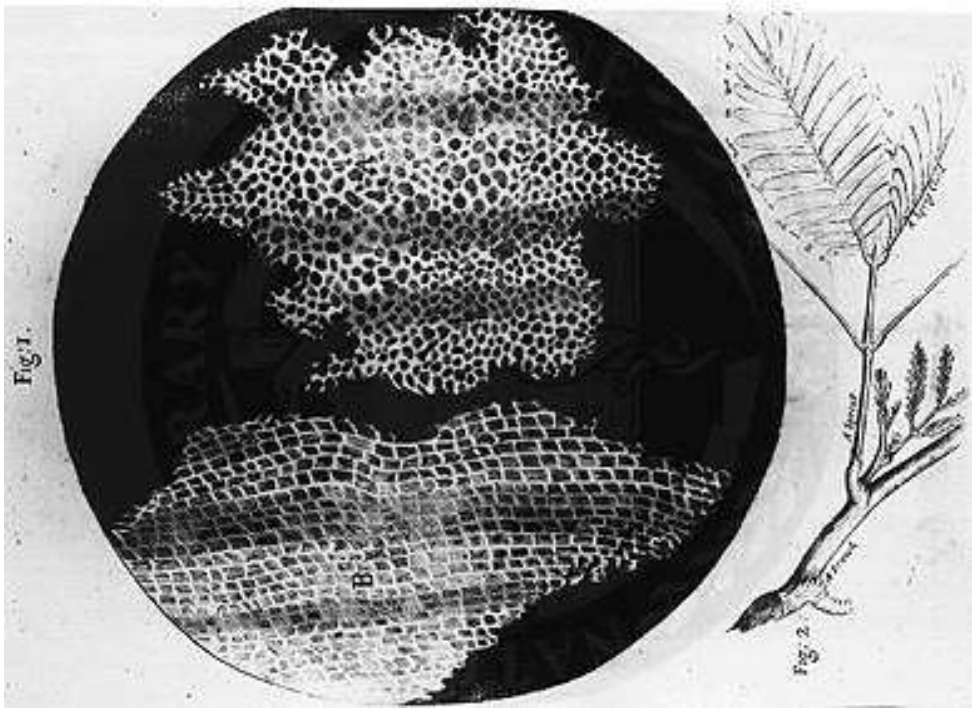
LA CÉLULA

Presentación organizada por
José Antonio Pascual Trillo

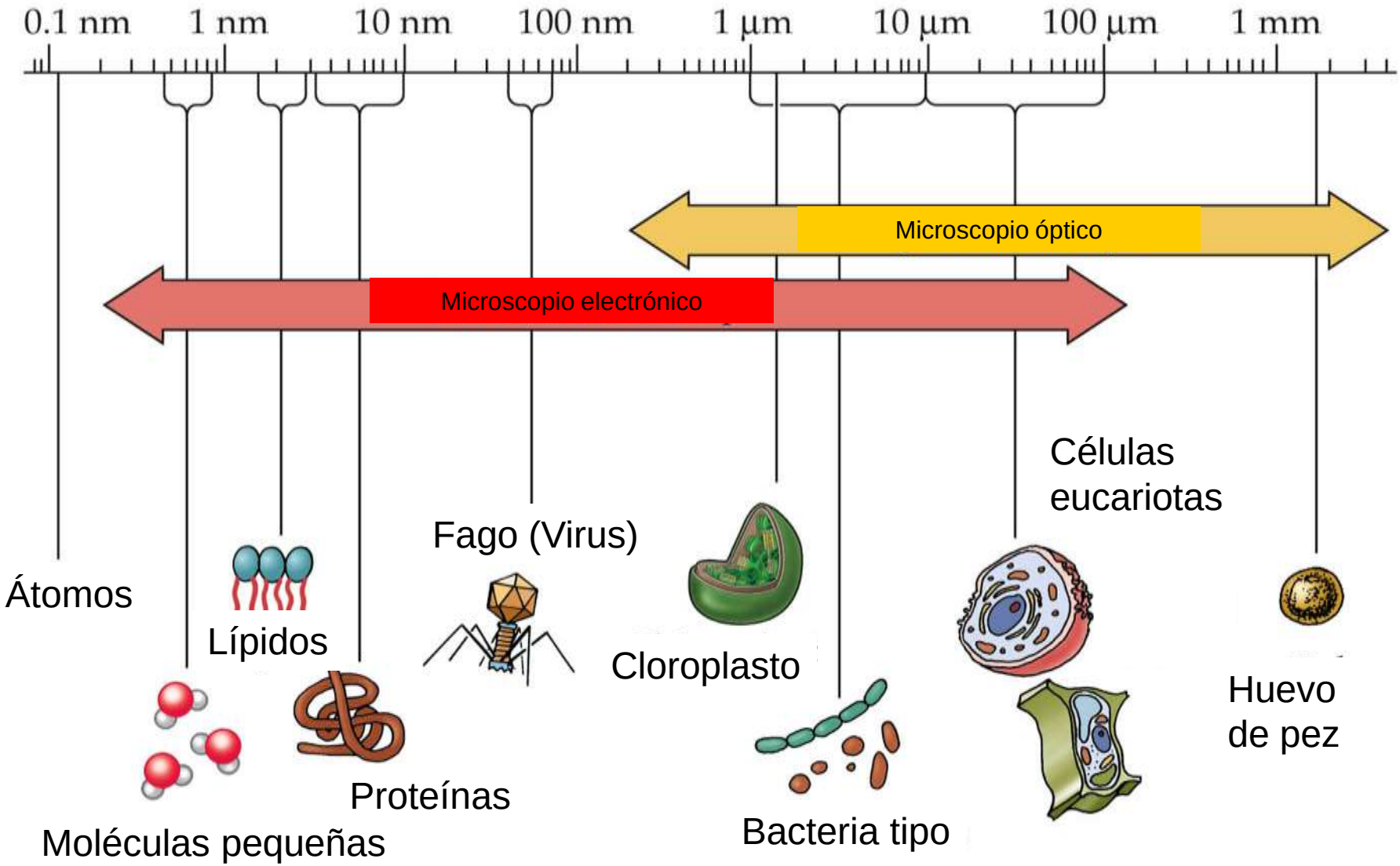
La célula

1667

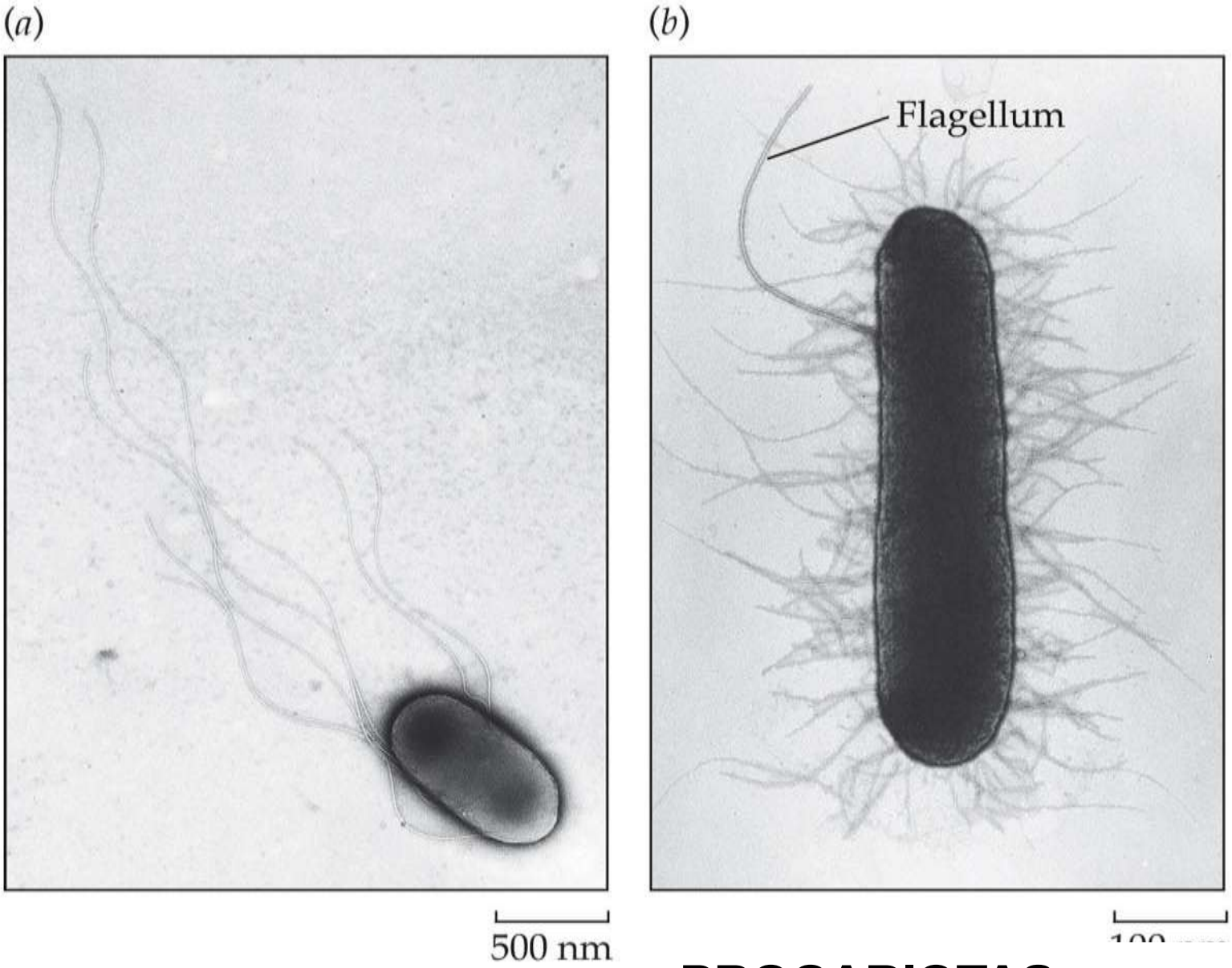


Hooke

Dibujo de pieza de corcho con “celdas” (células) al microscopio

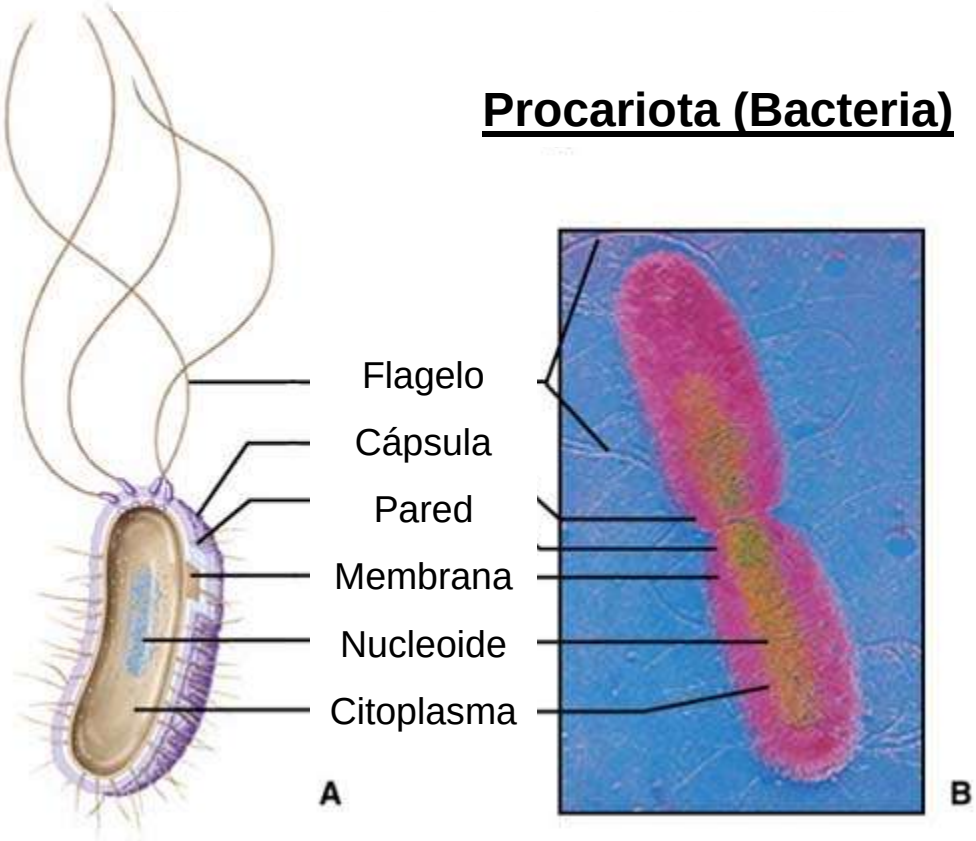


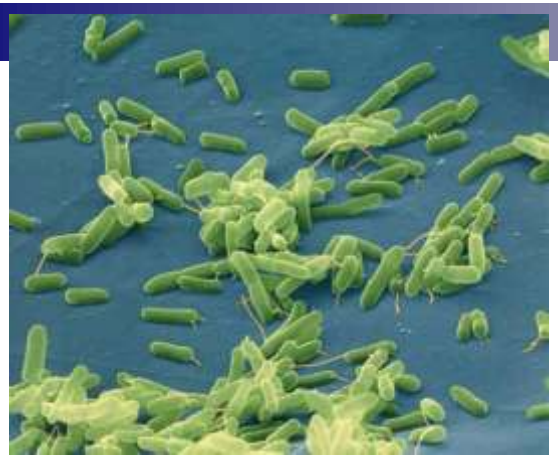
Dimensiones y relación con las técnicas de microscopía



PROCARIOTAS

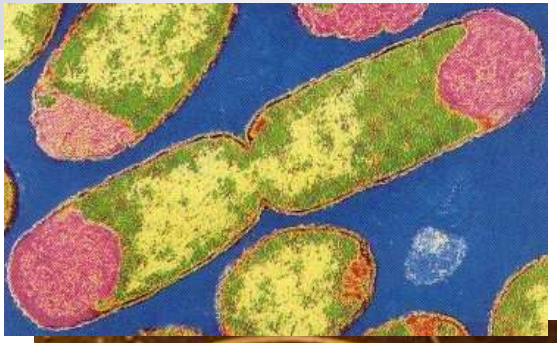
Procariota (Bacteria)

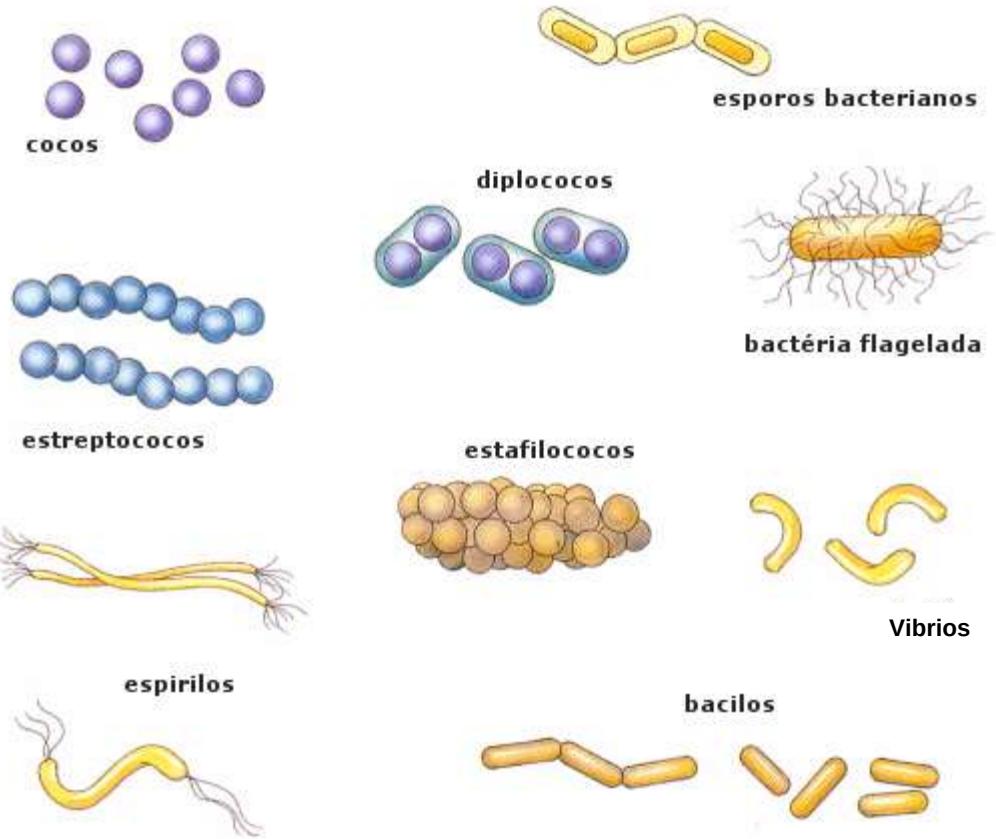




Tipos de bacterias

(formas)





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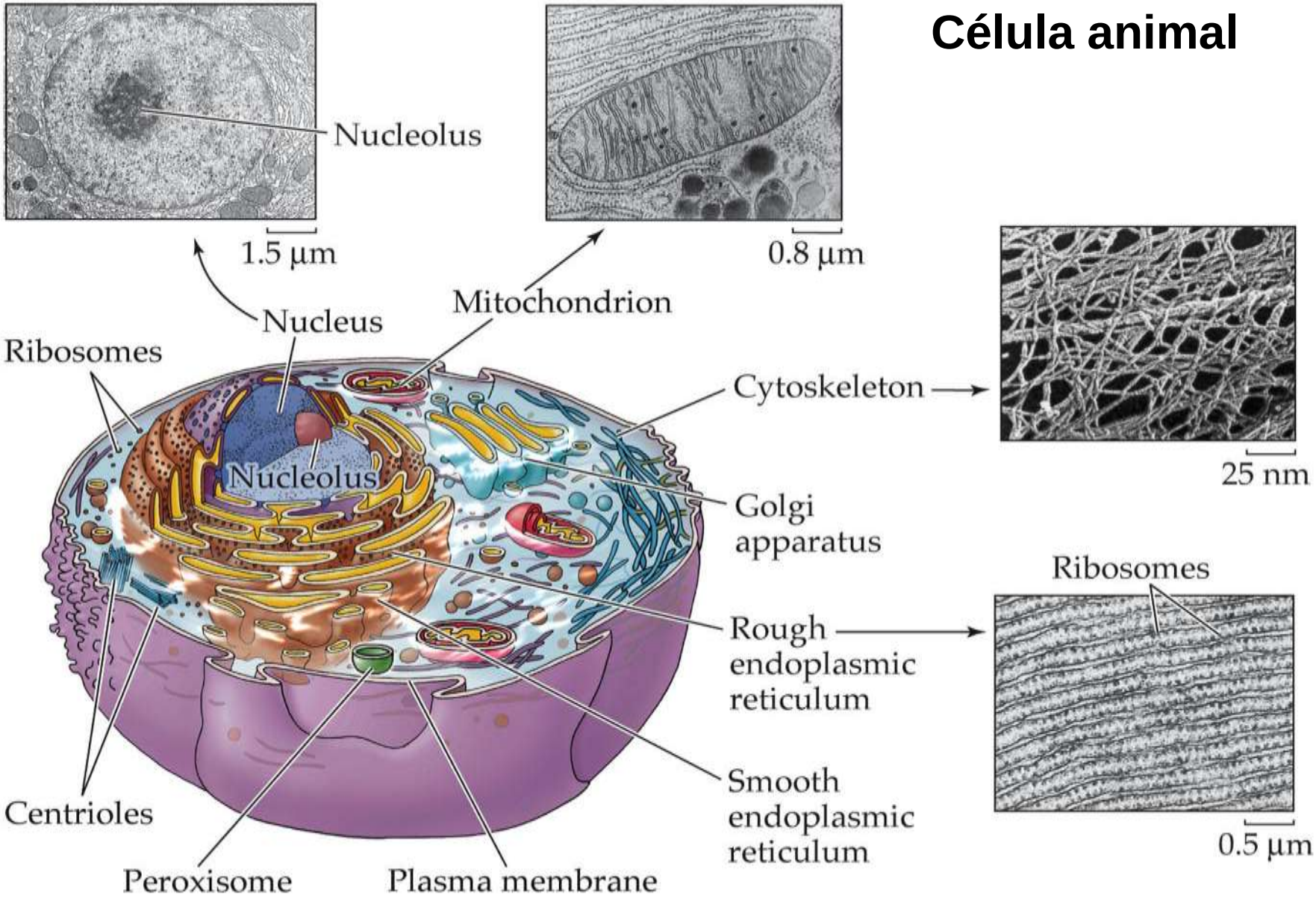
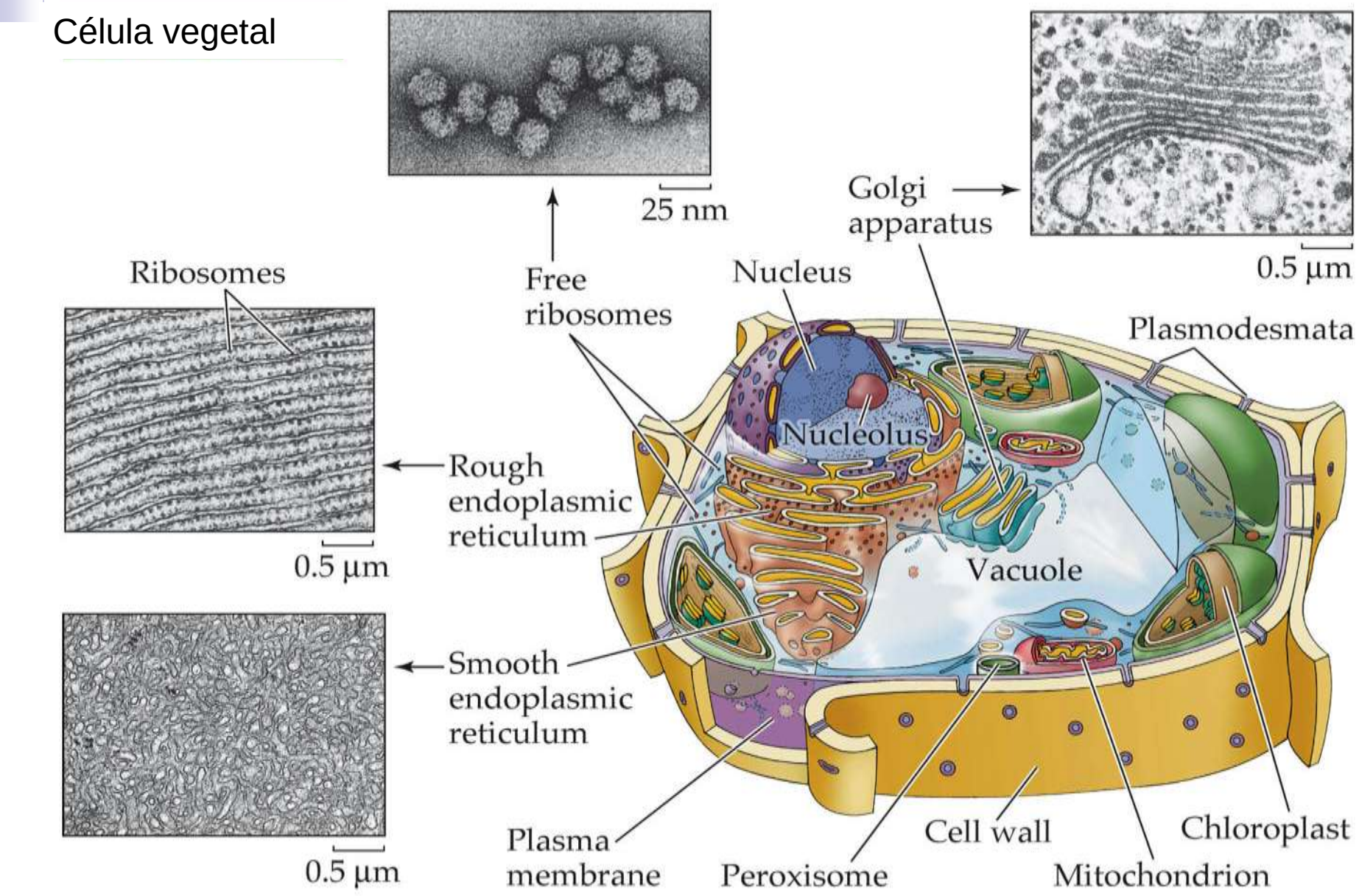
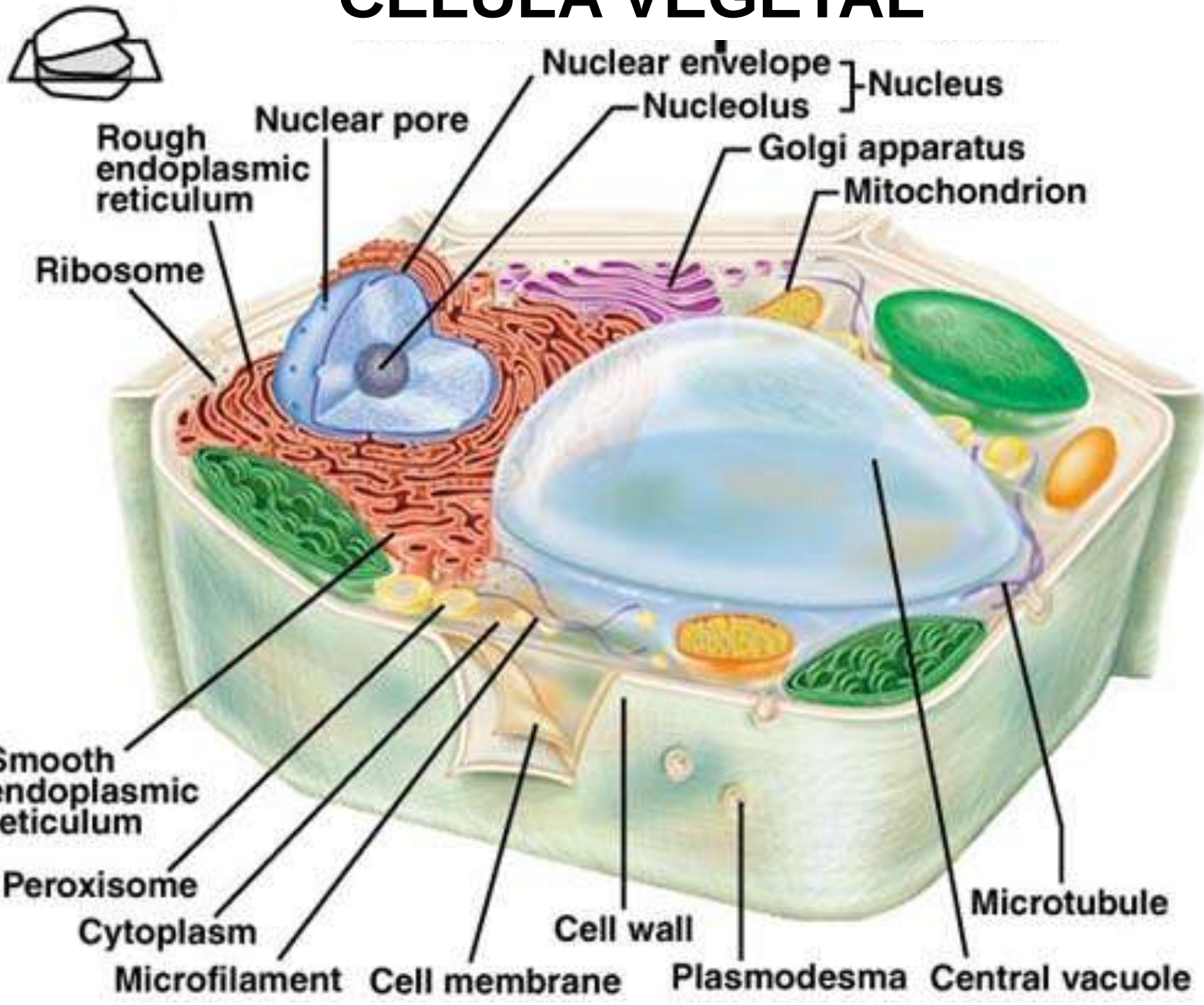
Célula animal

