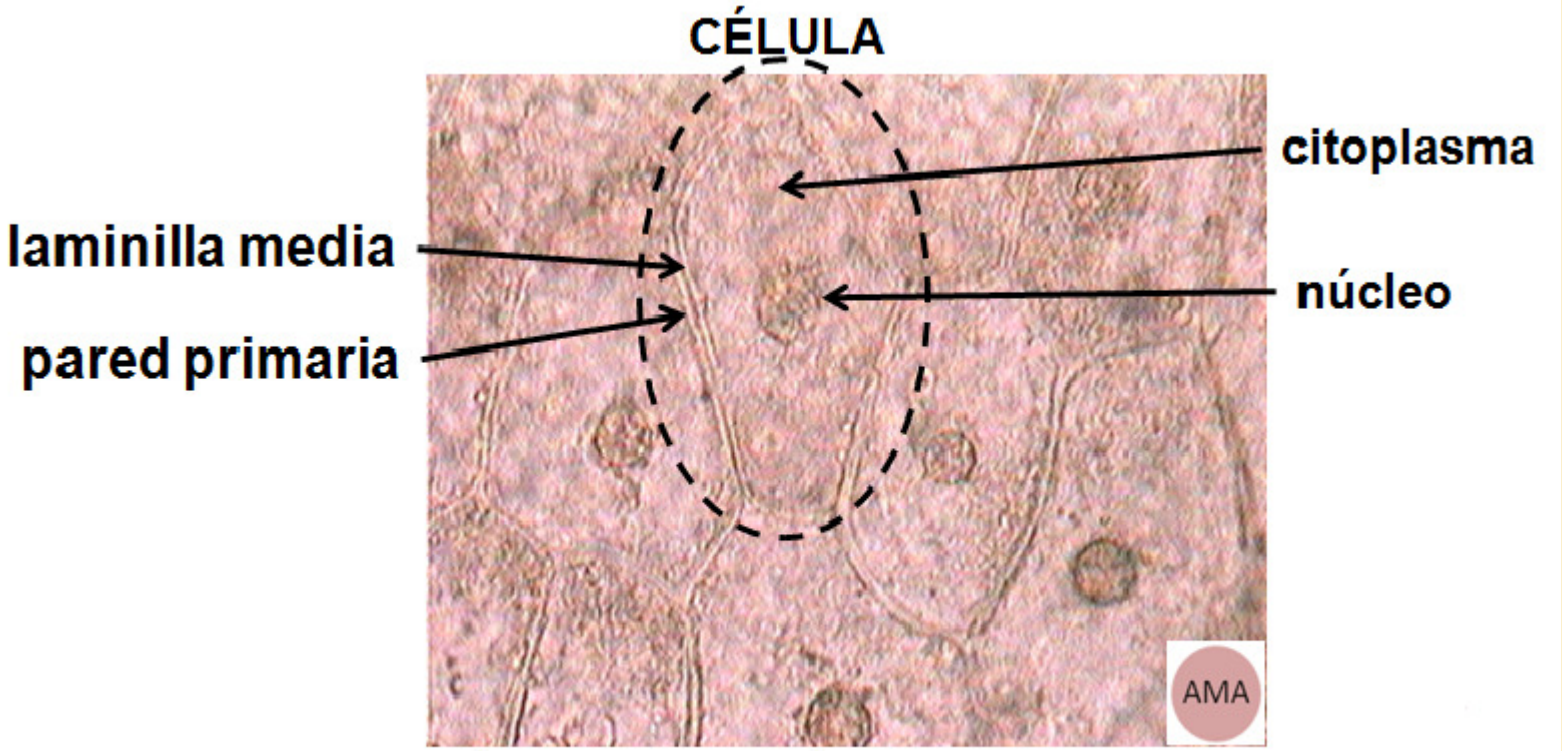
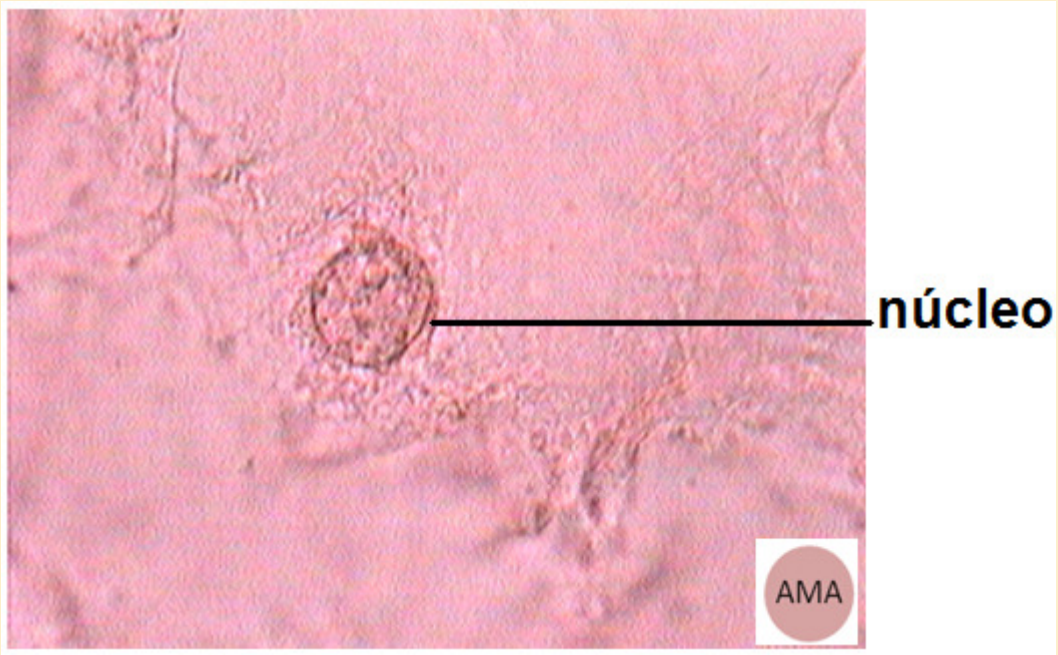
LA CÉLULA

