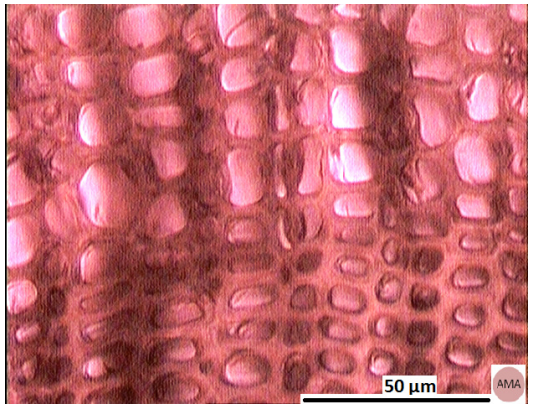
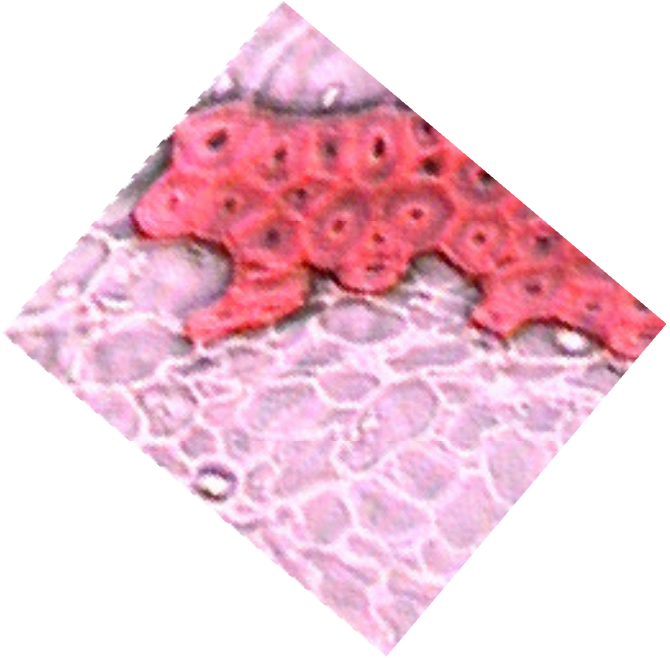
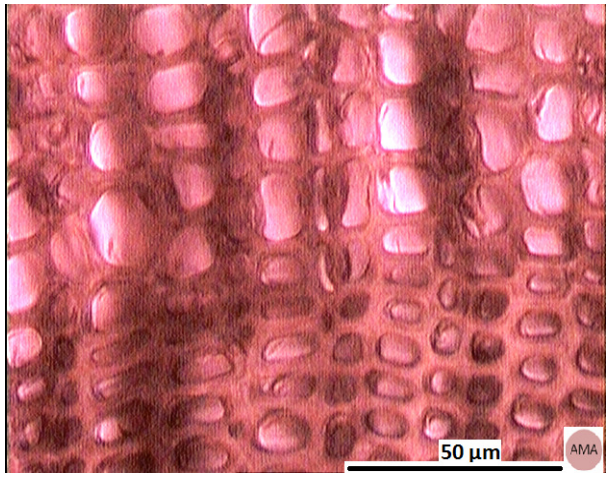
XILEMA Y FLOEMA