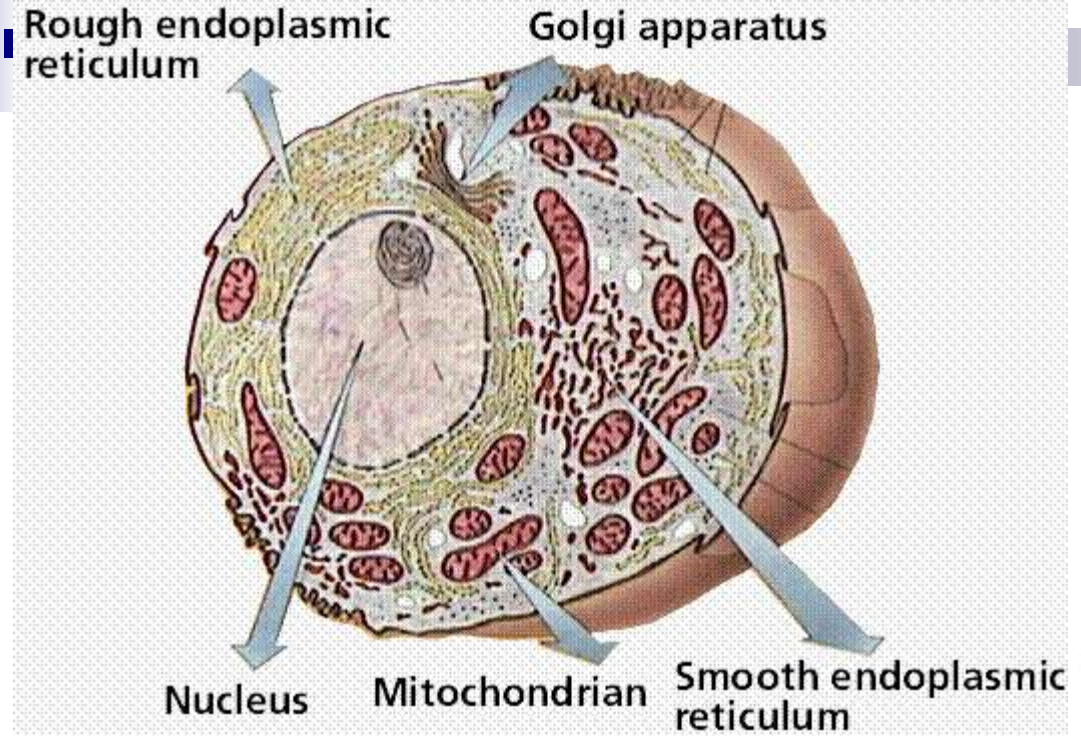


Célula vegetal

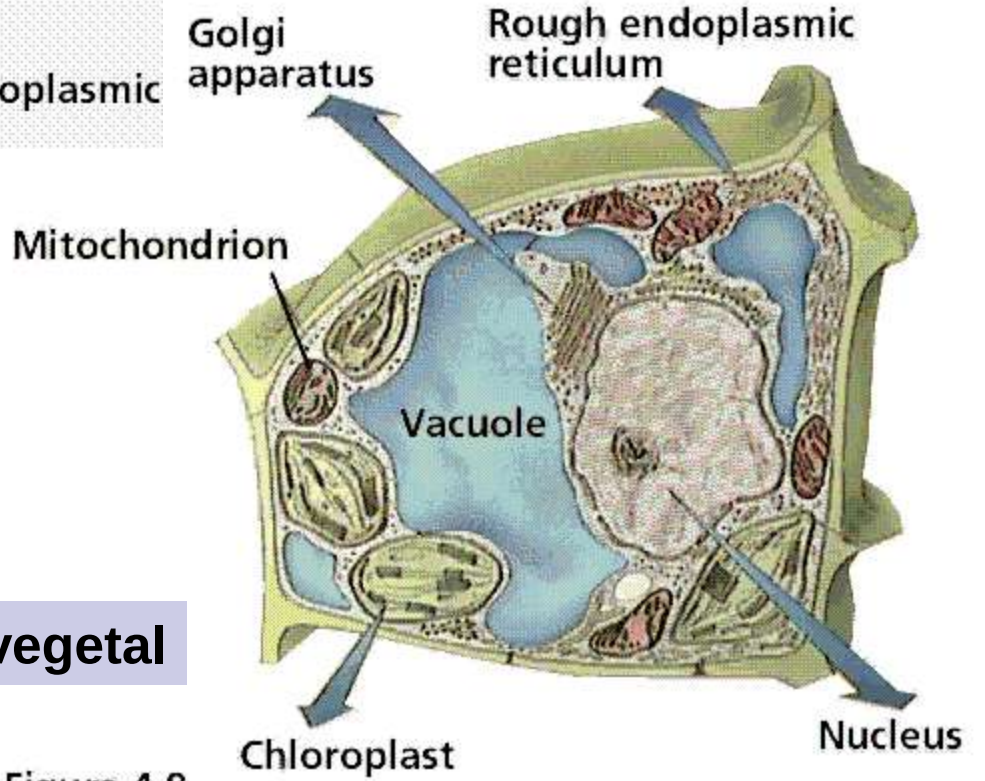


CÉLULA VEGETAL



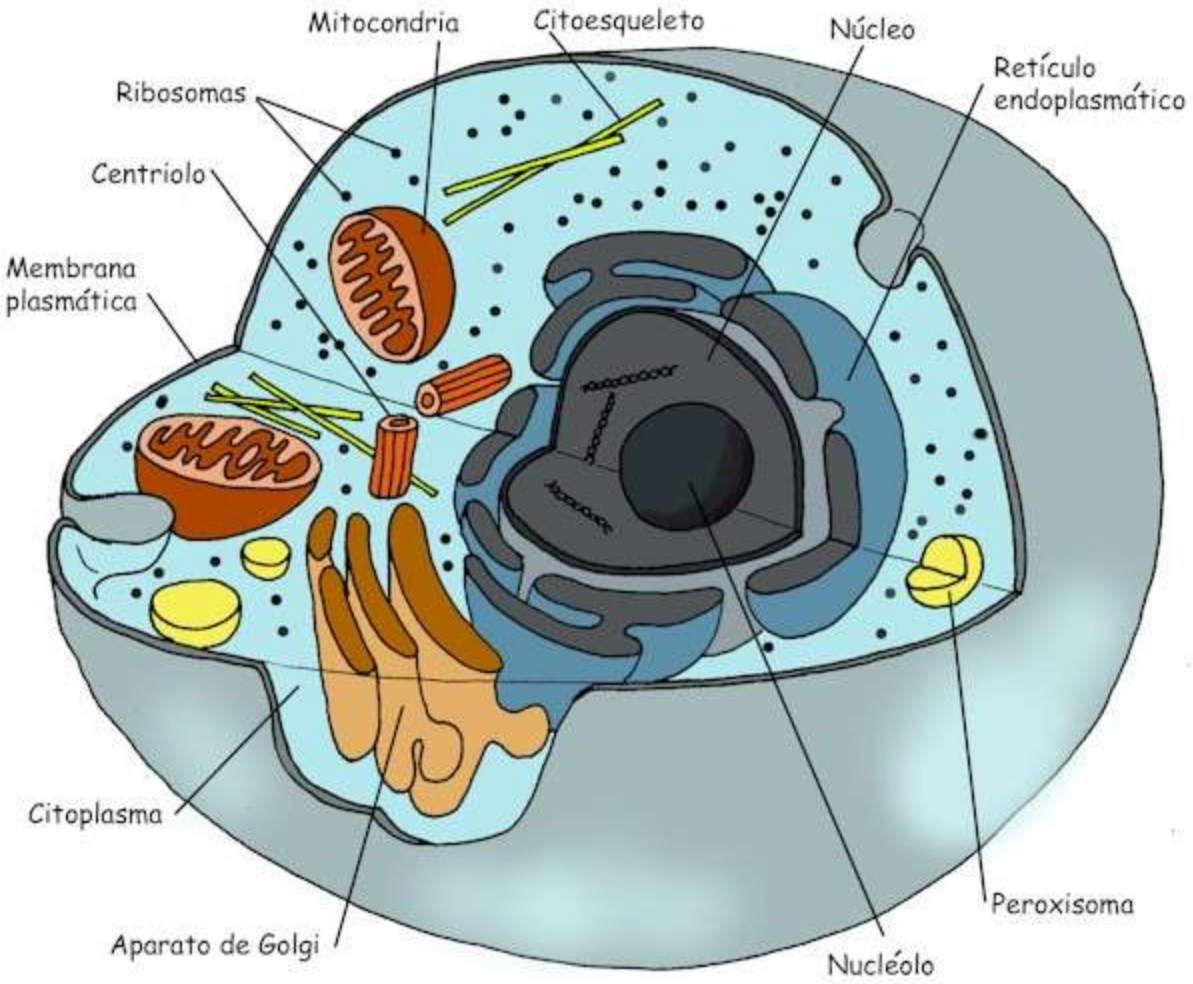


Célula animal



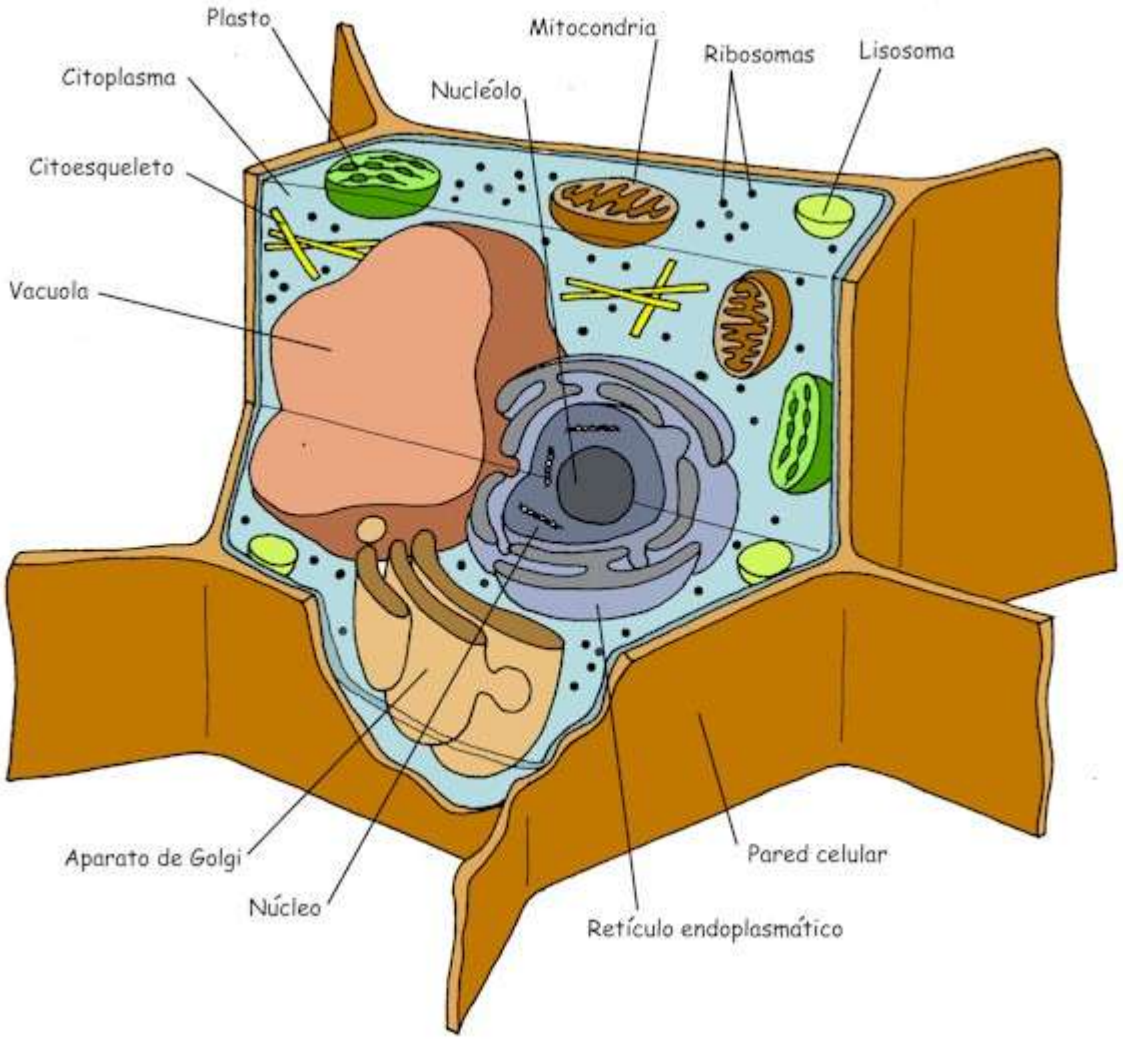
Célula vegetal

Figure 4.8

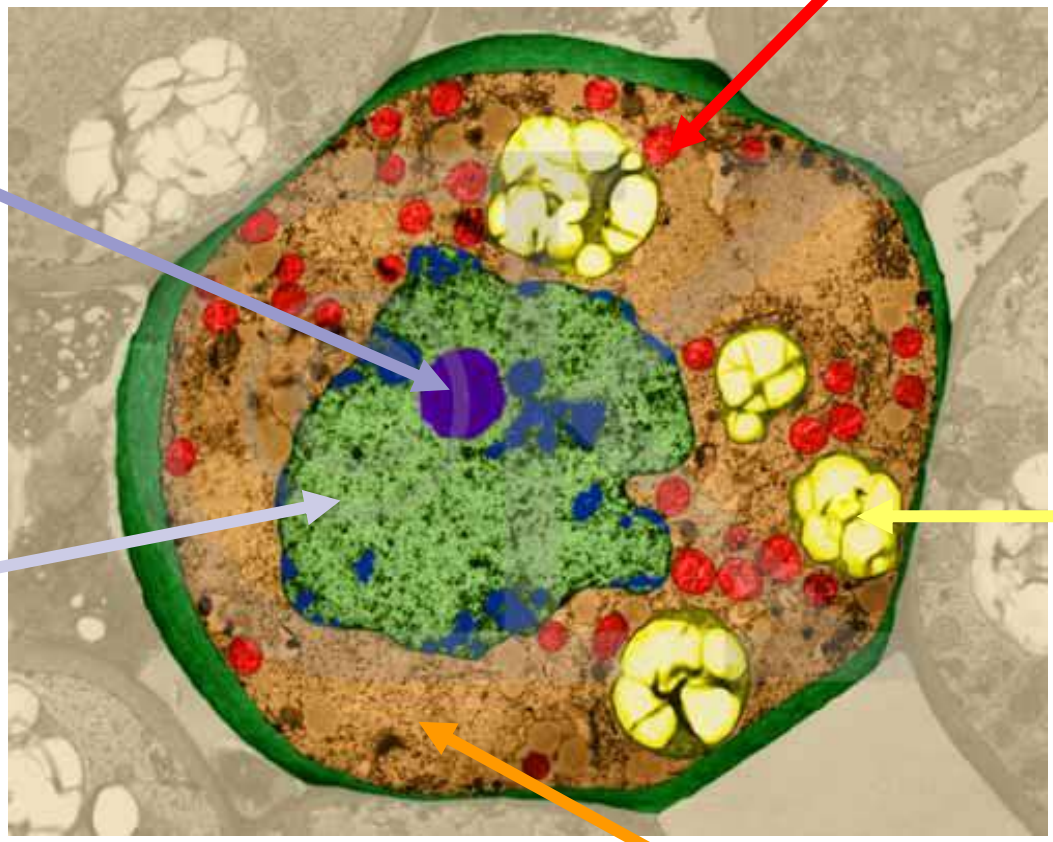


Célula animal

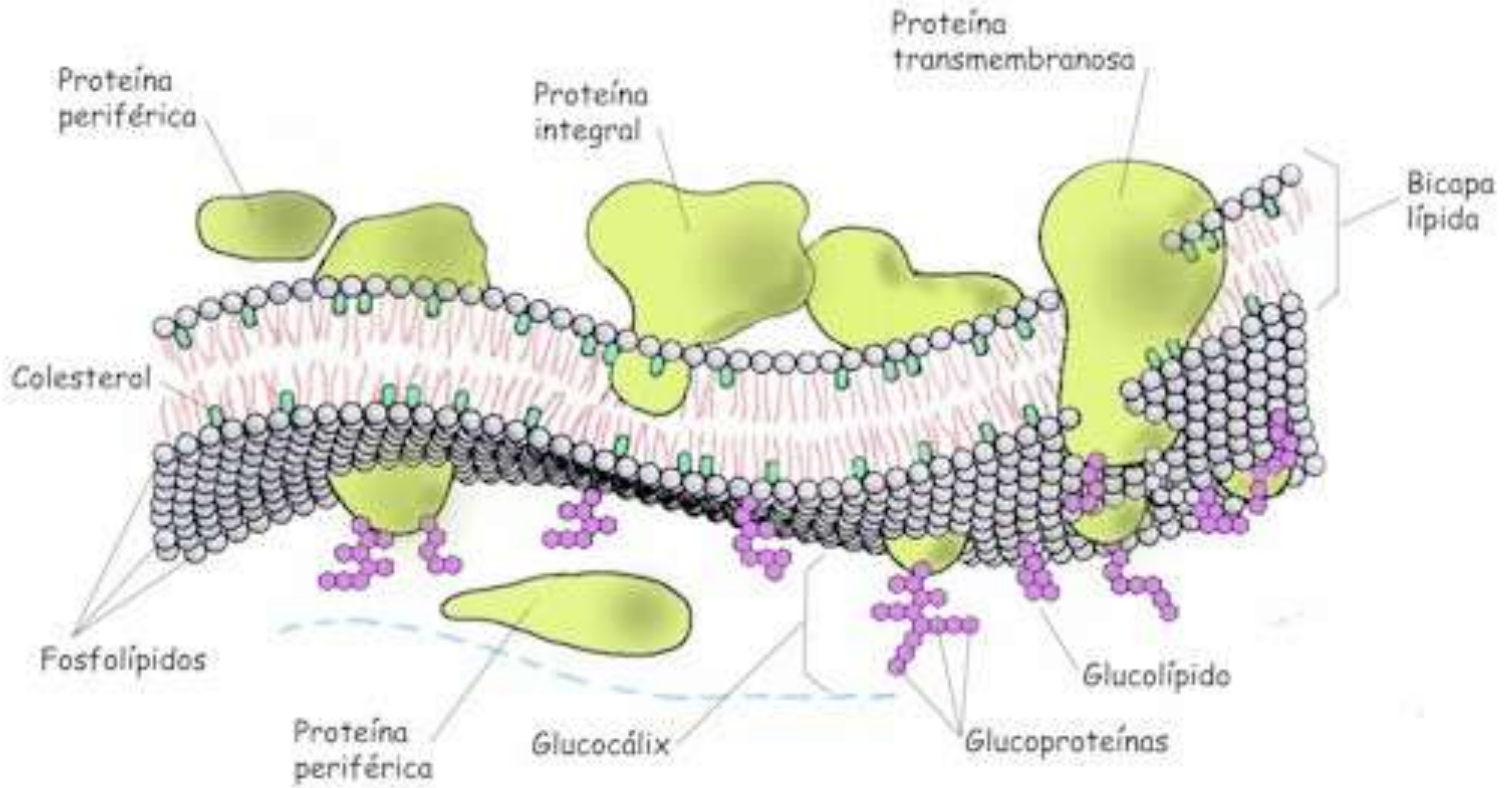
Célula vegetal

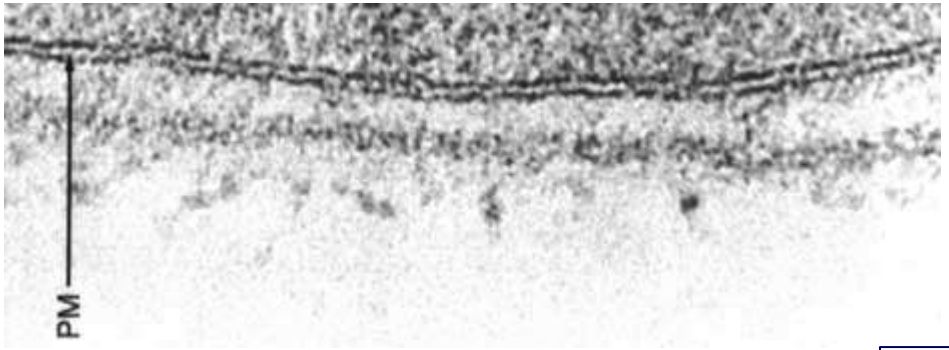


Célula vegetal



Membrana plasmática





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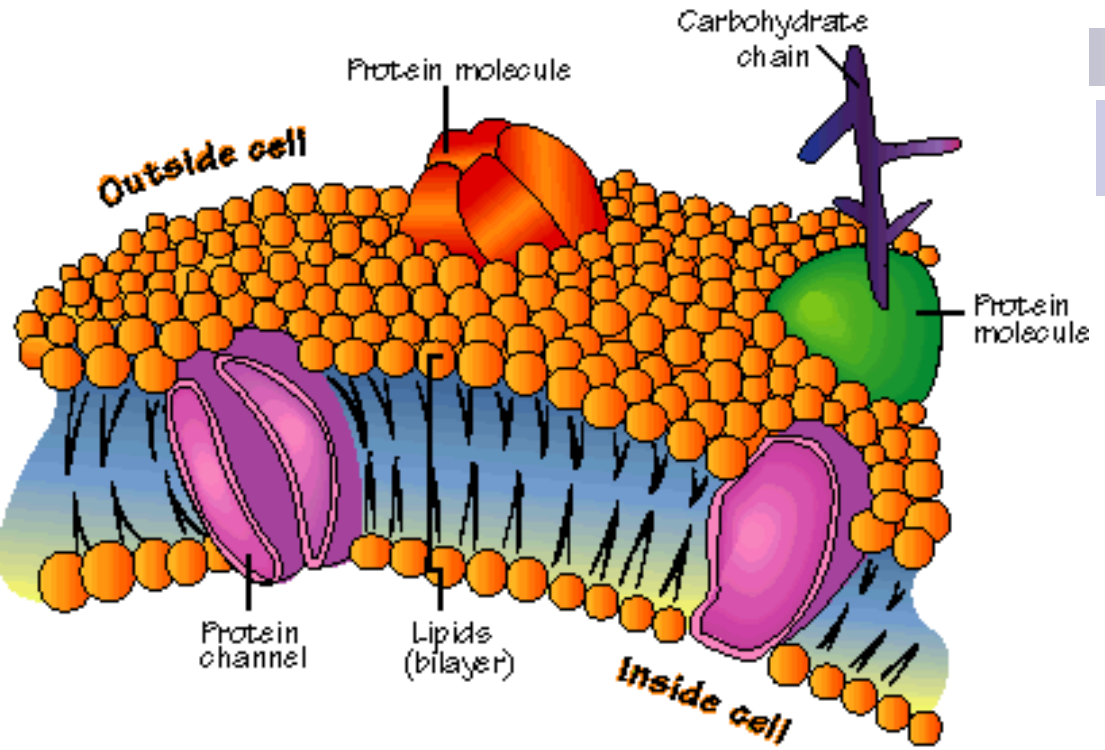

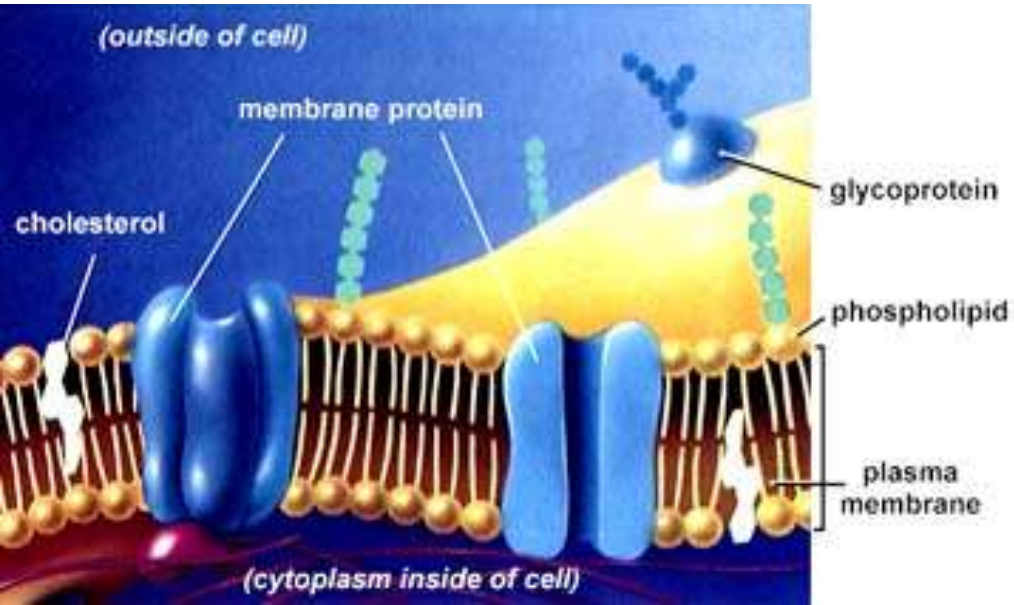

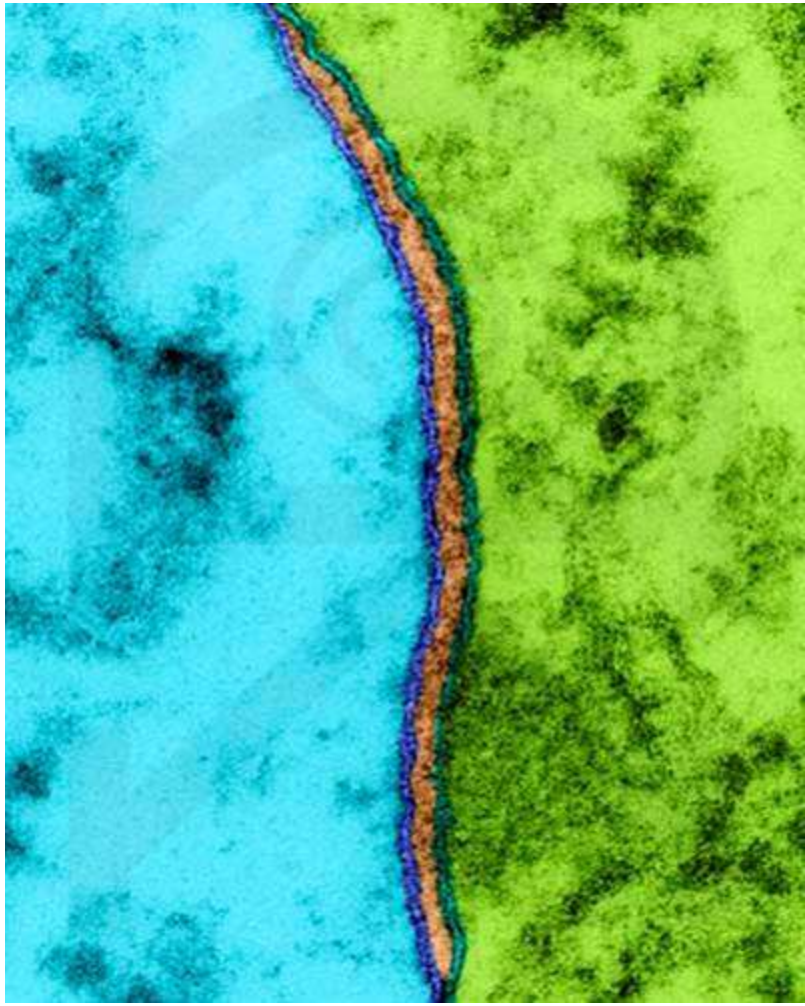

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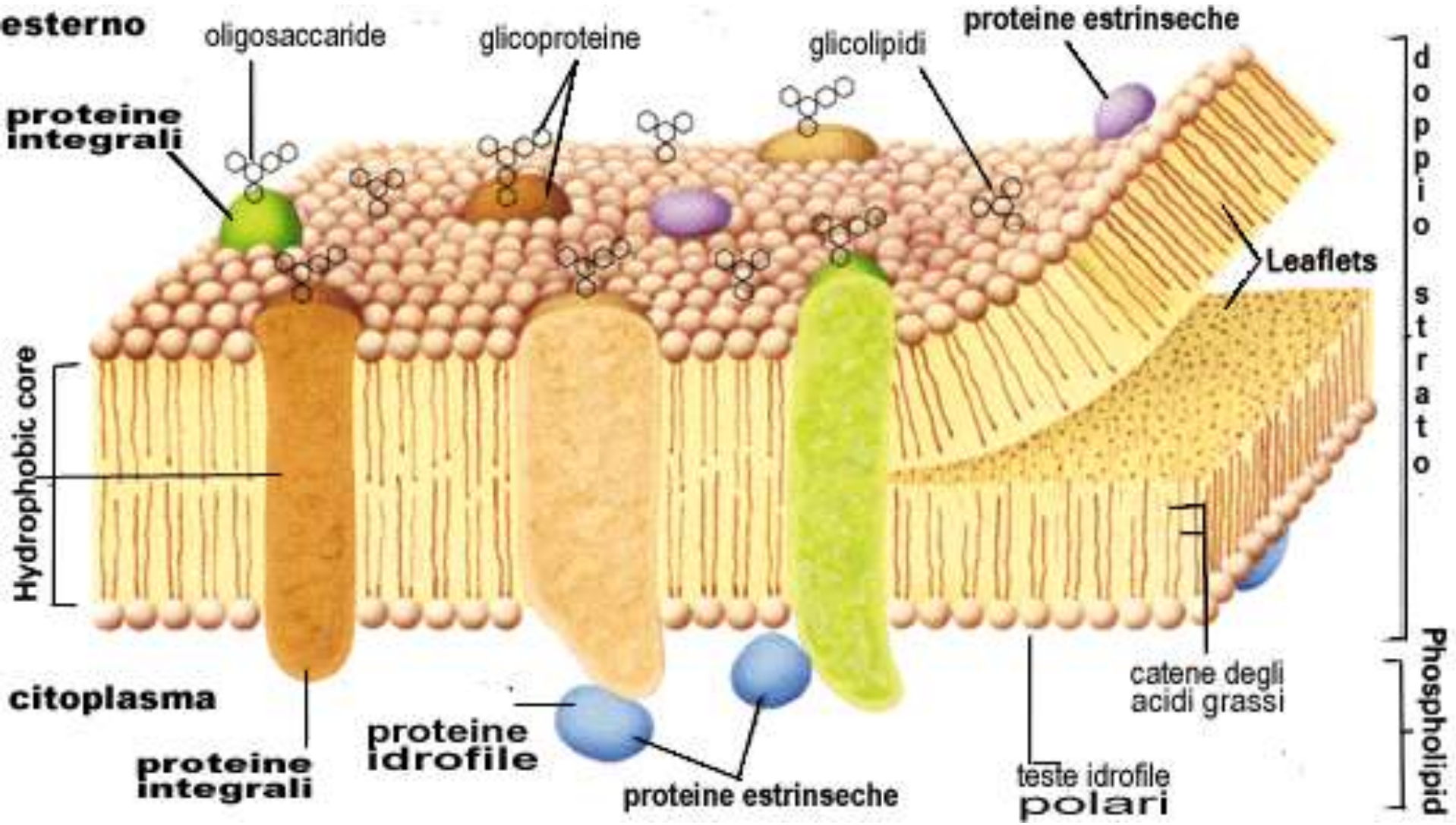
Membrana plasmática



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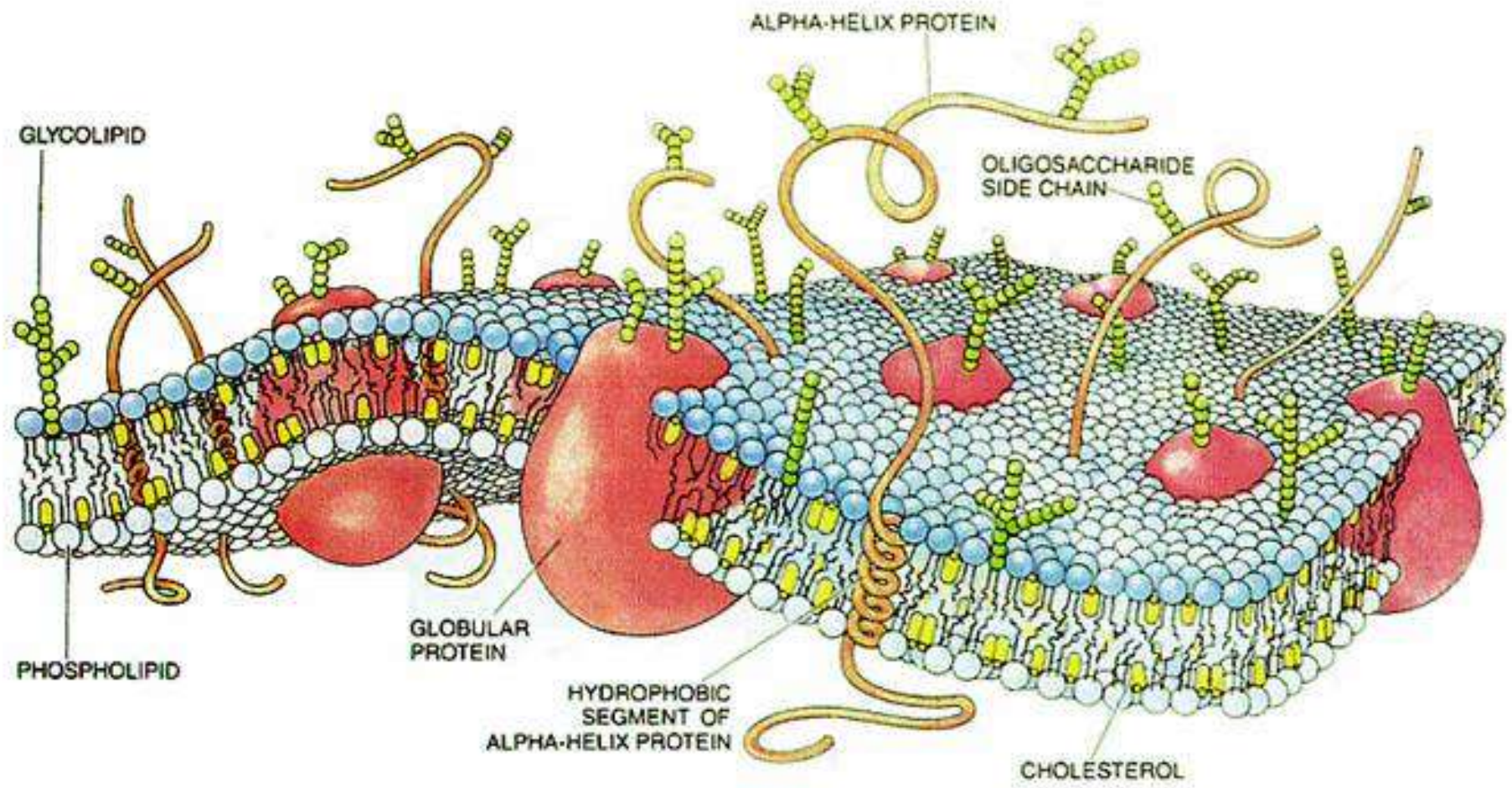
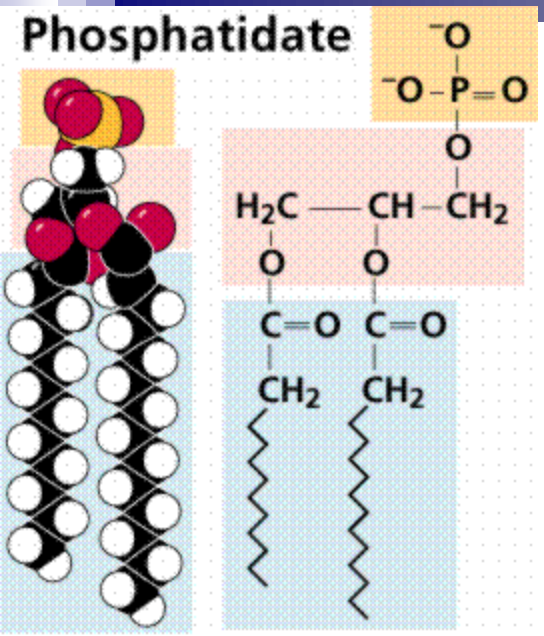
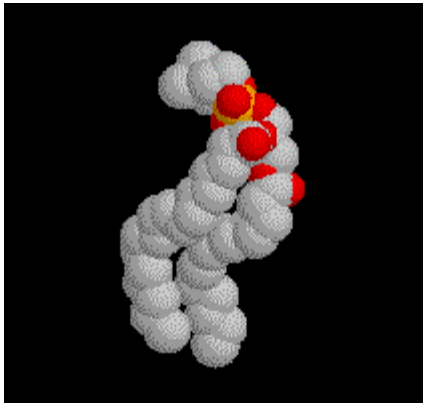
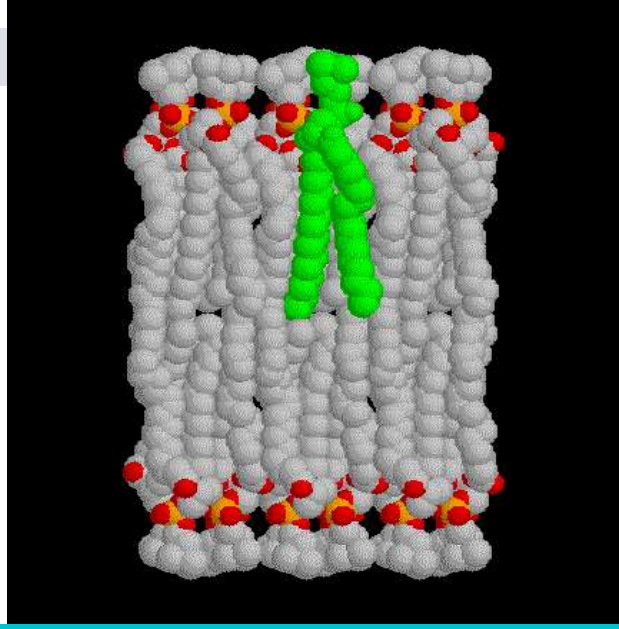


