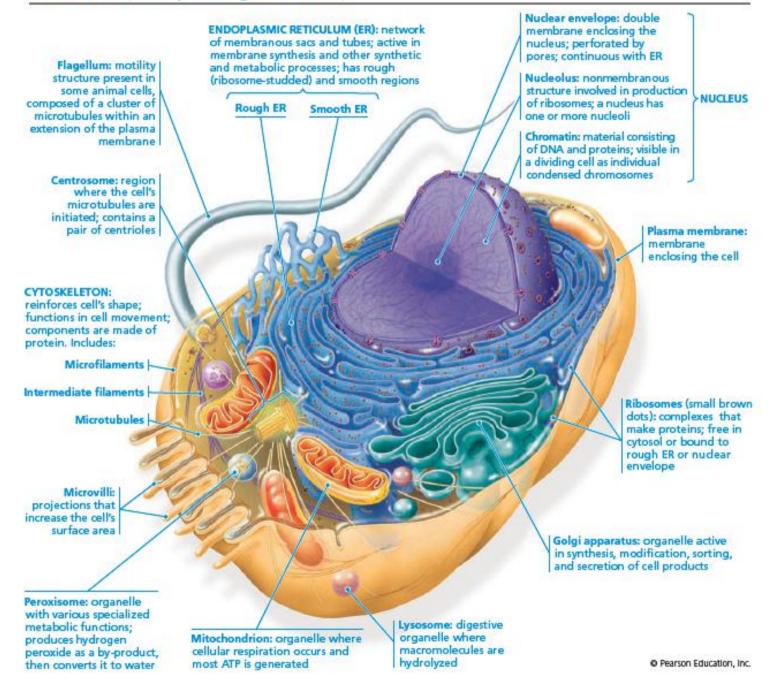
Also known as murein, is a polymer consisting of sugars and amino acids that forms a mesh-like layer outside the plasma membrane of bacteria forming the cell wall. Which consist of three parts back bone, Nacetylglucosamine and Nacetylmuramic acid in alternating chains interconnected by tri, tetra or penta pedtide chains.



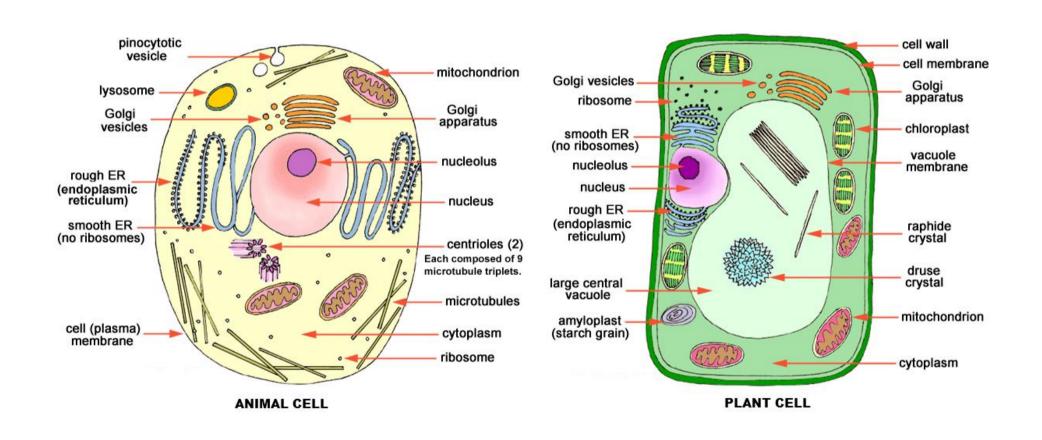


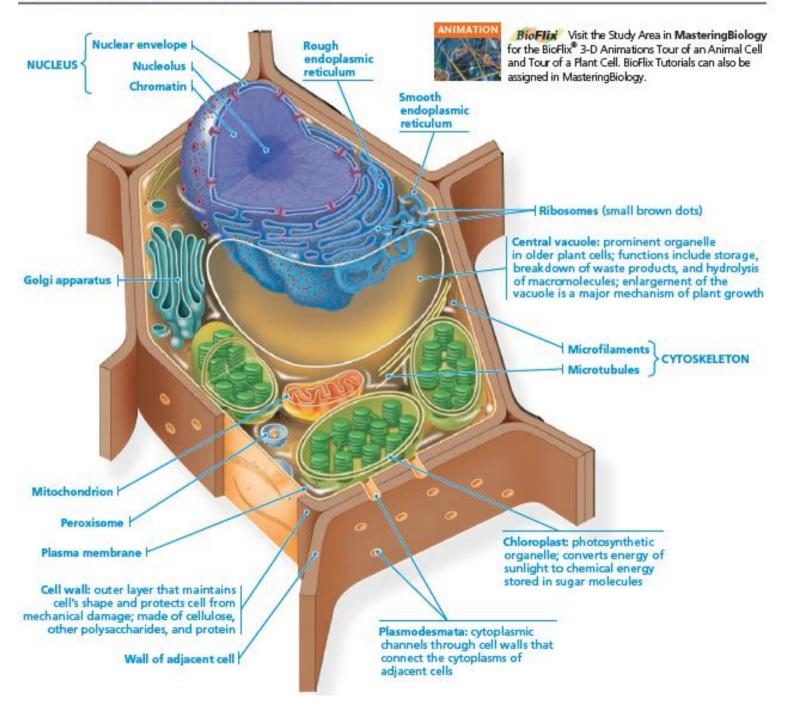


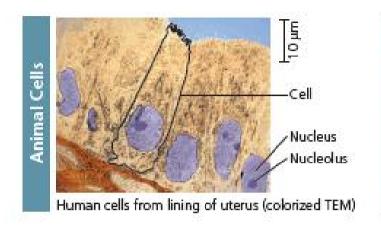
Animal Cell (cutaway view of generalized cell)

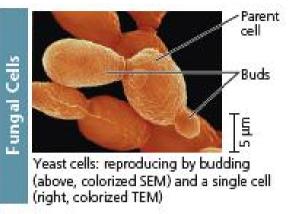


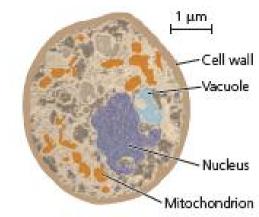
Sel Hewan VS Sel Tumbuhan

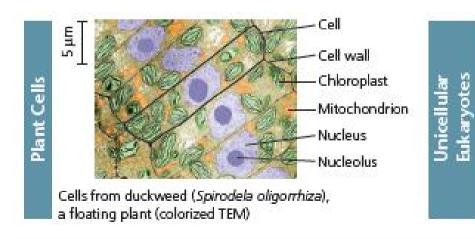


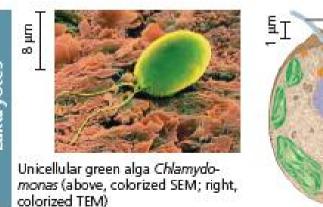


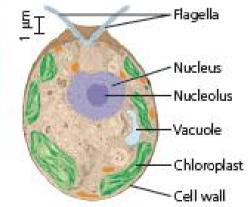












Structure	Plant Cell	Animal Cell
Cell membrane	yes	yes
Cell wall	yes	no
Mitochondrion	yes	yes
Chloroplast	yes	no
Nucleus	yes	yes
Vacuole	yes	no (small and tentative)
Lysosome	no	yes

Q: Apakah sel tumbuhan punya sentrosom??