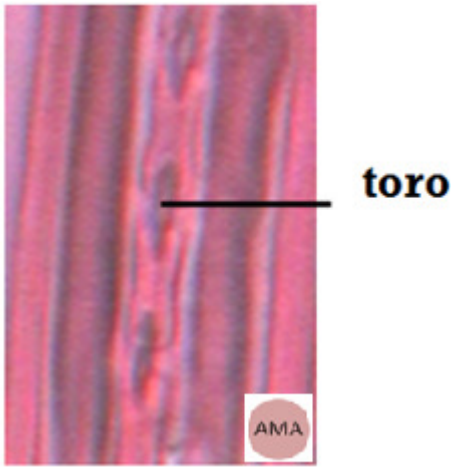


Gimnospermas
xilema - traqueidas



Corte transversal

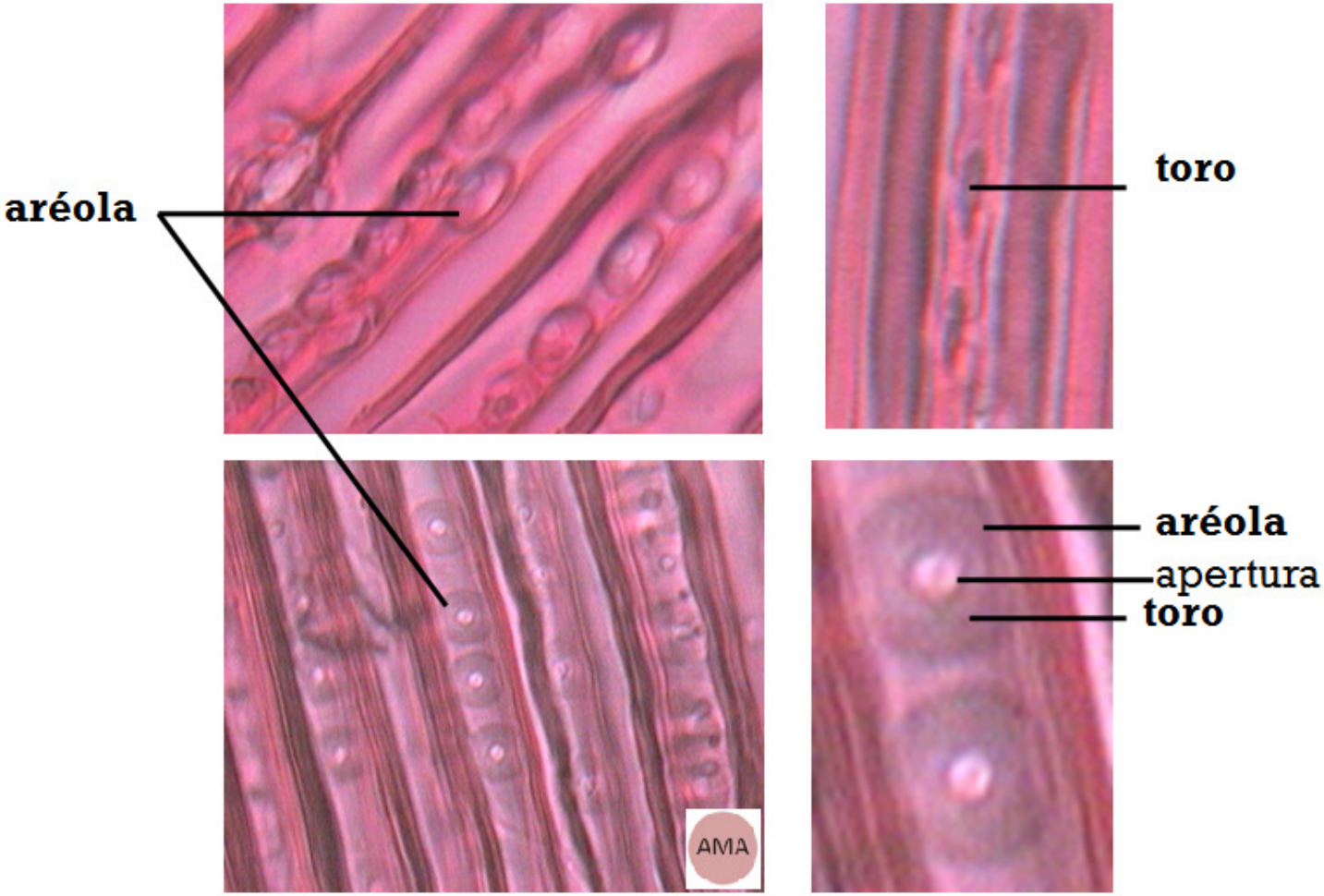
Corte Longitudinal Radial