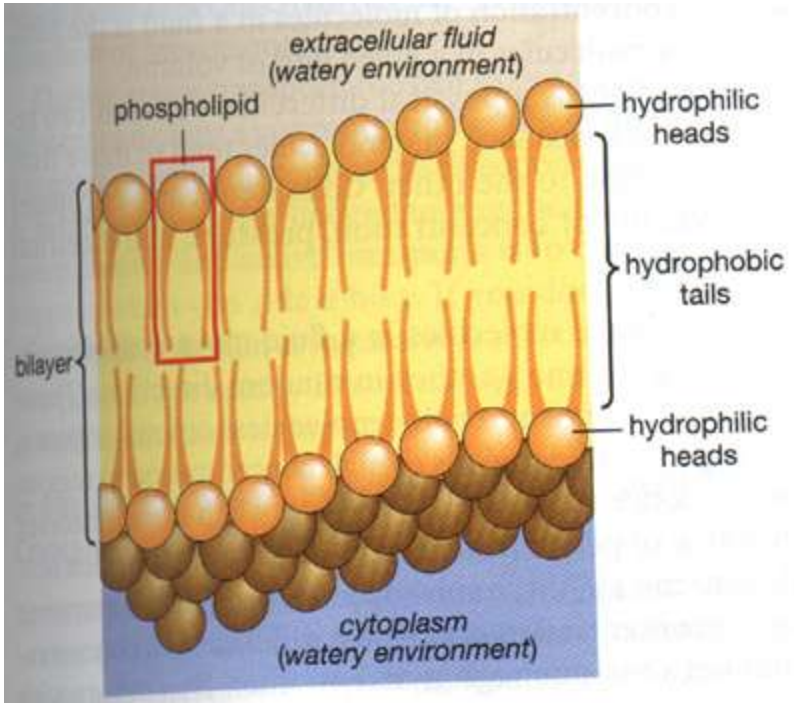
Membrana plasmática

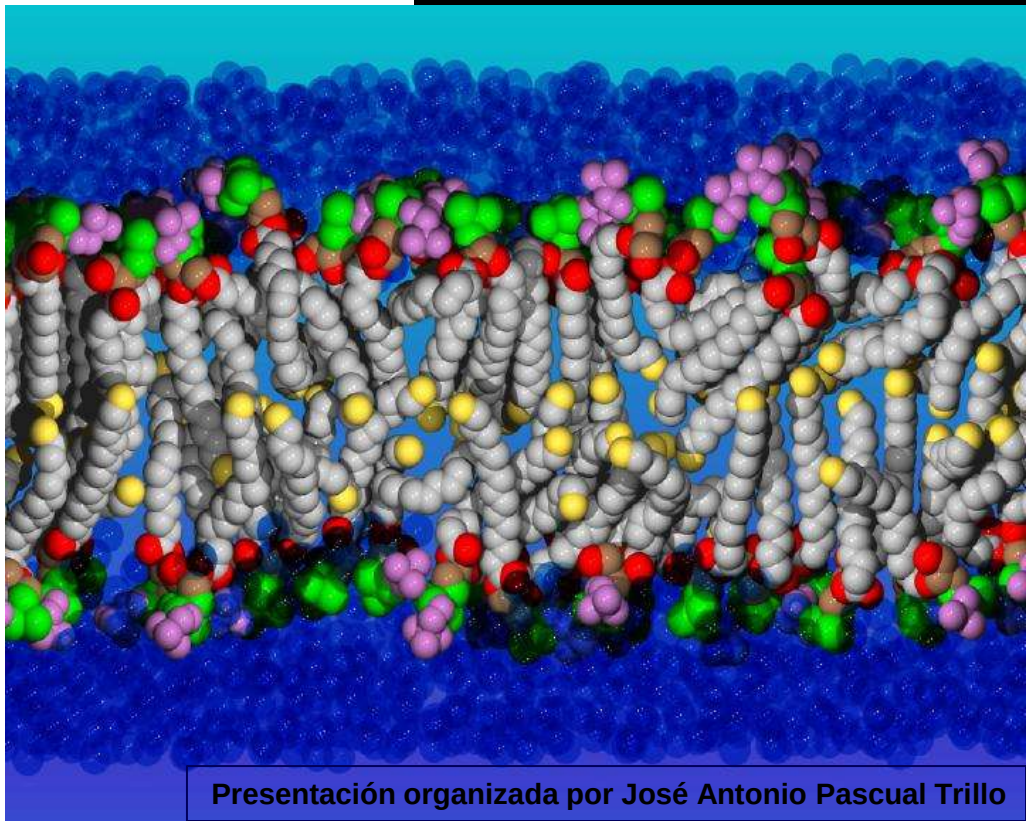
Fosfolípidos











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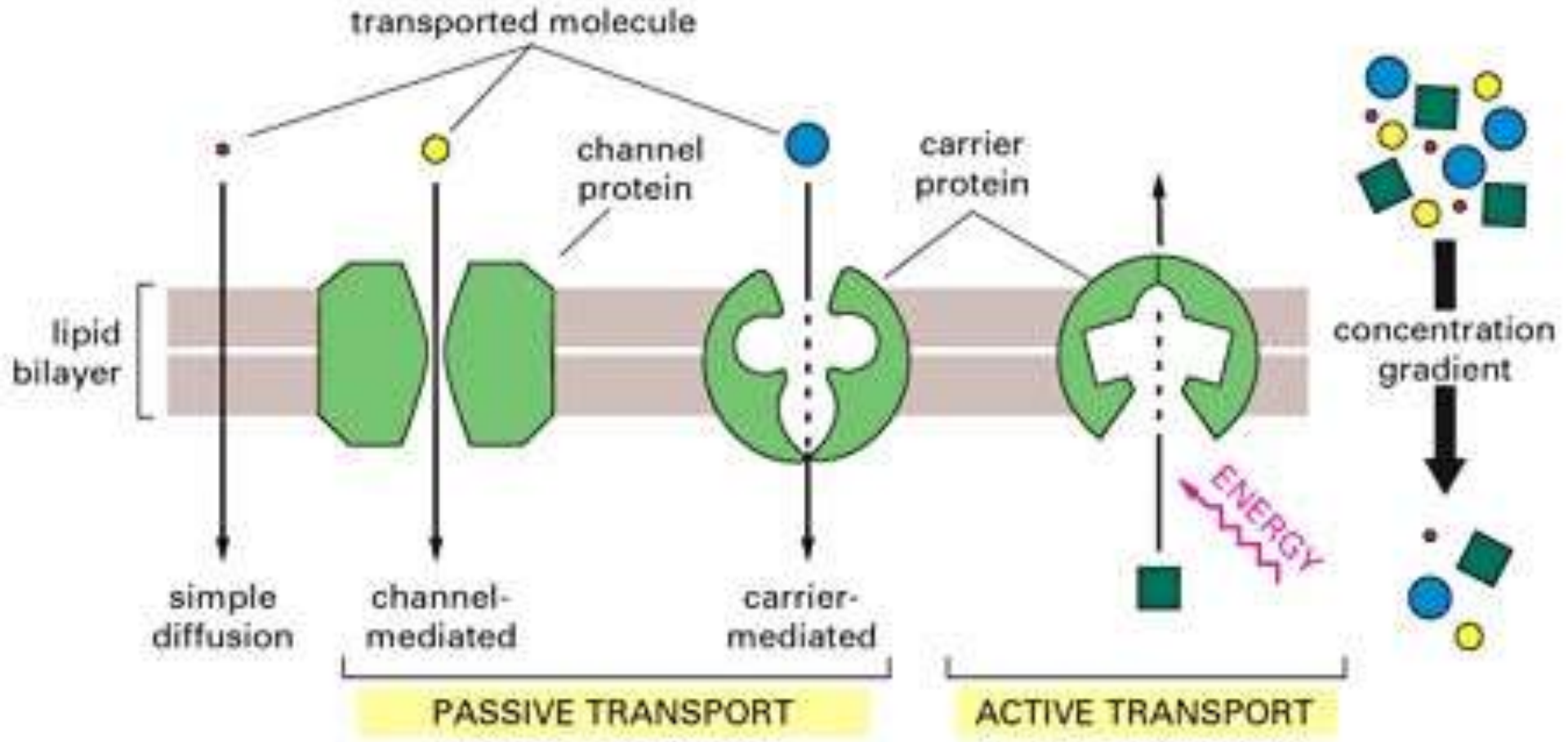
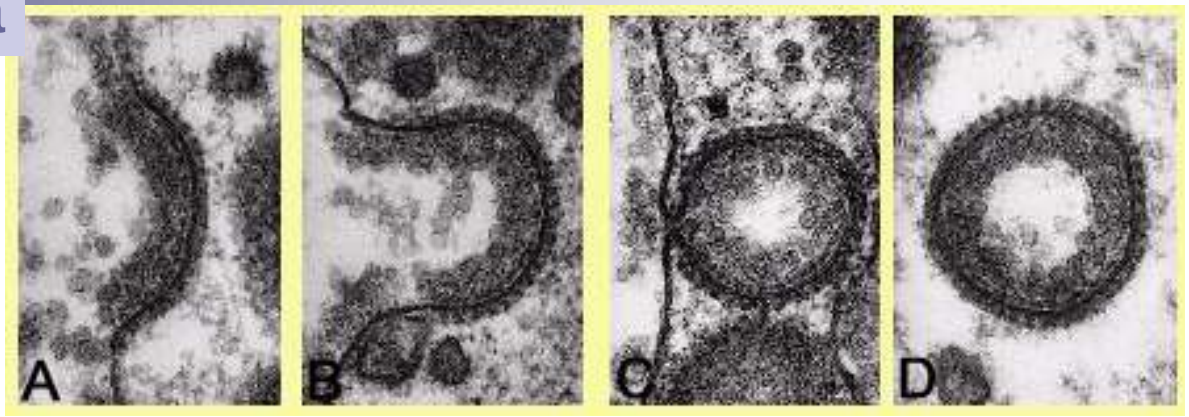
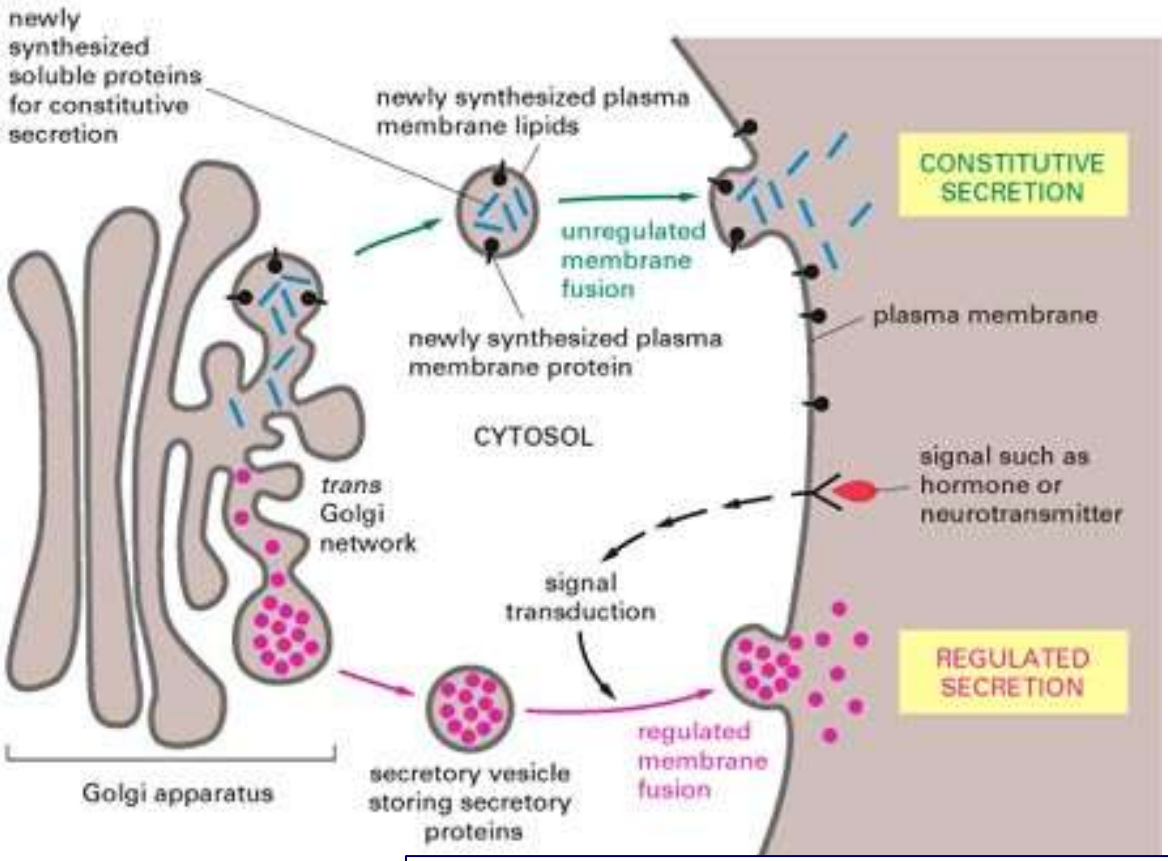


Membrana plasmática

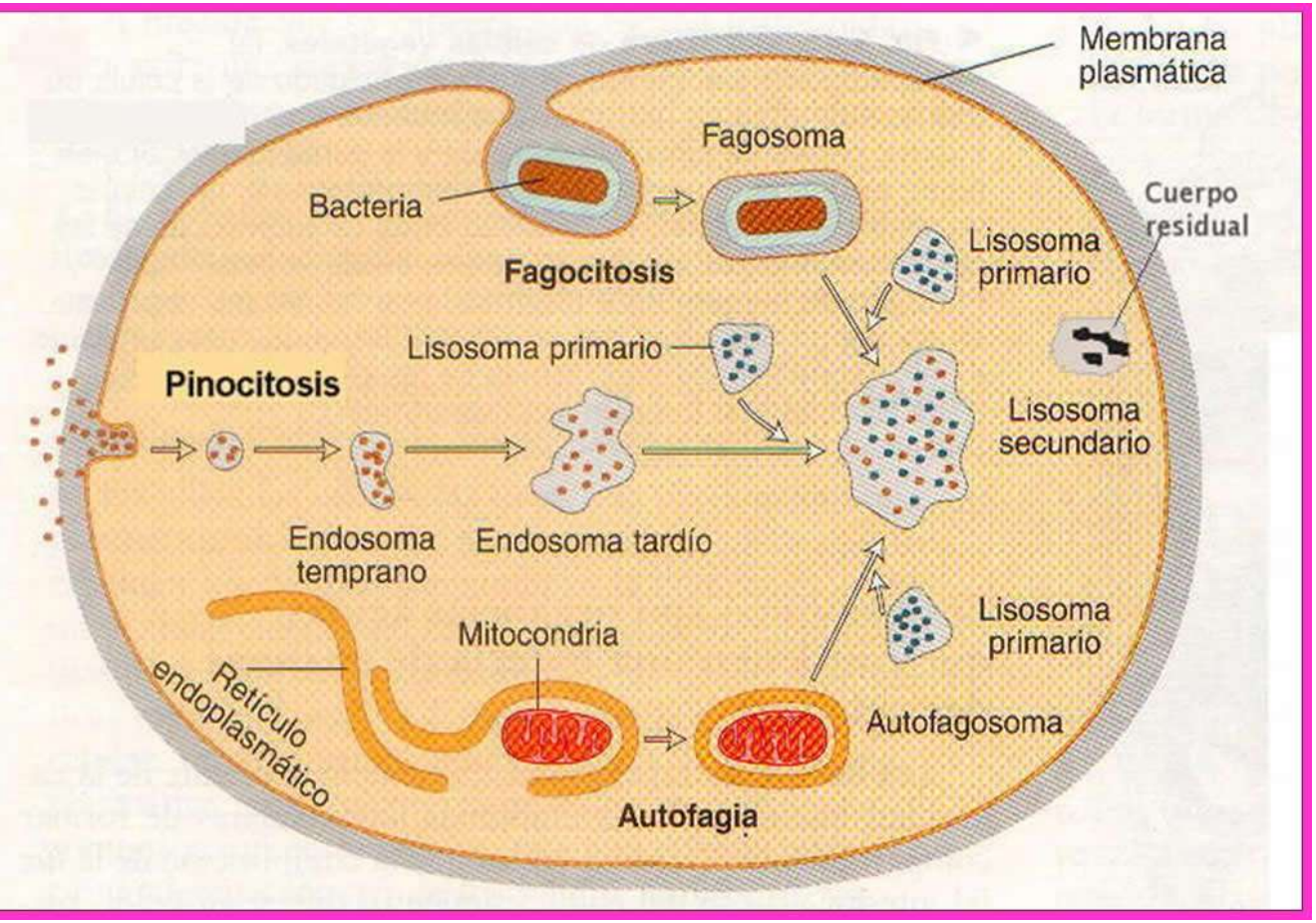
Exocitosis

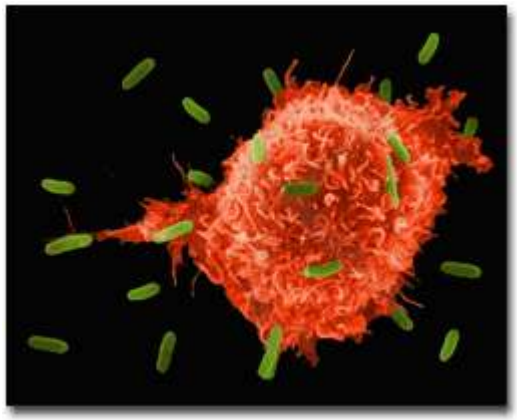


Endocitosis



Membrana plasmática

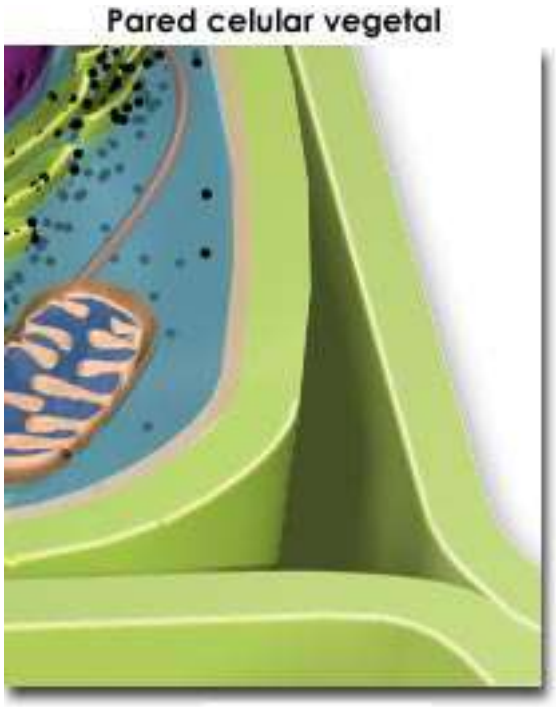


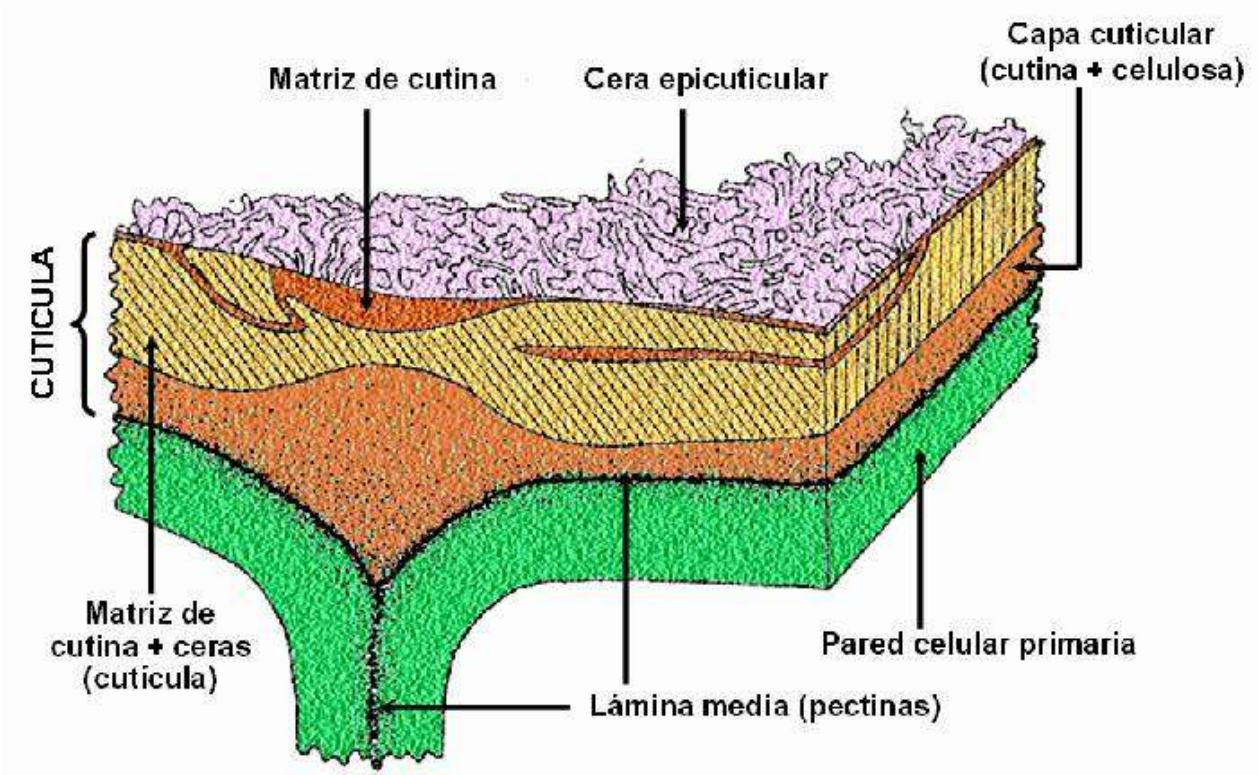


Fagocitosis:
Linfocito T atacando E. coli

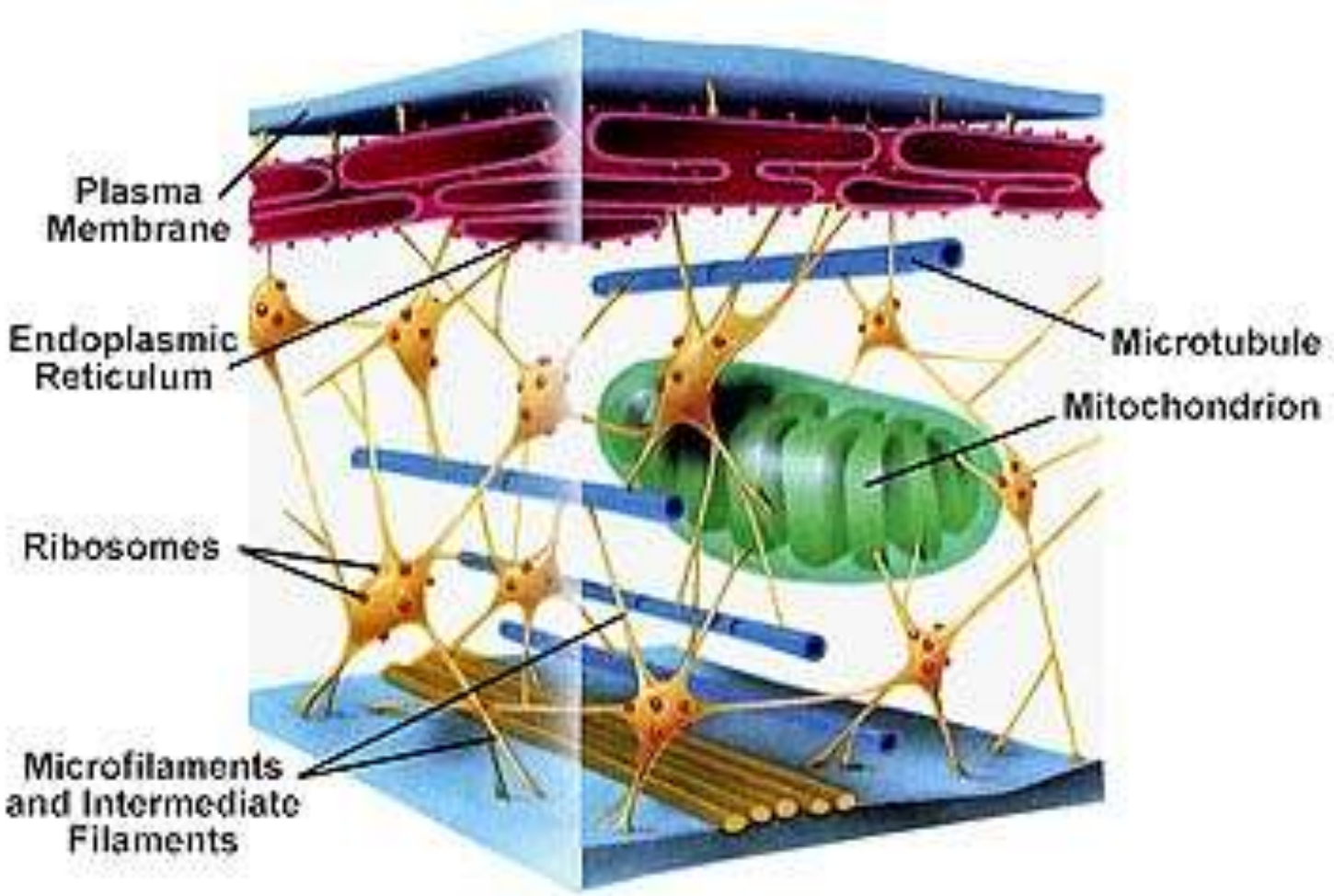
Fagocitosis
Pinocitosis
Autofagia

Pared celular (vegetal)





Citoesqueleto



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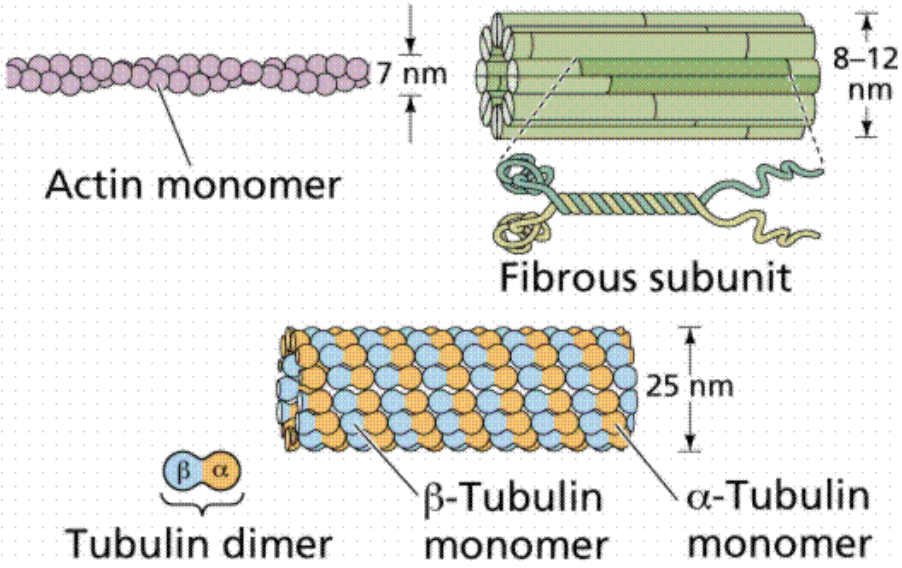

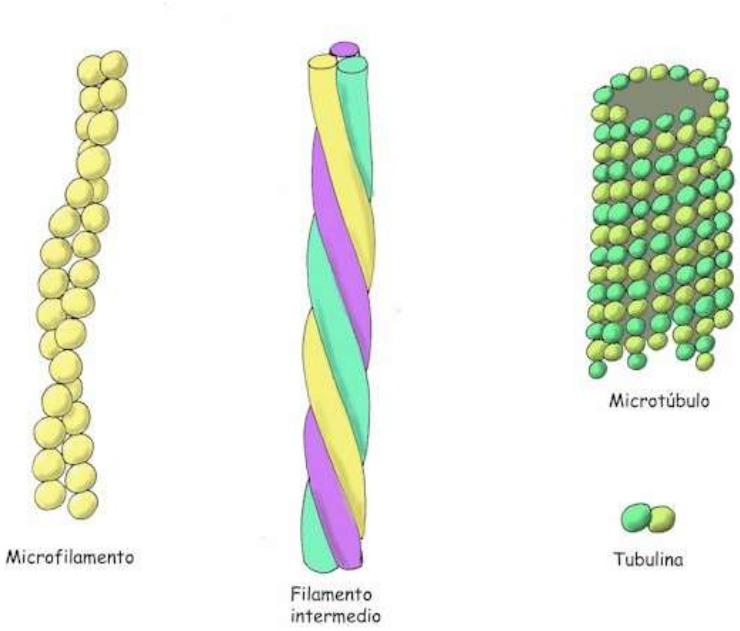

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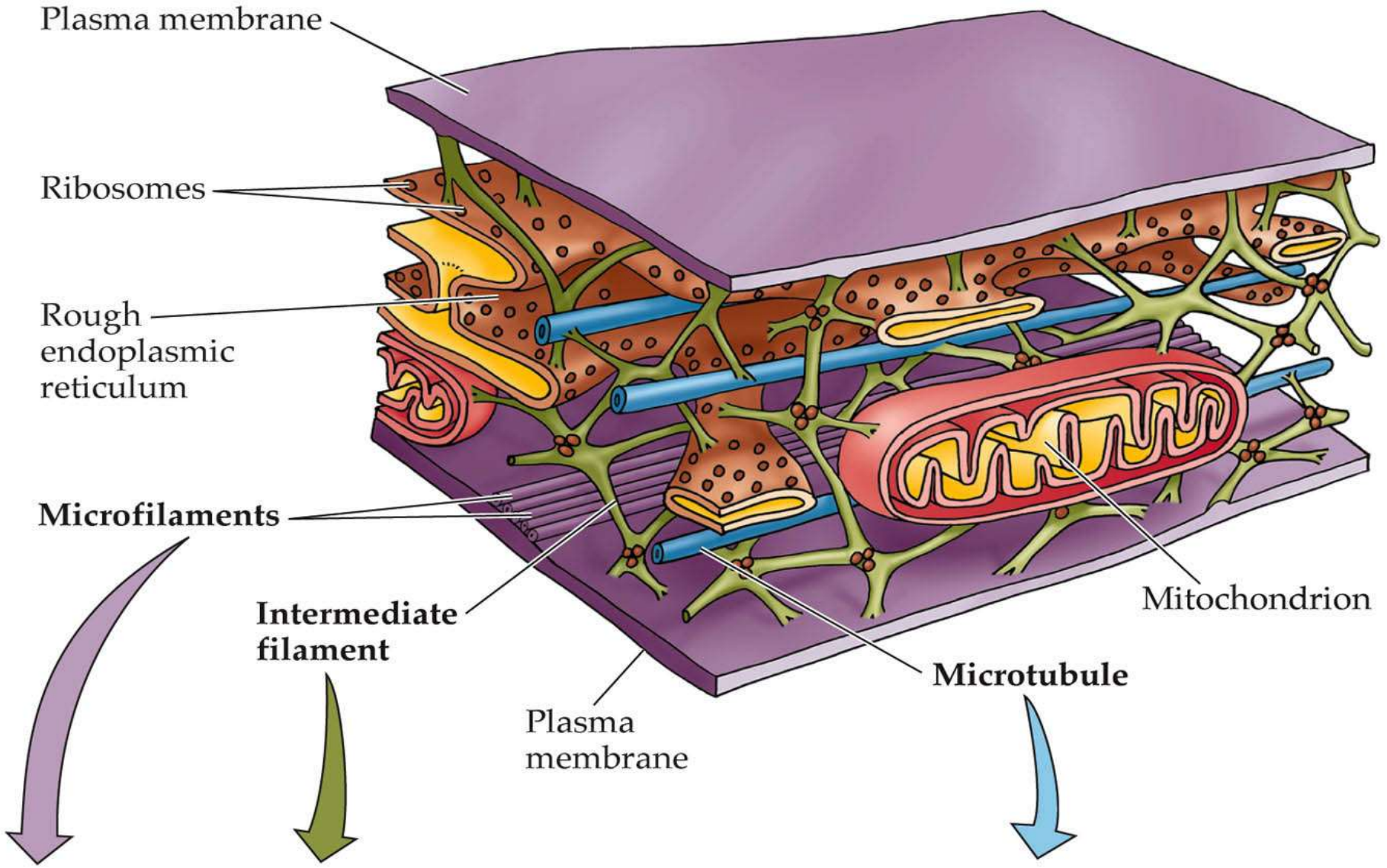

