



UBA
UNIVERSIDAD DE
BUENOS AIRES

Seminario de Histología

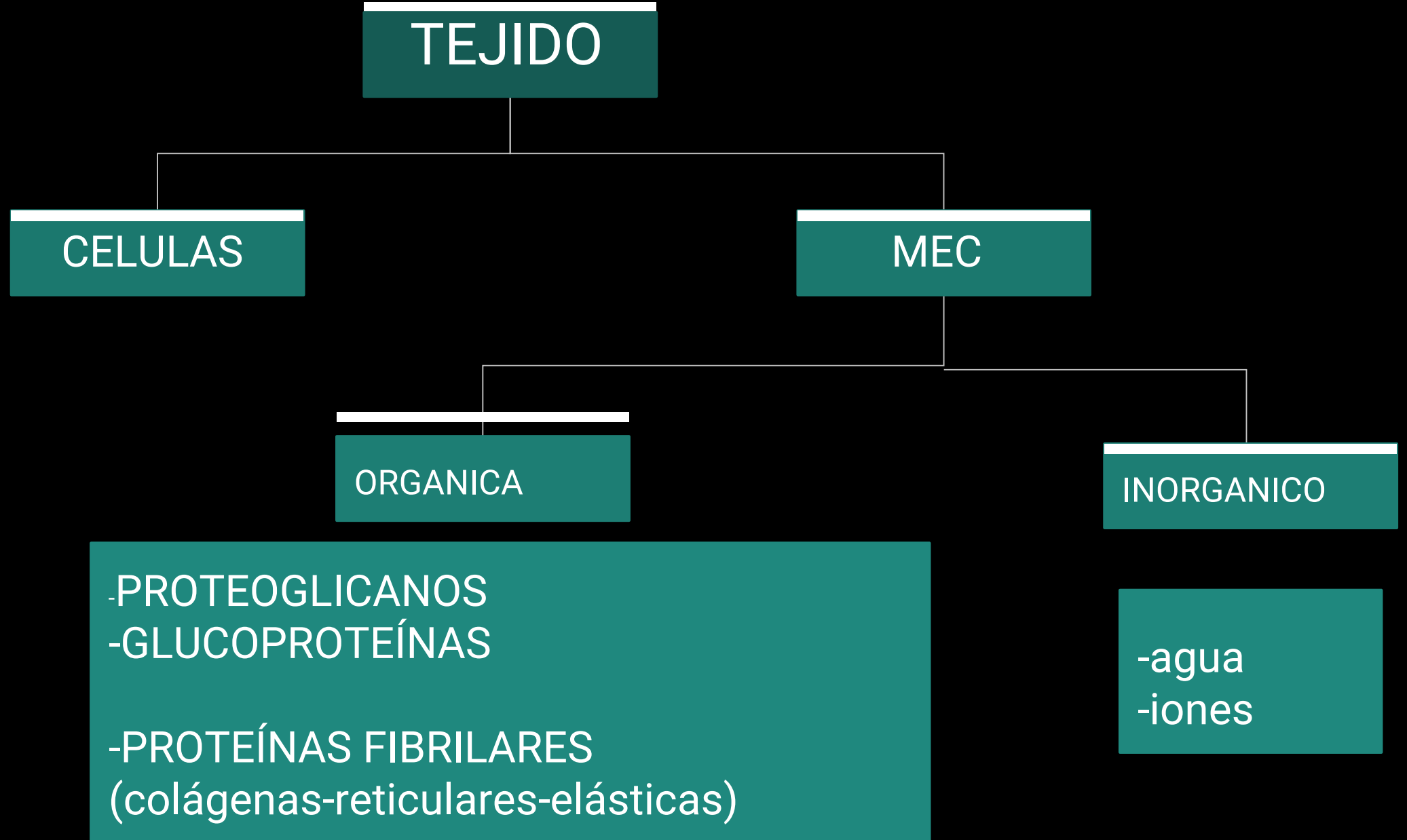
1UA de Histología, Embriología, Biología Celular y Genética

Tejido Conectivo no especializado y
adiposo

Objetivos



- Comprender la conformación de los tejidos
- Describir los componentes del tejido conectivo
- Conocer sus funciones
- Conocer la CLASIFICACION del tejido conectivo
- Distinguir entre los dos tipos de TCE ADIPOSITO



QUE PREDOMINA??? CELULA O MEC??--> ¡CLASIFICACION!

4 TEJIDOS BÁSICOS

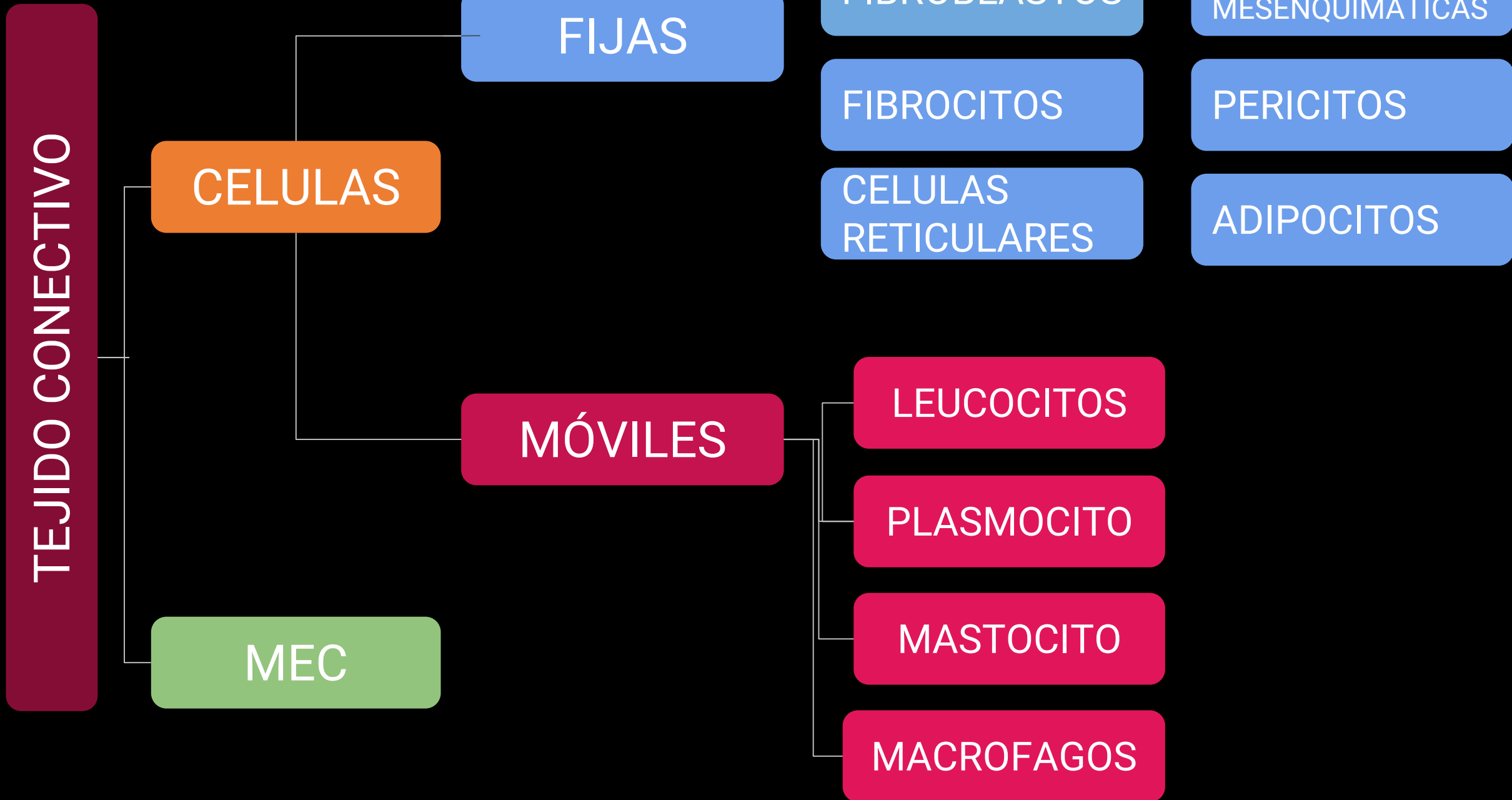
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graph TD; A[4 TEJIDOS BÁSICOS] --> B[EPITELIAL]; A --> C[CONECTIVO]; A --> D[MUSCULAR]; A --> E[NERVIOSO];
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EPITELIAL