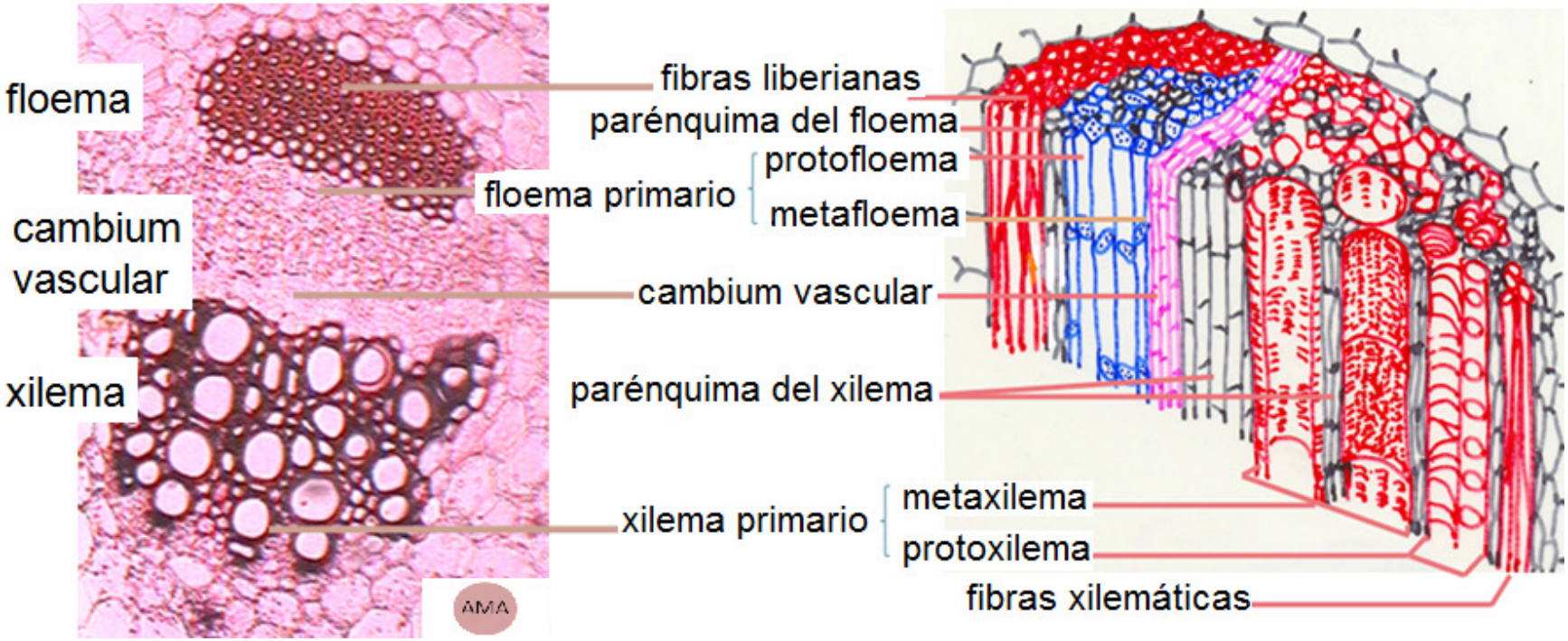
C Long. Tangencial

Gimnospermas
xilema - traqueidas

COMUNICACIÓN POR PARES DE PUNTEADURAS AREOLADAS CON TORUS

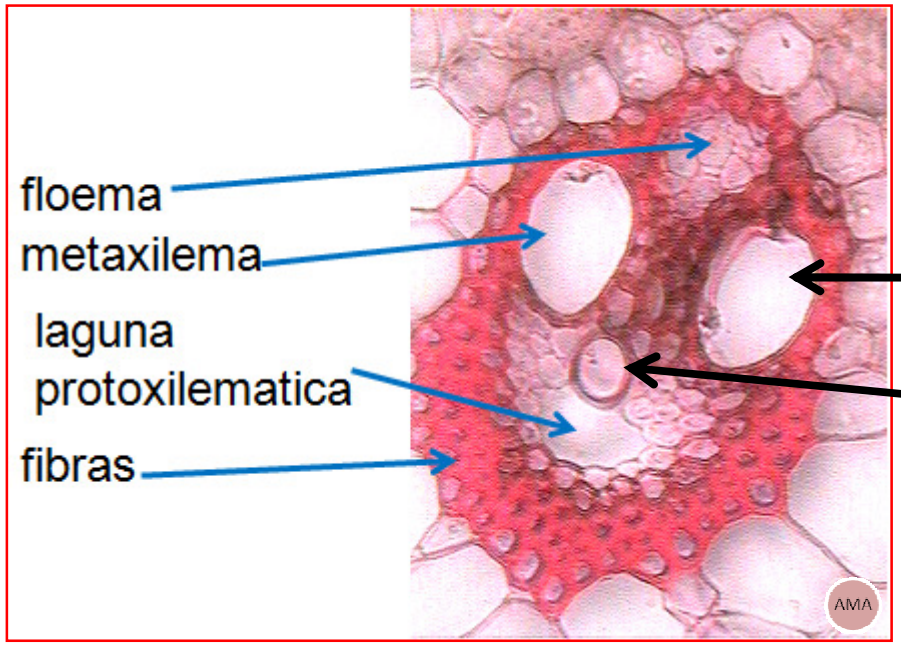