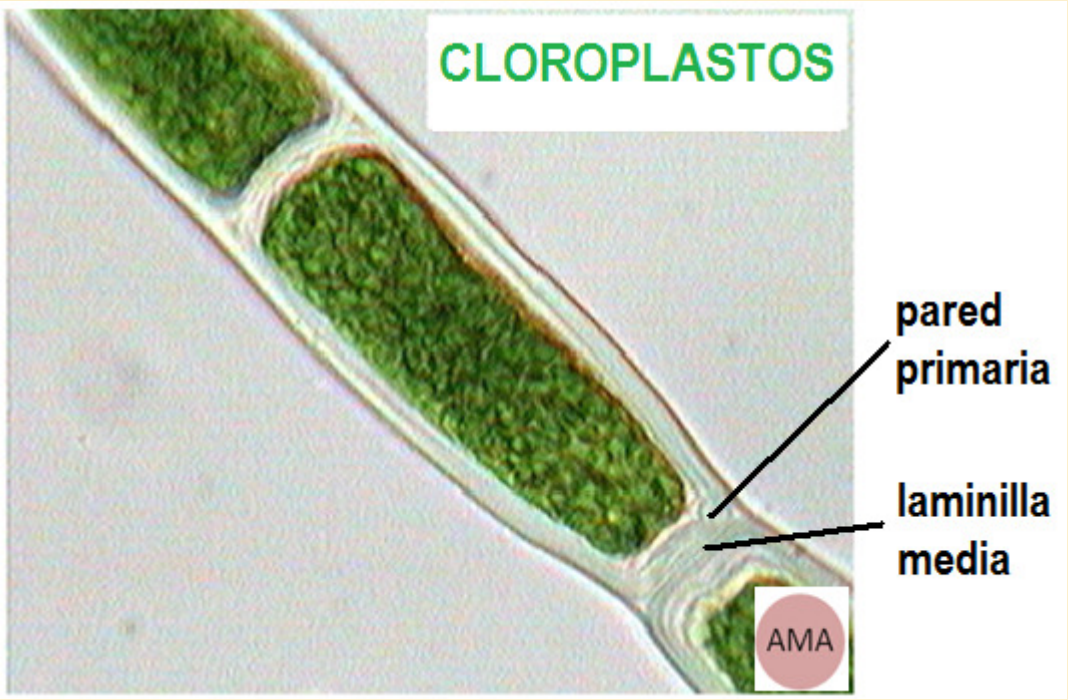


CÉLULAS DE PARÉNQUIMA EN FRUTO DE Huevito de gallo *Salpichroa origanifolia* Lam.