CONECTIVO

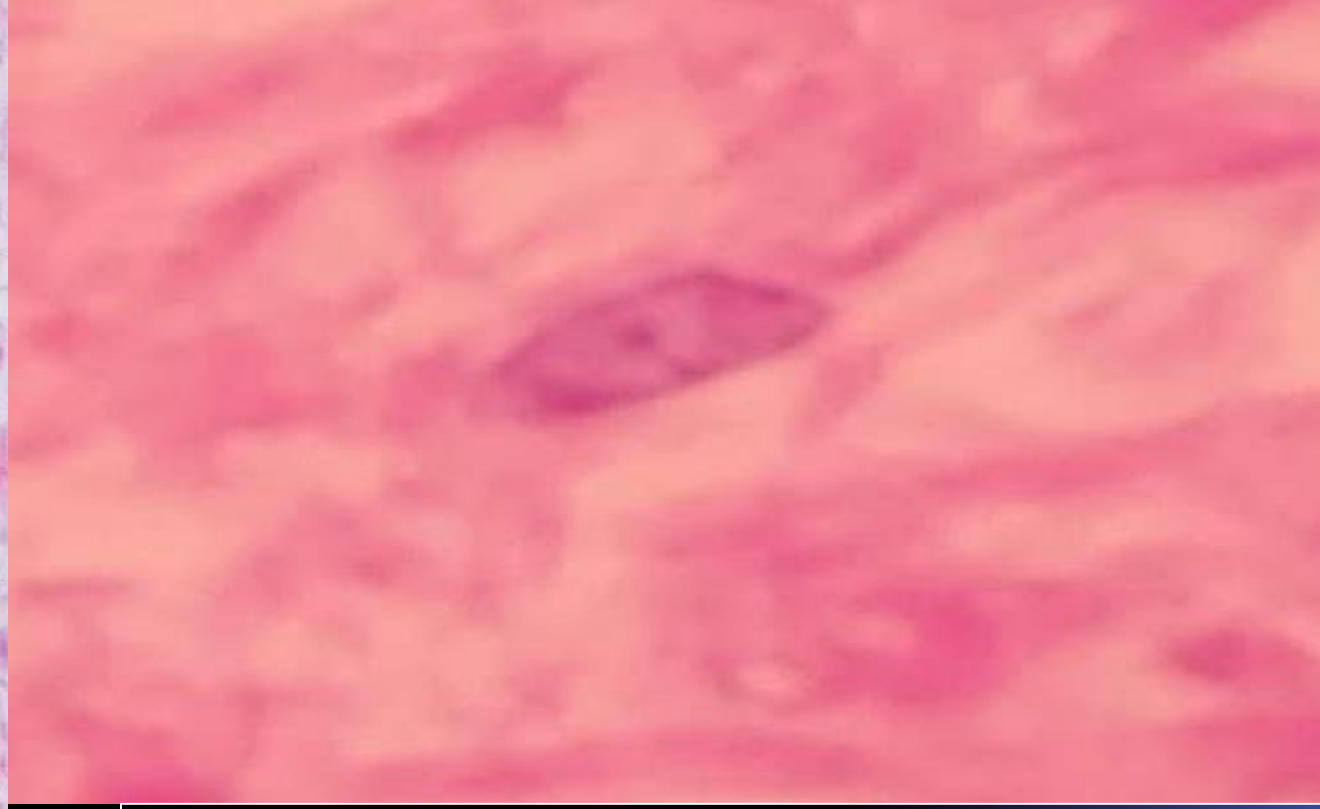
MUSCULAR

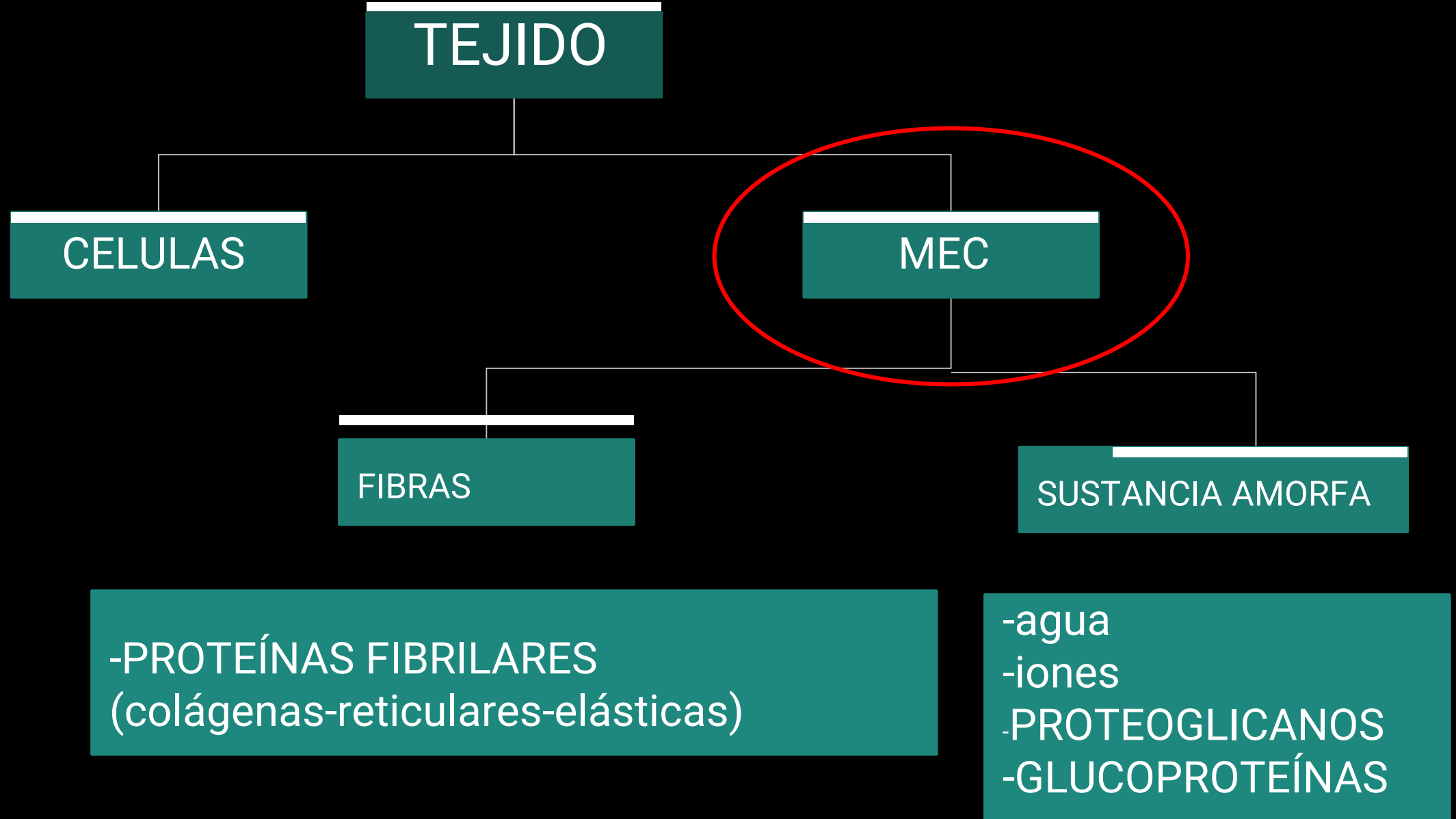
NERVIOSO

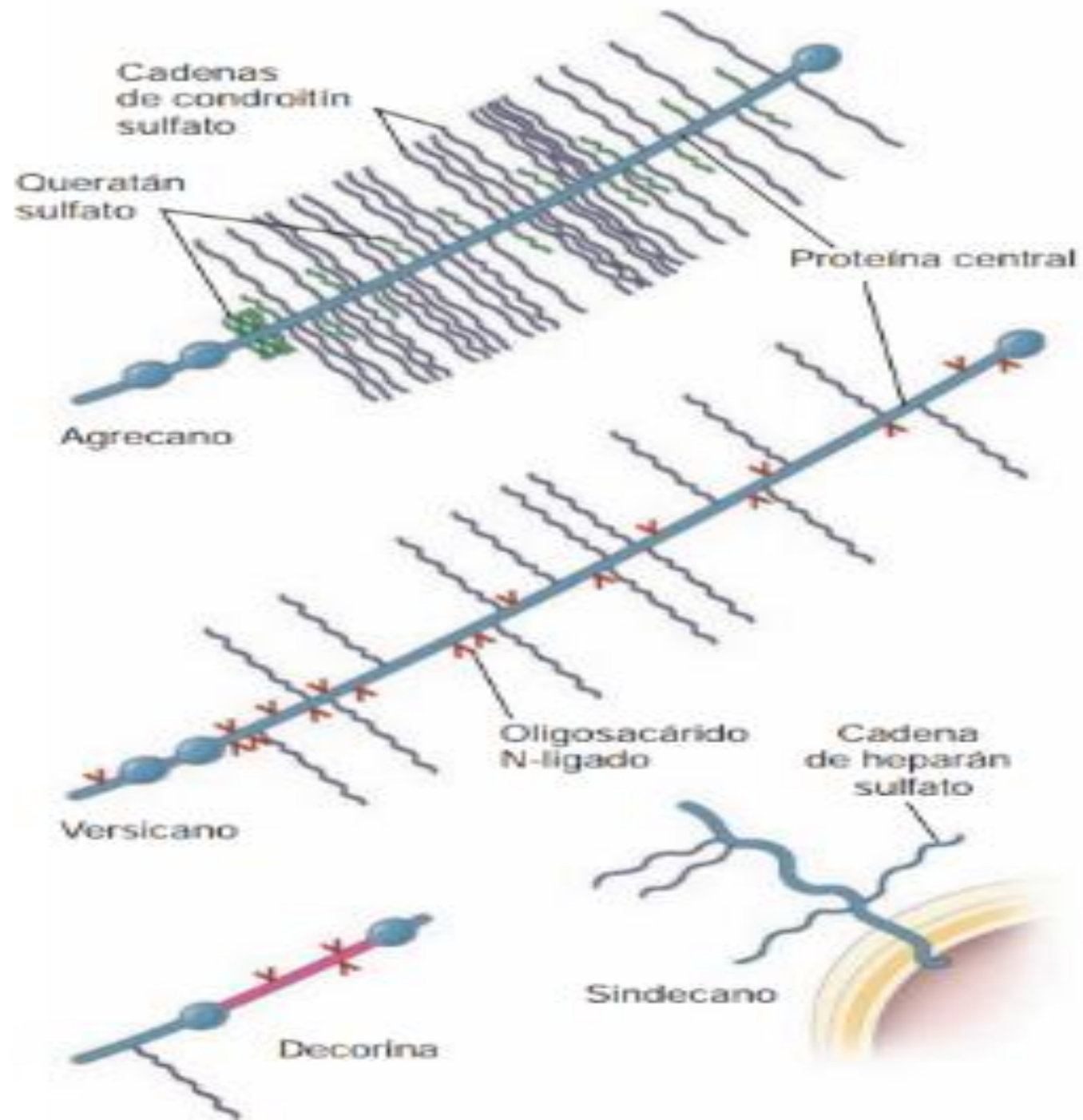


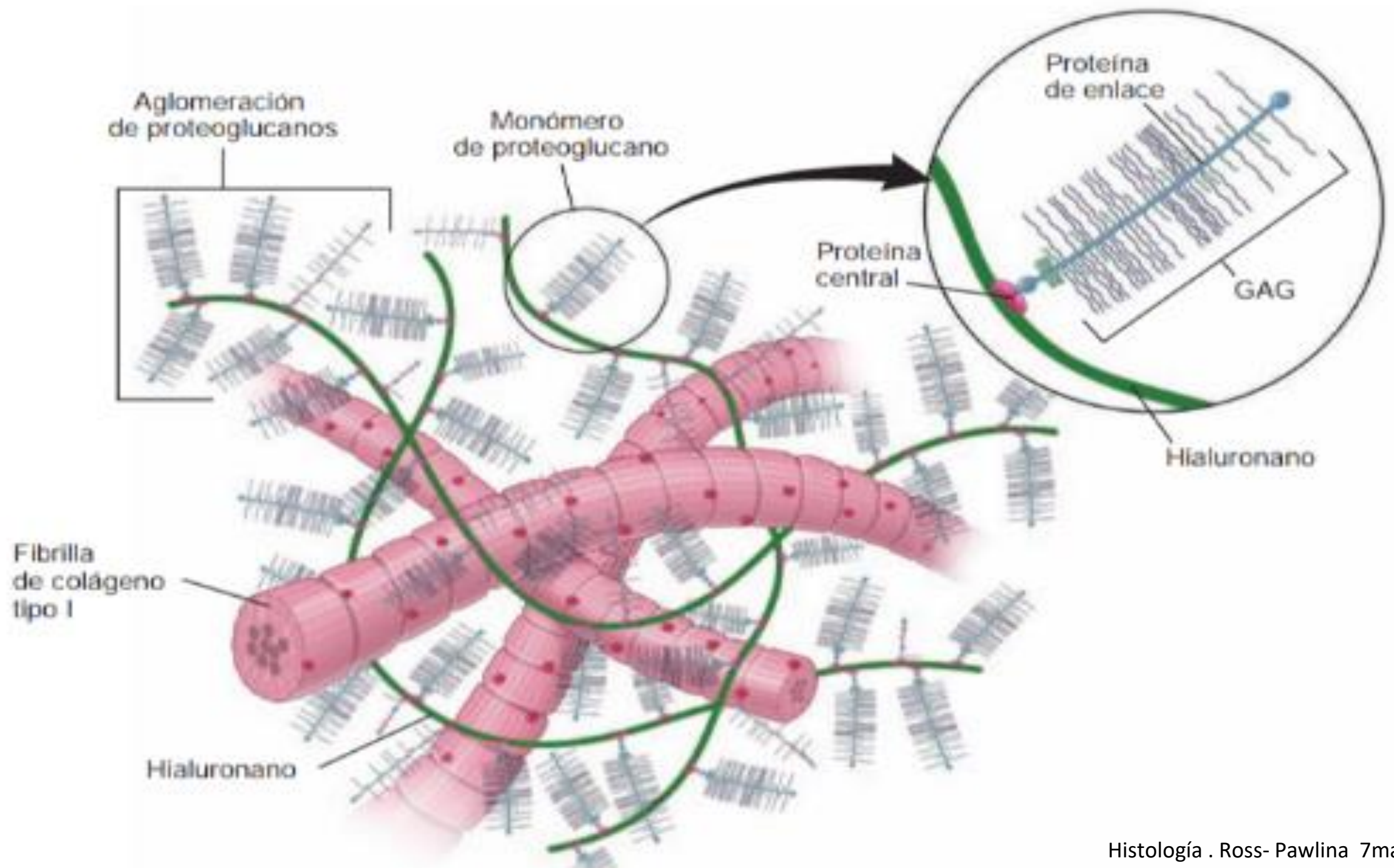
CÉLULAS FIJAS

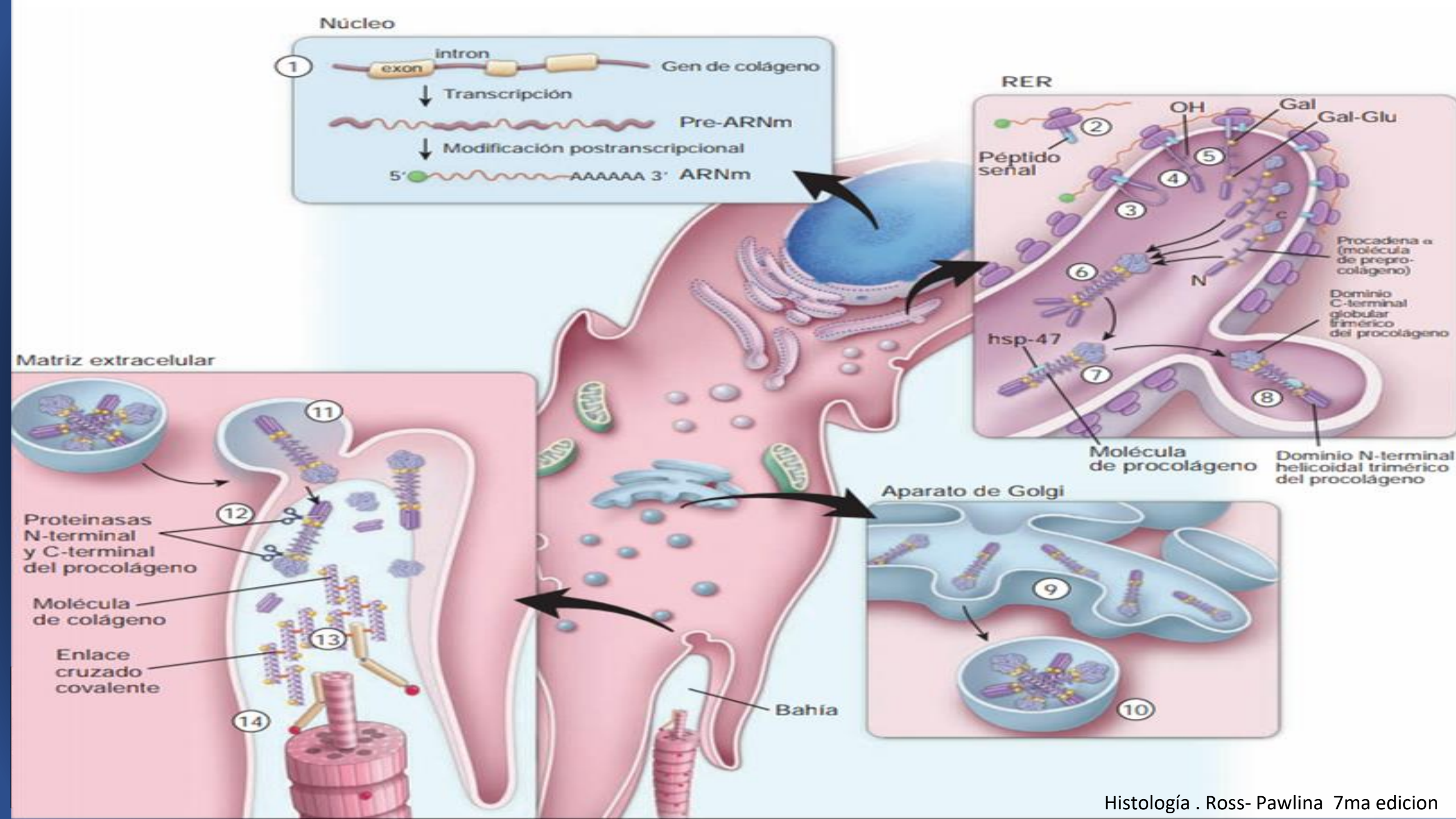
FIBROBLASTOS

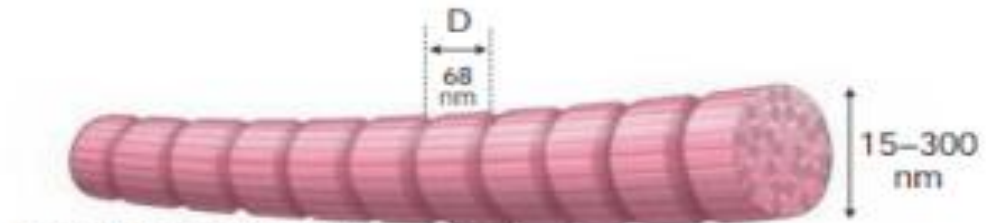




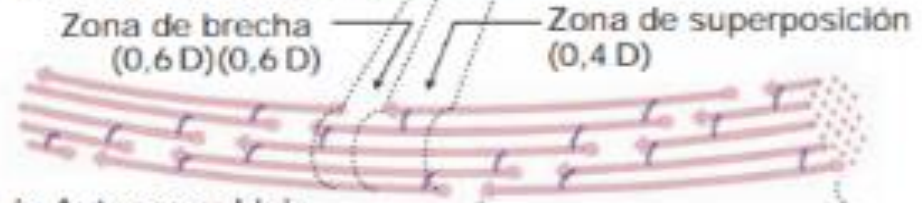








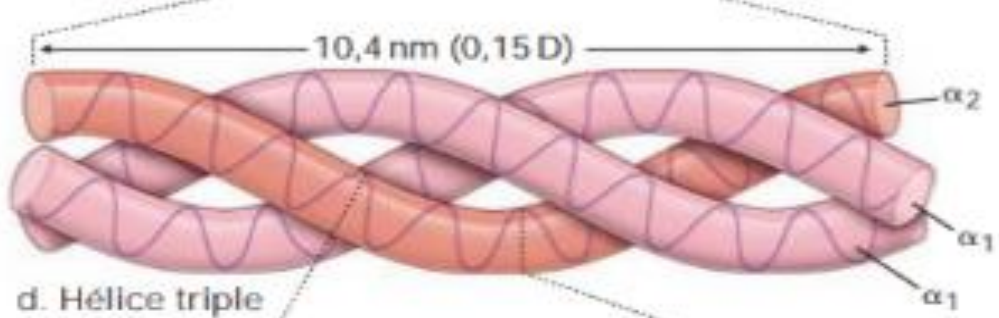
a. Fibrilla de colágeno