Angiospermas
xilema primario y floema primario



AMA

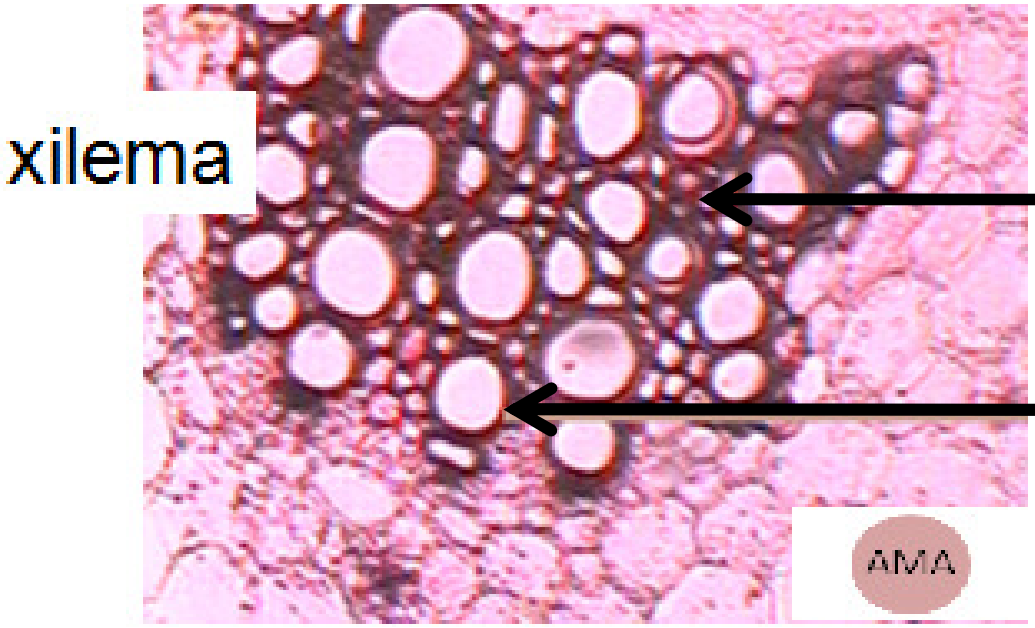
Xilema: diámetro de los vasos del protoxilema y metaxilema