CÉLULA VIVA
núcleo

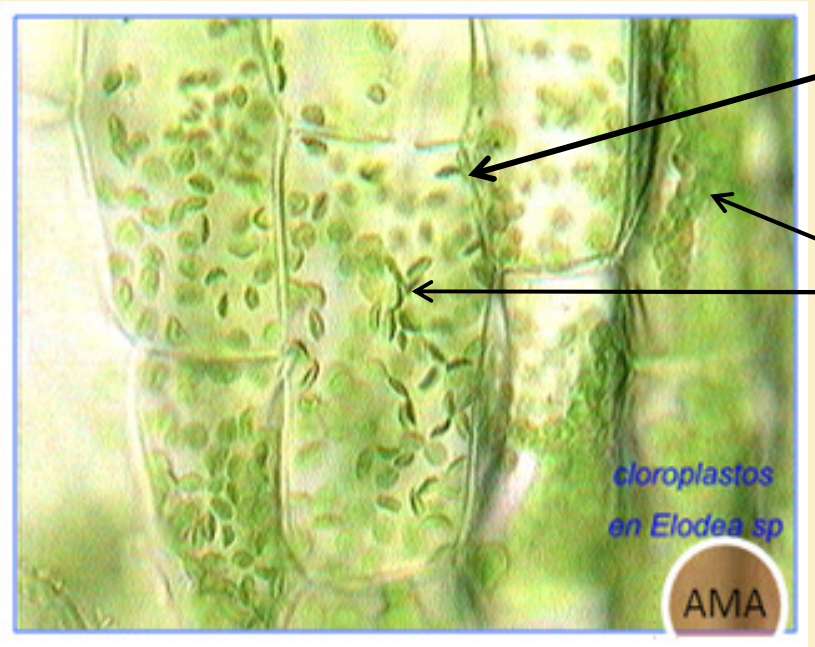


CÉLULA VIVA
cloroplastos



Cadena de células fotosintetizadoras

CÉLULA VIVA
cloroplastos

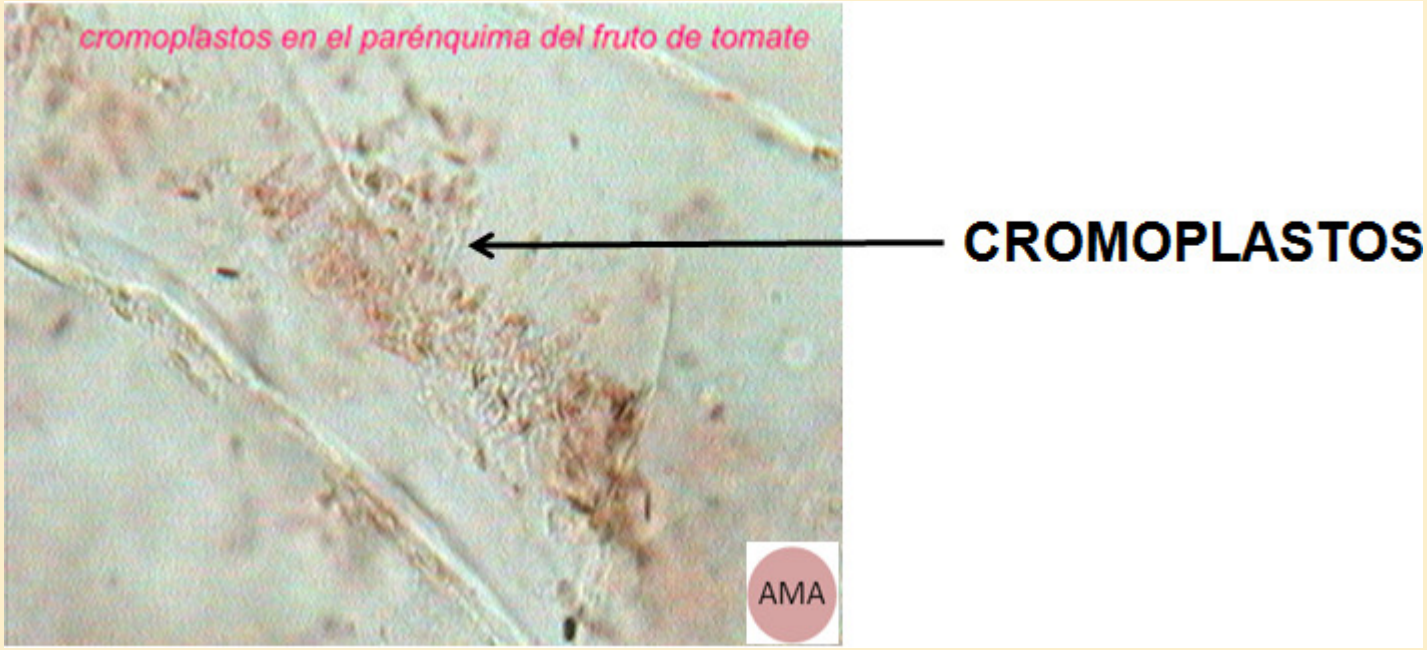


PARED CELULAR

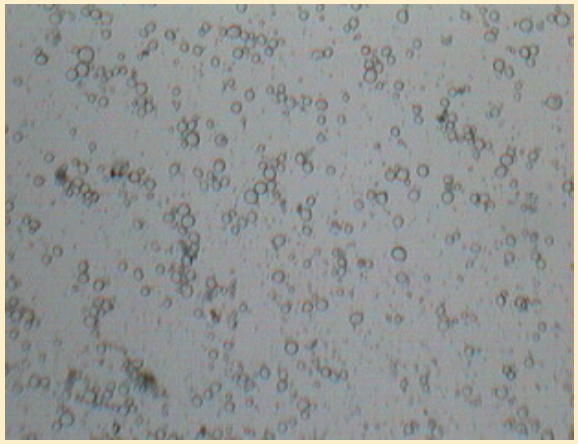
CLOROPLASTOS

Células fotosintetizadoras en *Elodea* sp.