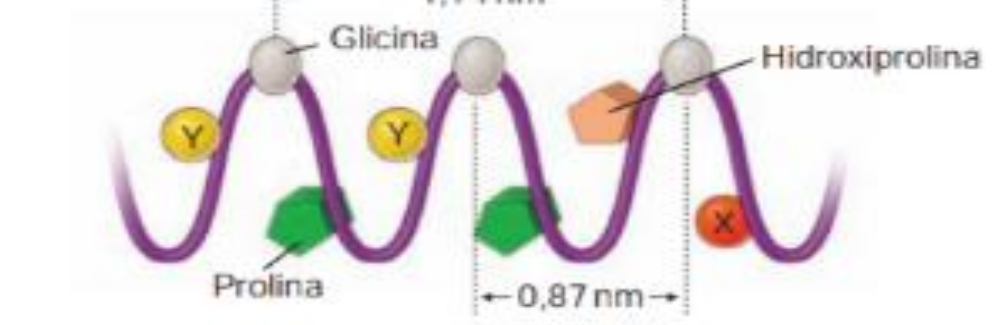
b. Autoensamblaje



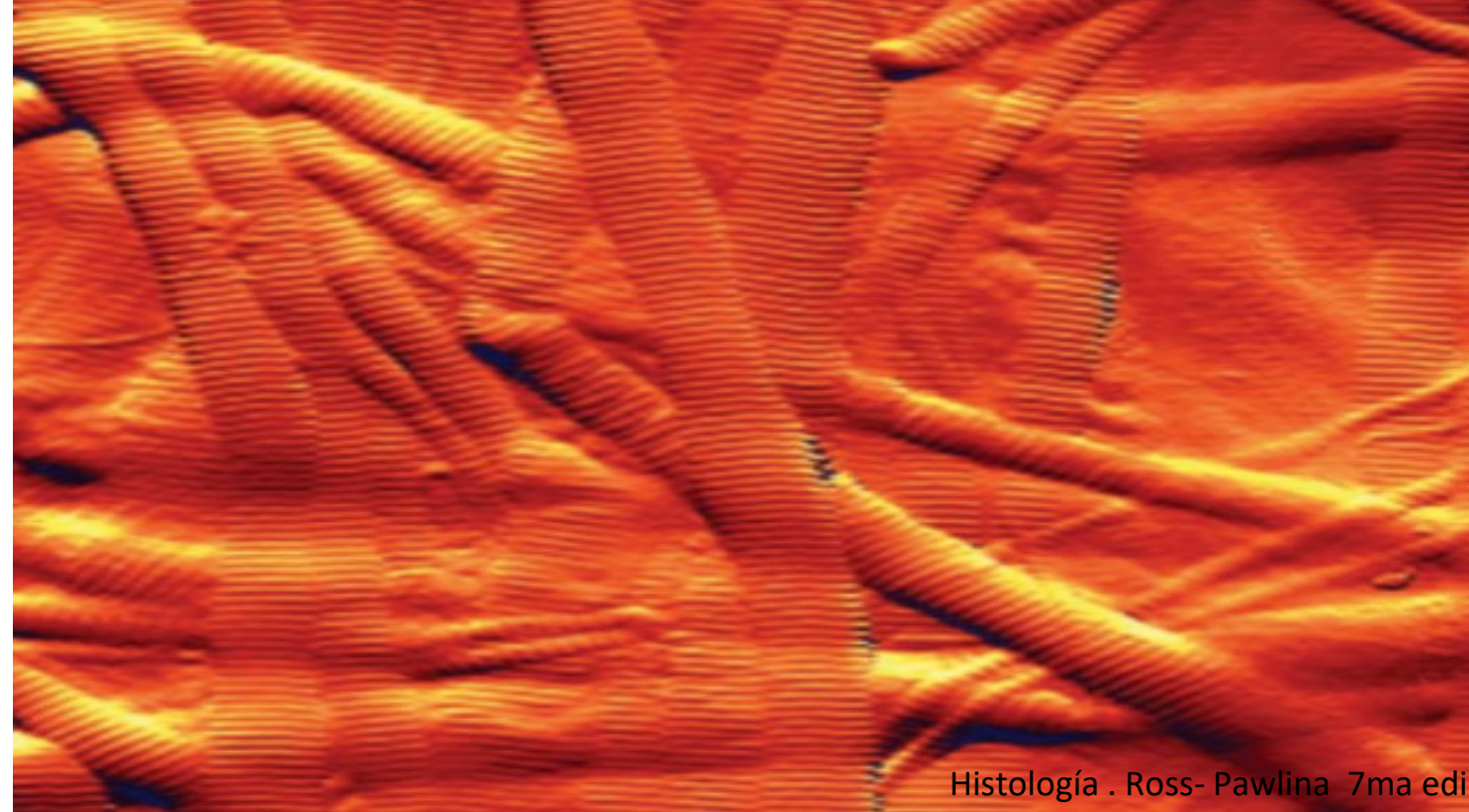
c. Molécula de colágeno



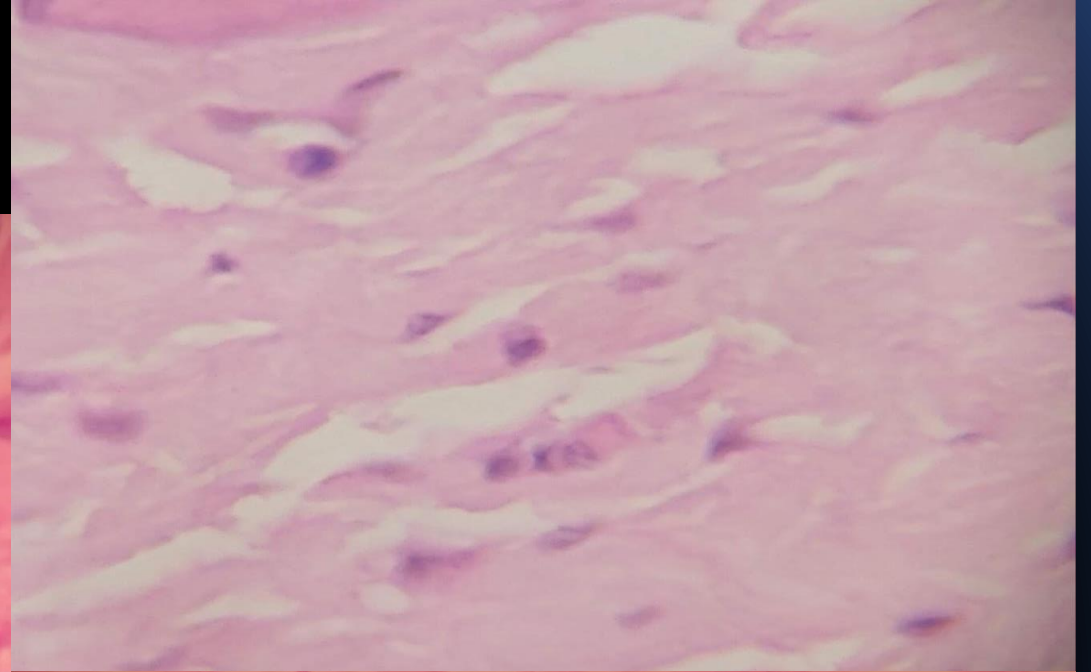
d. Hélice triple



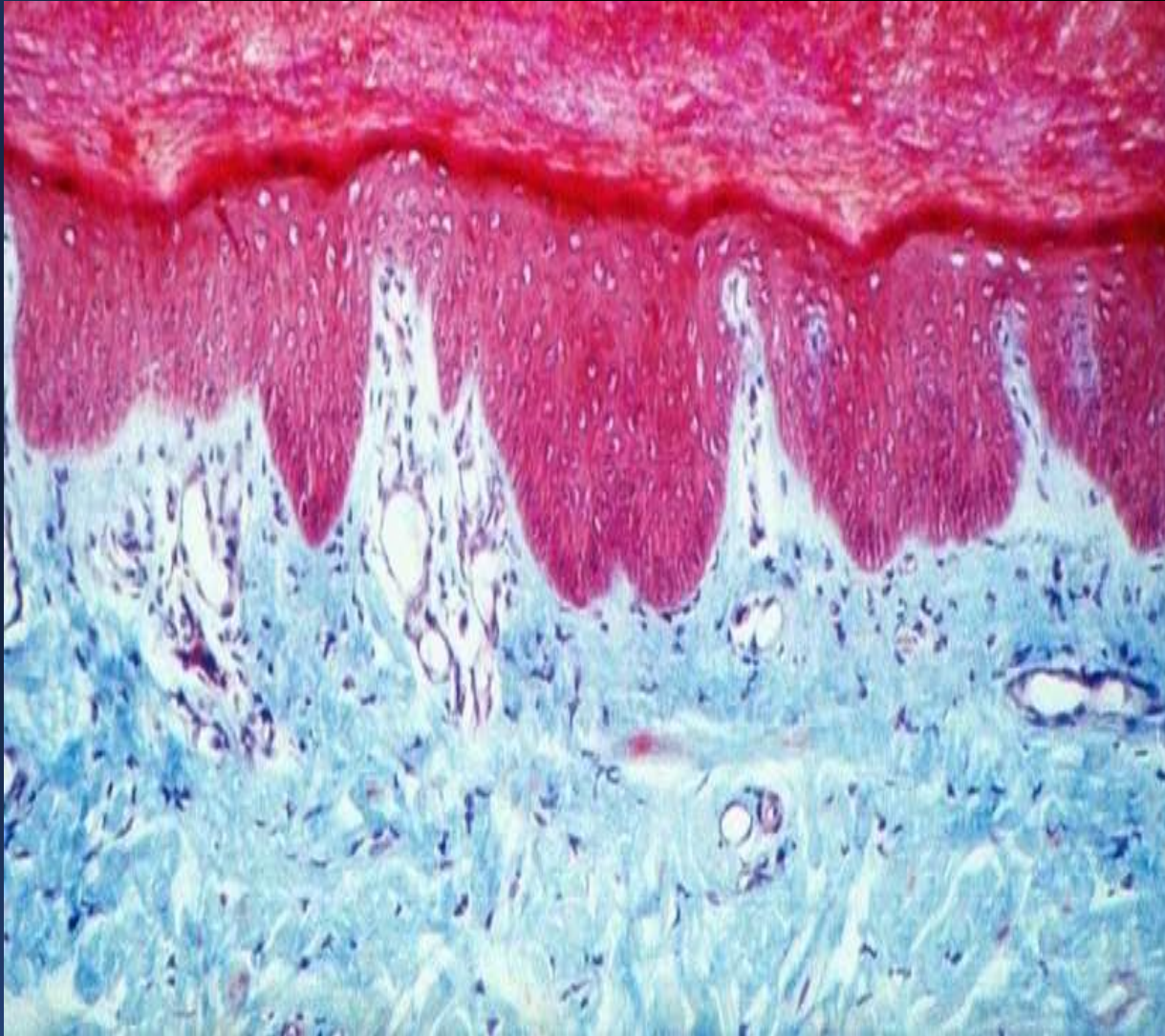
e. Secuencia típica de las cadenas α_1 y α_2



Fibras colágenas HYE



TRICROMICO DE MASSON



CIAN

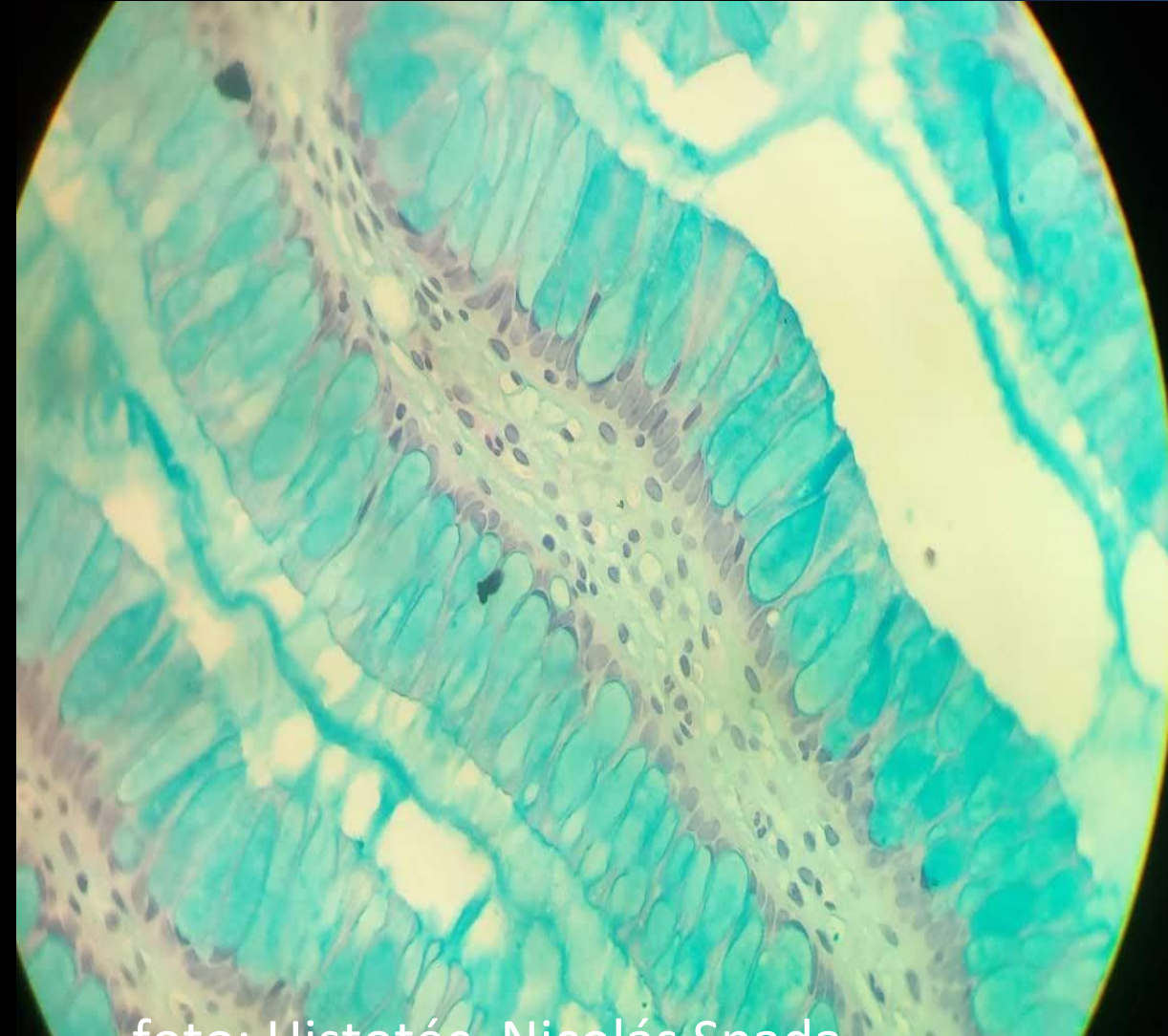
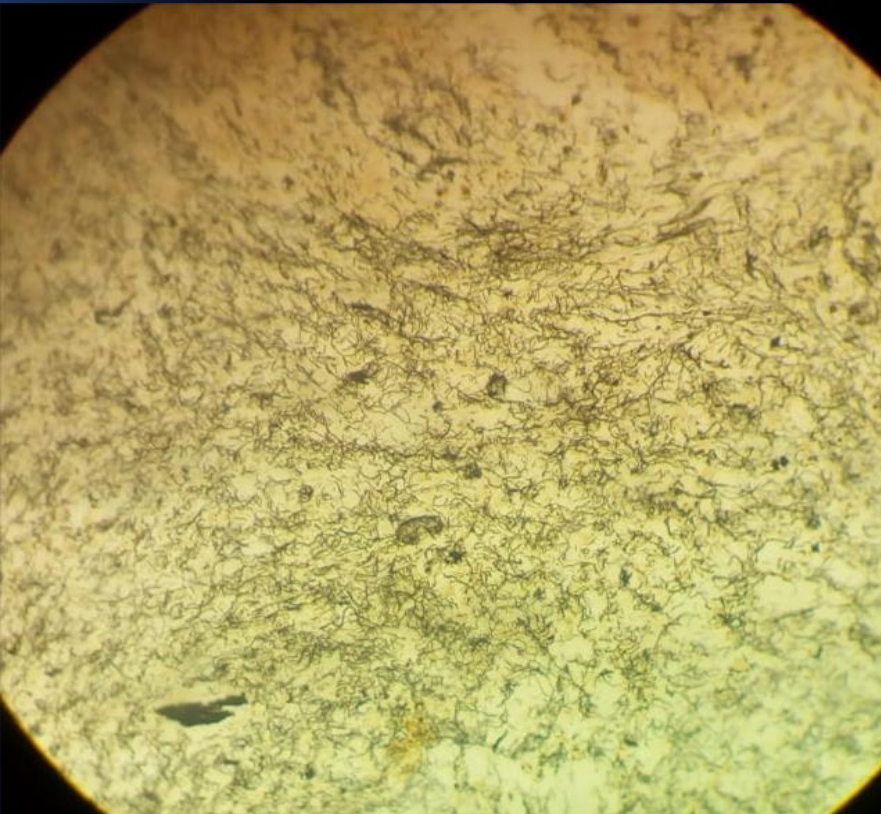