VASO DEL METAXILEMA

VASO DEL PROTOXILEMA

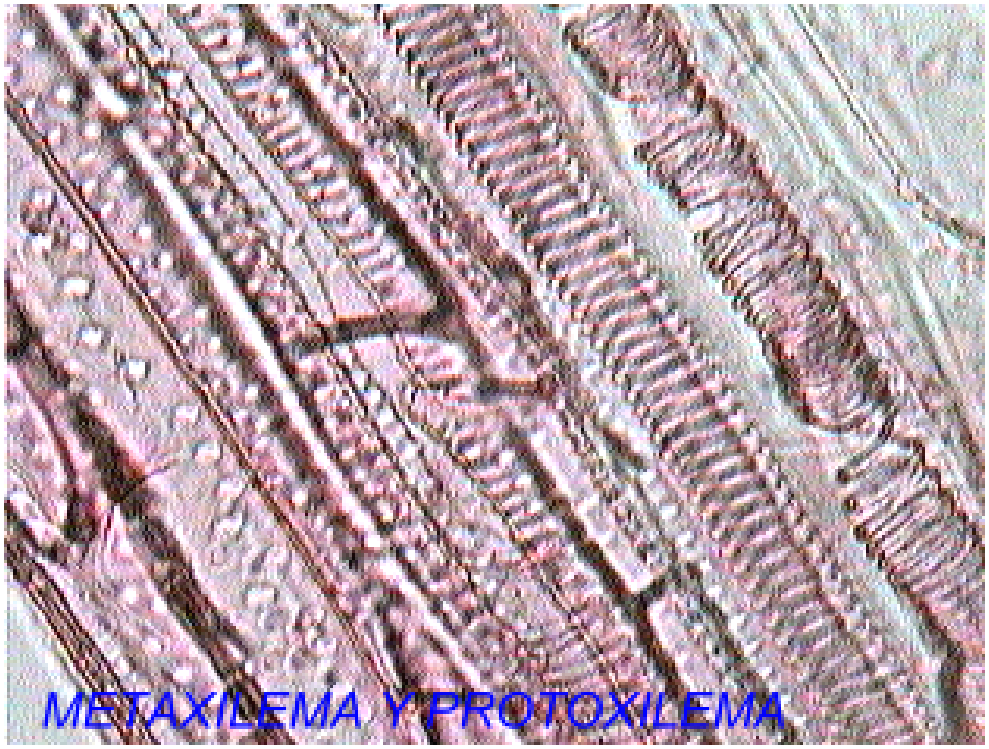
XILEMA: vasos y fibras xilemáticas en corte transversal



FIBRAS XILEMÁTICAS DE CONTORNO POLIGONAL EN CORTE TRANSVERSAL

VASOS DE CONTORNO CASI CIRCULAR, CONOCIDOS COMO POROS

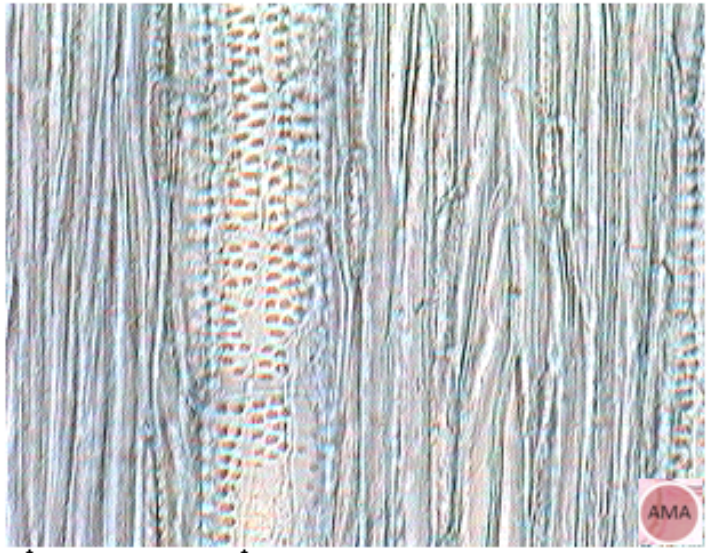
XILEMA: vasos o tráqueas en corte longitudinal mostrando los engrosamientos secundarios de las paredes laterales