CÉLULA VIVA
cromoplastos

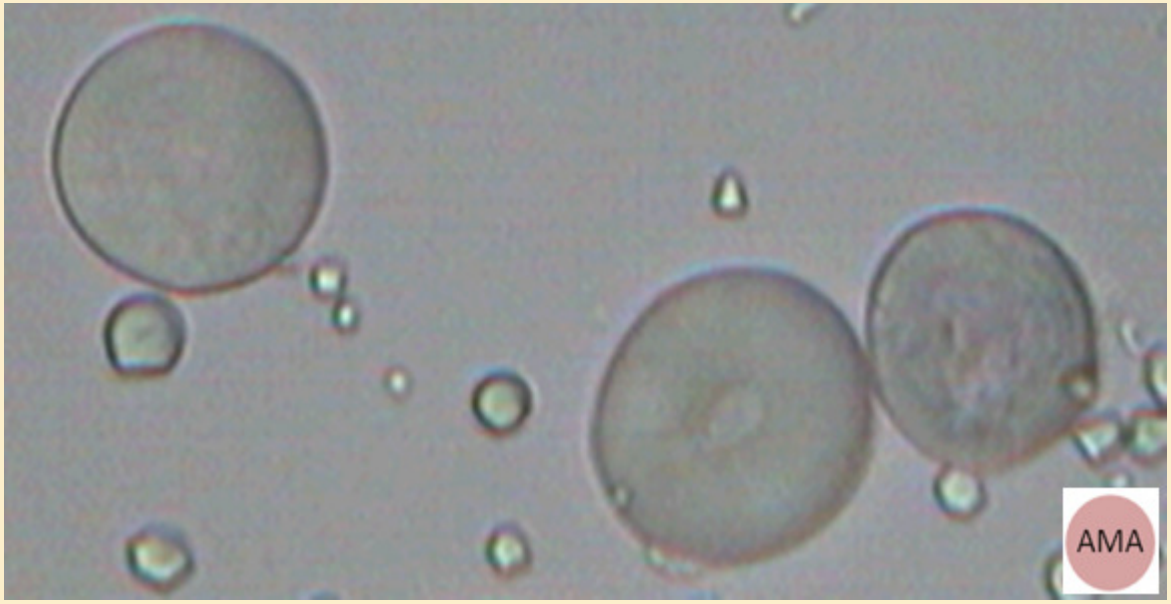


CÉLULA VIVA - AMILOPLASTOS

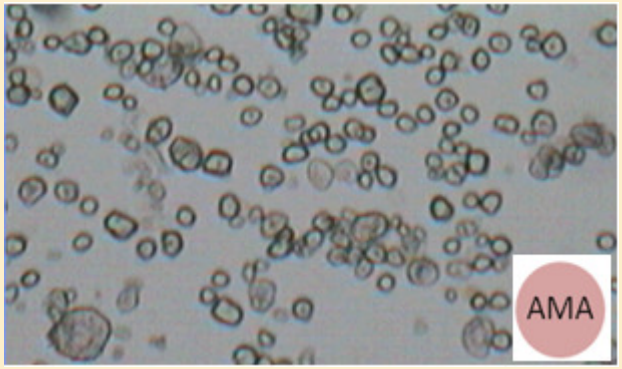


GRANO DE ALMIDÓN DE TRIGO
Triticum aestivum L.

SIMPLE CÉNTRICO CON
HILO CIRCULAR

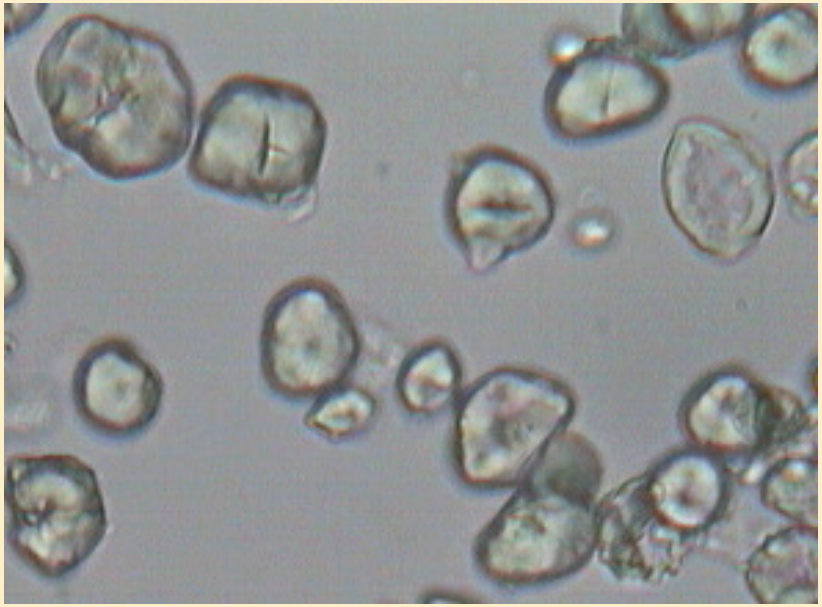


AMILOPLASTOS



GRANO DE ALMIDÓN DE MAÍZ
Zea mays L.