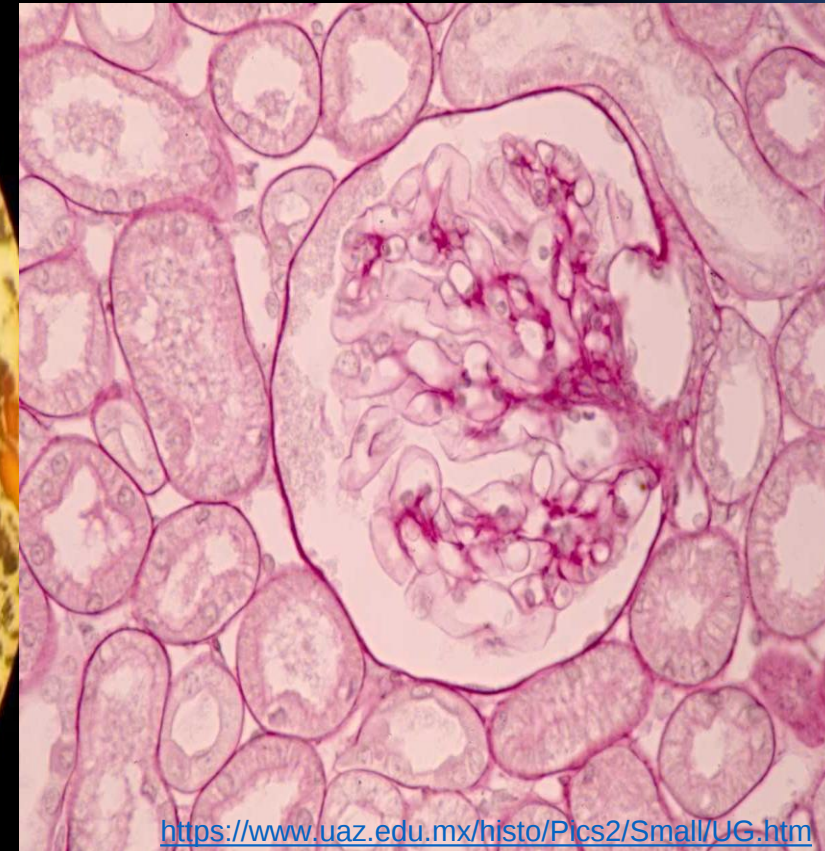
foto: Histotéc. Nicolás Spada

Fibras reticulares: colágeno III

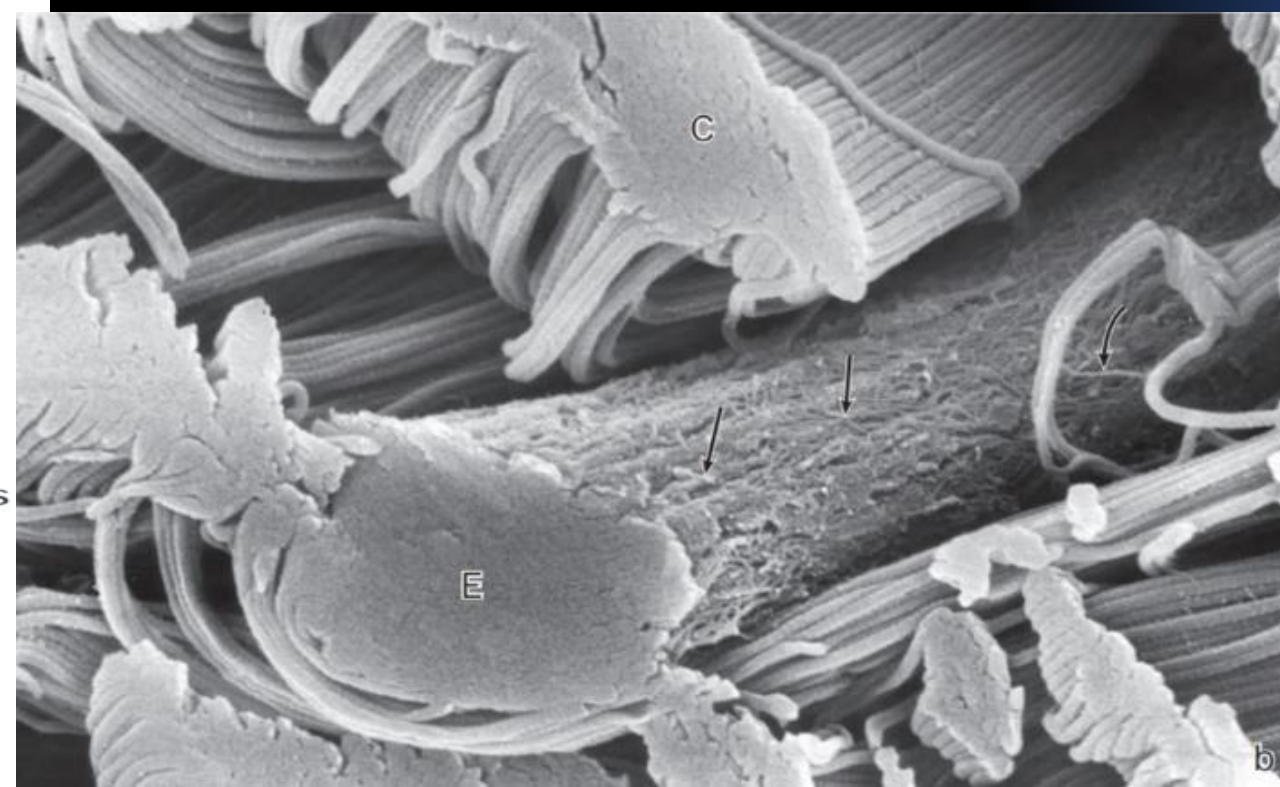
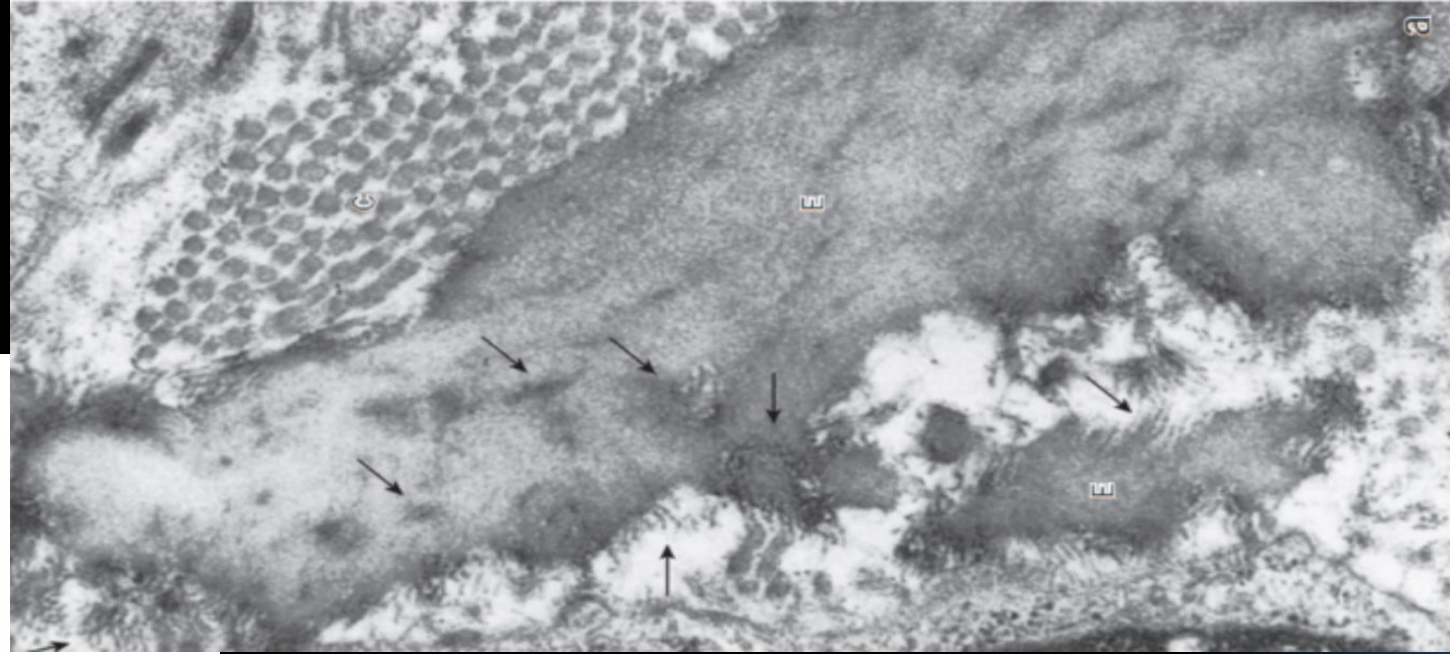
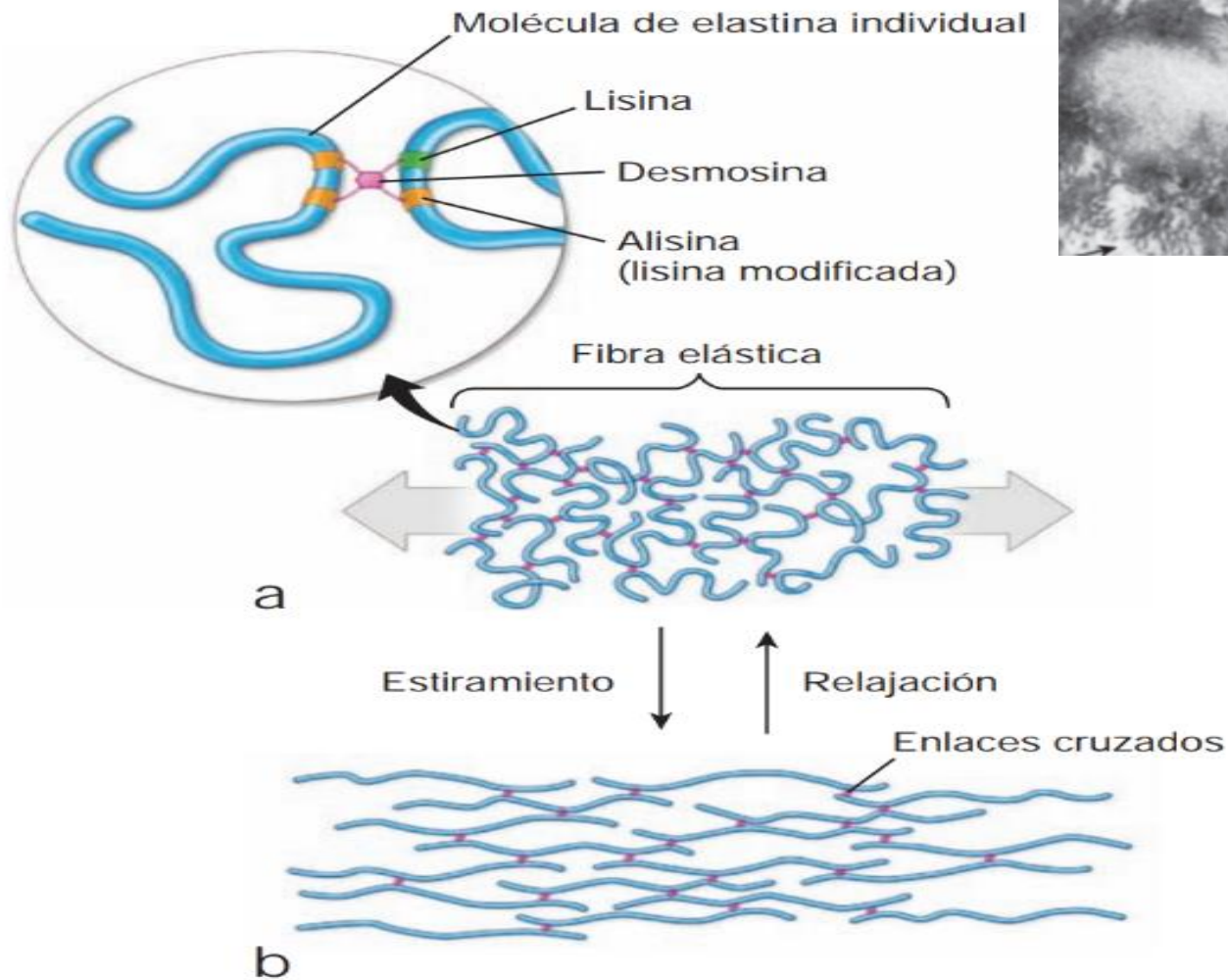
“RETÍCULO” (Impregnación Argéntica)