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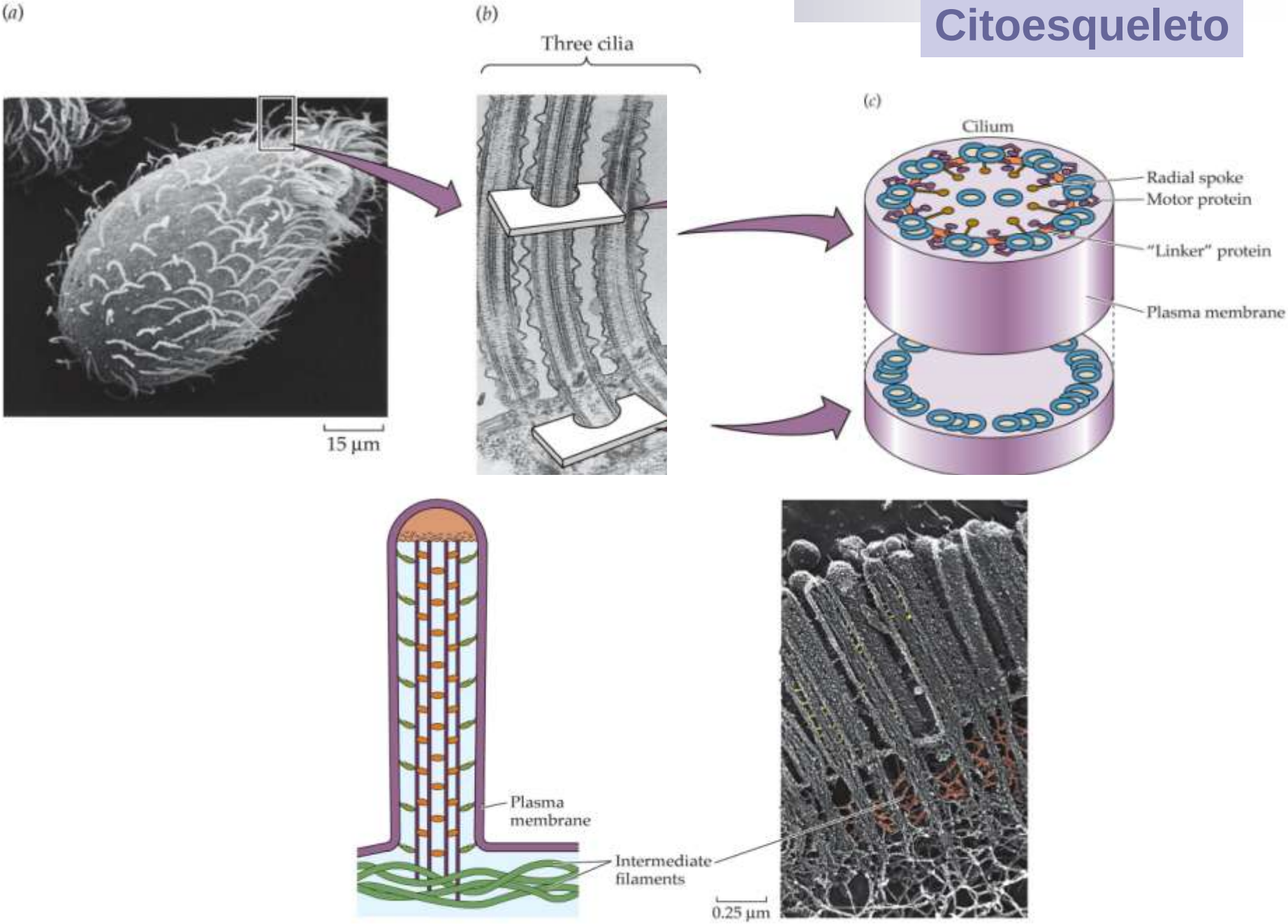
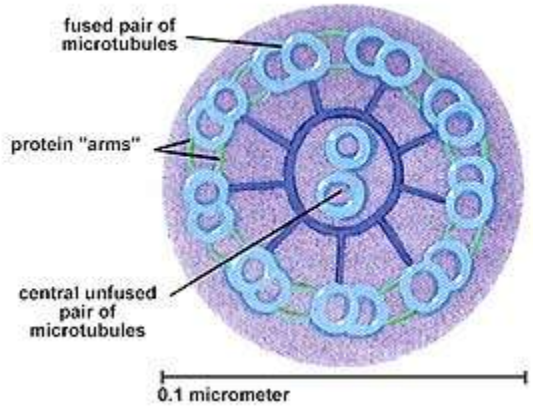
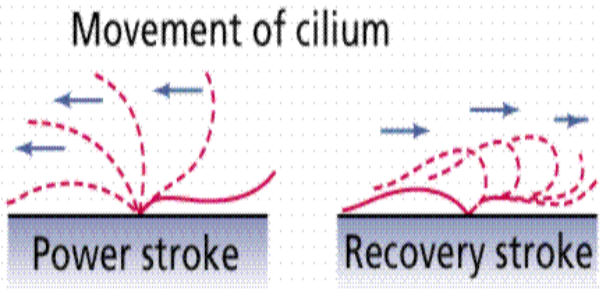
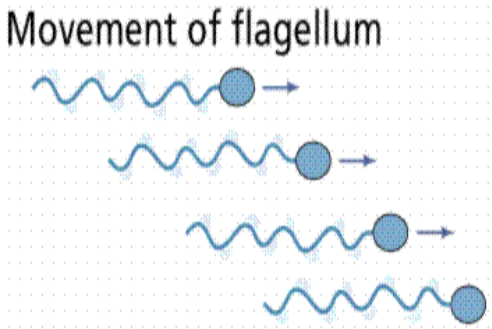


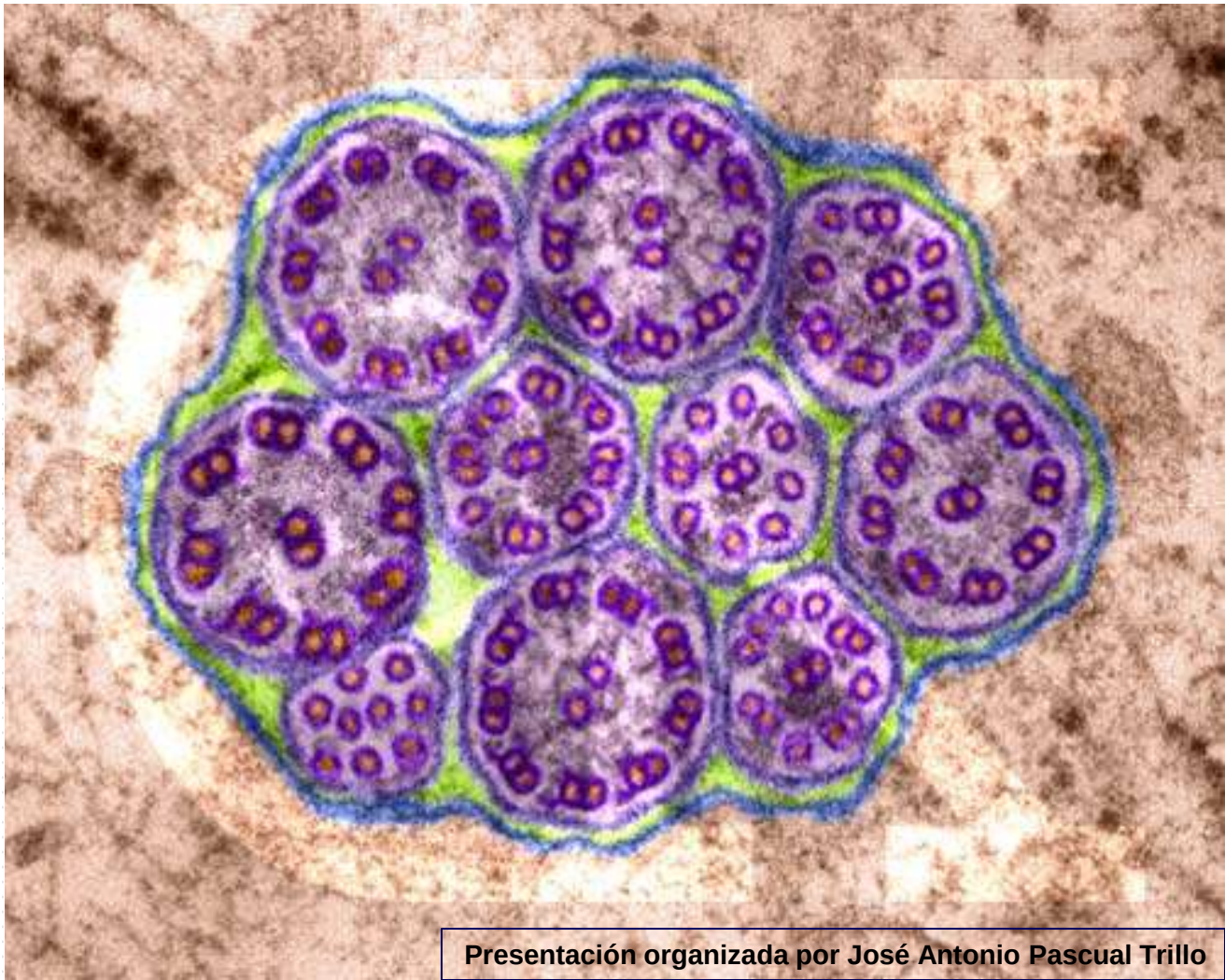
Cilios y flagelos (microtúbulos)

9 + 2

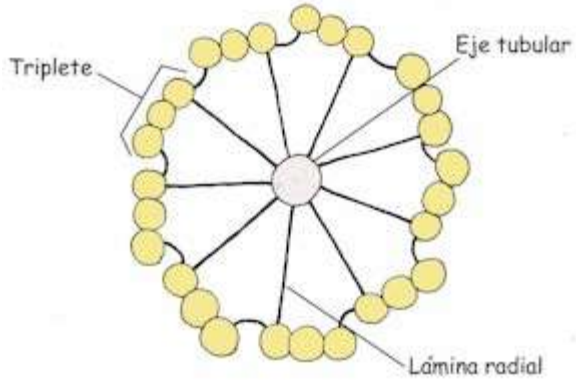


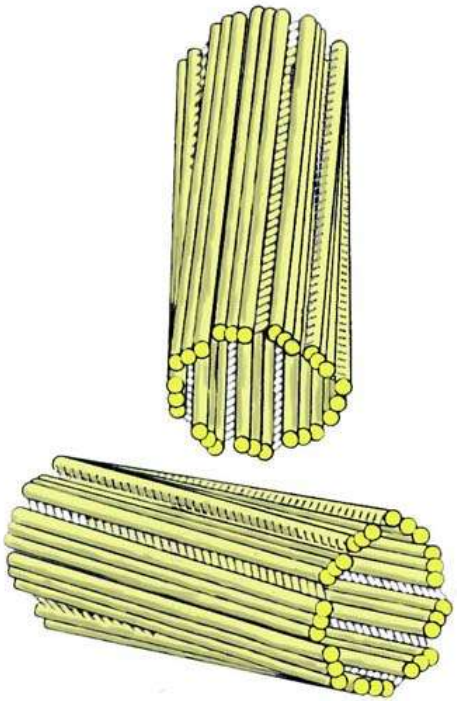




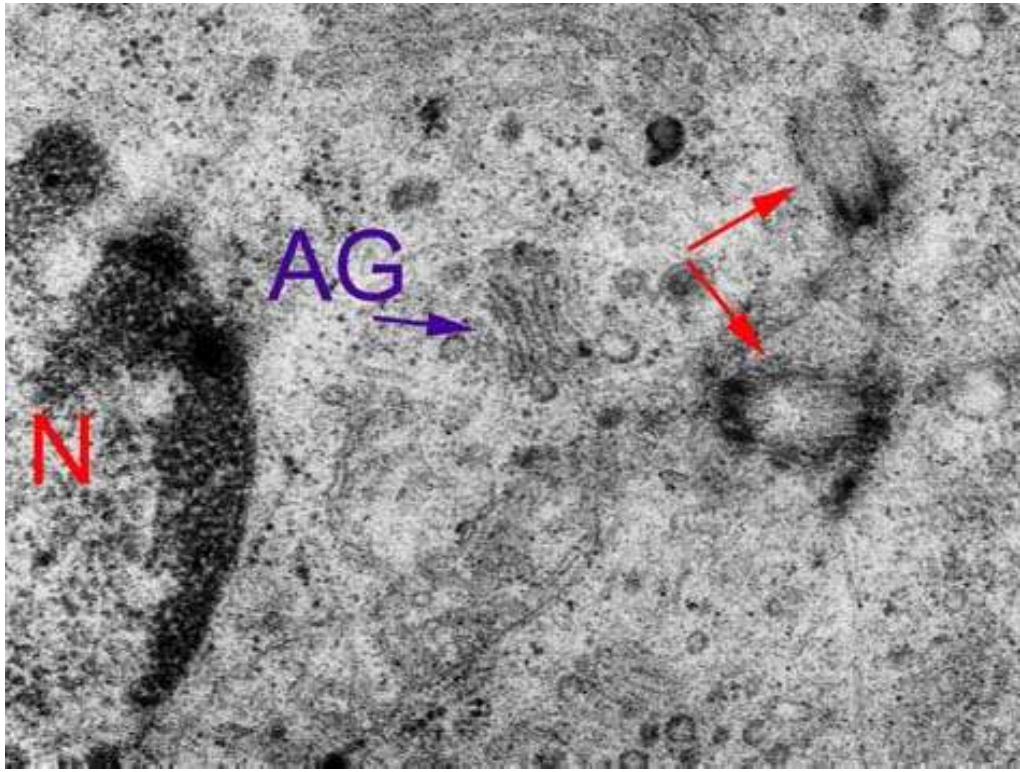


Centrosoma

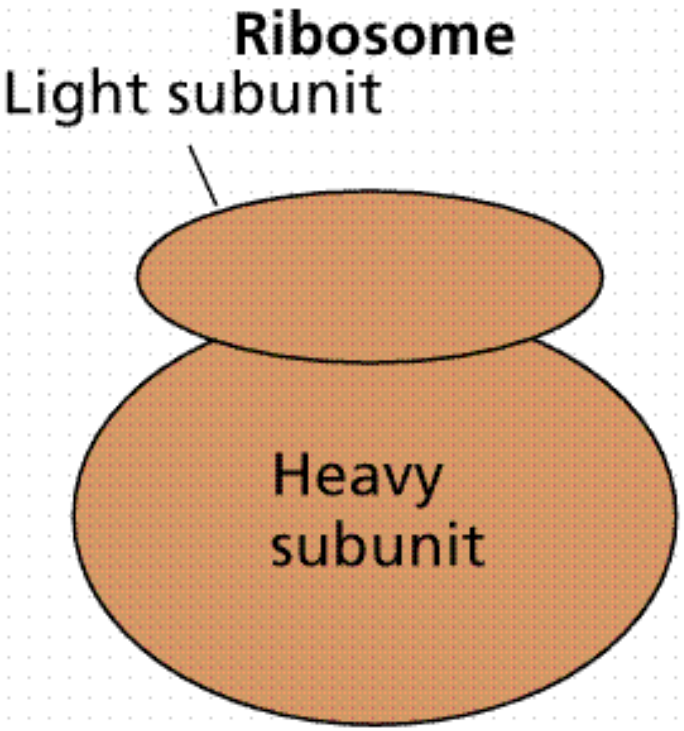


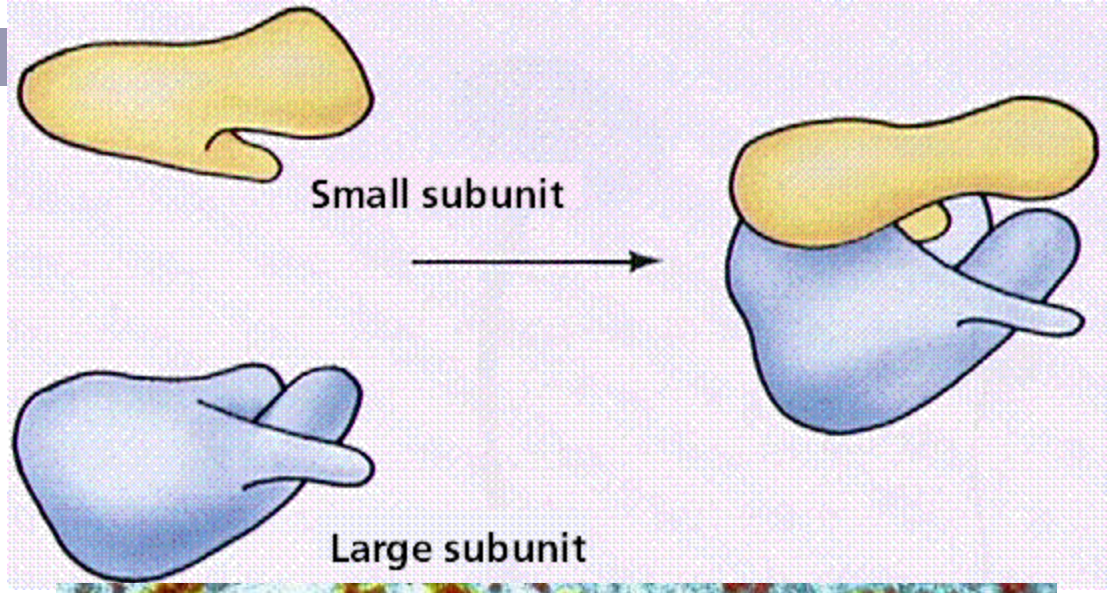


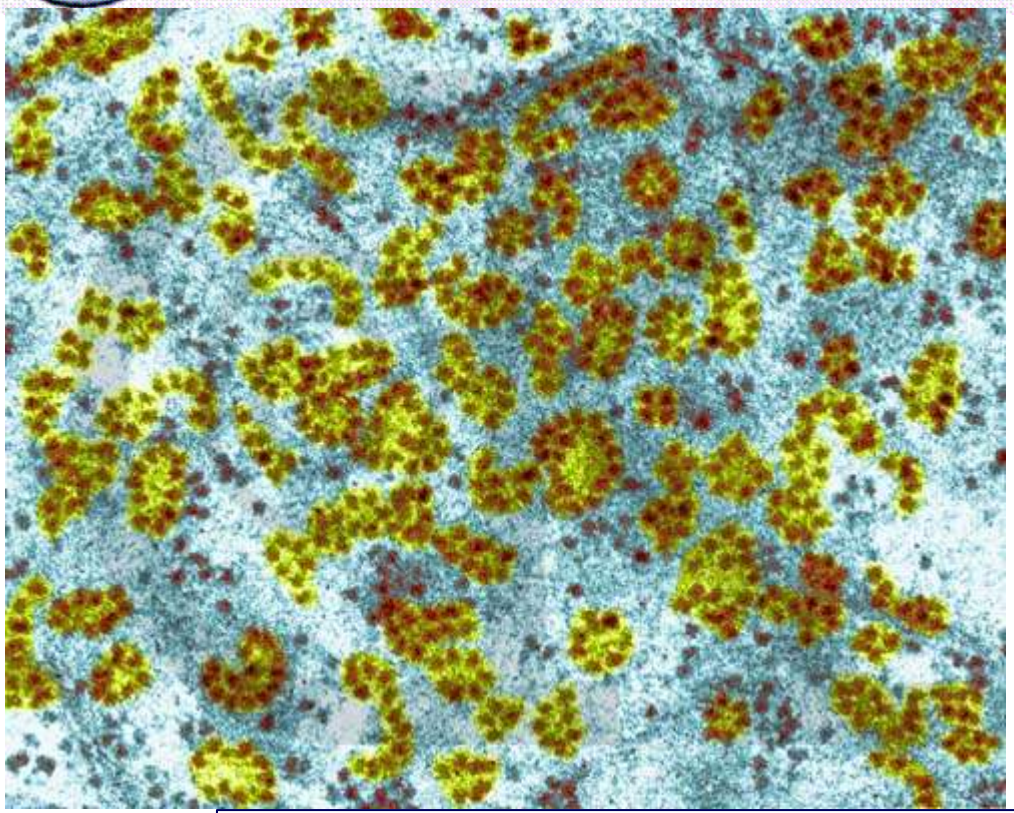
Estructura de cada centríolo



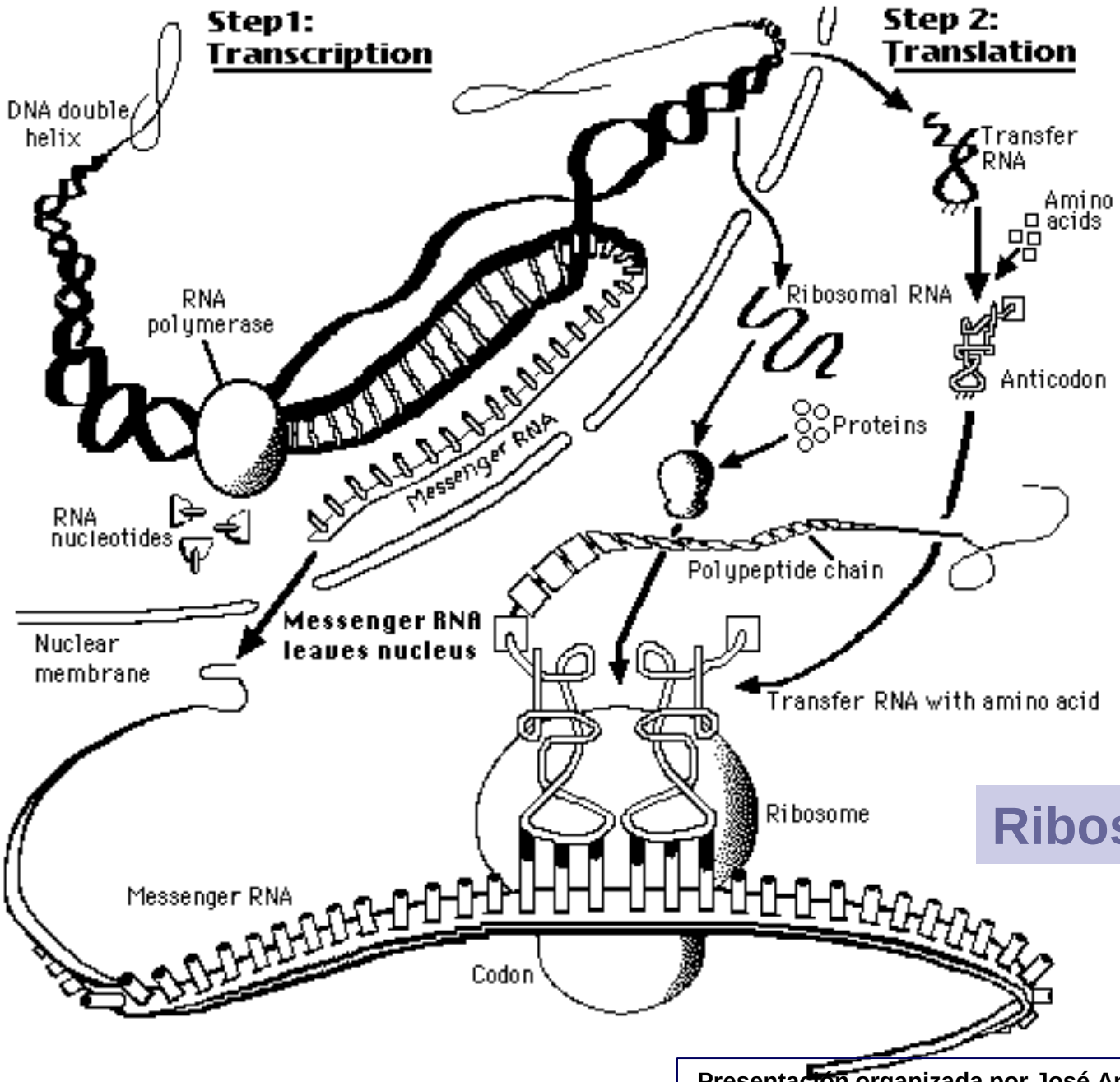
Ribosomas


Ribosome
Light subunit
Heavy subunit

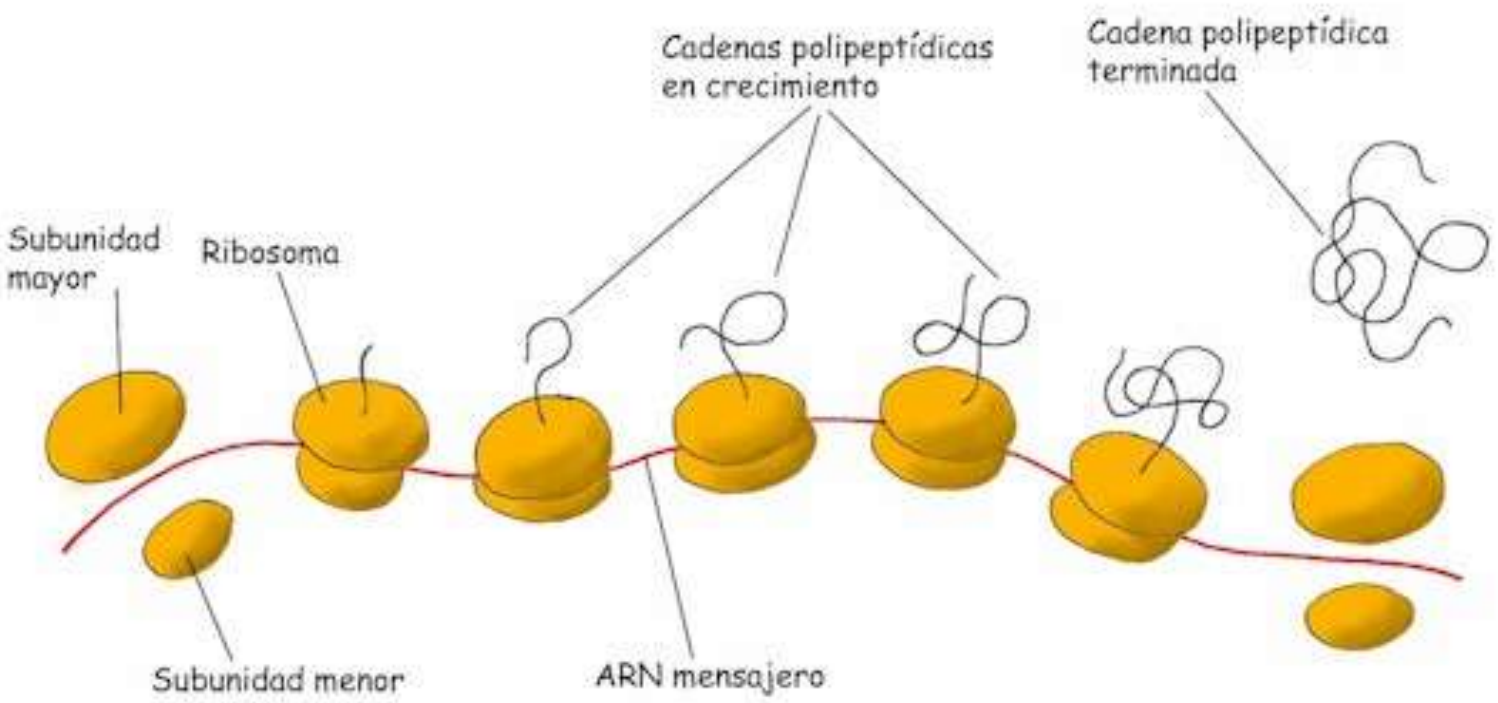

Small subunit
Large subunit



PROTEIN SYNTHESIS

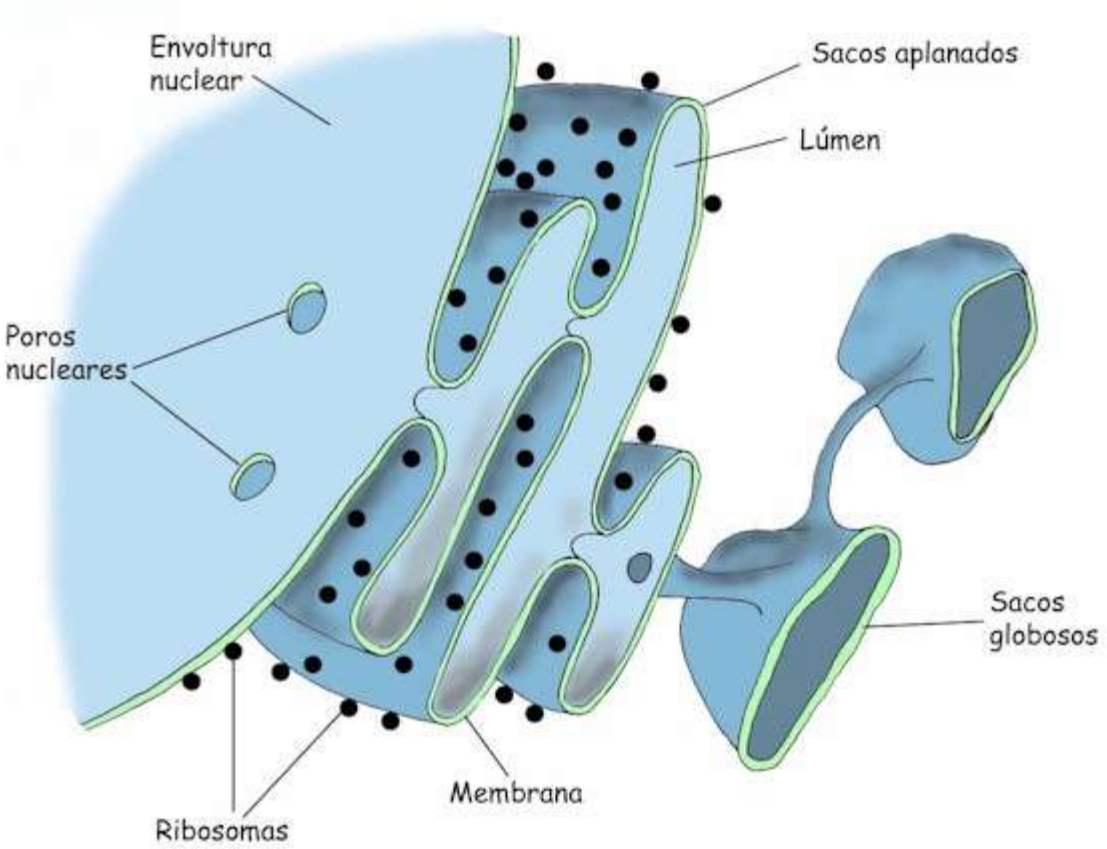


Ribosomas

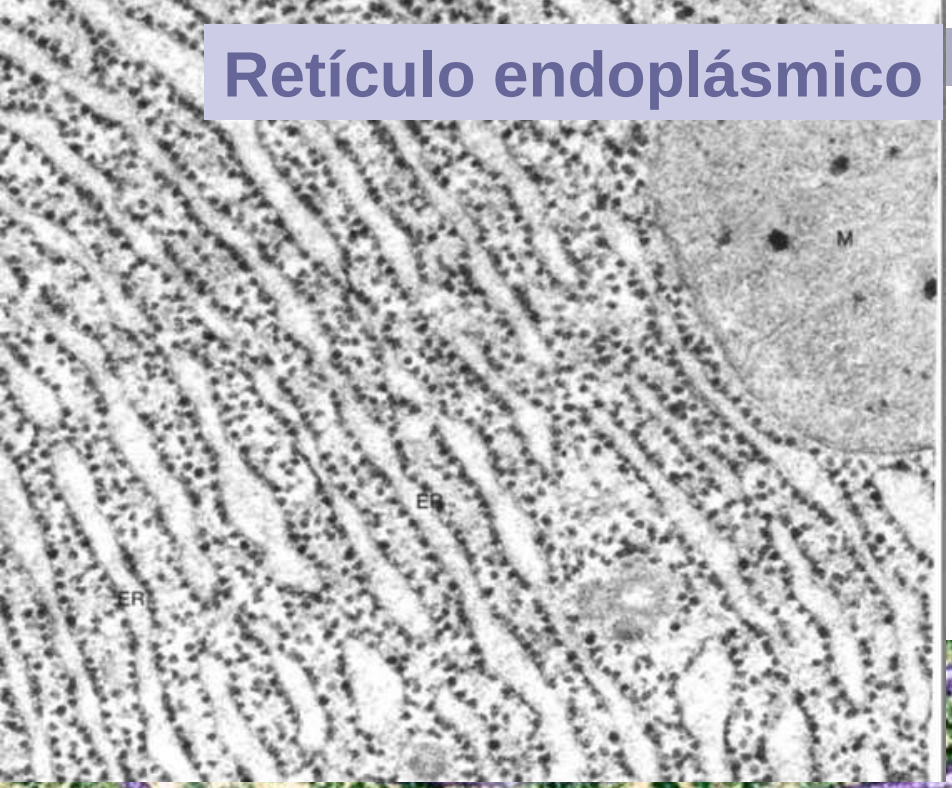

Cadenas polipeptídicas en crecimiento
Cadena polipeptídica terminada
Subunidad mayor
Ribosoma
Subunidad menor
ARN mensajero