SIMPLE CÉNTRICO con hilo fisurado



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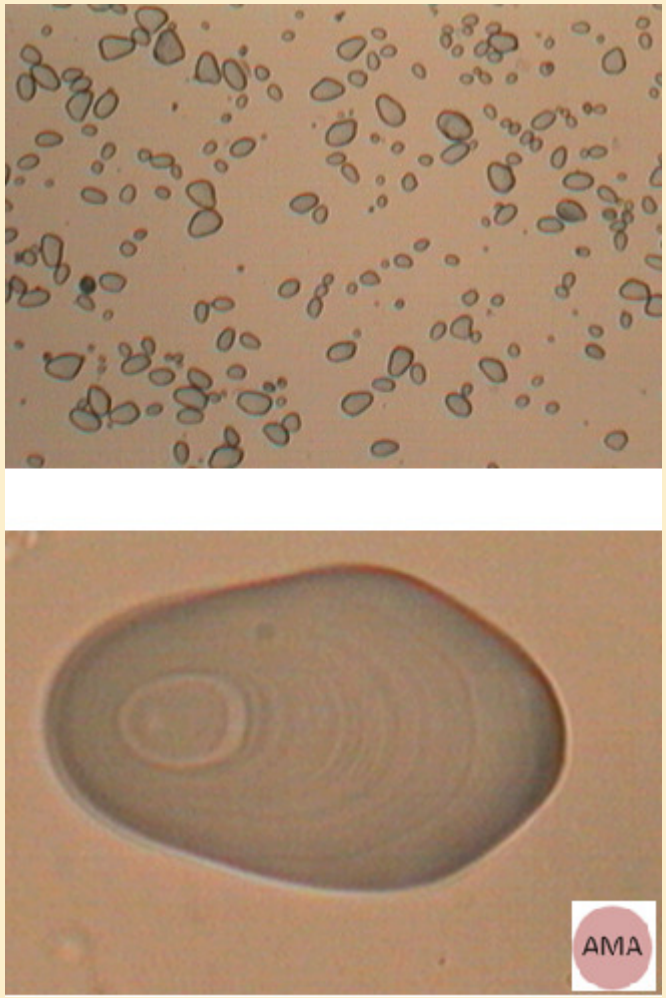
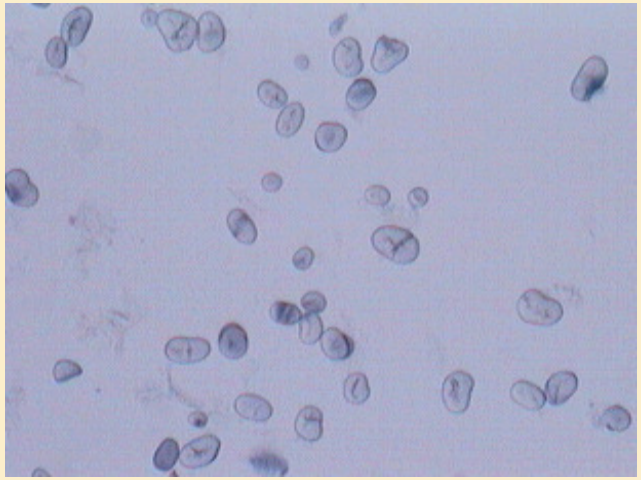


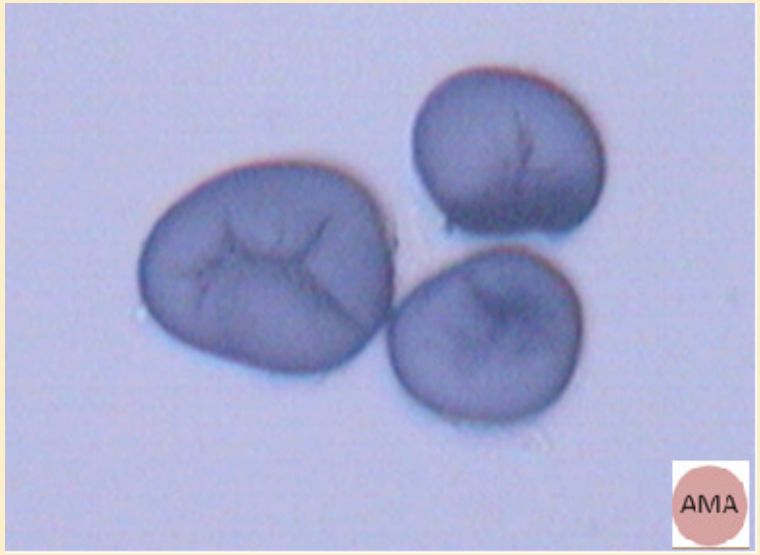
GRANO DE ALMIDÓN DE PAPA
Solanum tuberosum L.

SIMPLE EXCÉNTRICO

AMILOPLASTOS



GRANO DE ALMIDÓN DE POROTO
Phaseolus sp.



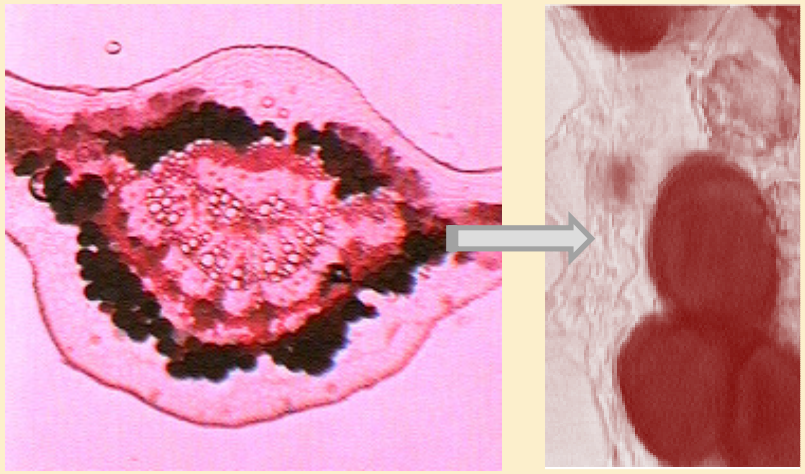
GRANOS DE ALMIDÓN COMUESTOS

Avena *Avena sativa* L. Arroz *Oryza sativa* L.

GRANO DE ALMIDÓN DE ARROZ
Oryza sativa L.