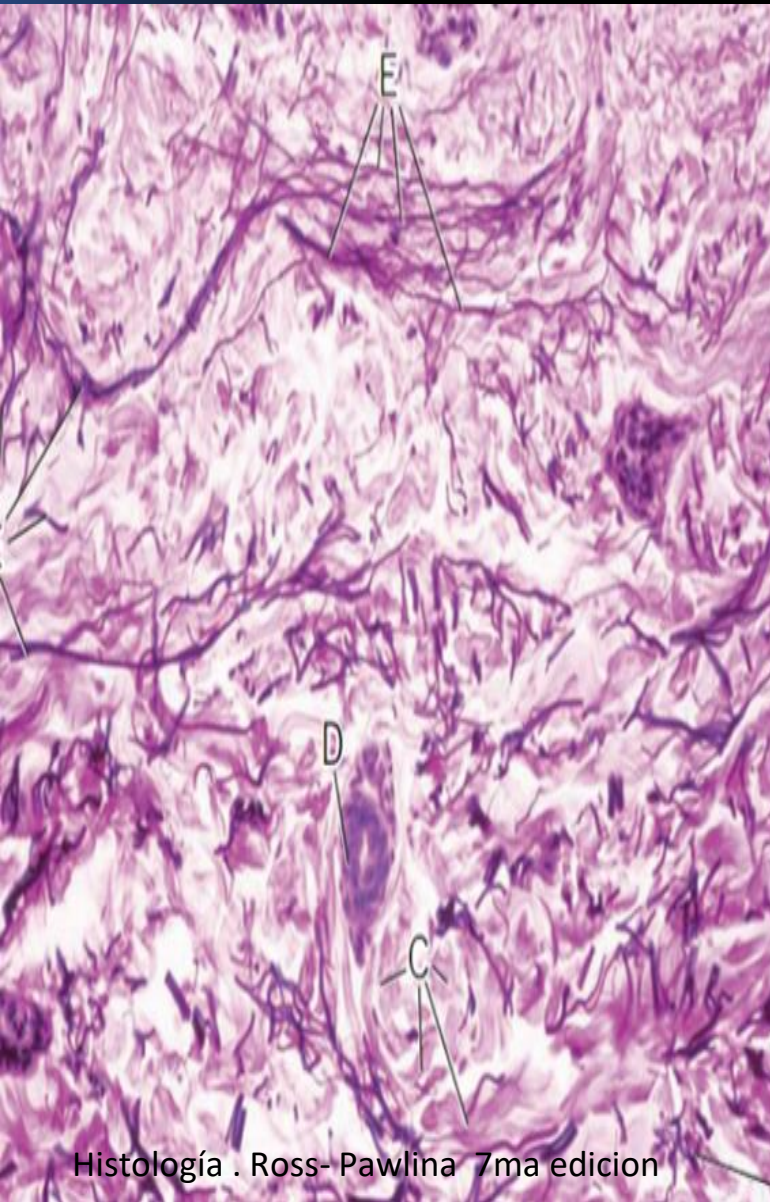
PAS



Fibras elásticas

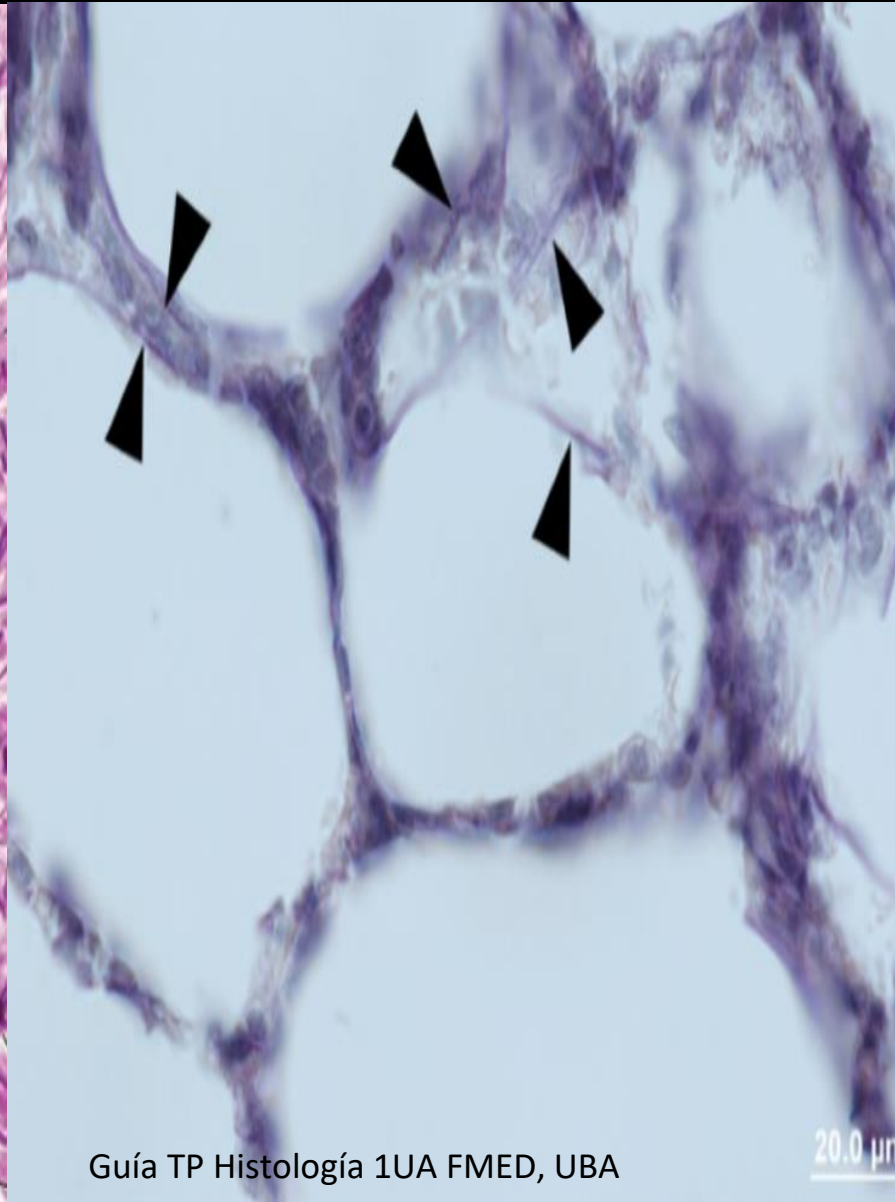


HYE



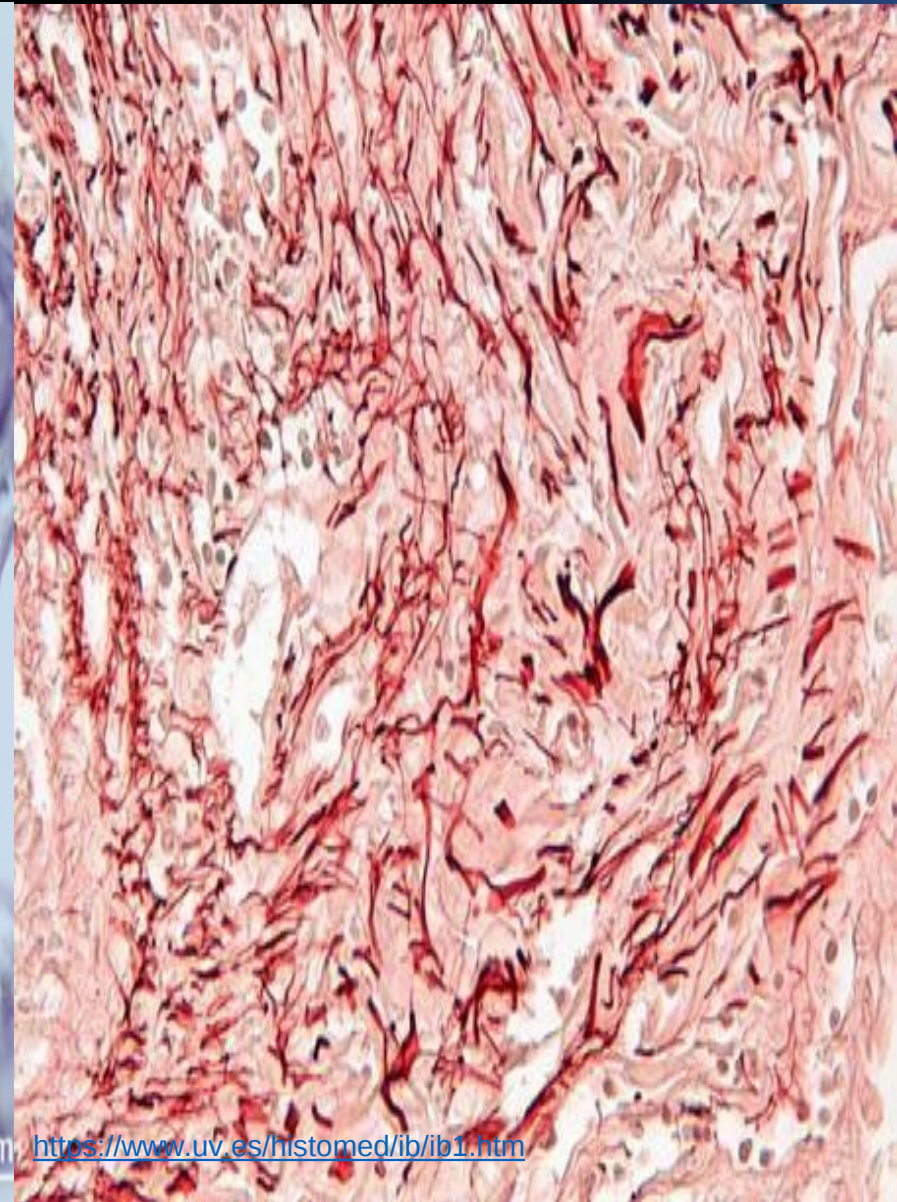
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RESORCINA-FUCSINA



Guía TP Histología 1UA FMED, UBA

ORCEINA



<https://www.uv.es/histomed/ib/ib1.htm>

Láminas elásticas

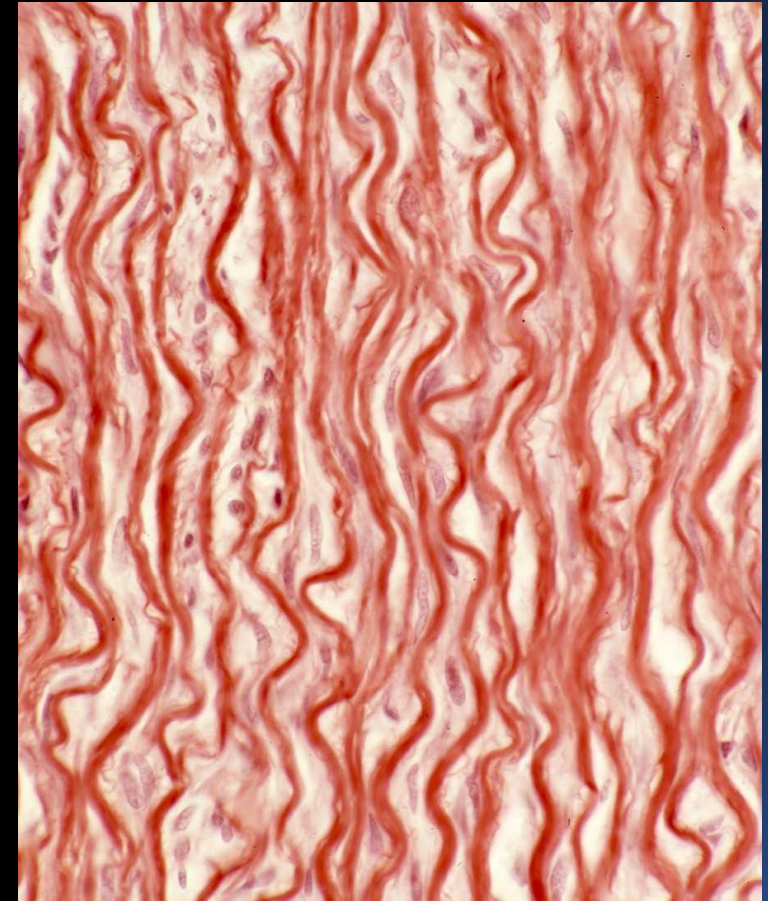
HYE



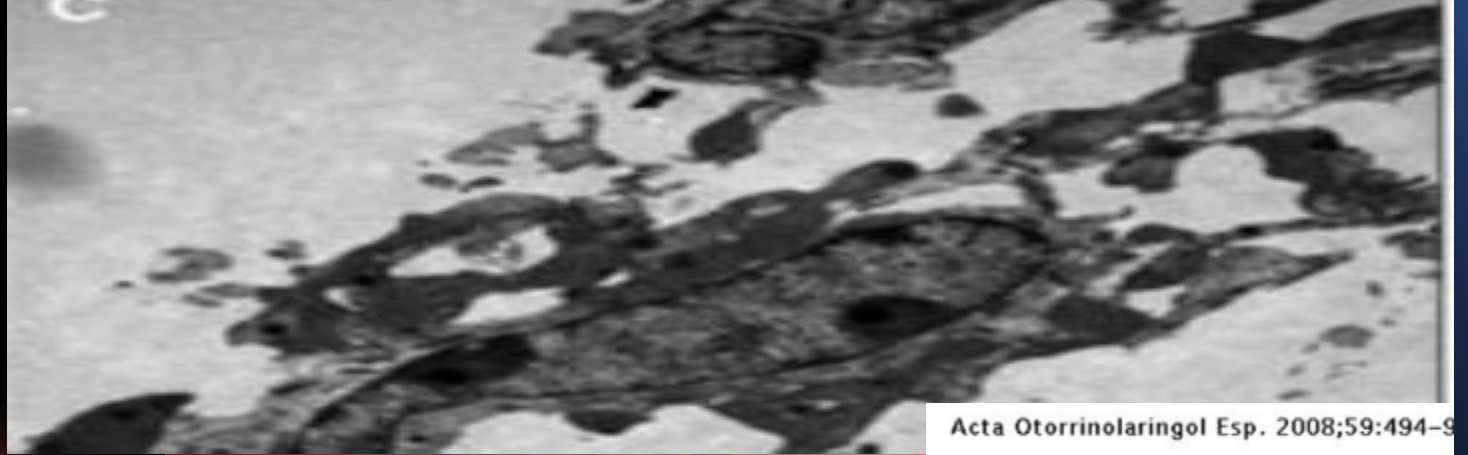
RESORCINA-FUCSINA



ORCEINA



FIBROCITOS



CÉLULAS RETICULARES

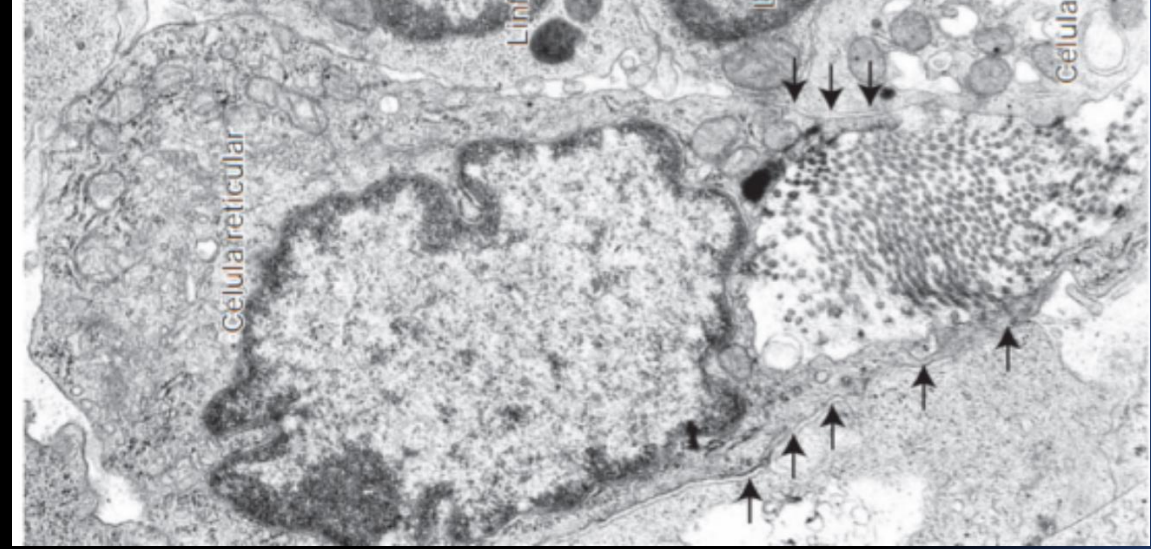
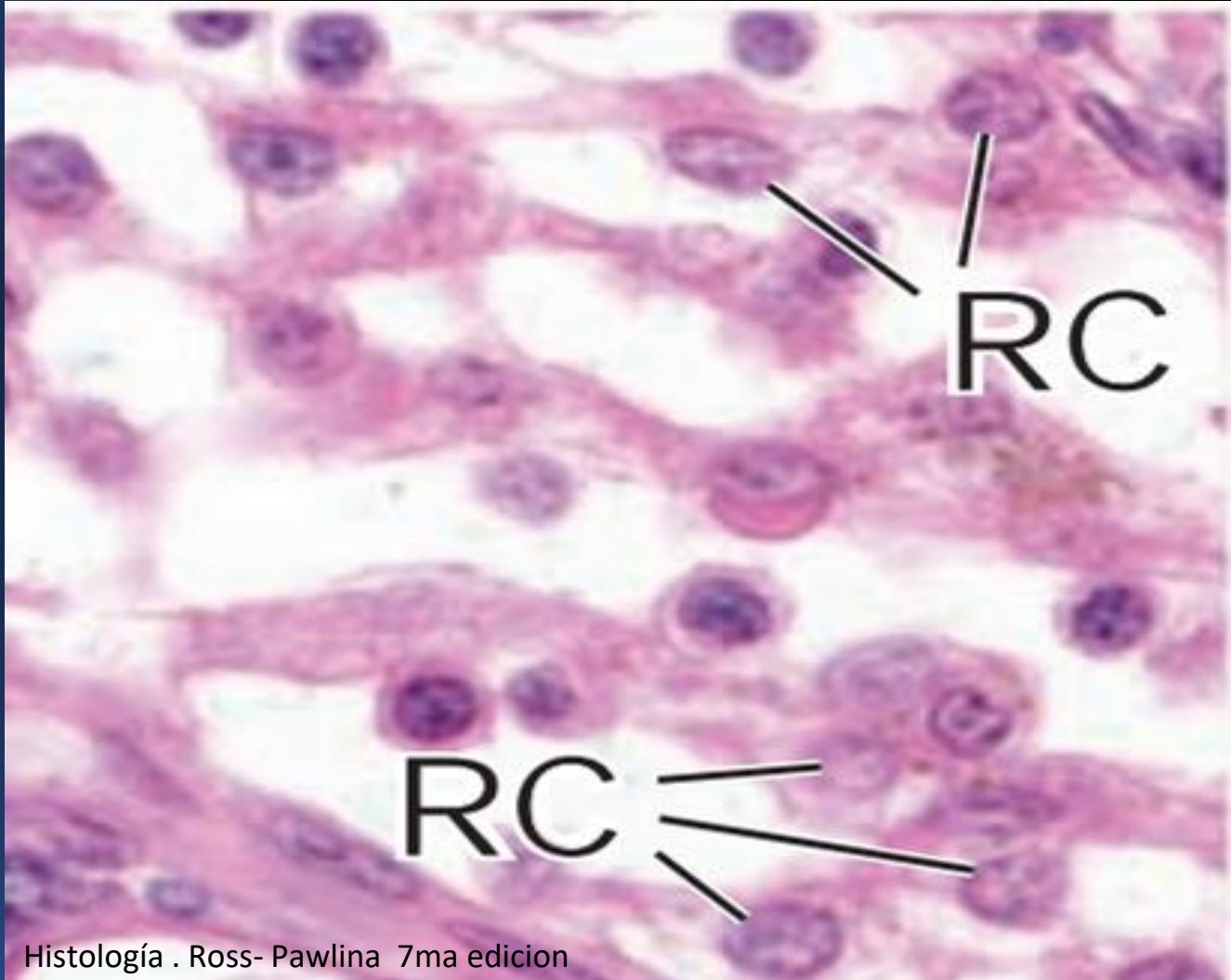
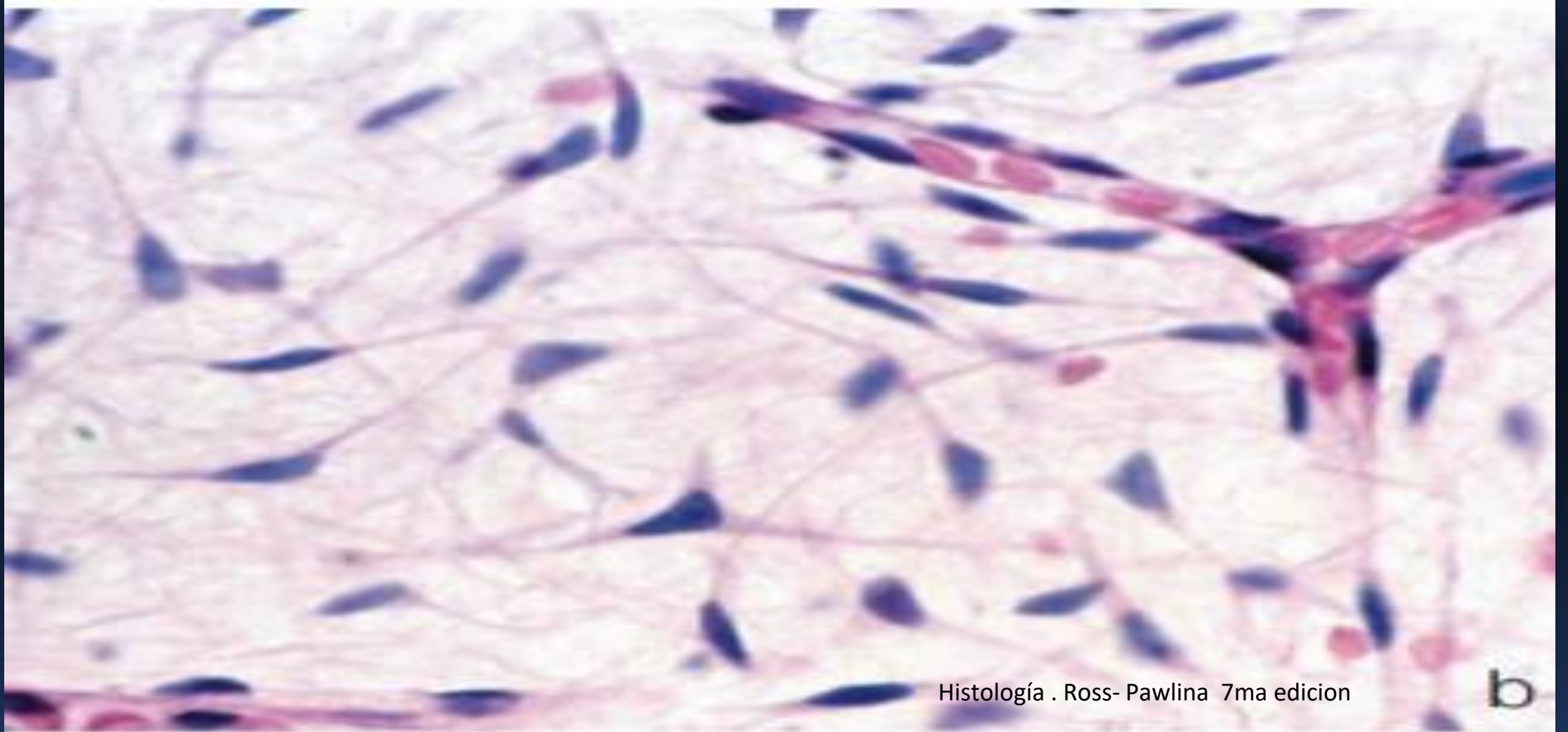