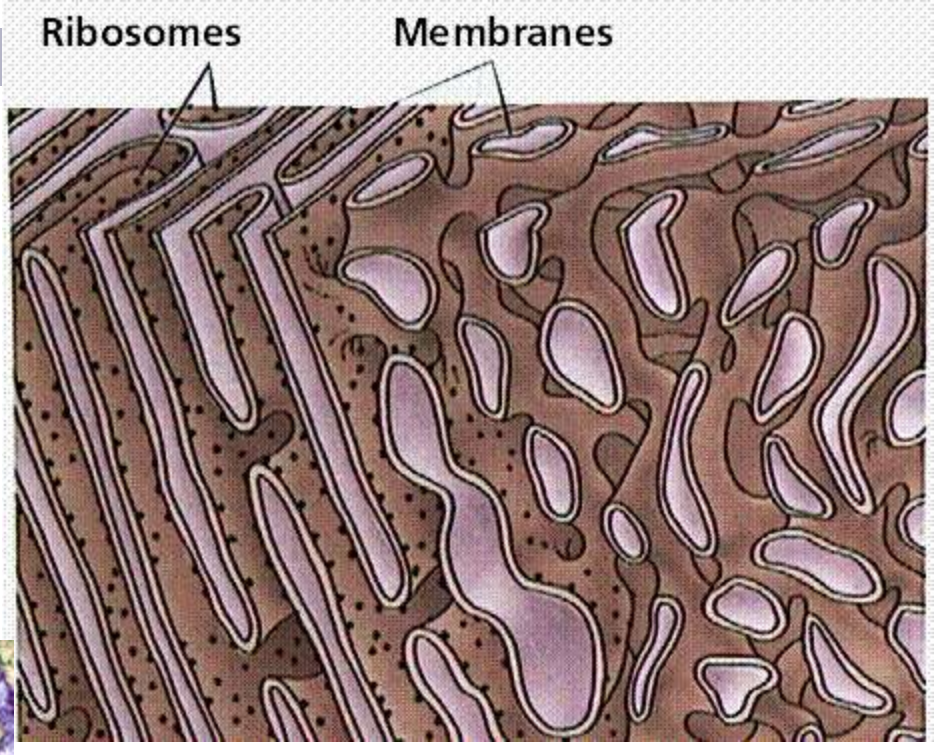
Ribosomas

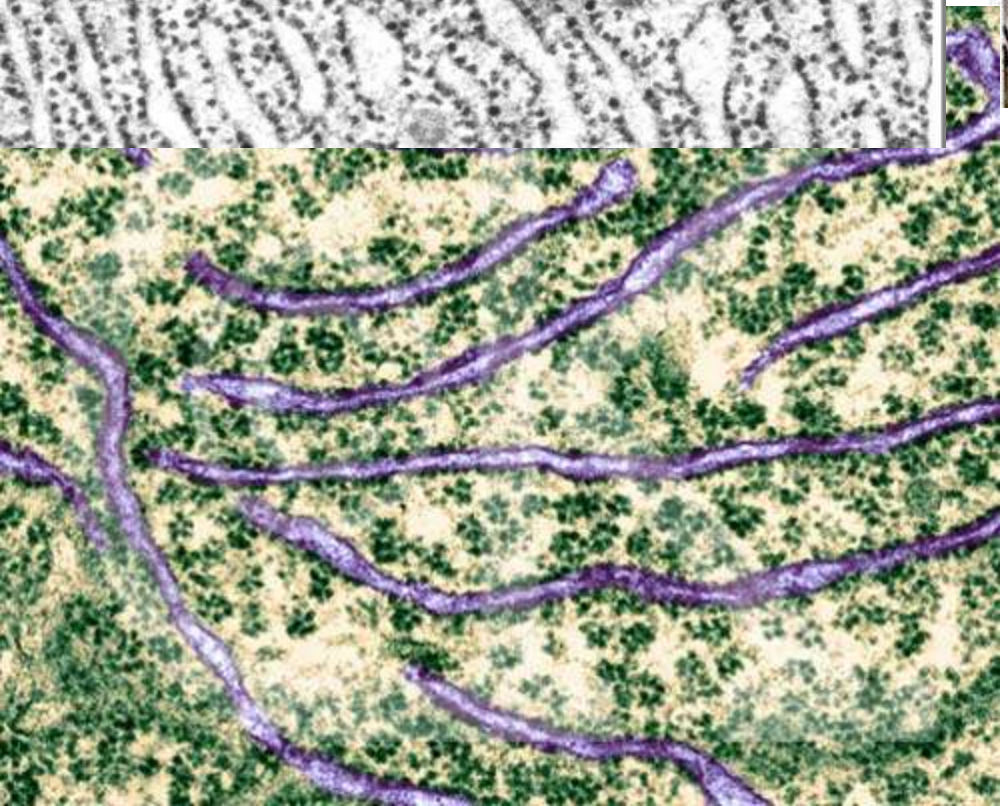
Retículo endoplásmico

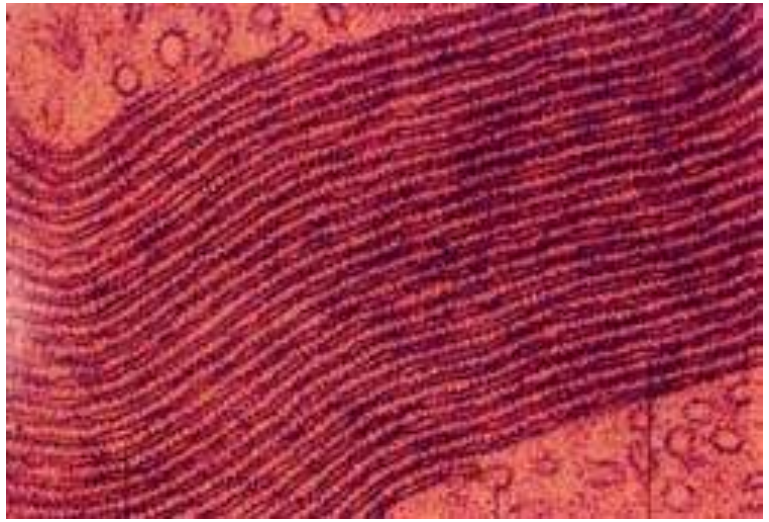


Retículo endoplásmico

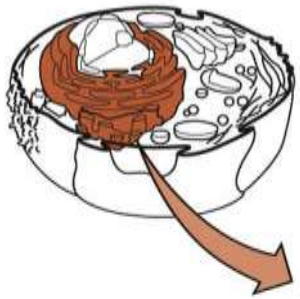


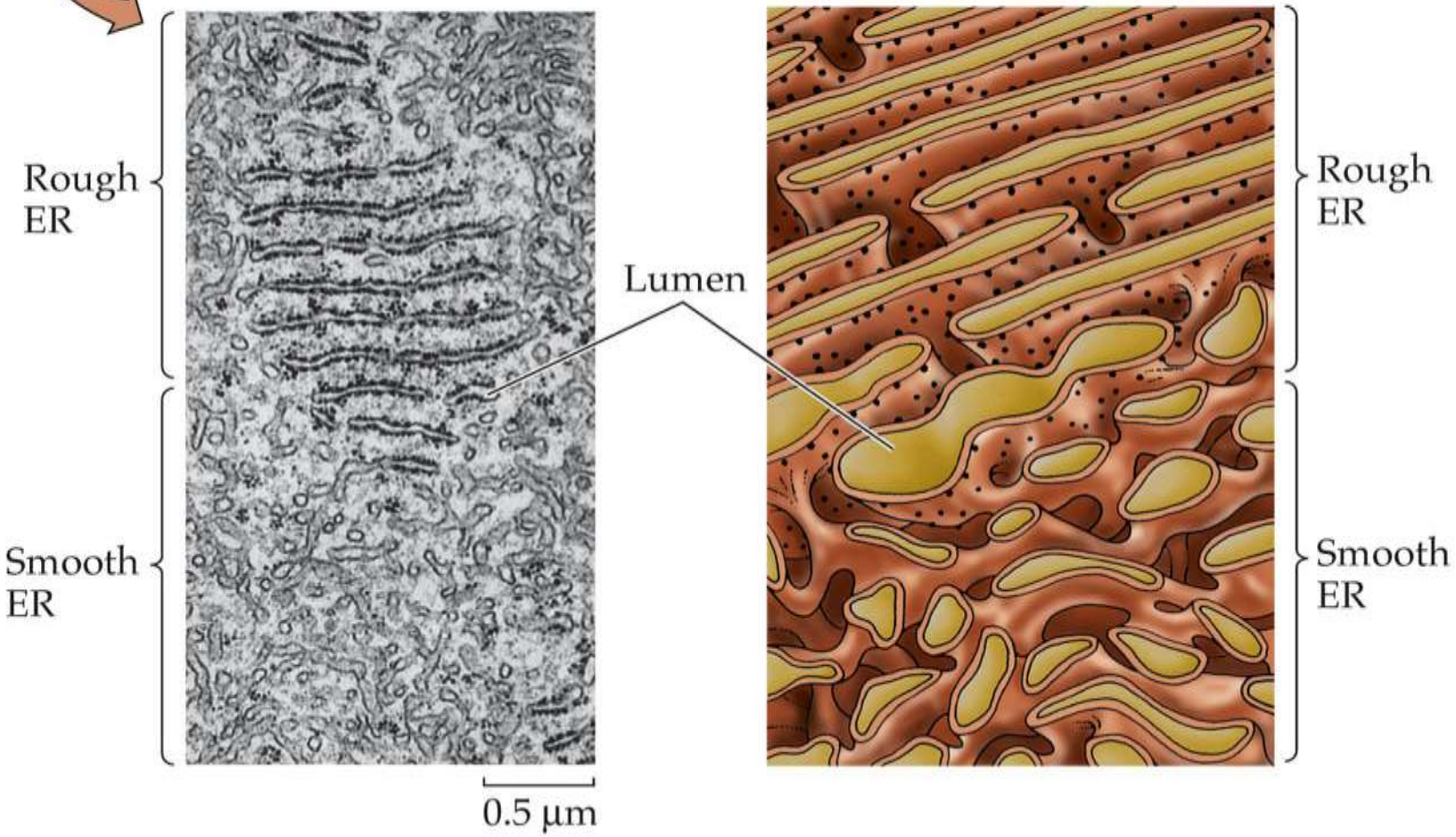




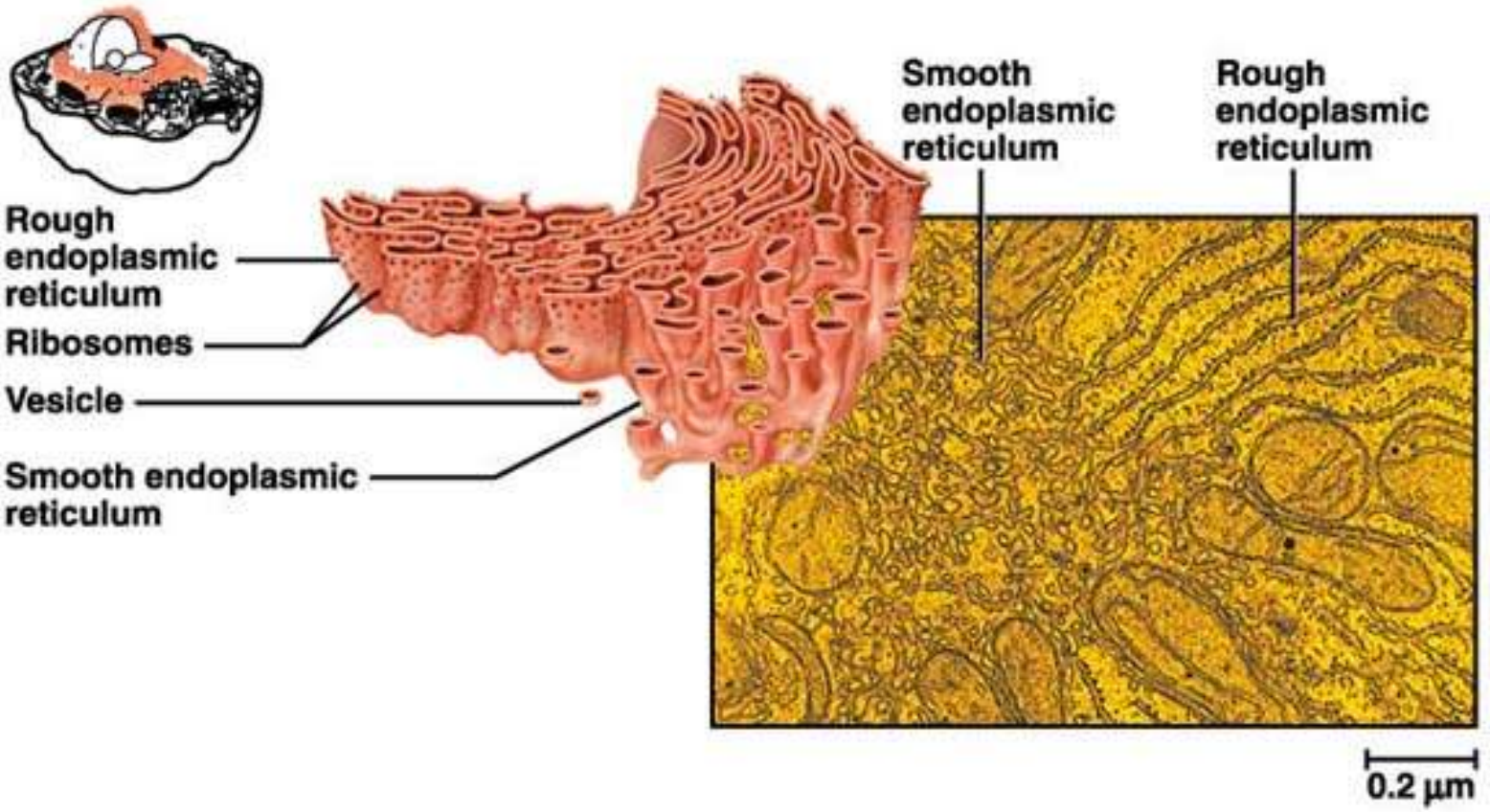


Retículo endoplásmico

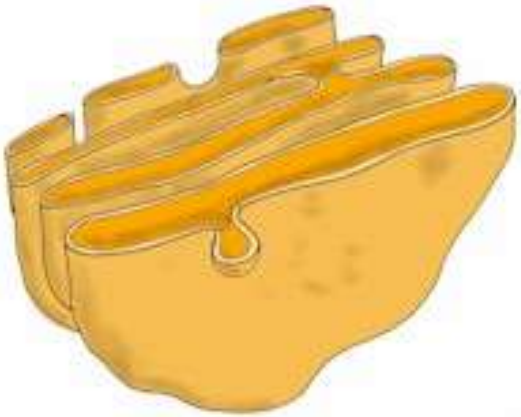




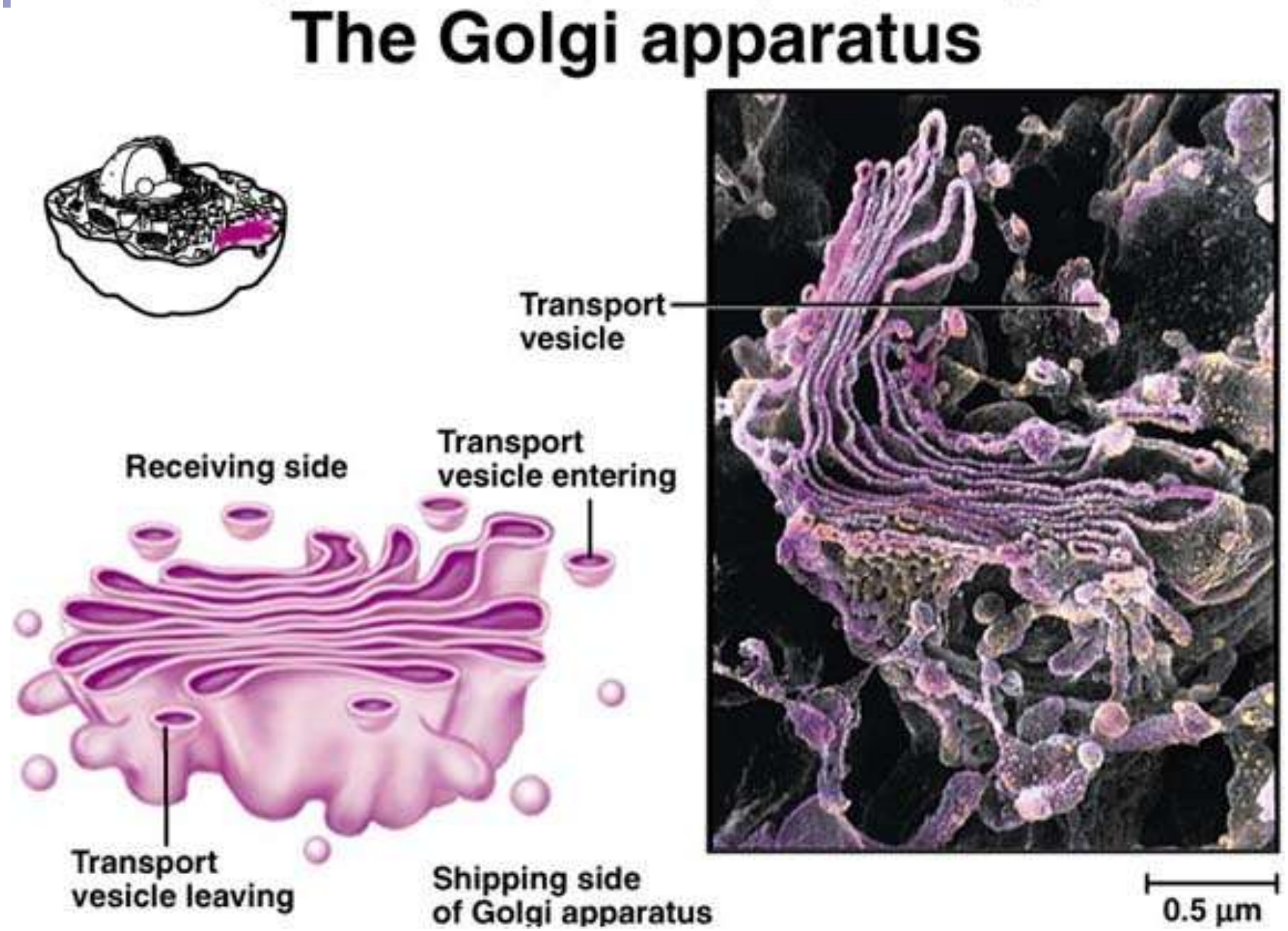
Retículo endoplásmico



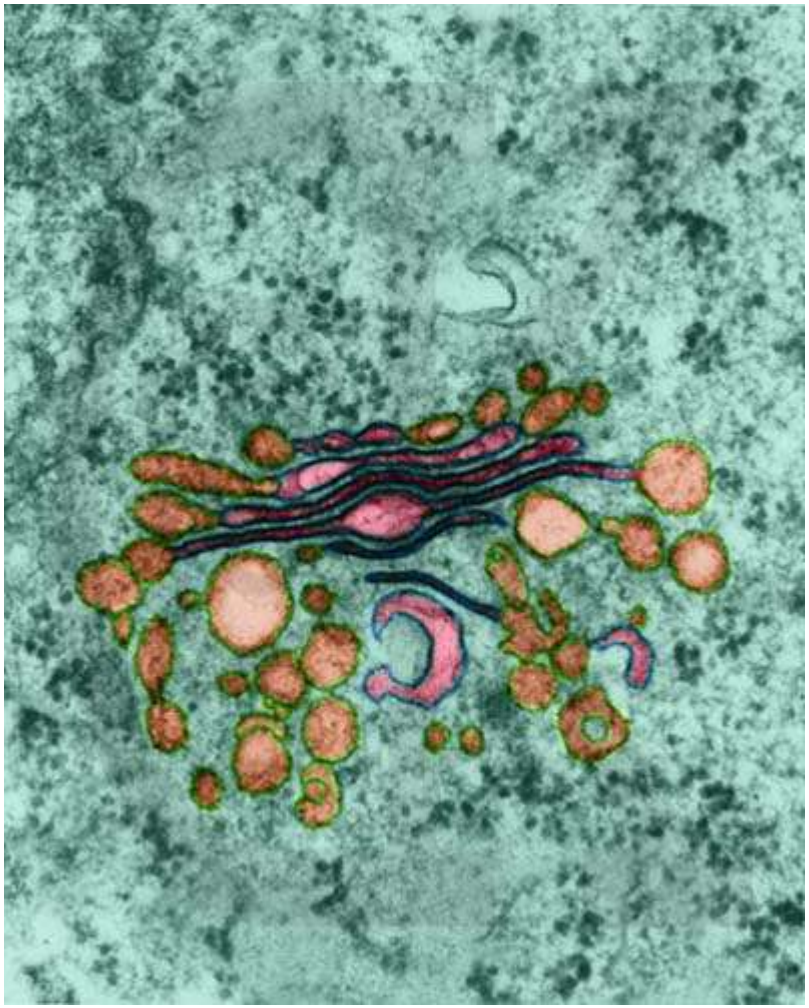
Aparato de Golgi

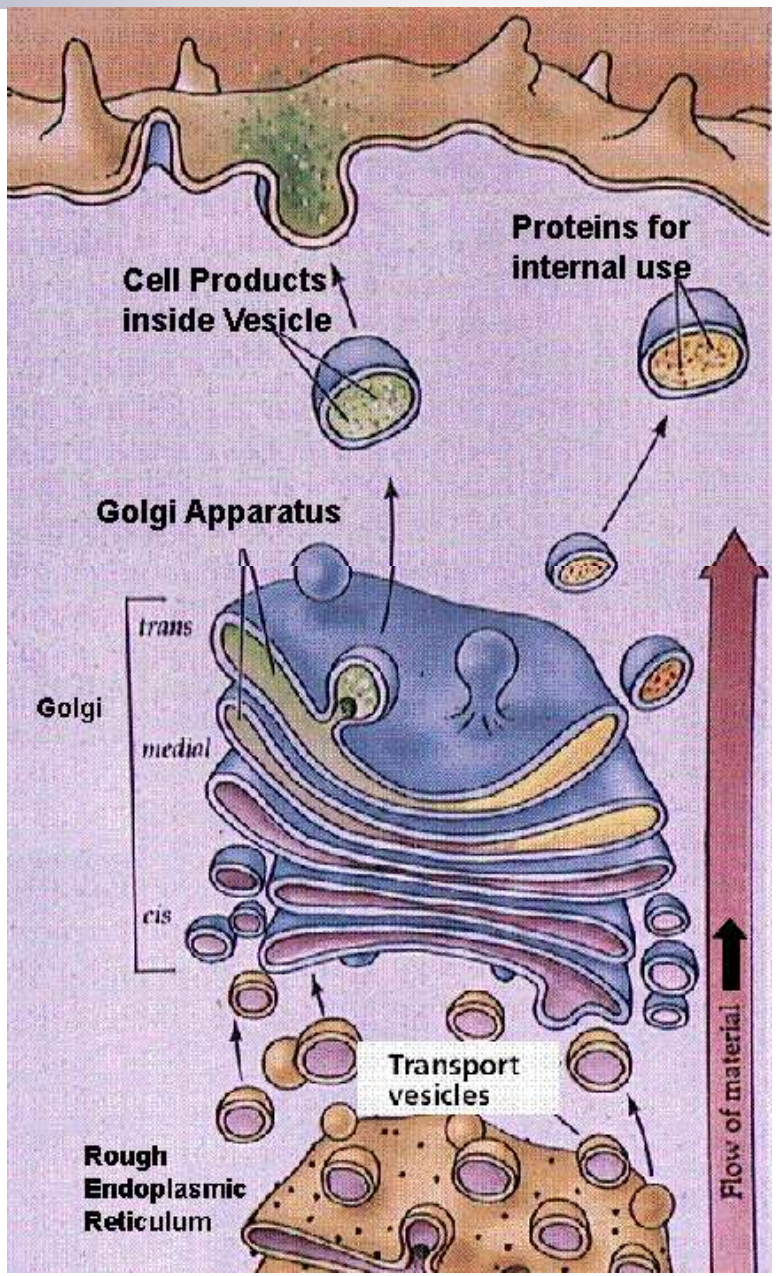


Aparato de Golgi

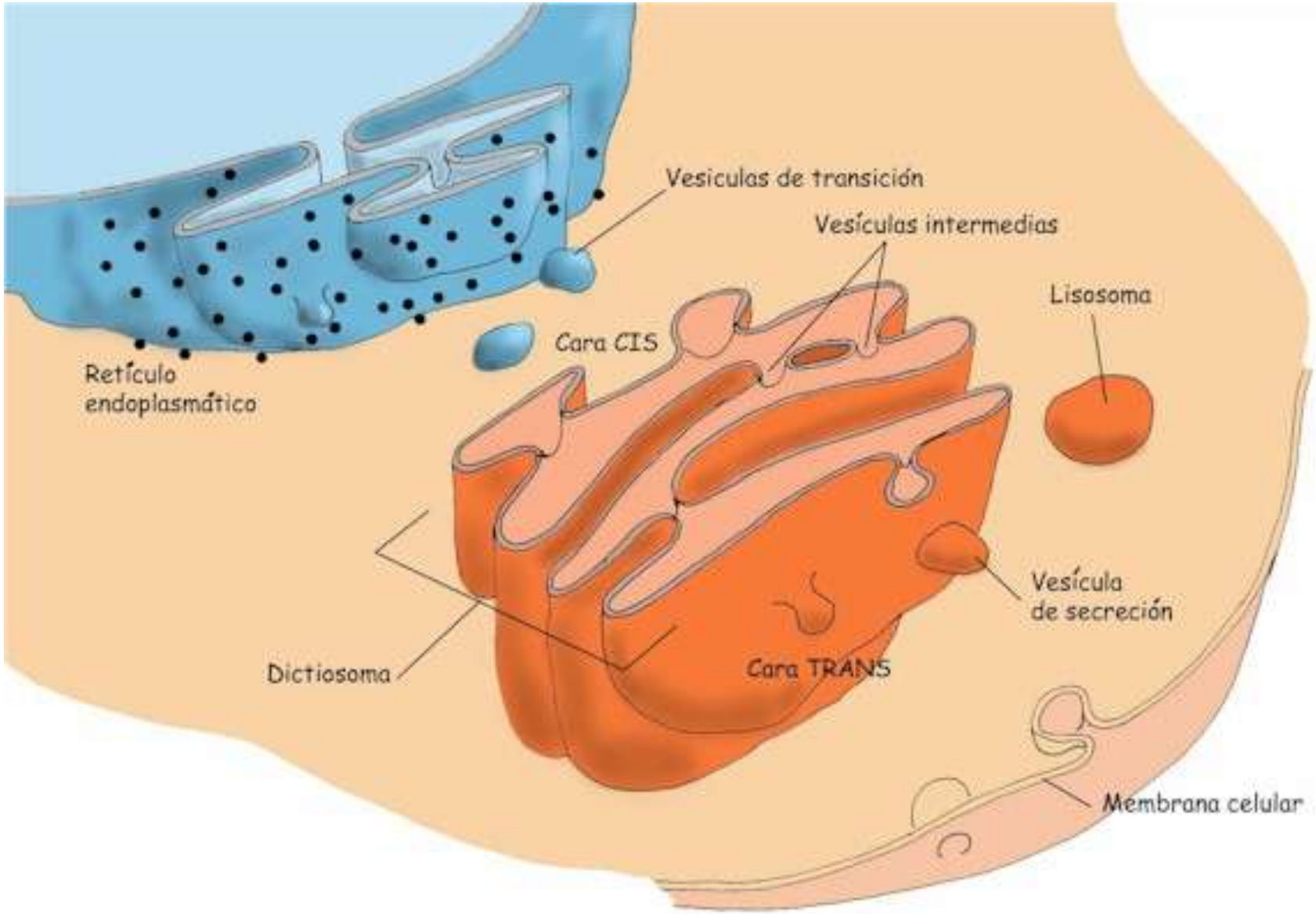


Aparato de Golgi

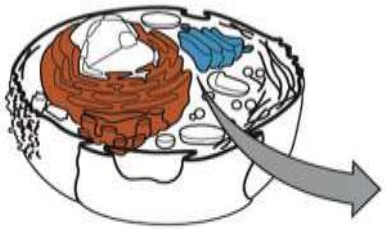


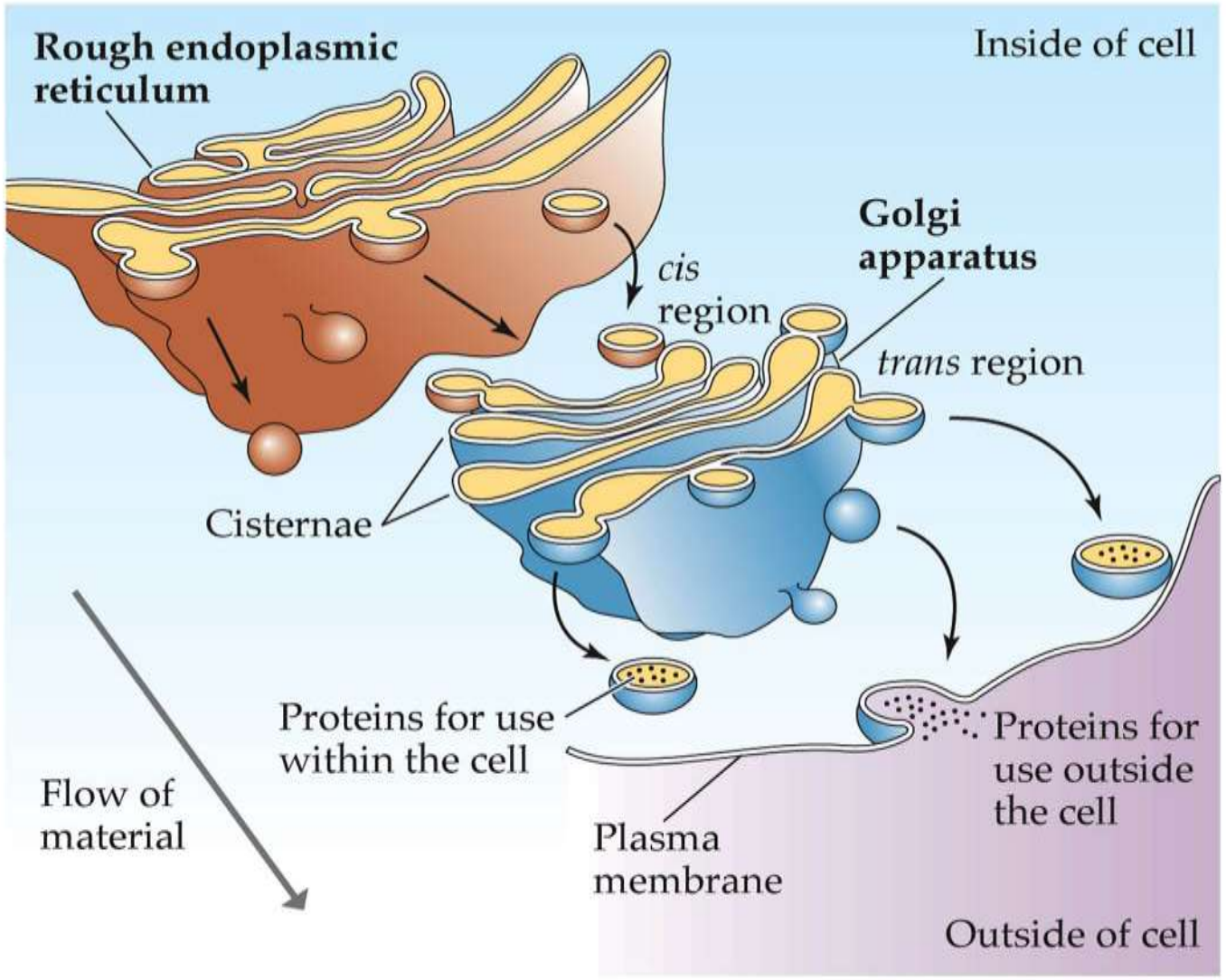


Retículo y aparato de Golgi

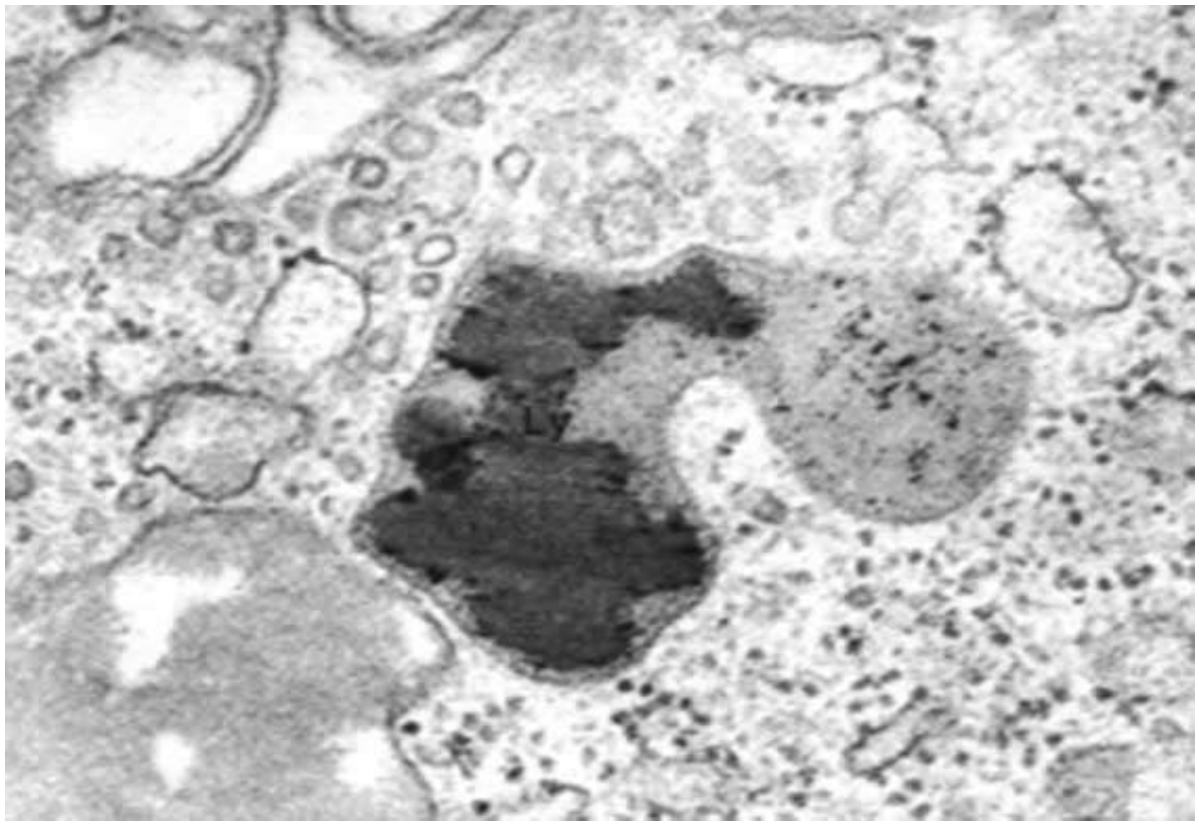


Retículo y aparato de Golgi

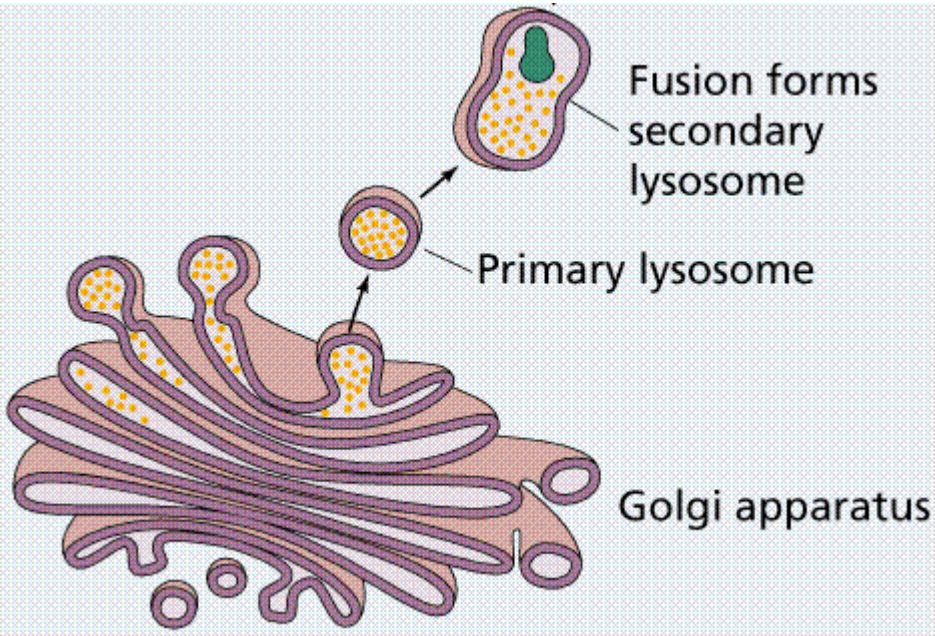


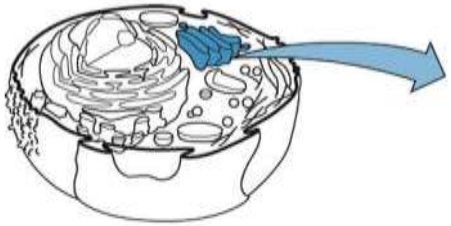


Lisosomas

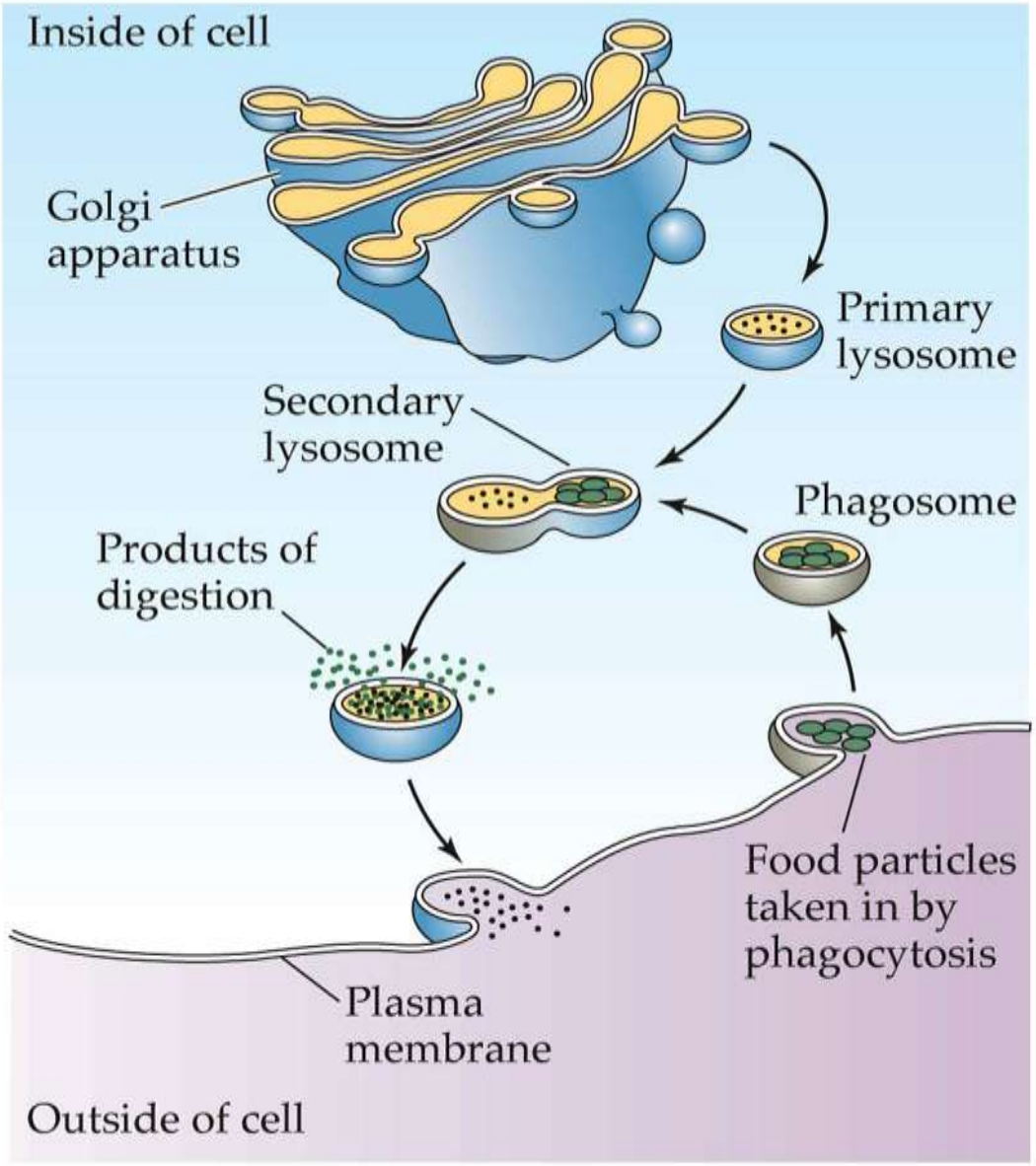


Lisosomas

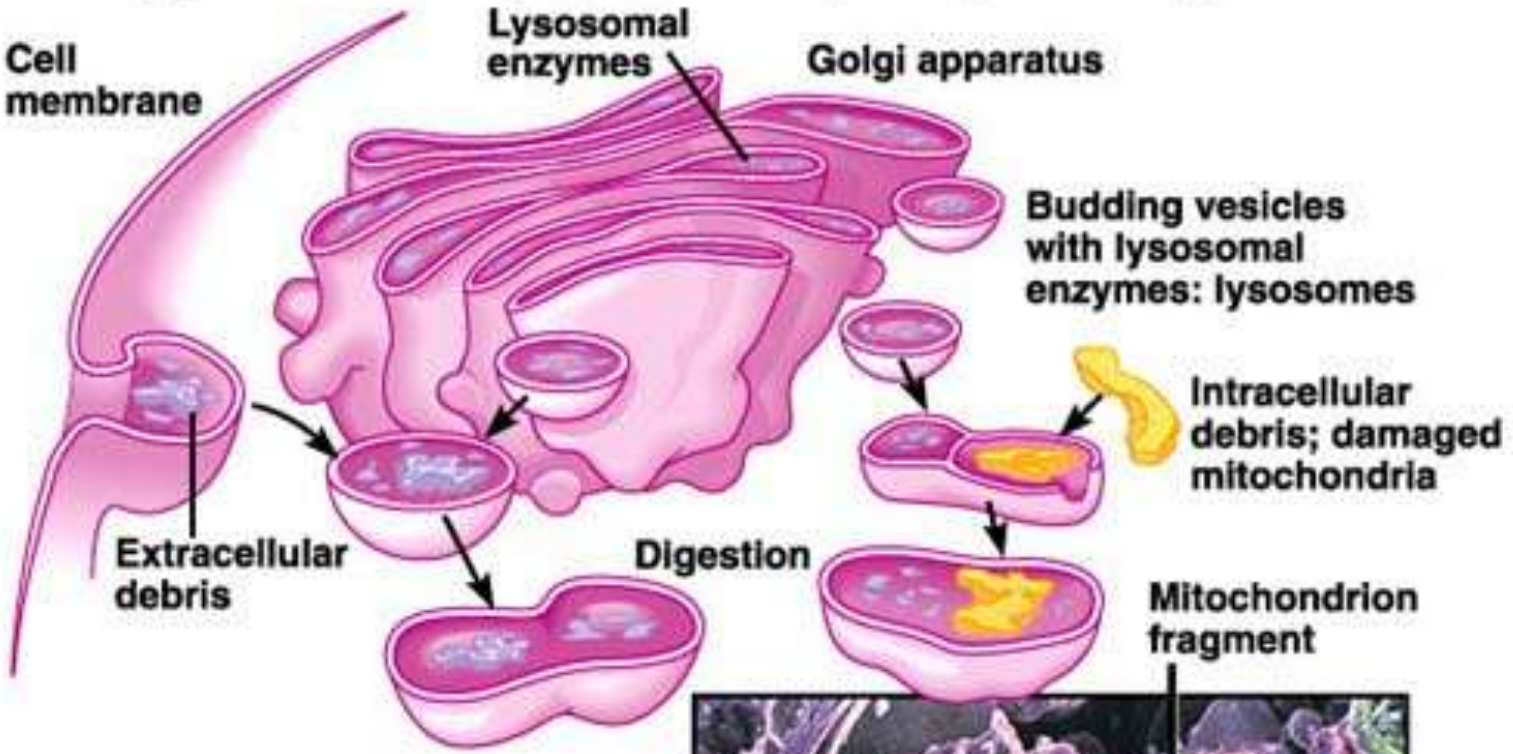

Fusion forms
secondary
lysosome
Primary lysosome
Golgi apparatus



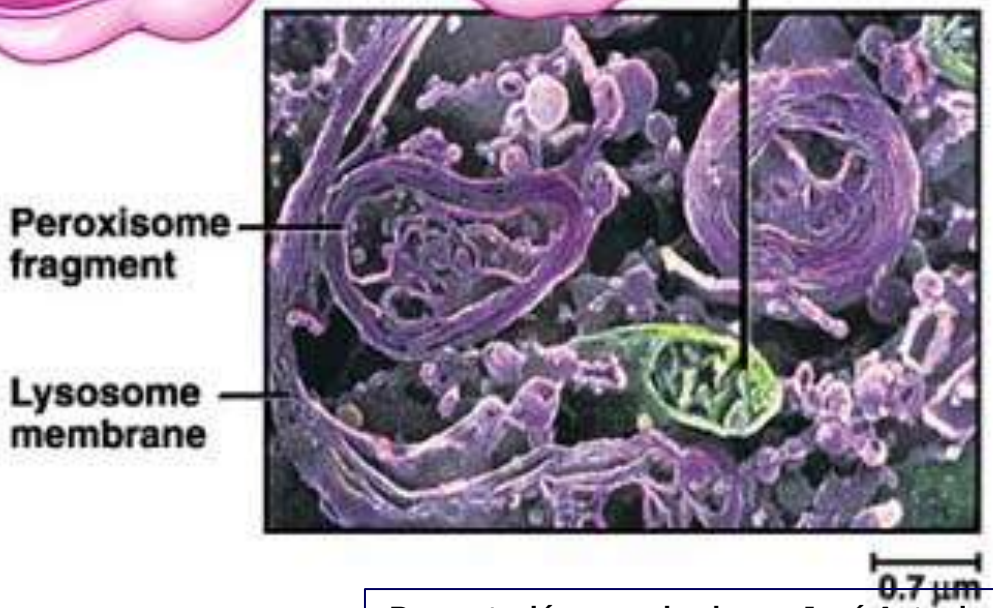
Lisosomas


Inside of cell
Golgi apparatus
Primary lysosome
Secondary lysosome
Phagosome
Products of digestion
Food particles taken in by phagocytosis
Plasma membrane
Outside of cell