COMPUESTO

VACUOLA - TANINOS

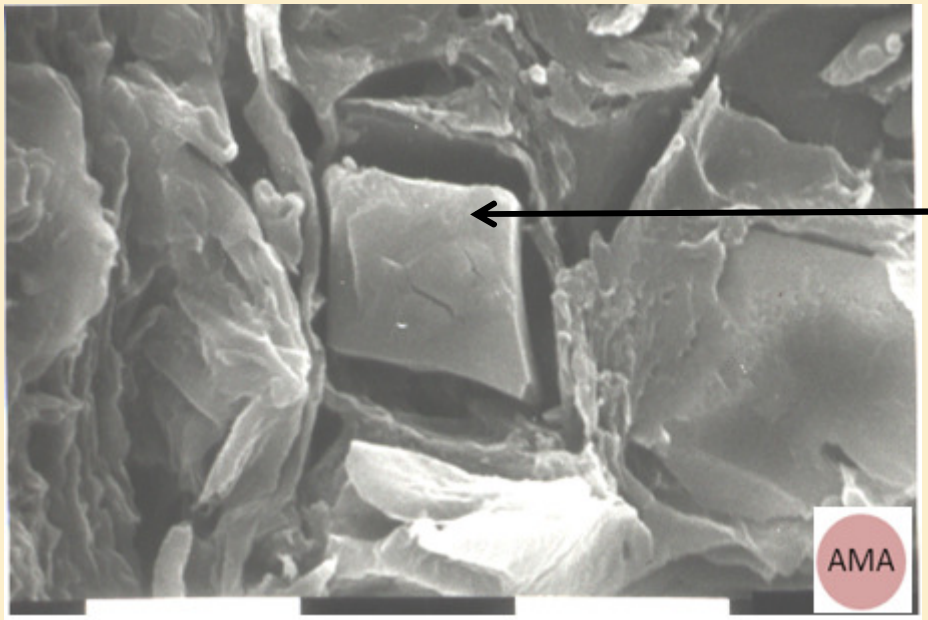


CÉLULAS TANÍFERAS EN
Palo borracho rosado
Ceiba speciosa (A. St-Hil.) Ravena
Fam. Bombacaceae

Corte transversal de hoja mostrando células taníferas

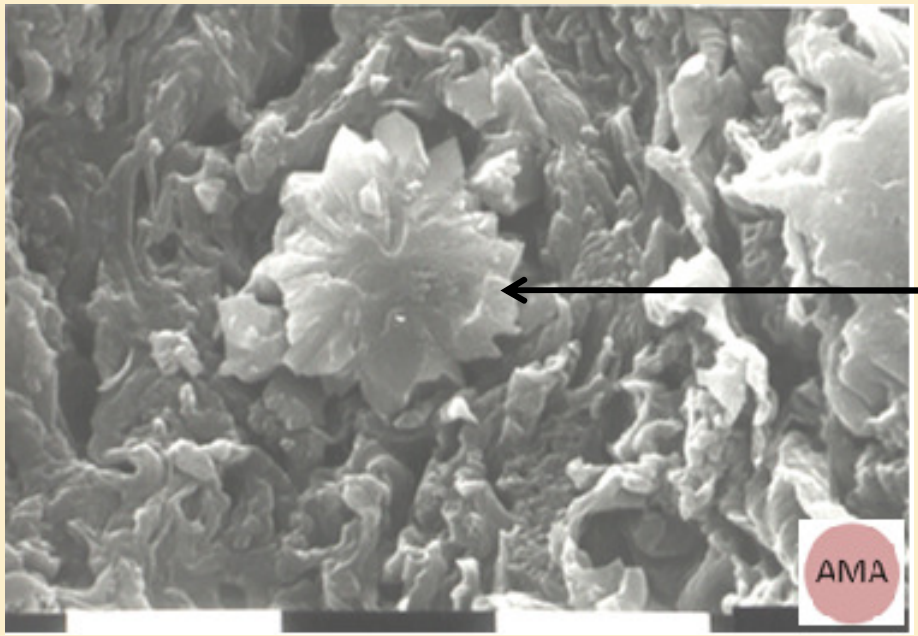
Preparados realizados por Vanesa Perrotta