foto: Histotéc. Nicolás Spada

CÉLULAS MESENQUIMÁTICAS

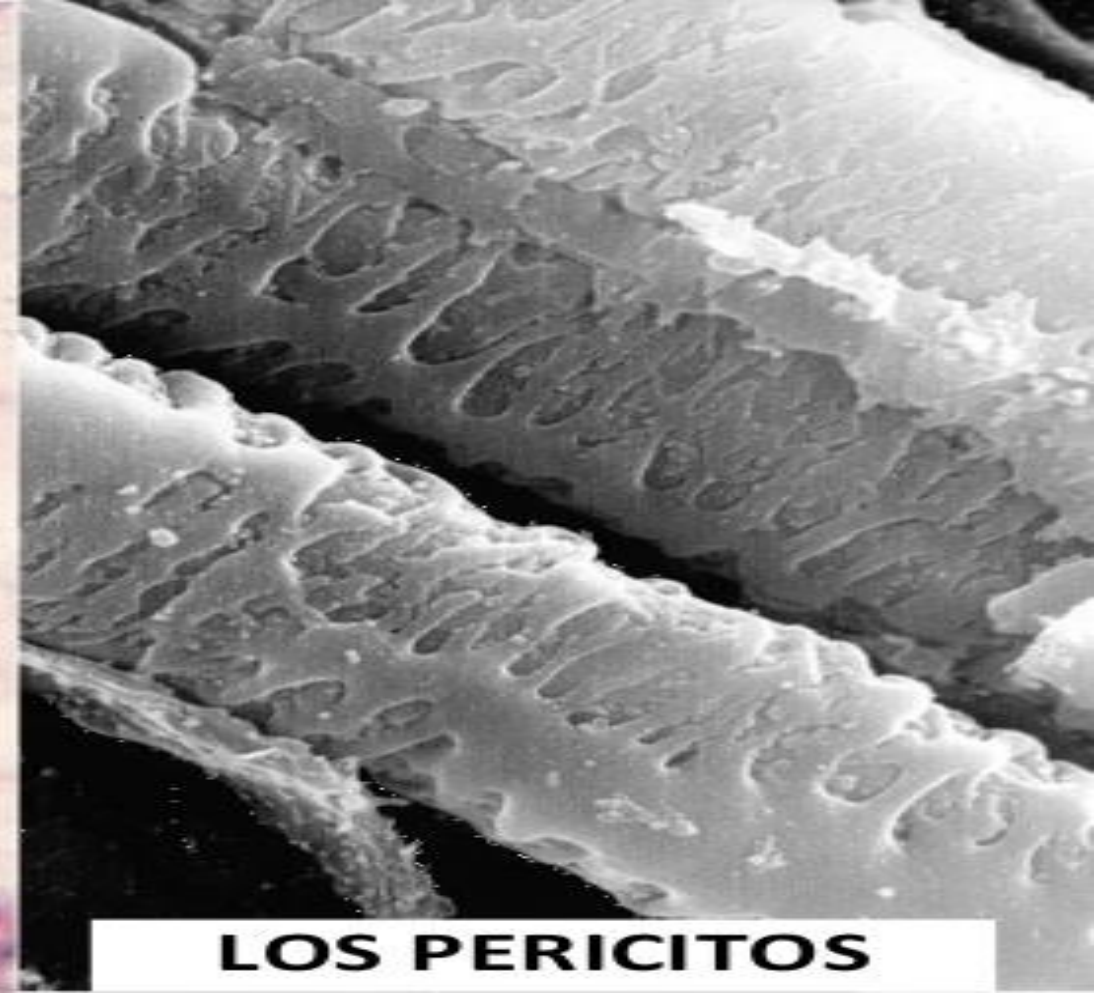


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b

PERICITOS

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LOS PERICITOS

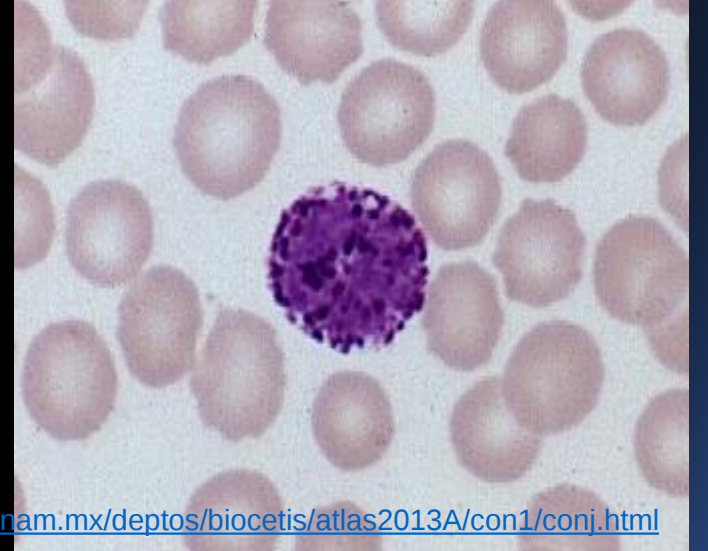
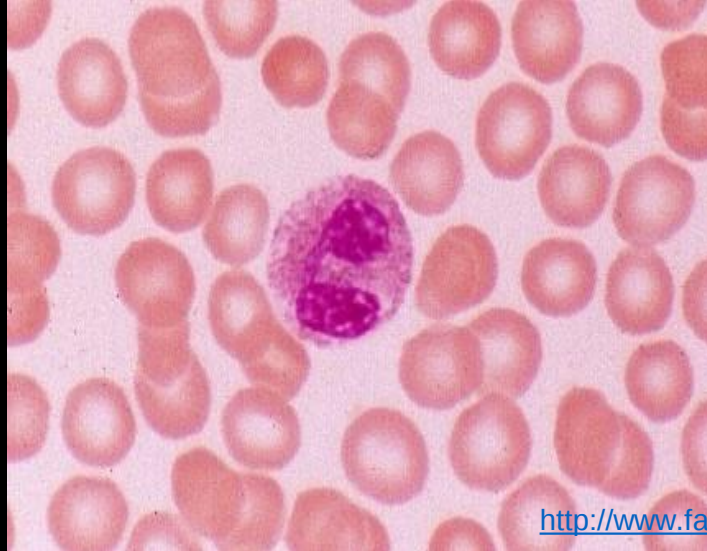
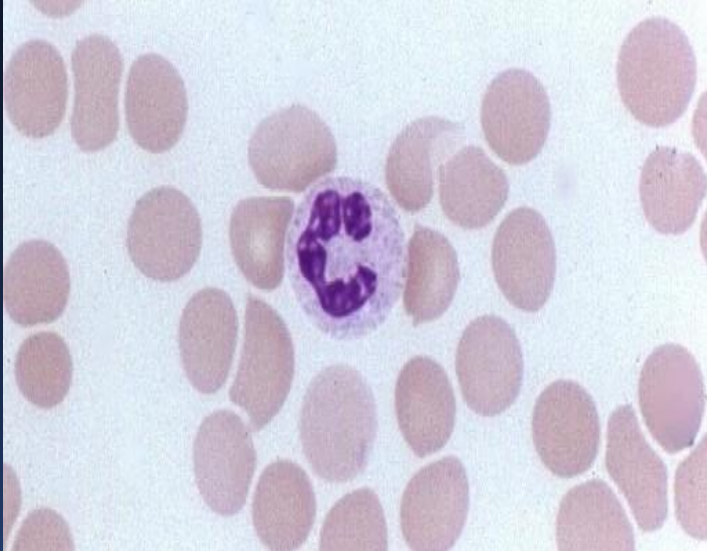
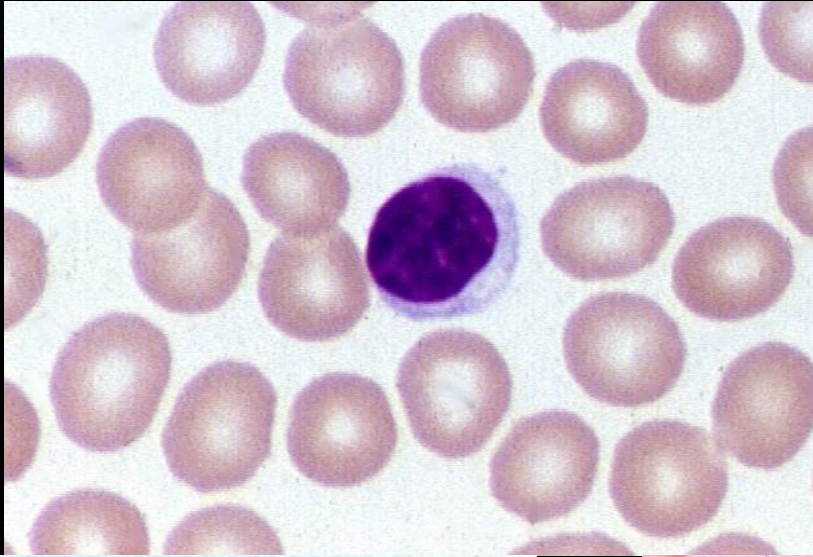
ADIPOCITOS