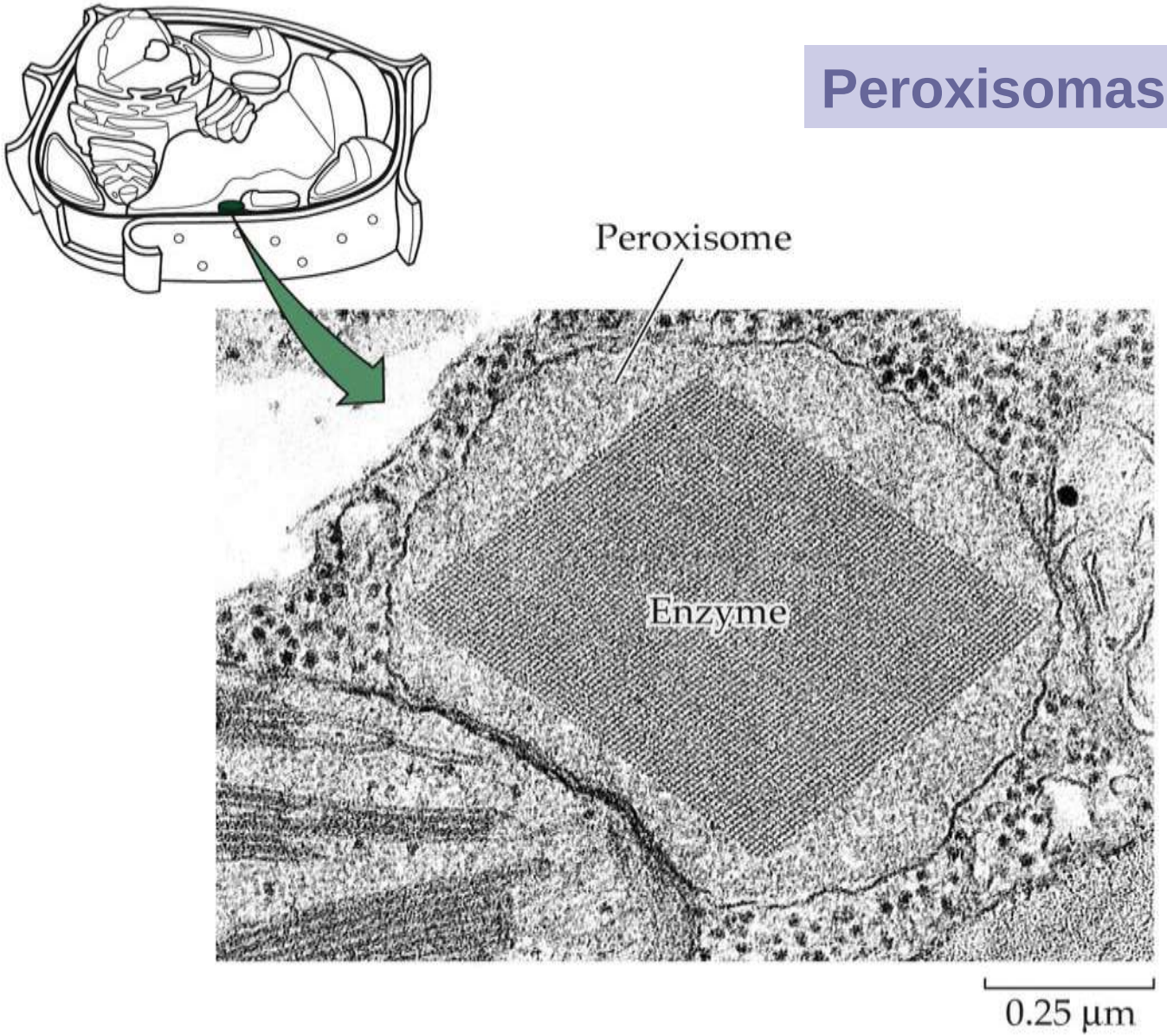
Lisosomas



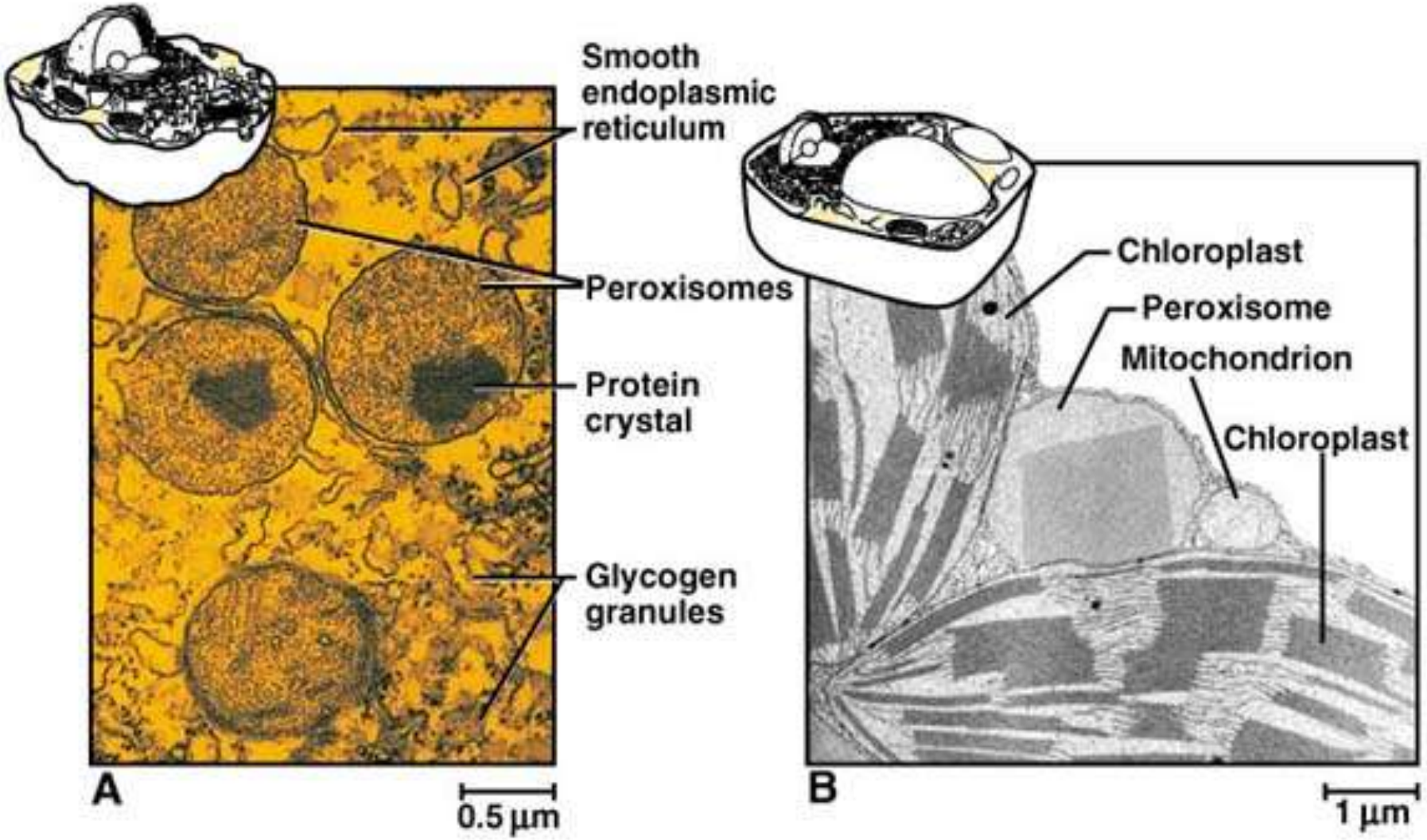
Function of lysosomes



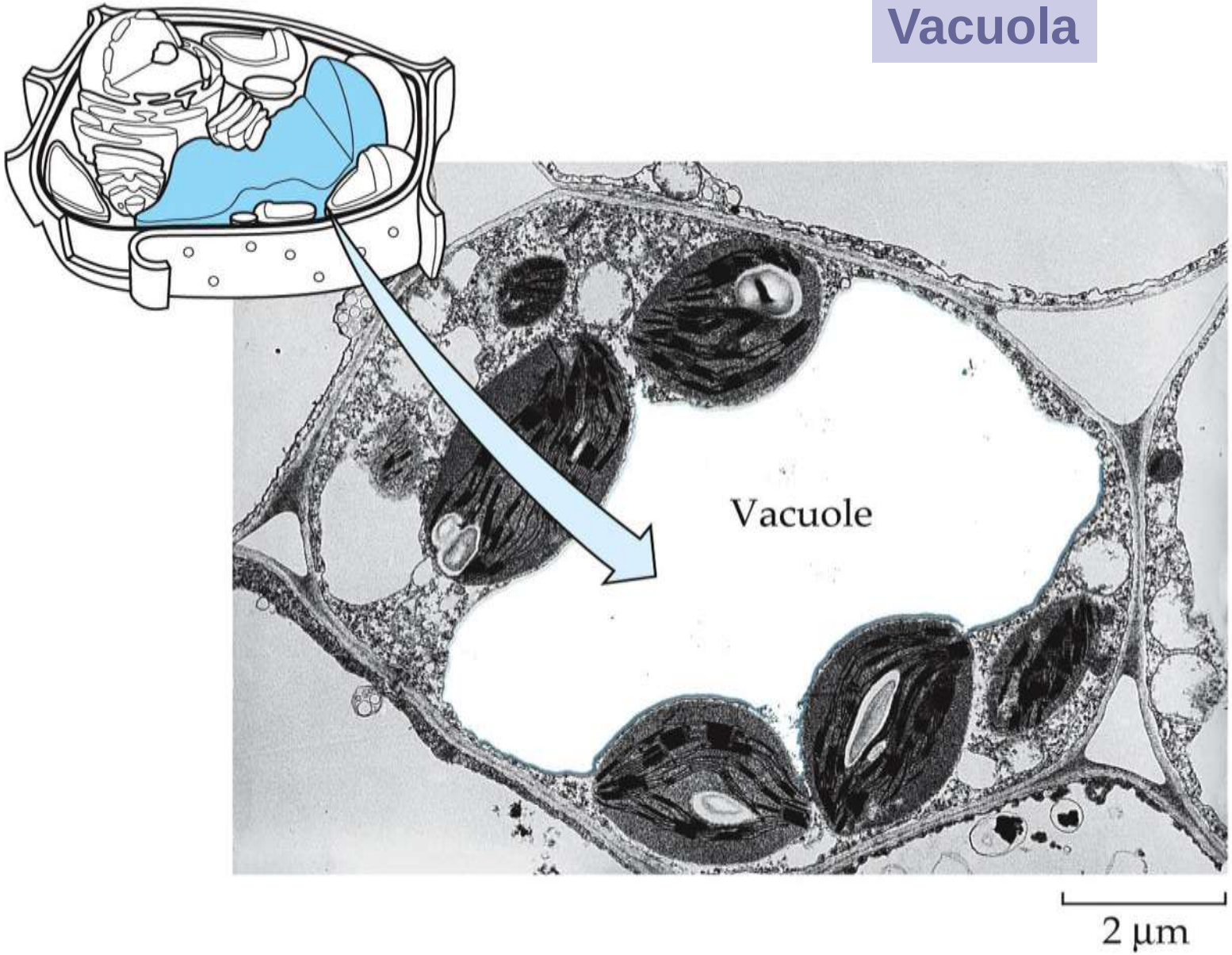
Peroxisomas



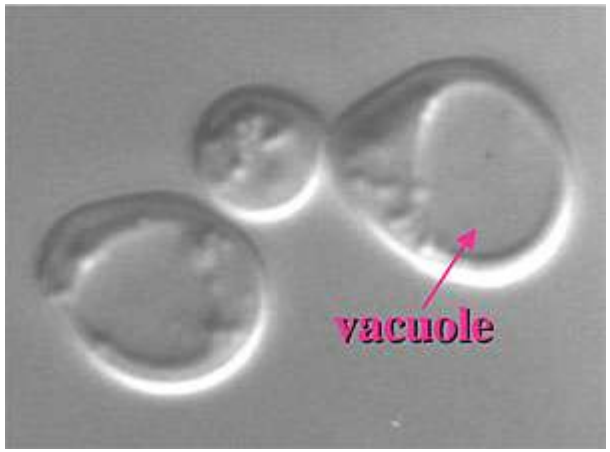
Peroxisomas

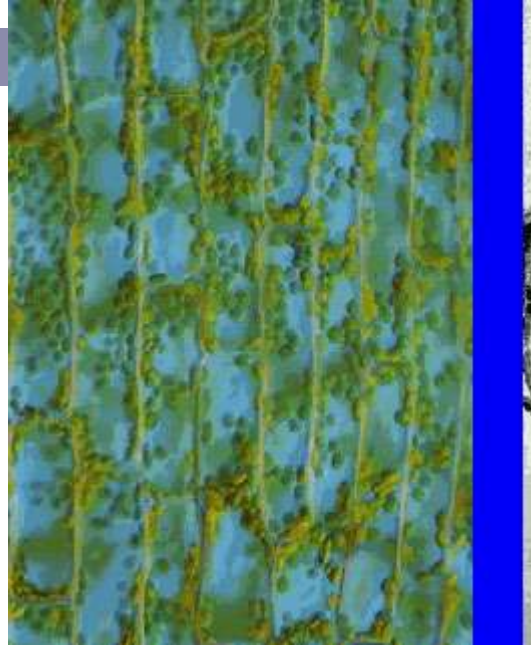


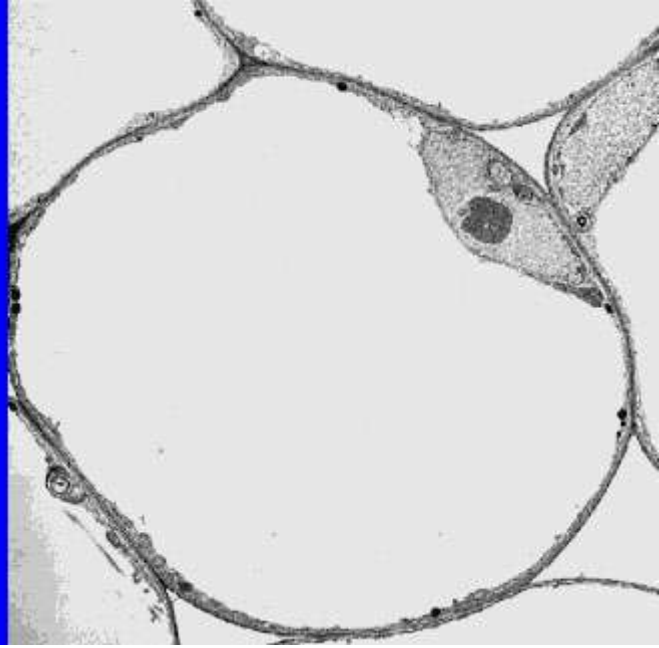
Vacuola

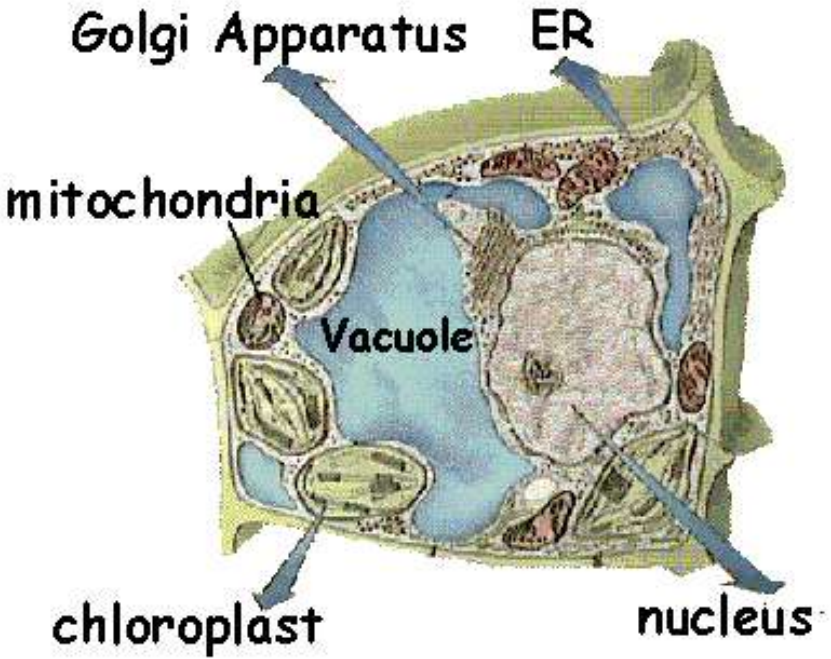


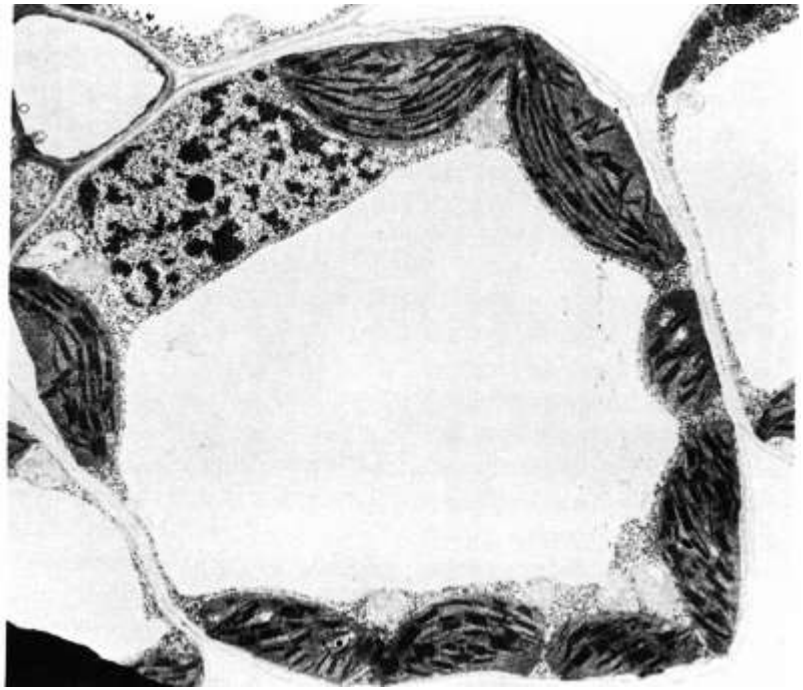
Vacuolas





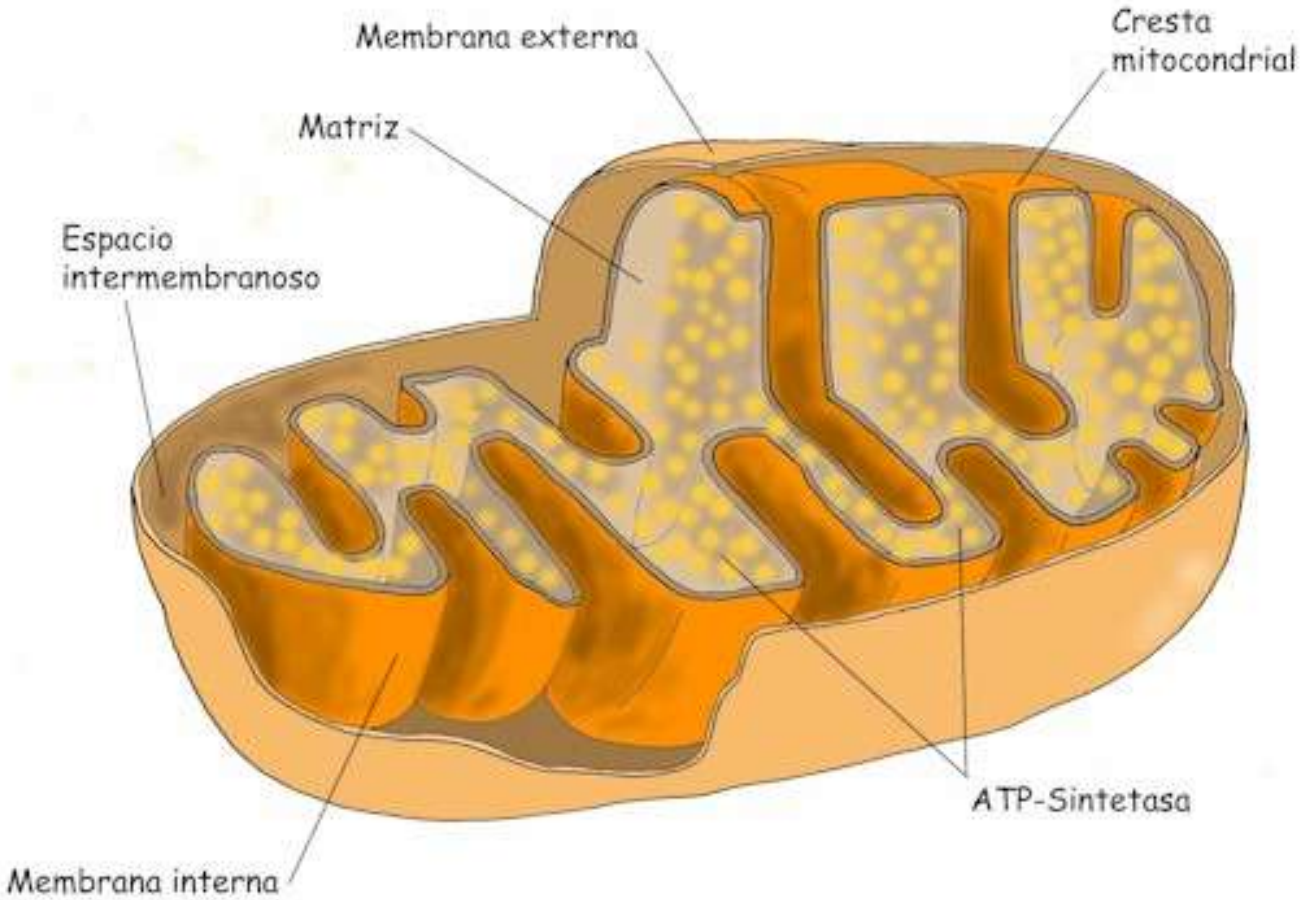


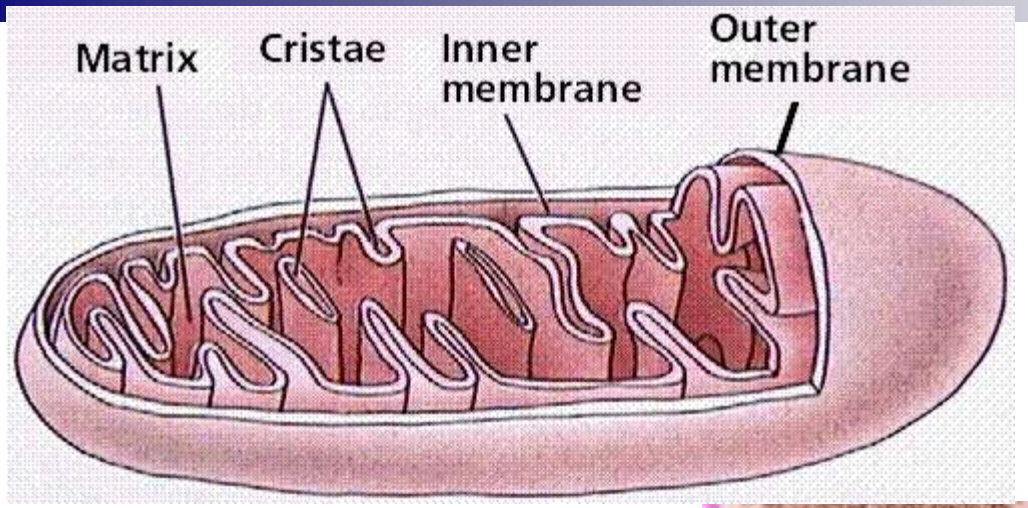


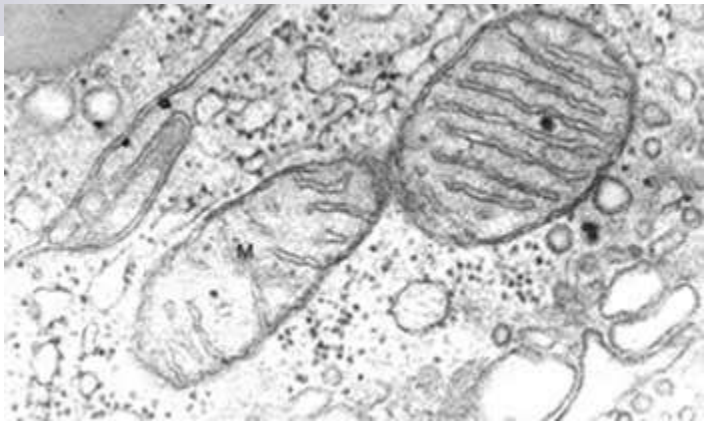


Presentación organizada por José Antonio Pascual Trillo

Mitocondria

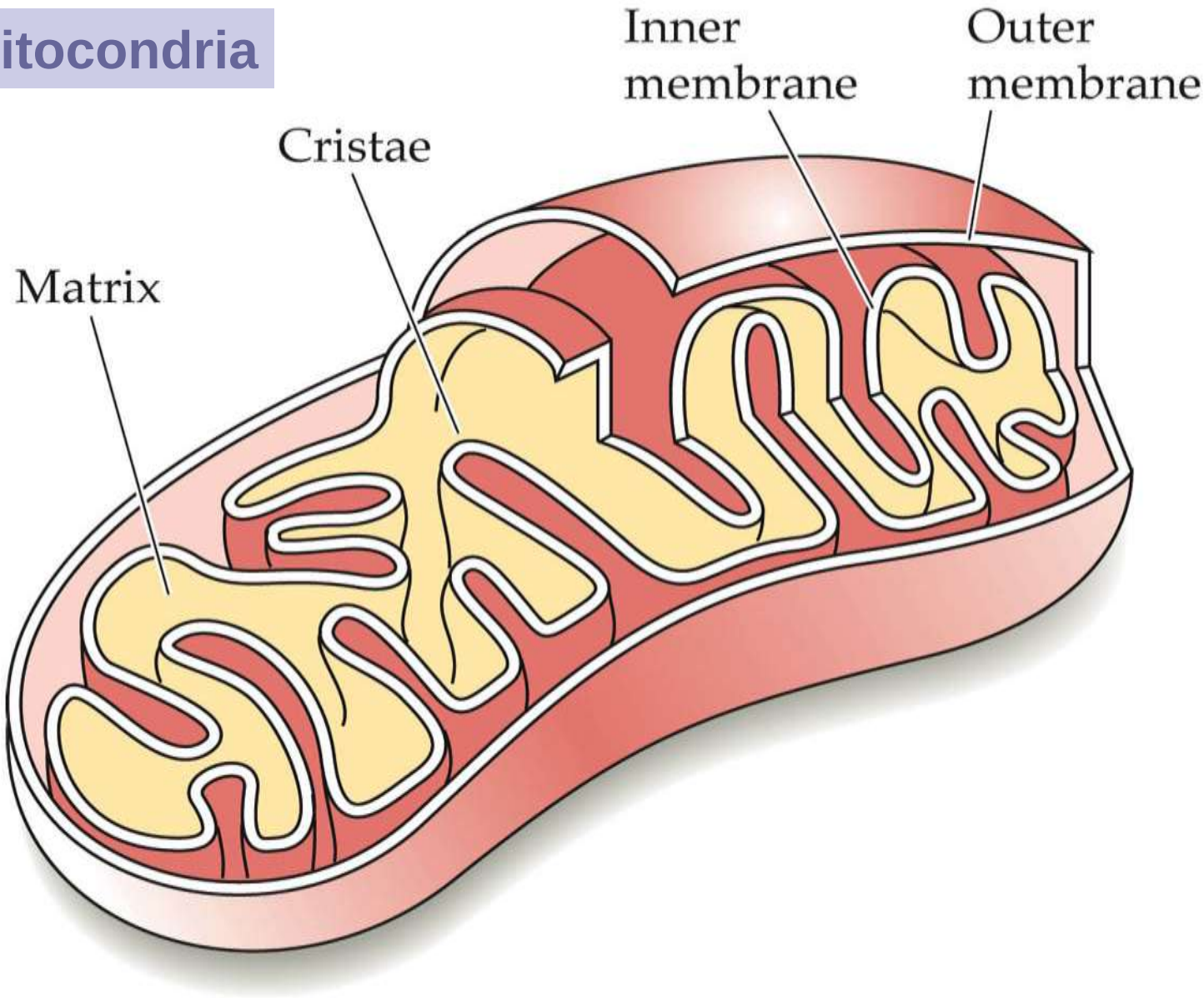




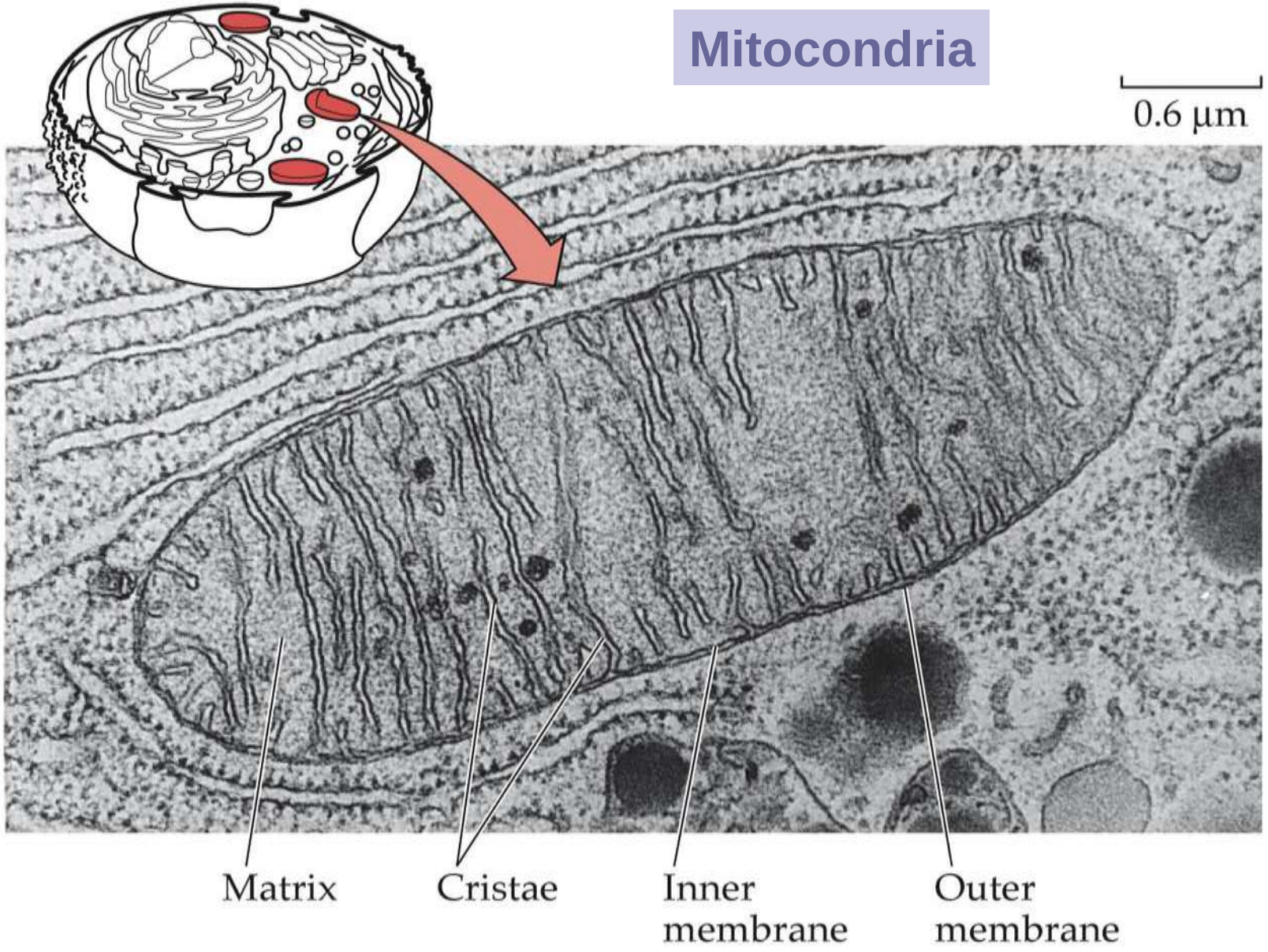


Mitocondria

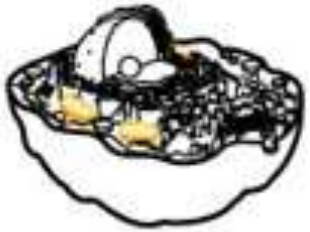
Mitocondria

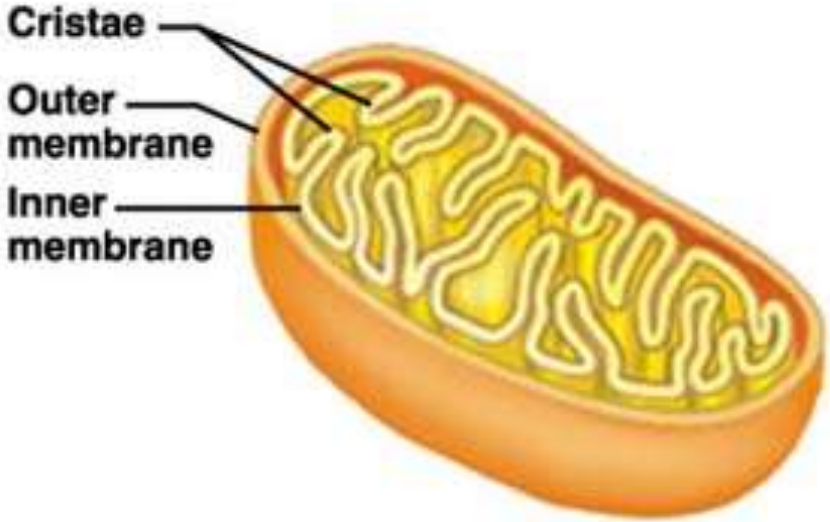


Mitocondria

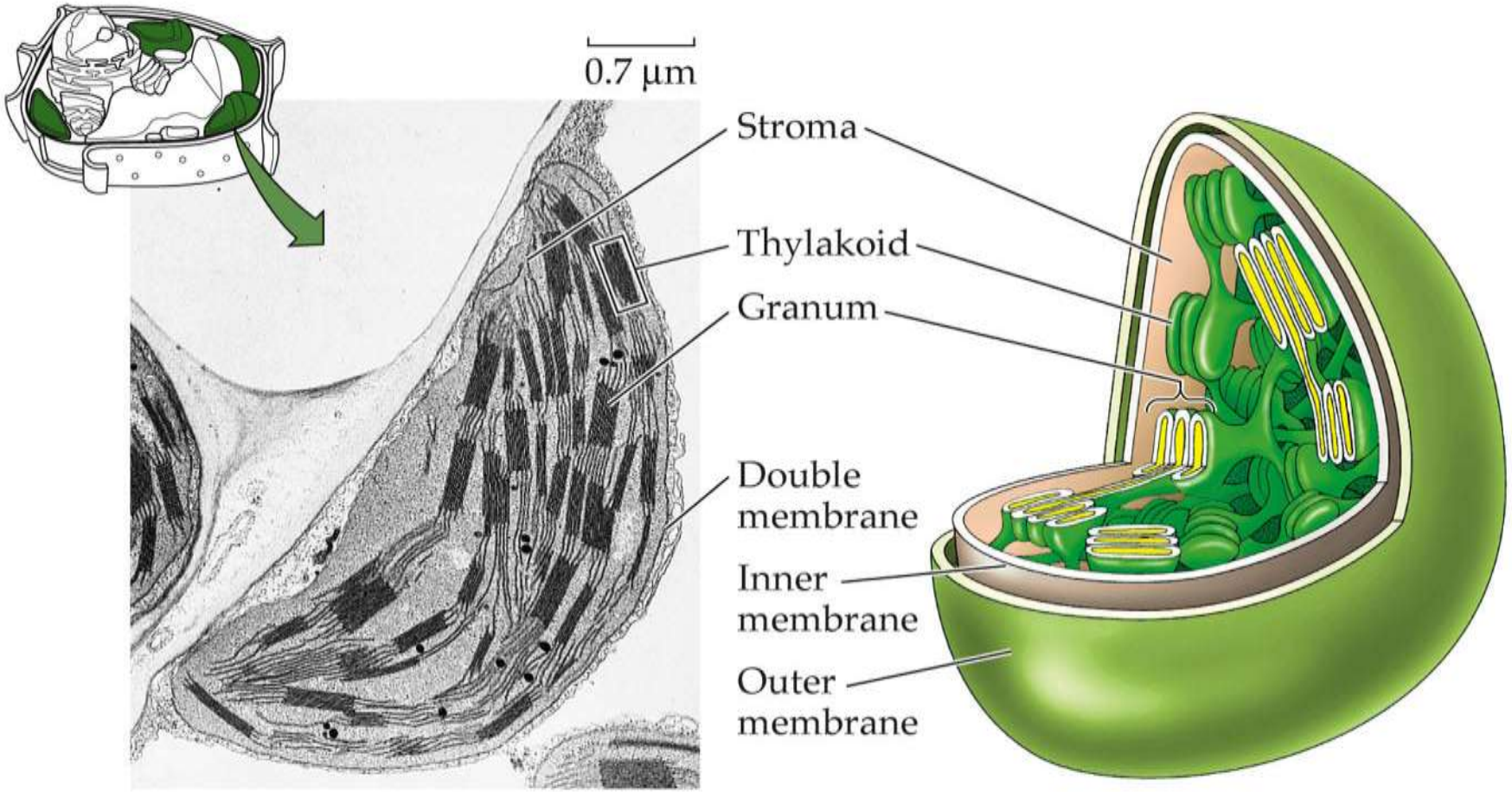