VACUOLA - CRISTALES



macla

VACUOLA - CRISTALES

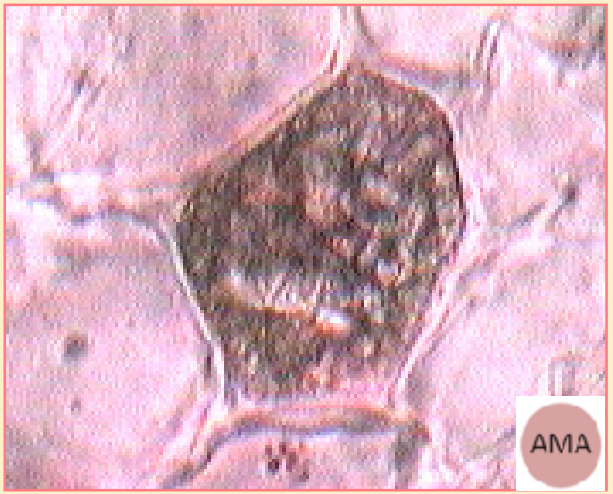


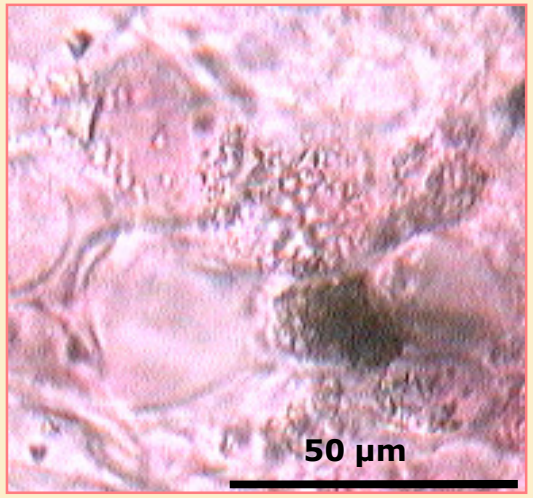
drusa

VACUOLA - CRISTALES

rafidios

VACUOLA - CRISTALES



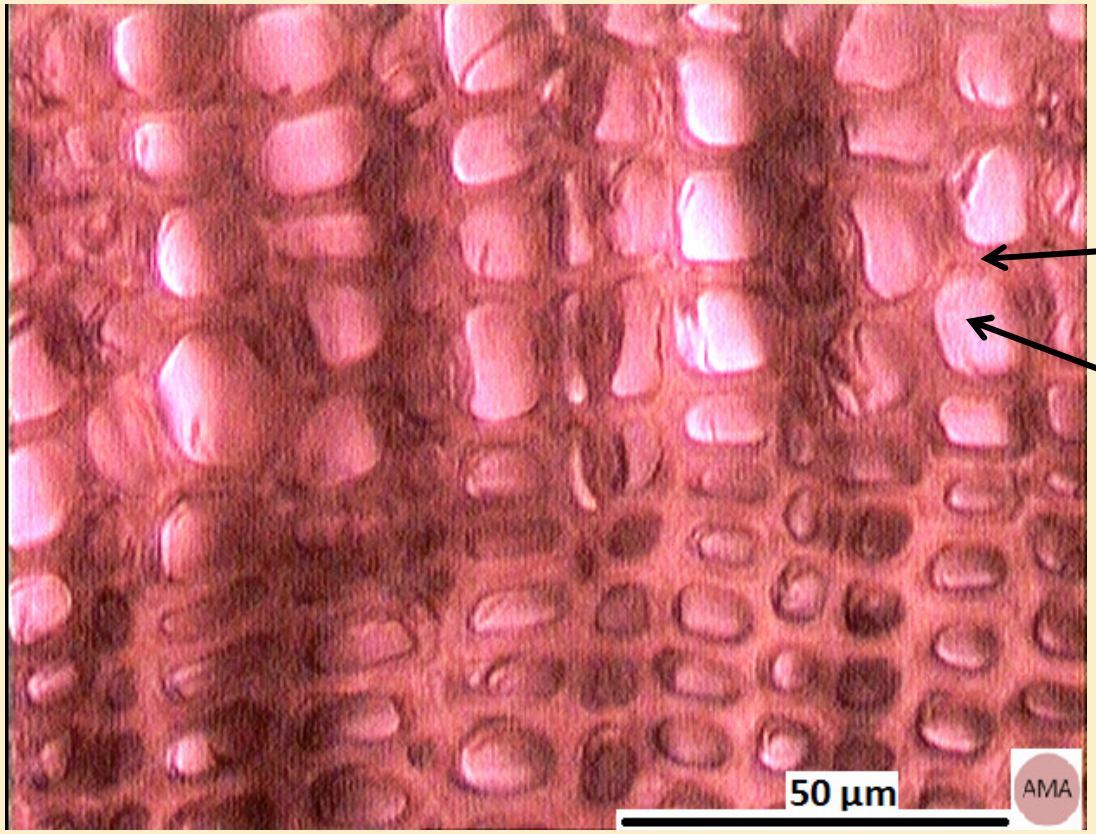


arena cristalina

CROMOSOMAS
ápice de raíz de cebolla

PARED SECUNDARIA

lignificada en traqueidas de pino (Gimnospermas)