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CÉLULAS MÓVILES

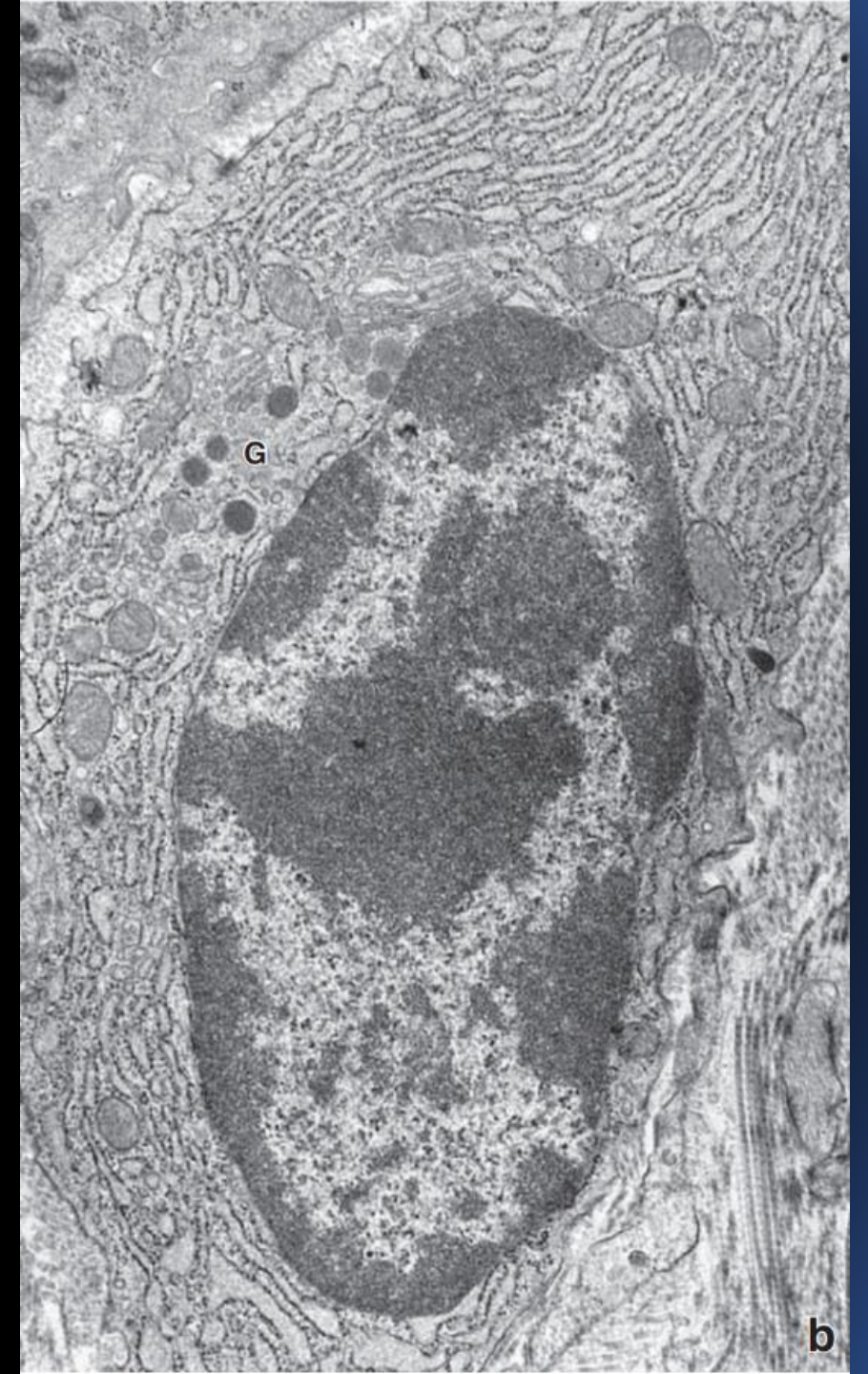
LEUCOCITOS



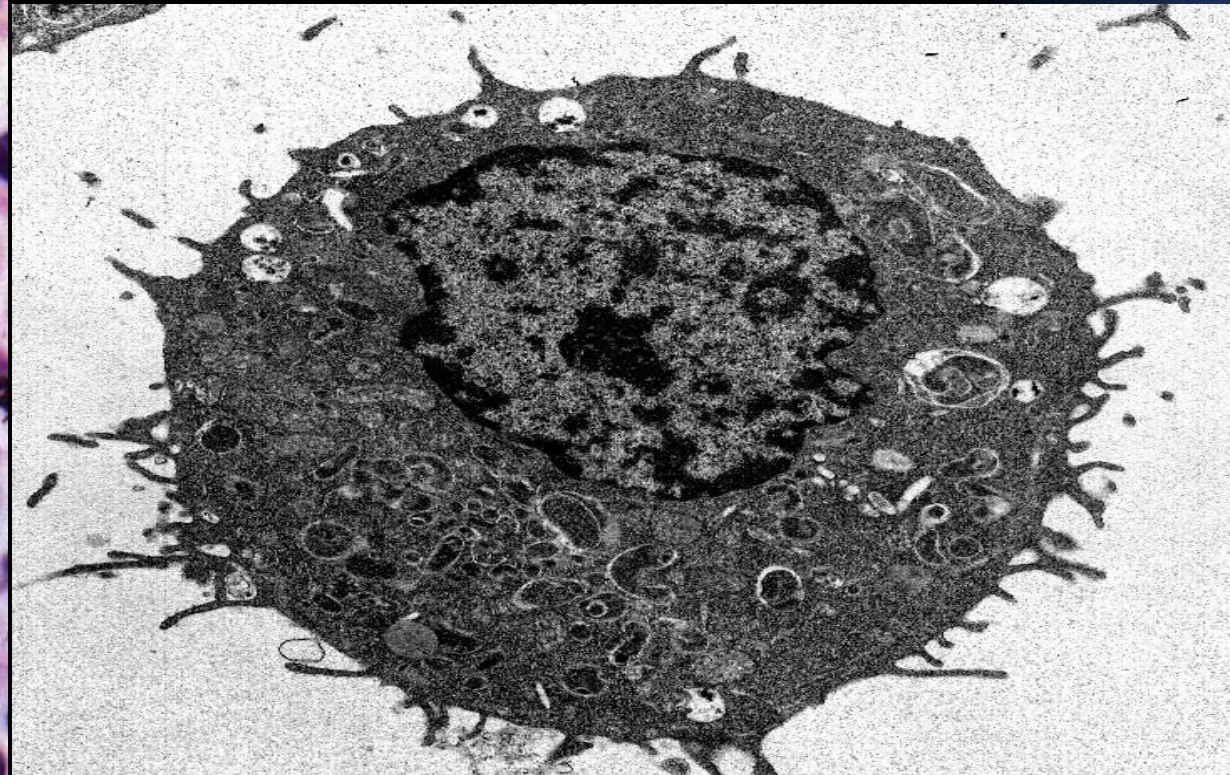
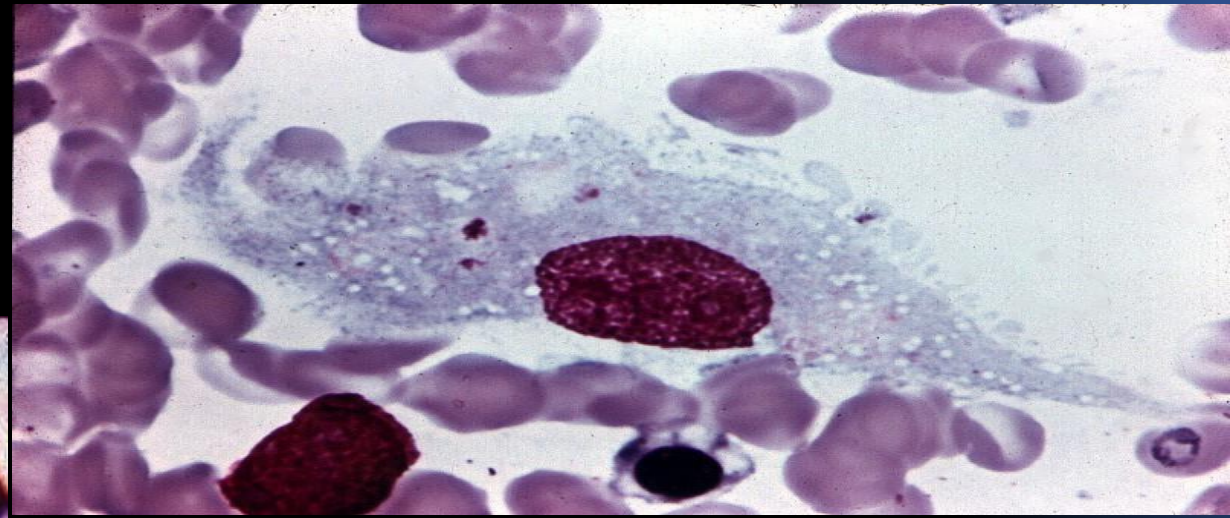
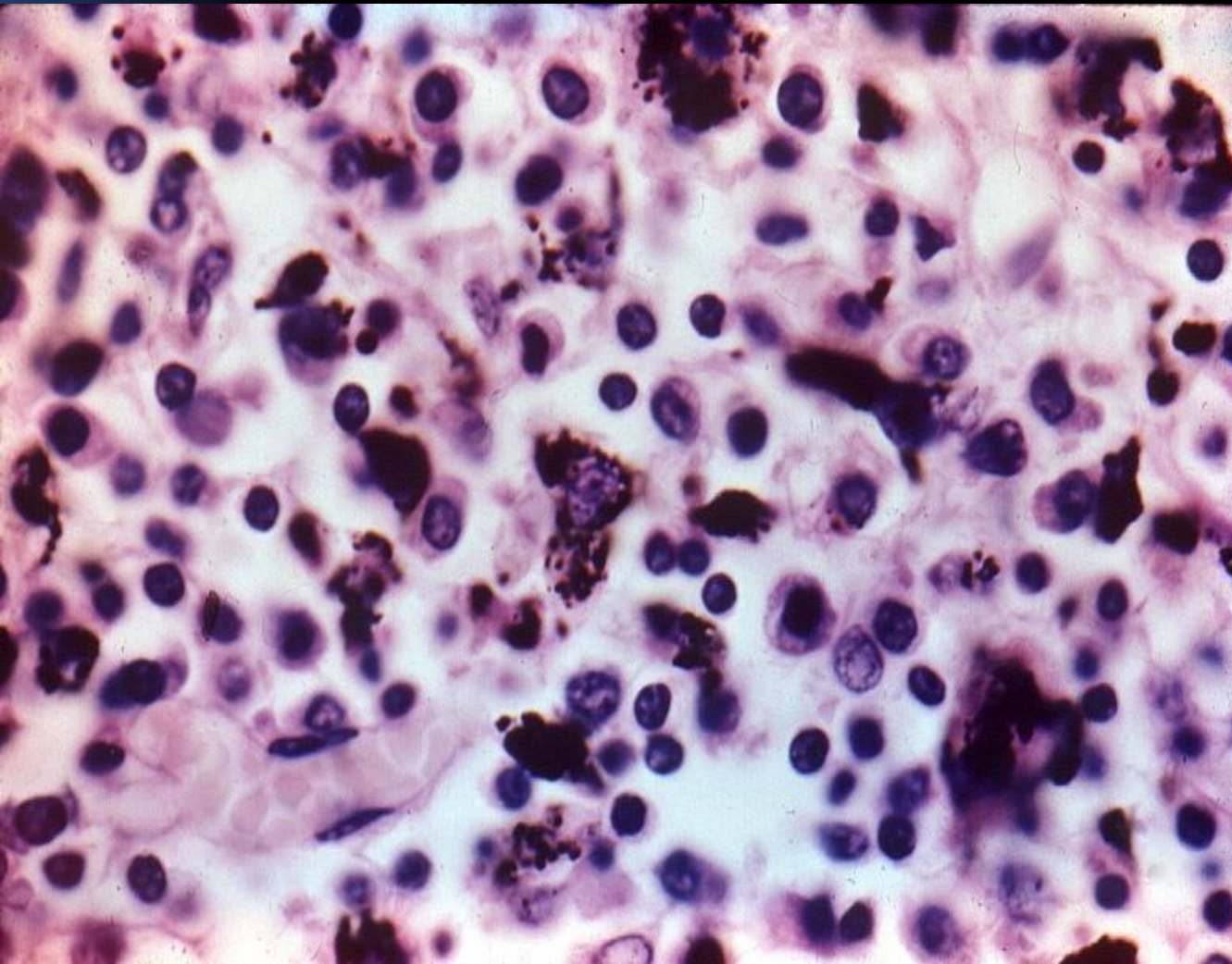
PLASMOCITOS



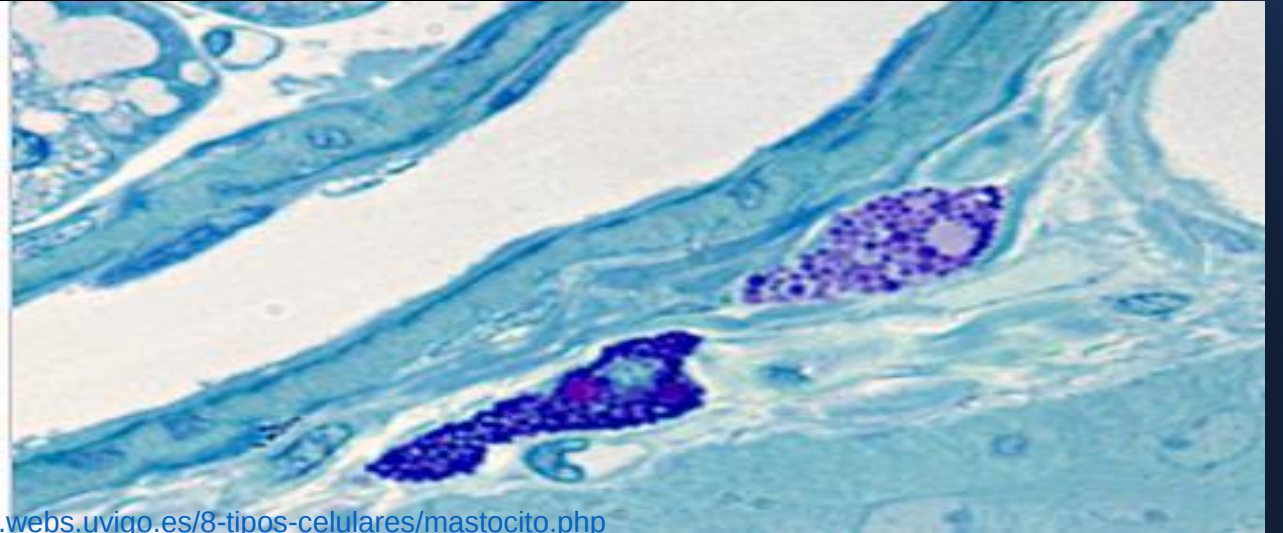
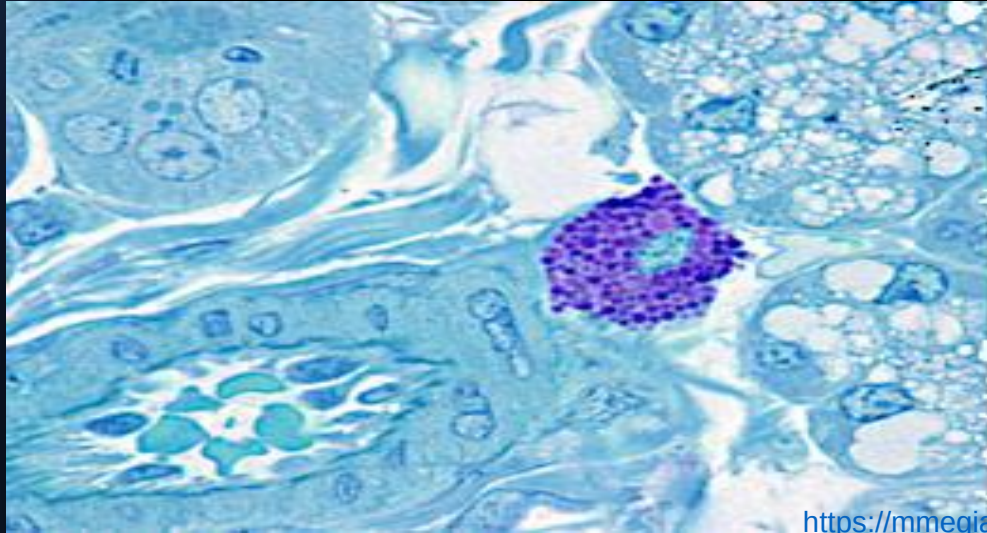
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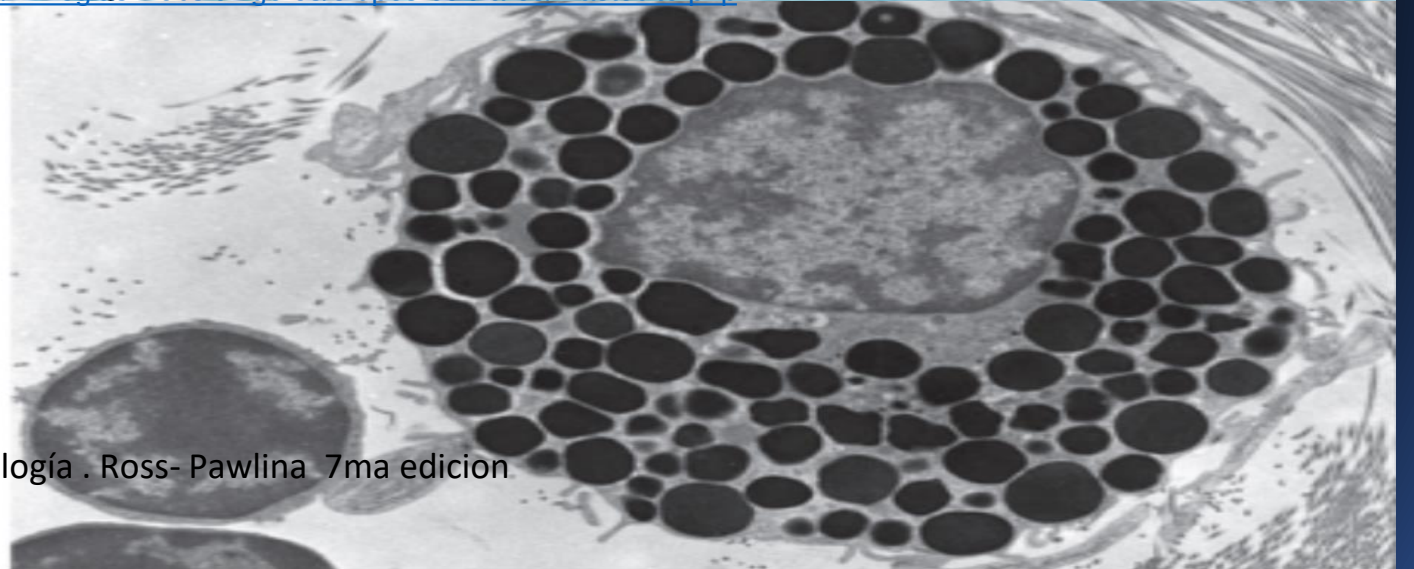
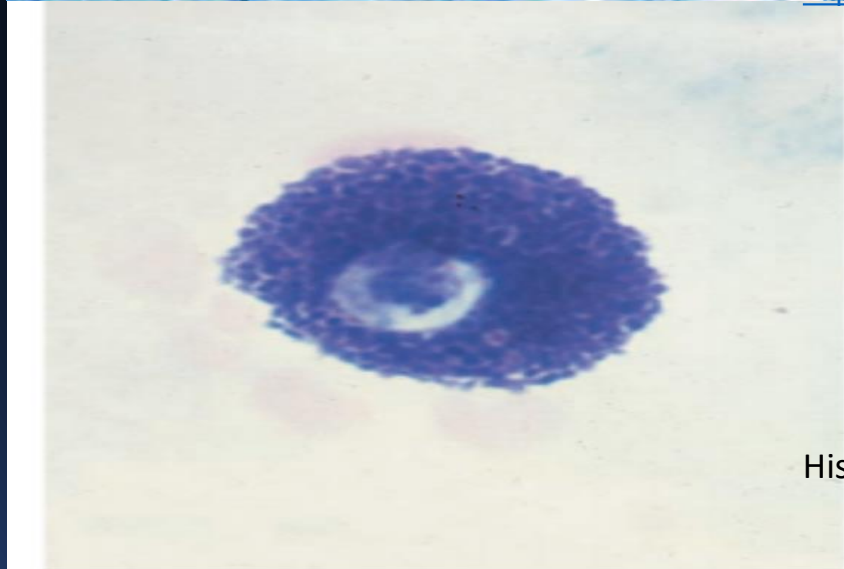
MACRÓFAGOS



MASTOCITOS



<https://mmegias.webs.uvigo.es/8-tipos-celulares/mastocito.php>



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Función



MECÁNICO, METABÓLICO Y NUTRICIONAL

- VEHICULIZACIÓN MEDIADORES BIOINFORMACIÓN
- CICATRIZACIÓN

- RESERVA ENERGÉTICA/METABÓLICA
- INMUNOLÓGICAS
- CRECIMIENTO, ETC

¡CLASIFICACION!