Tallo de lino, corte longitudinal

AMA

XILEMA: tráqueas del leño de *Senna subulata*

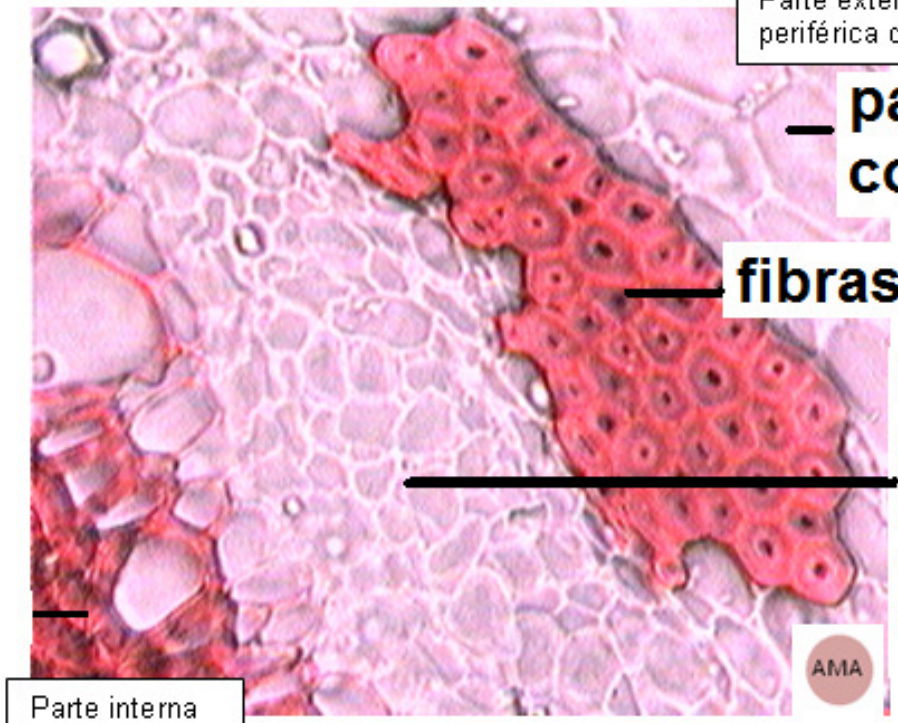


fibras xilemáticas

vaso punteado

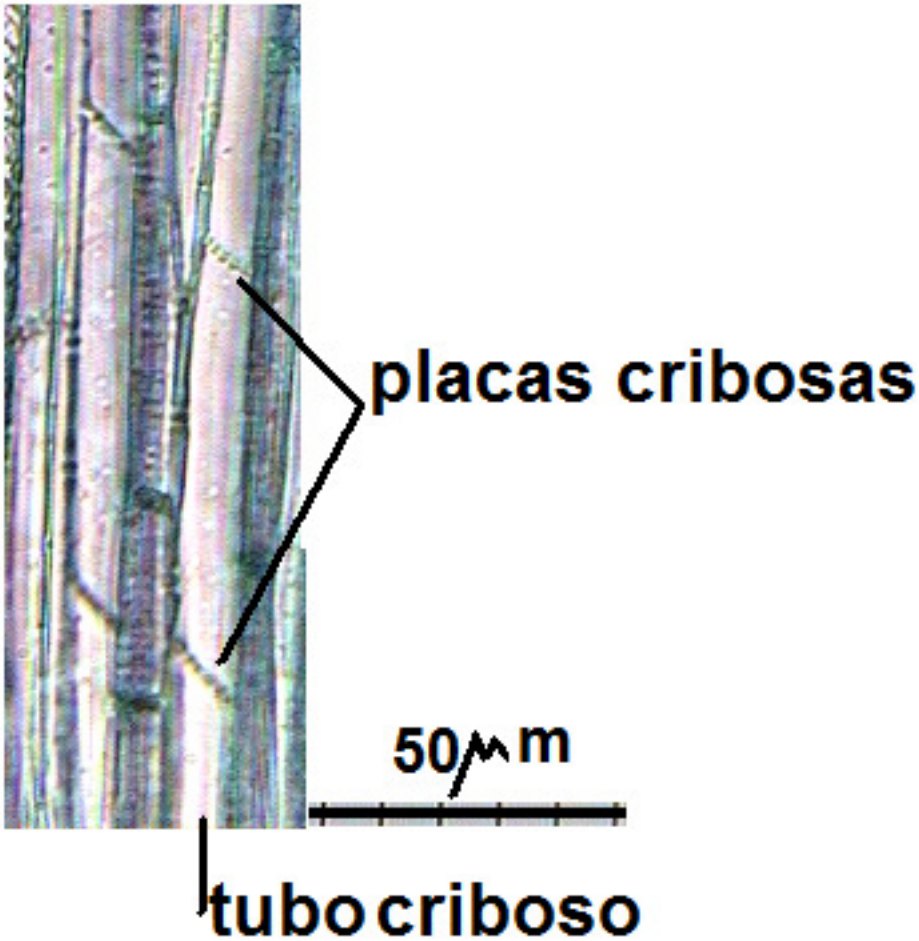
AMA

FLOEMA: aspecto y manifestación de las fibras liberianas o floemáticas en CT



AMA

FLOEMA: tubo criboso pluricelular en corte longitudinal mostrando las placas cribosas simples



Preparado realizado por Roberto J.M. Serafini

AMA