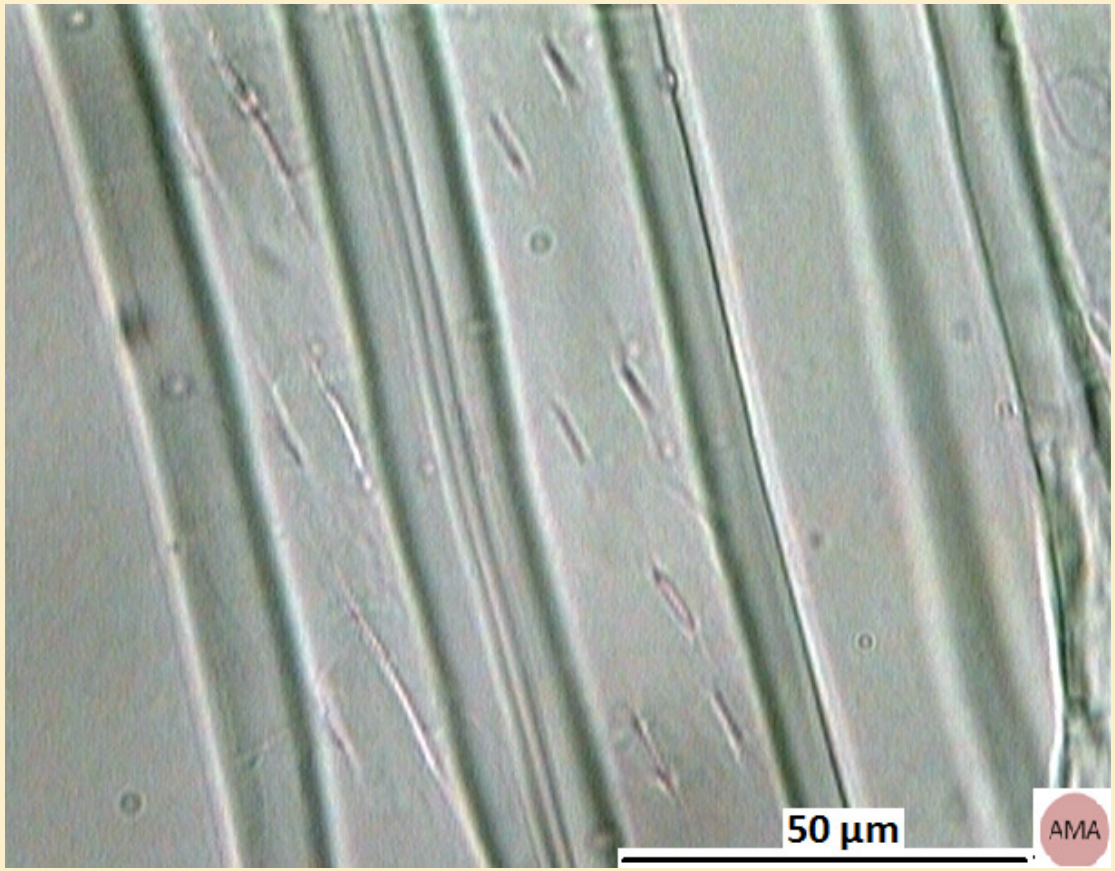


PARED CELULAR

LÚMEN CELULAR

PARED SECUNDARIA

comunicación por pares de punteaduras simples con apertura elíptica



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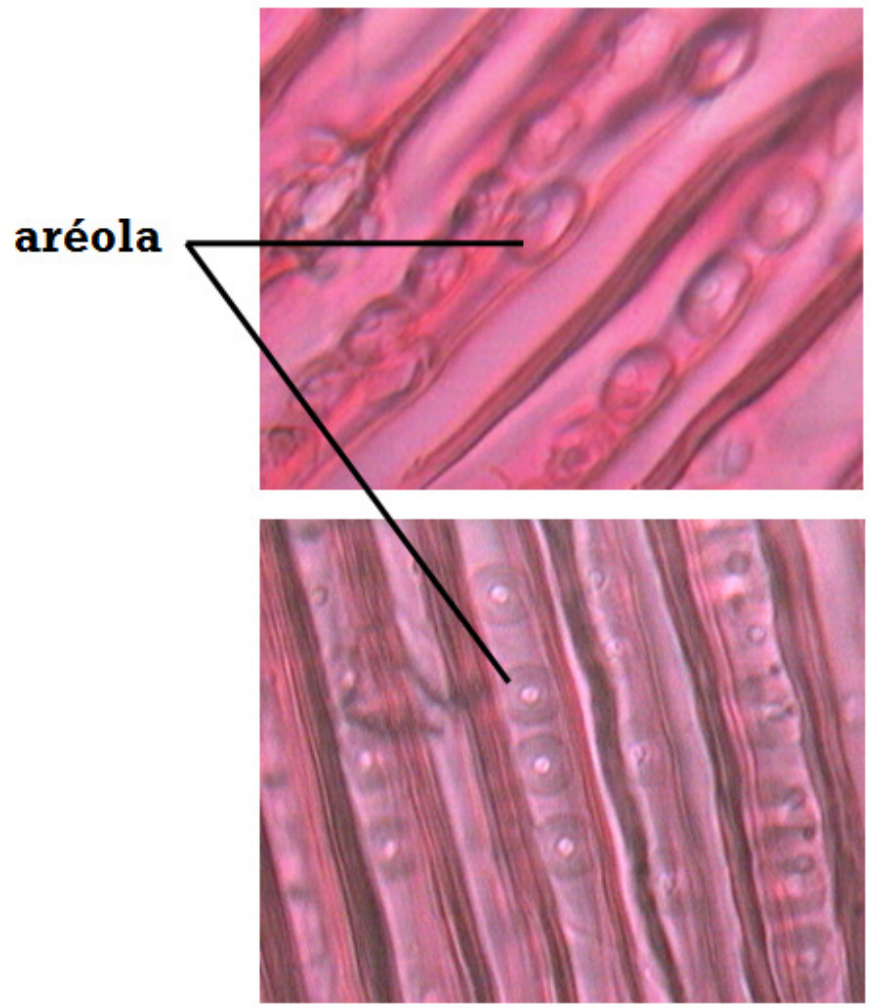
comunicación por pares de punteaduras areoladas