Mitocondria

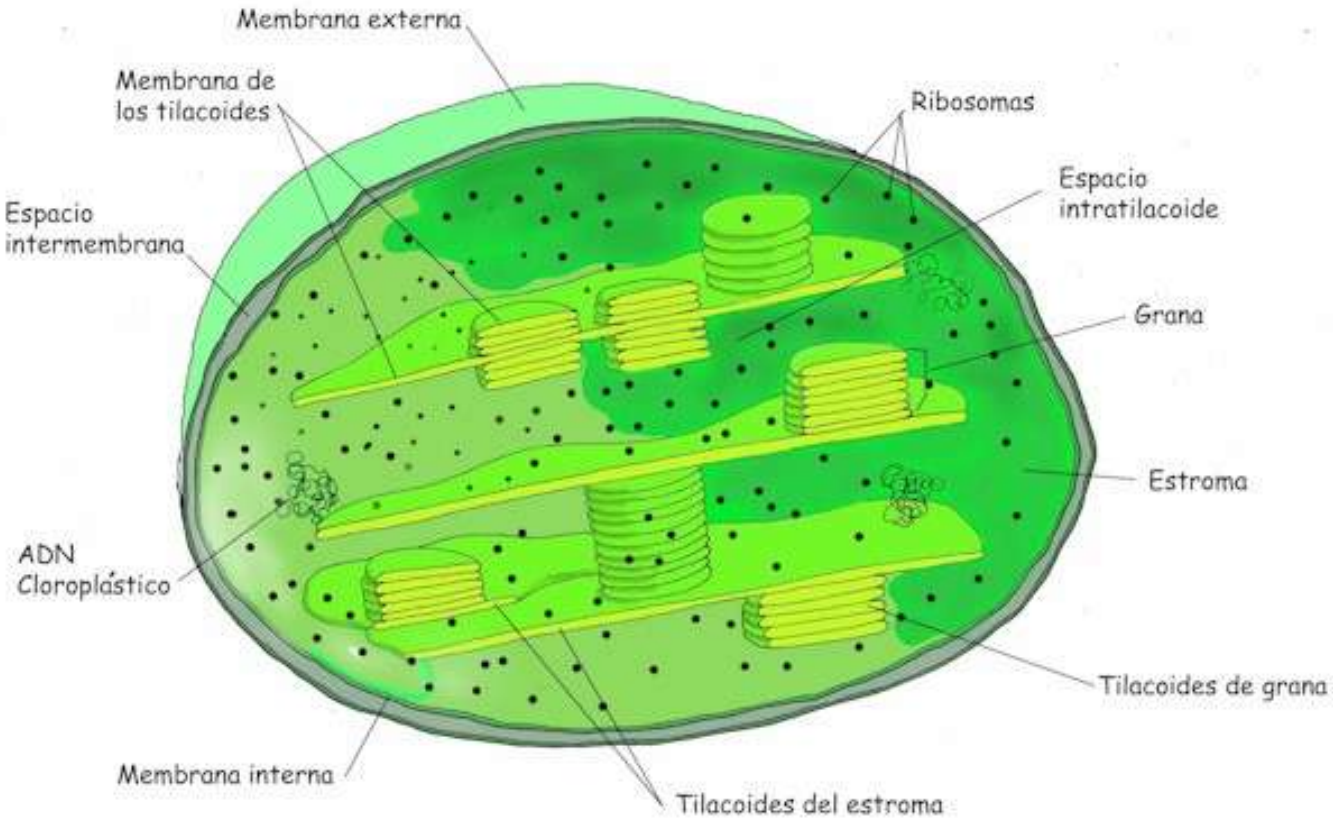




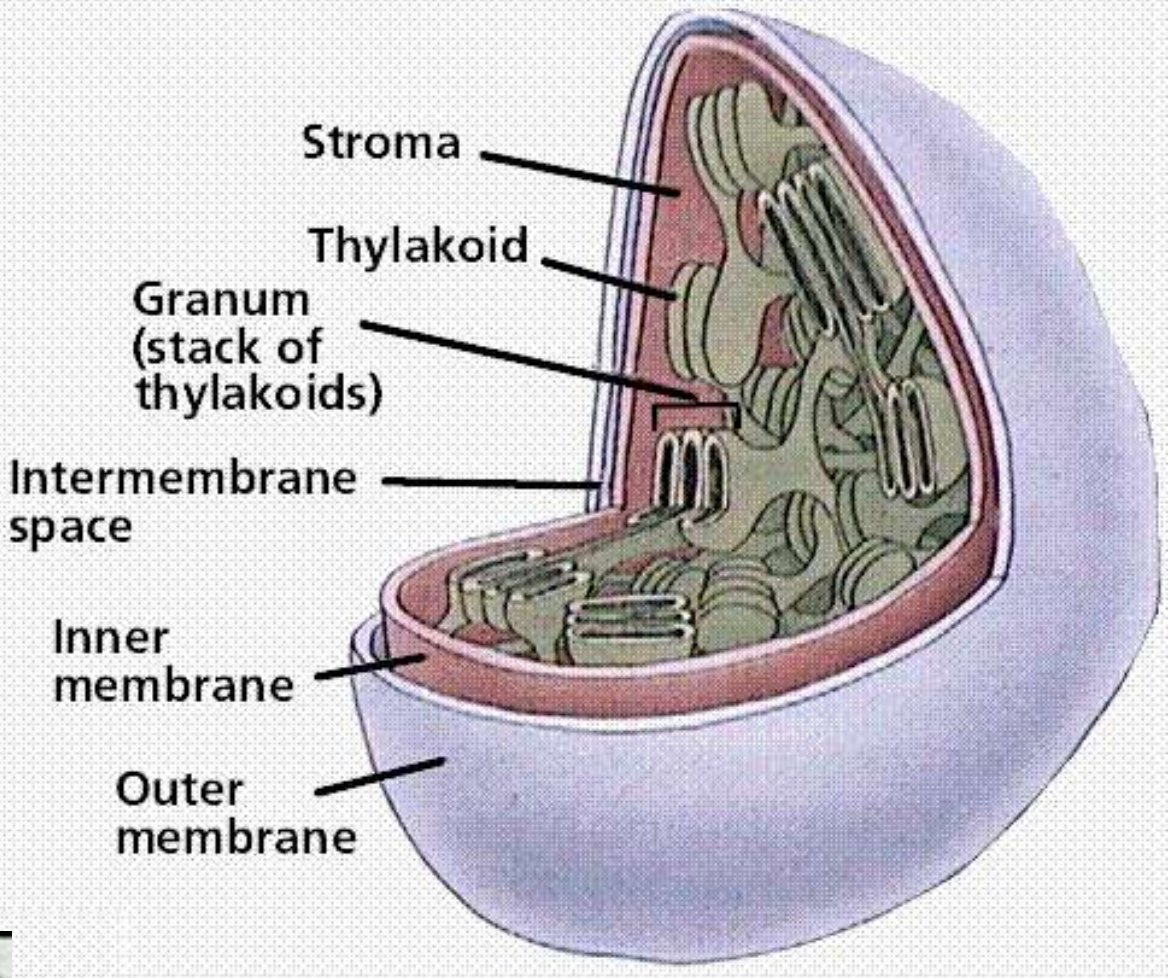
Cloroplastos

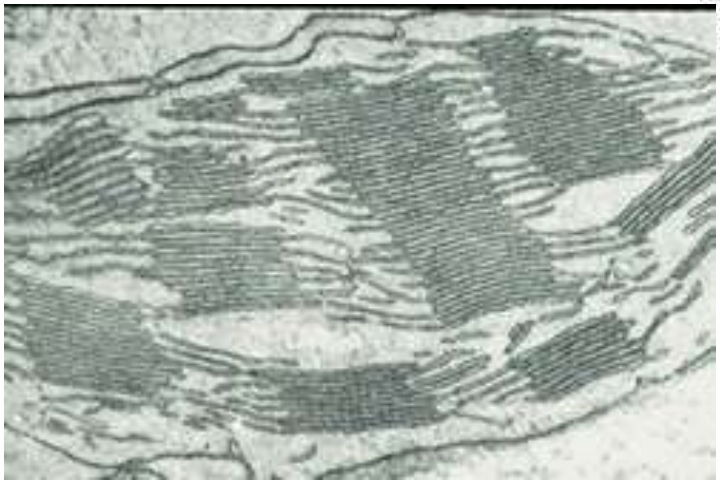


Cloroplastos

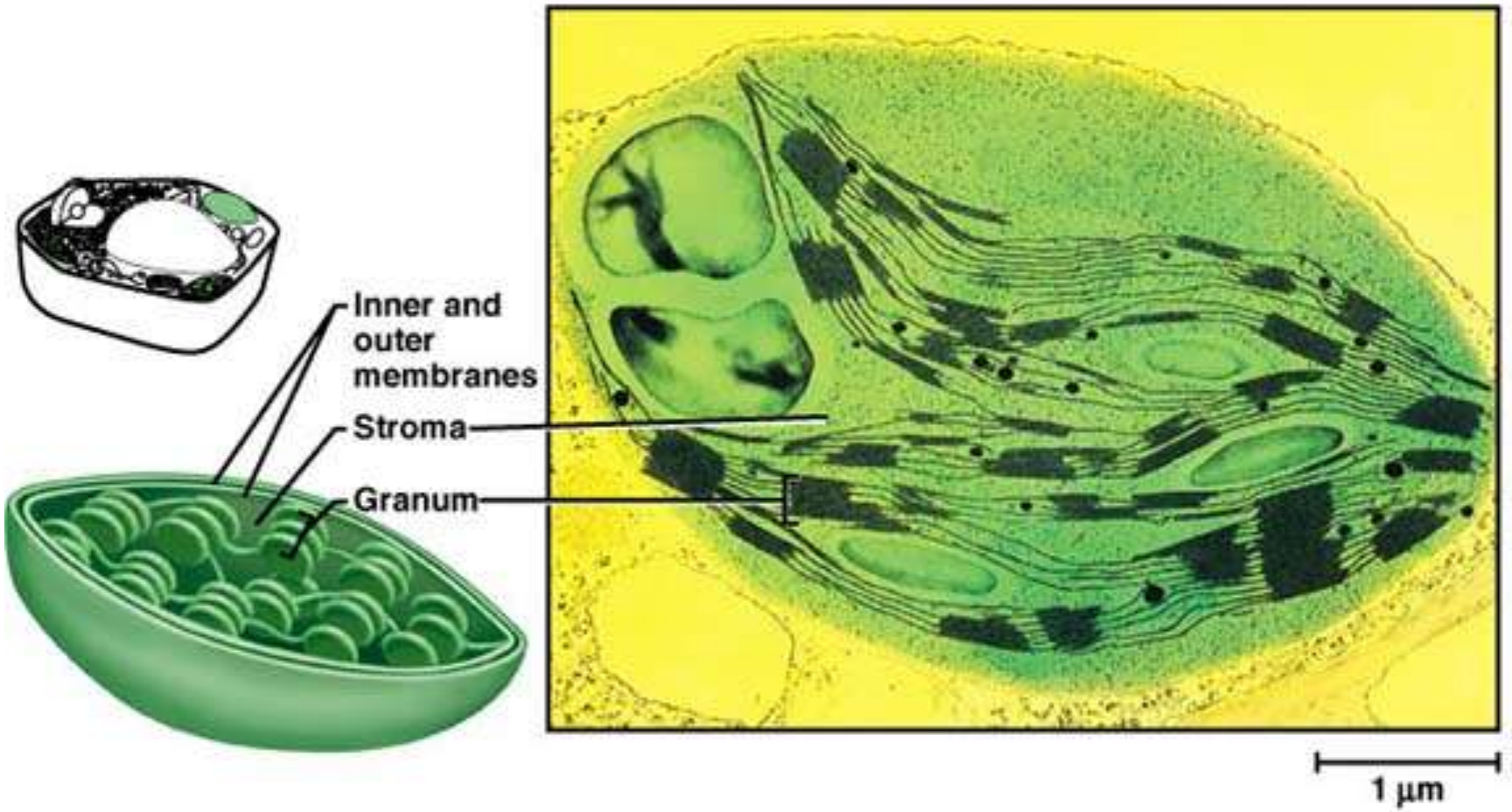


Cloroplastos

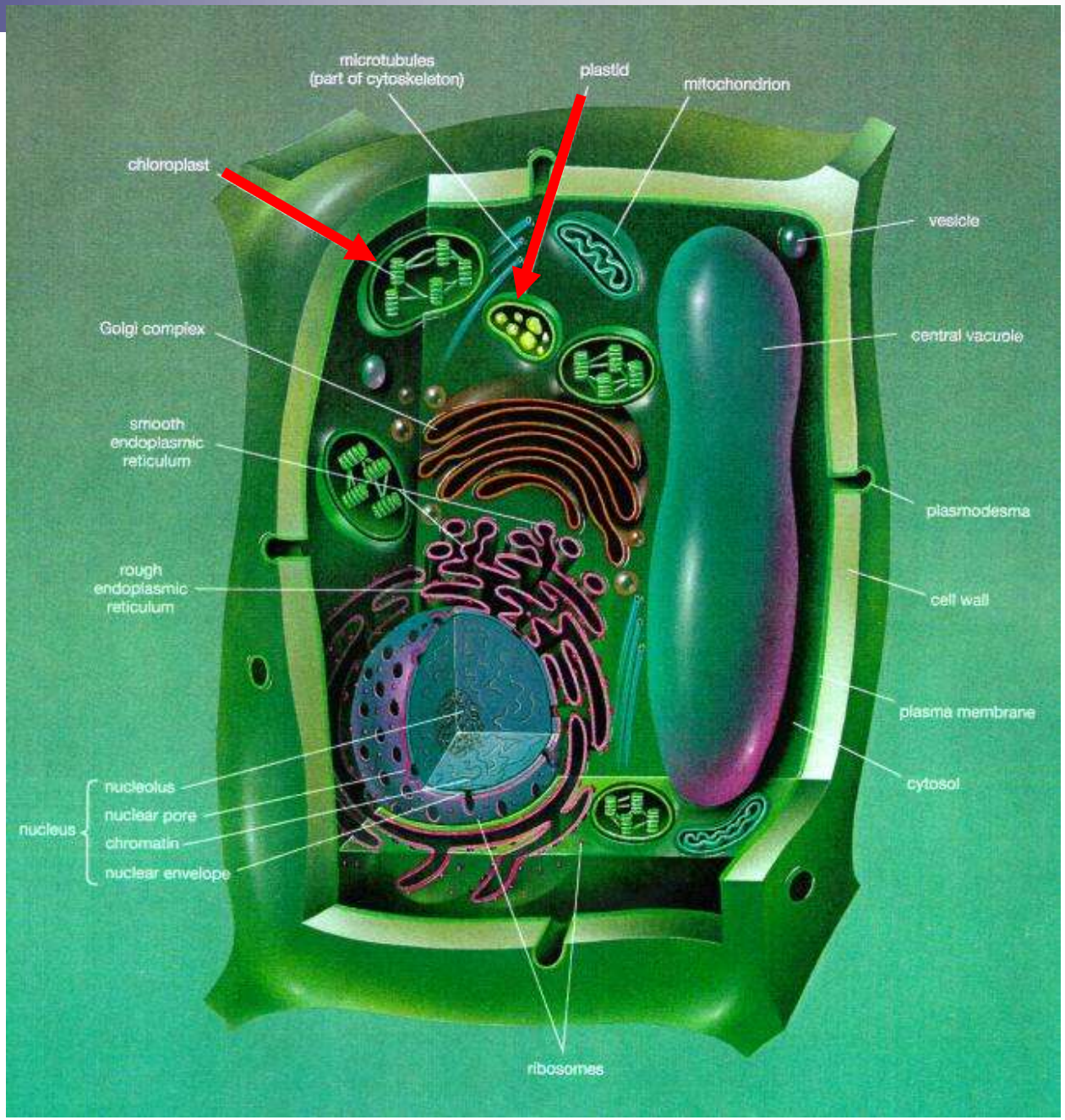


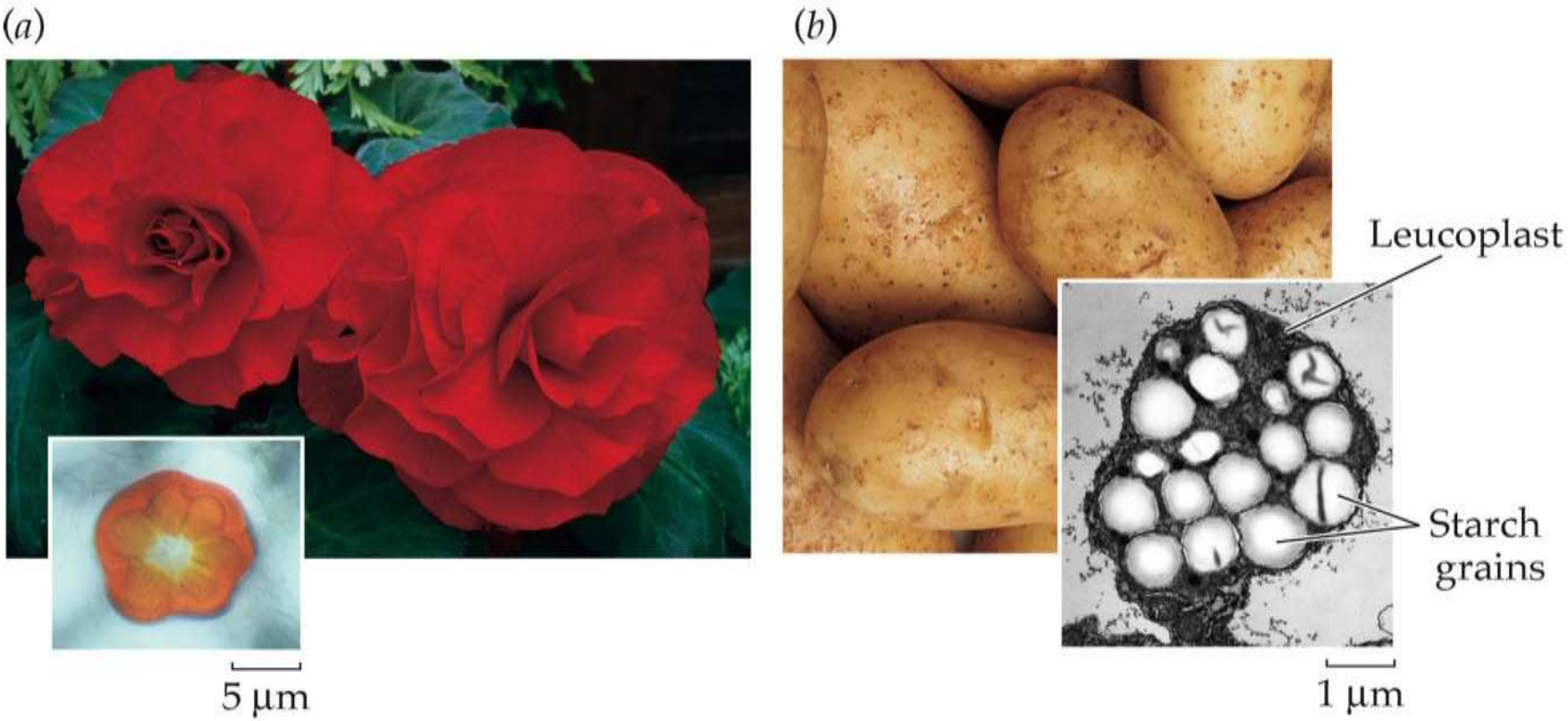


Cloroplastos



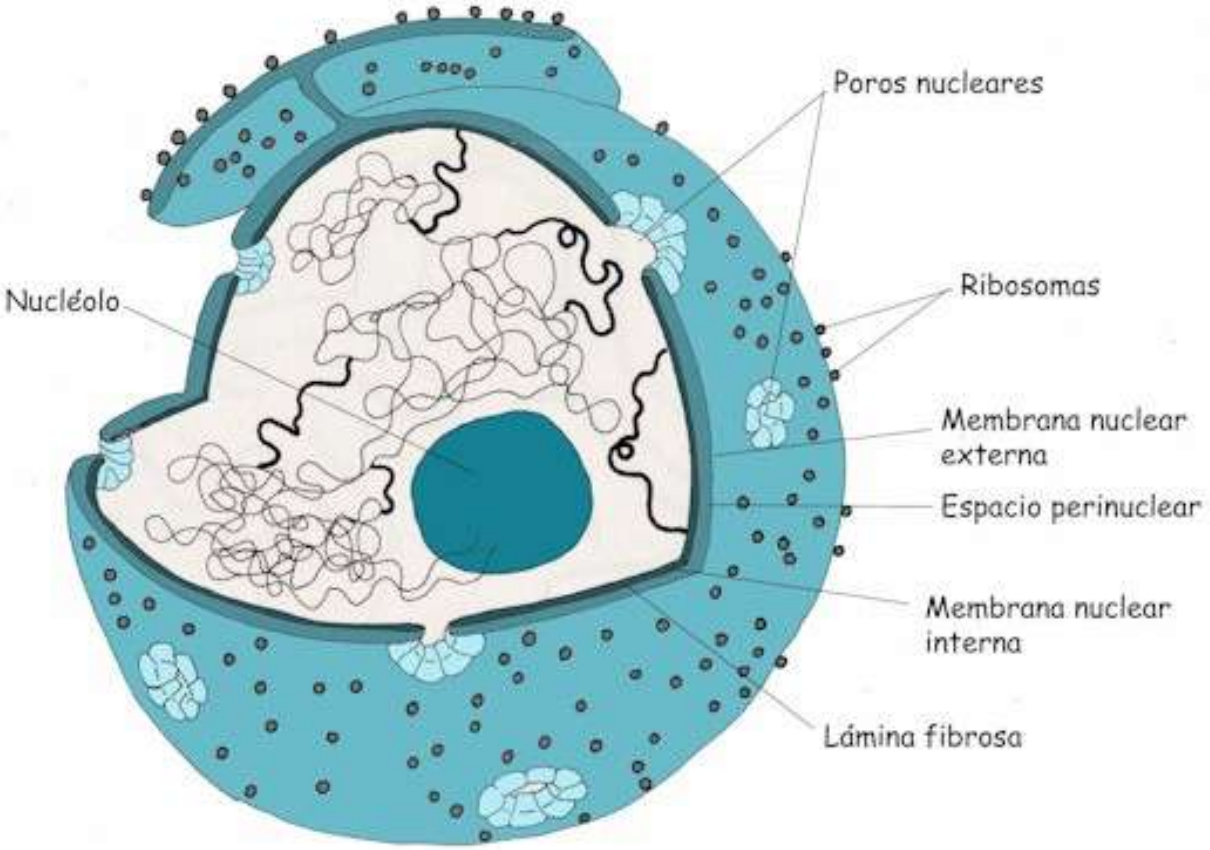
Plastos

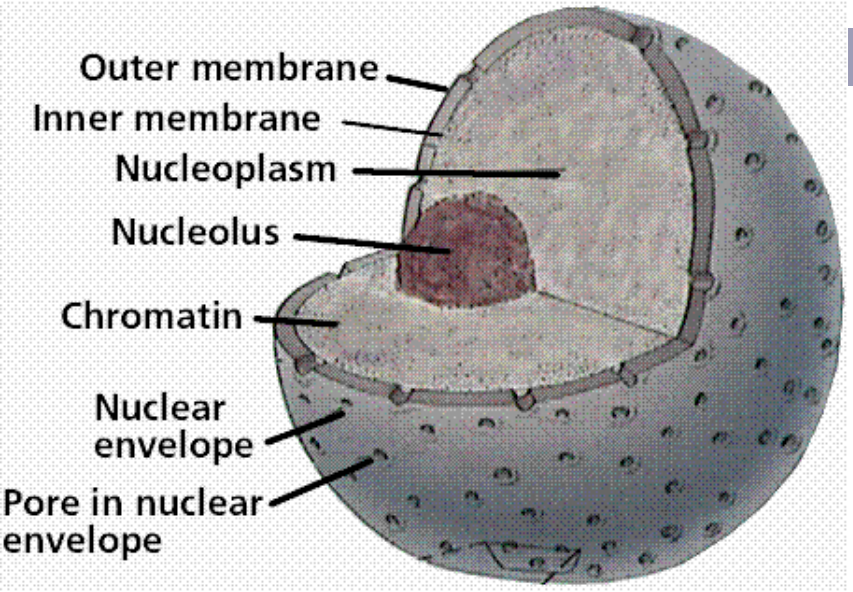

microtubules
(part of cytoskeleton)
plastid
mitochondrion
chloroplast
vesicle
Golgi complex
central vacuole
smooth
endoplasmic
reticulum
plasmodesma
rough
endoplasmic
reticulum
cell wall
plasma membrane
cytosol
nucleus
nucleolus
nuclear pore
chromatin
nuclear envelope
ribosomes

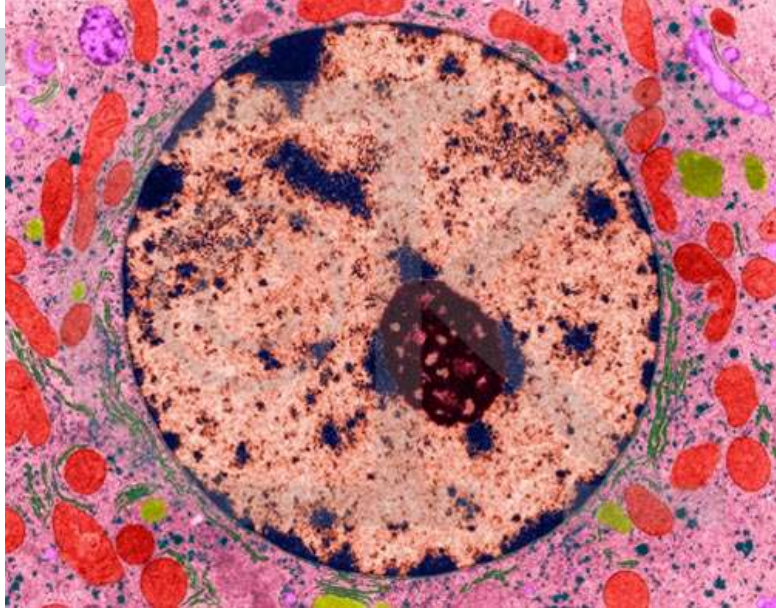


Plastos (cromo y leuco)

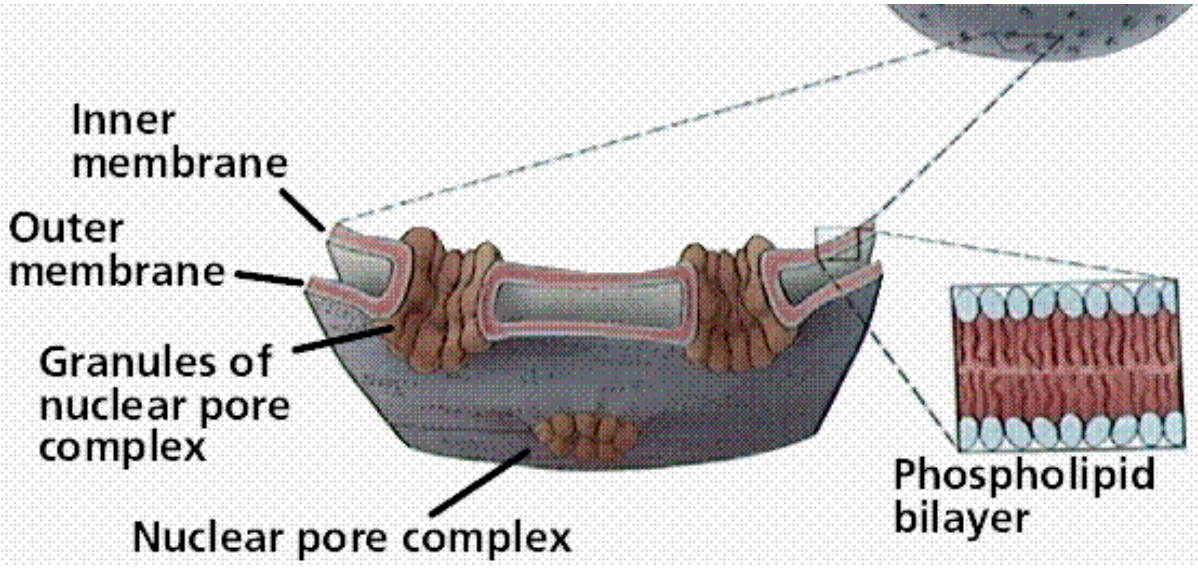
Núcleo


Poros nucleares
Ribosomas
Nucléolo
Membrana nuclear externa
Espacio perinuclear
Membrana nuclear interna
Lámina fibrosa

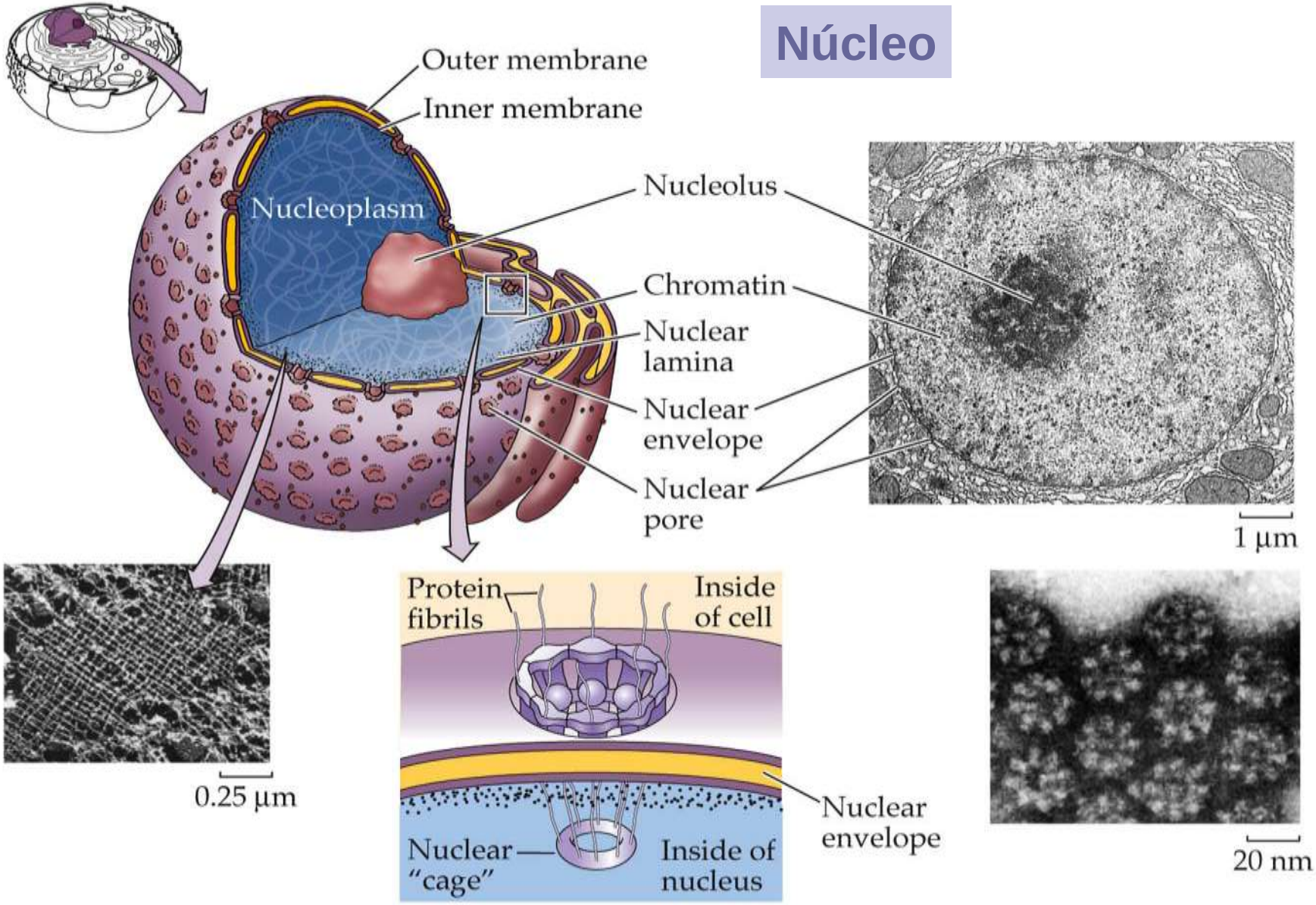

Outer membrane
Inner membrane
Nucleoplasm
Nucleolus
Chromatin
Nuclear envelope
Pore in nuclear envelope



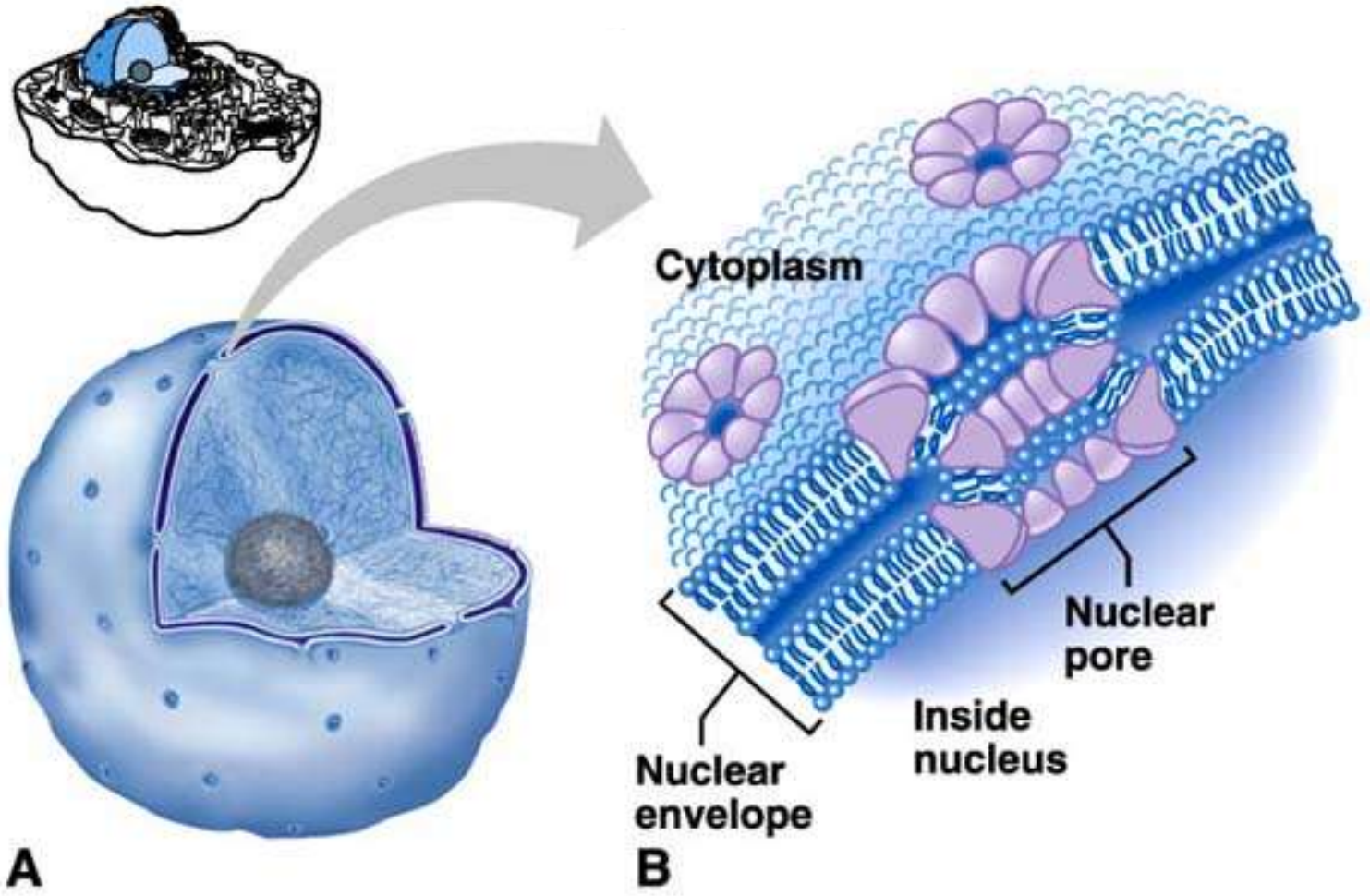
Núcleo

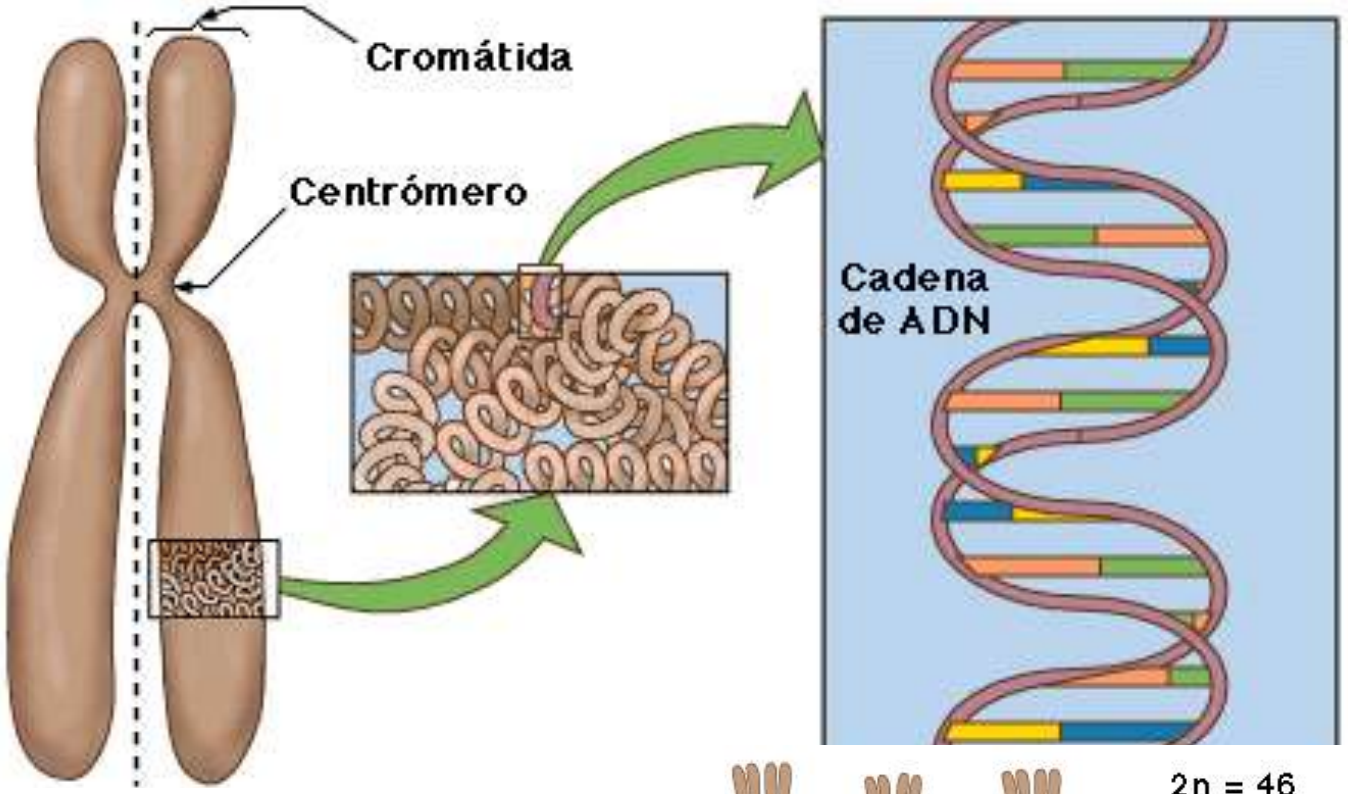

Inner membrane
Outer membrane
Granules of nuclear pore complex
Nuclear pore complex
Phospholipid bilayer

Núcleo

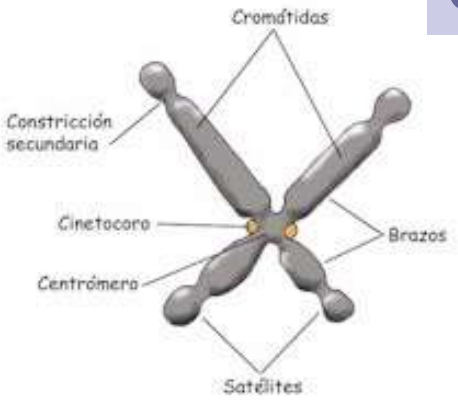

Outer membrane
Inner membrane
Nucleoplasm
Nucleolus
Chromatin
Nuclear lamina
Nuclear envelope
Nuclear pore
1 µm
0.25 µm
Protein fibrils
Inside of cell
Nuclear envelope
Nuclear "cage"
Inside of nucleus
20 nm

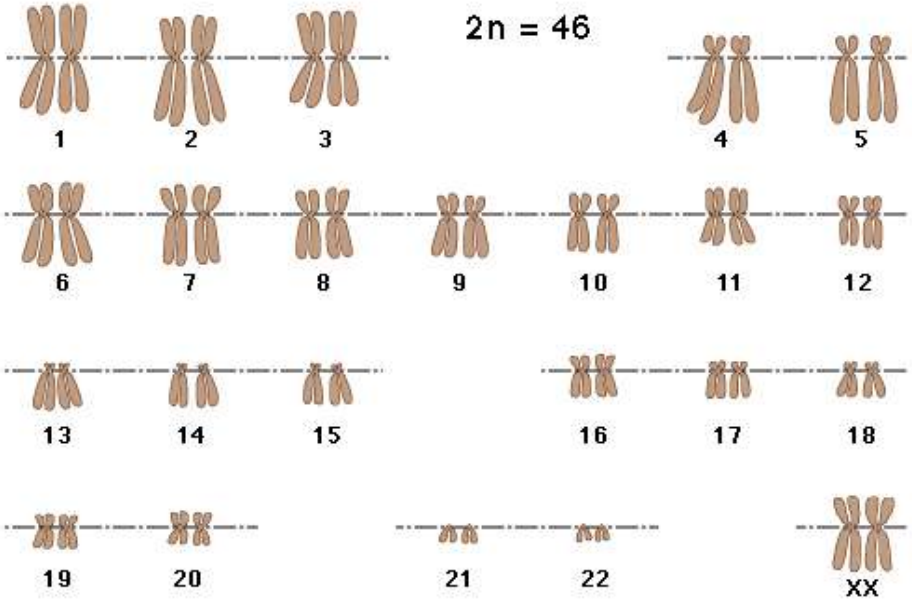
Núcleo


Cytoplasm
Nuclear pore
Inside nucleus
Nuclear envelope
A
B



Cromosomas





Presentación organizada por José Antonio Pascual Trillo