TEJIDO
CONECTIVO

NO ESPECIALIZADO

¿QUE
PREDOMINA EN
LA MEC, FIBRAS
O SUSTANCIA
AMORFA?

ESPECIALIZADO

ADIPOSO
HEMOPOYETICO
SANGRE
OSEO
CARTILAGINOSO
LINFOPOYETICO

DE ACUERDO A
ORGANIZACION
Y FUNCION
DETERMINADA!



tejido conectivo no especializado

COLAGENO

DENSO

MODELADO

TENDINOSO

NO MODELADO

MEMBRANOSO

LAMINAR

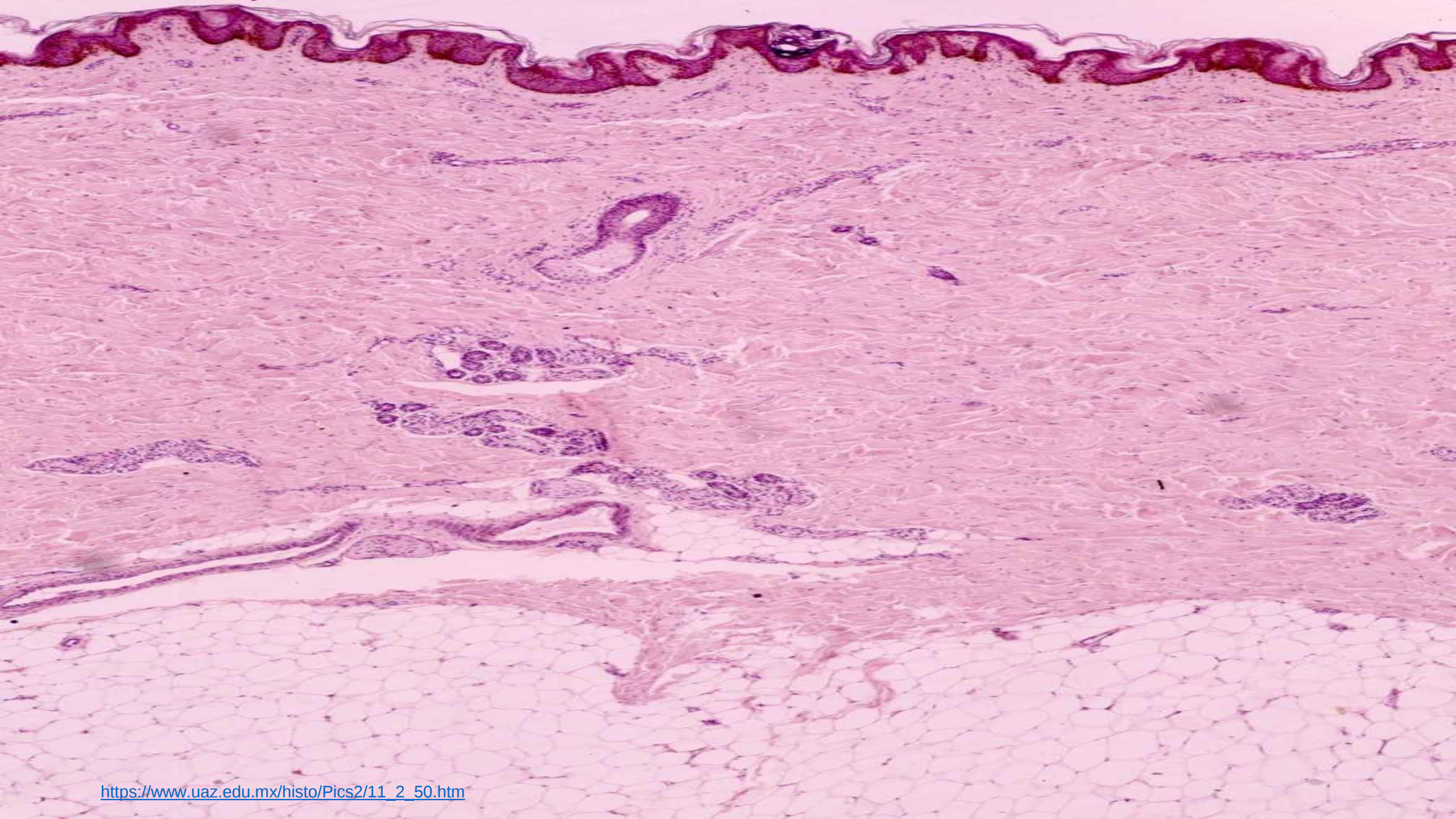
LAXO

RETICULAR

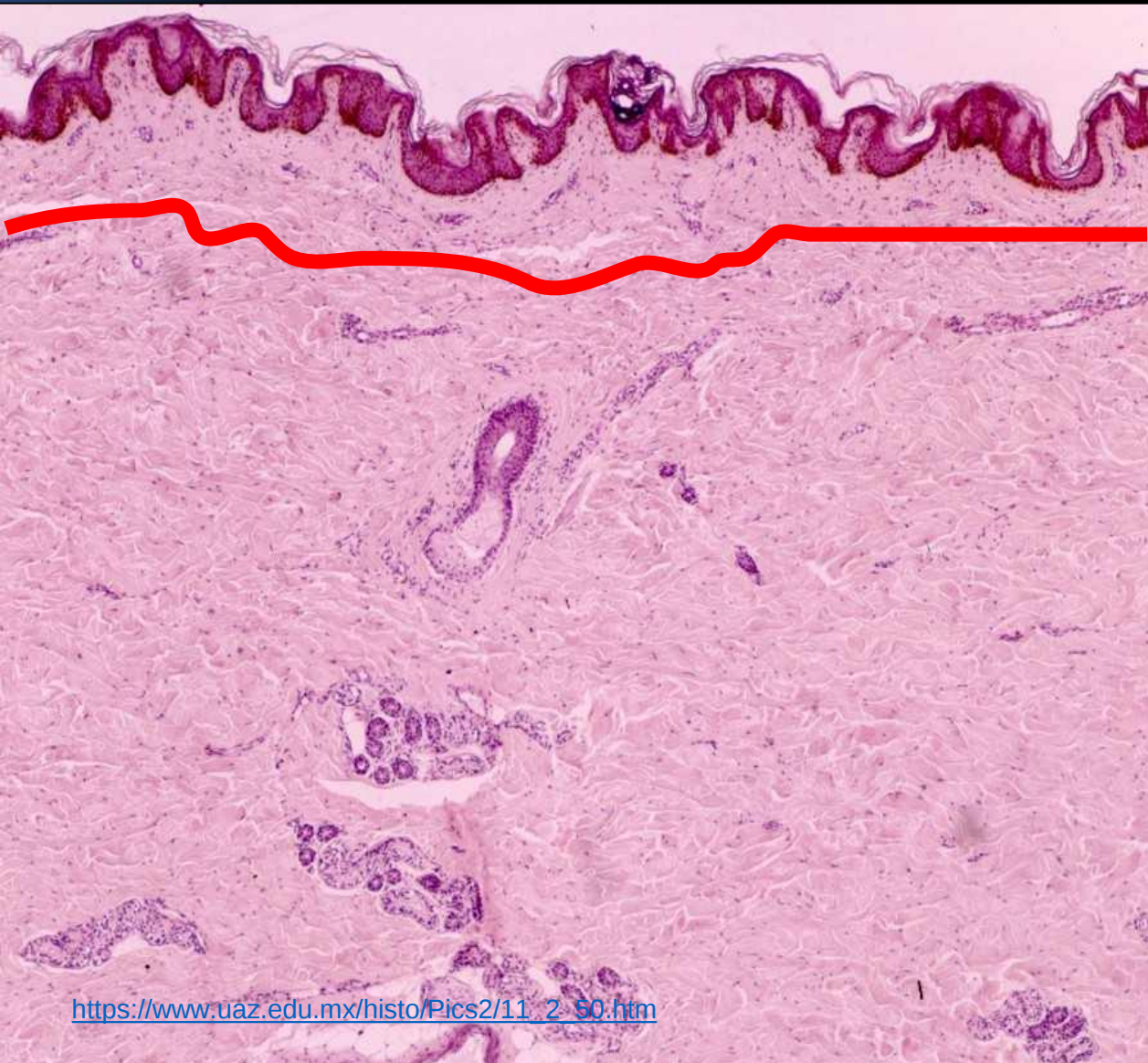
ELASTICO

MUCOSO

LOS TEJIDOS
CONECTIVOS
COLAGENOS SE
CLASIFICAN POR EL
GRADO DE
EMPAQUETAMIENTO
DE LAS FIBRAS!!!!



TCCL

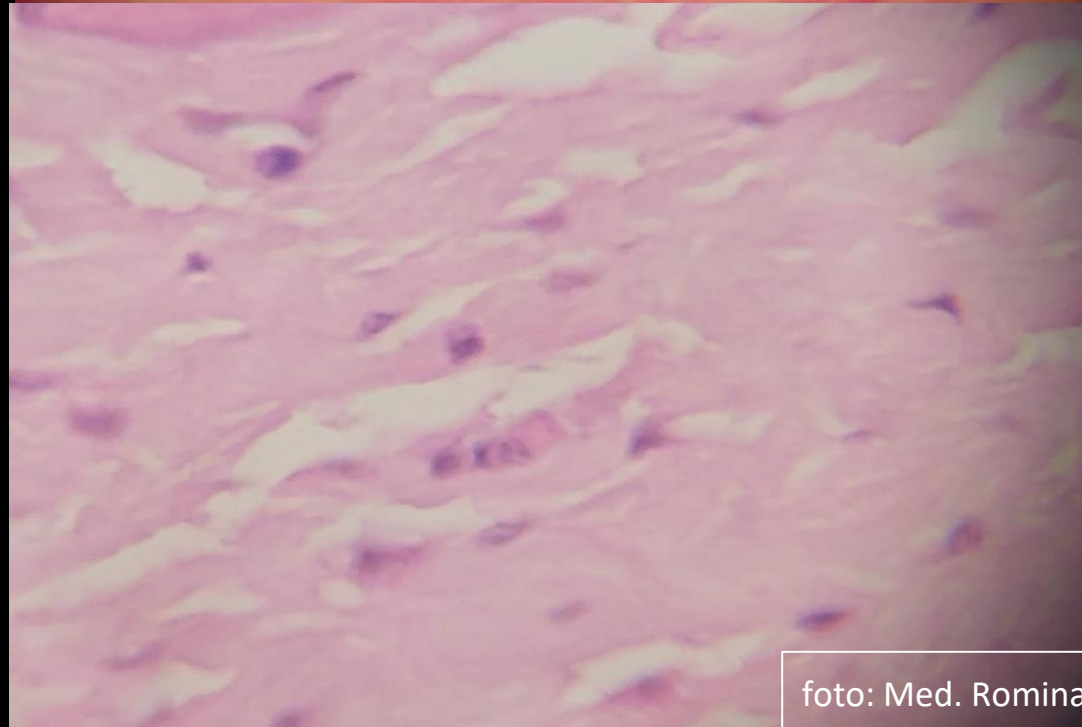
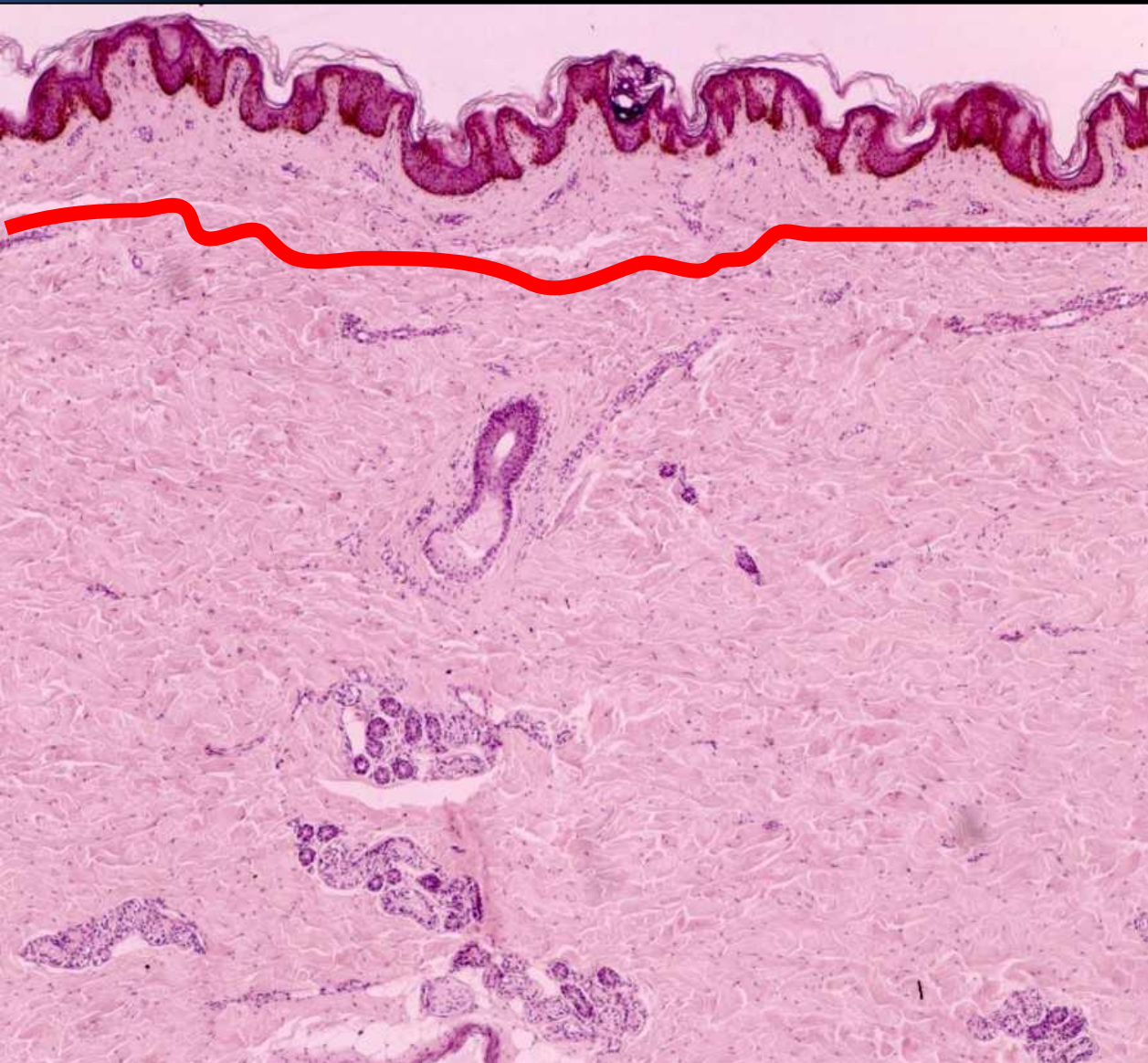


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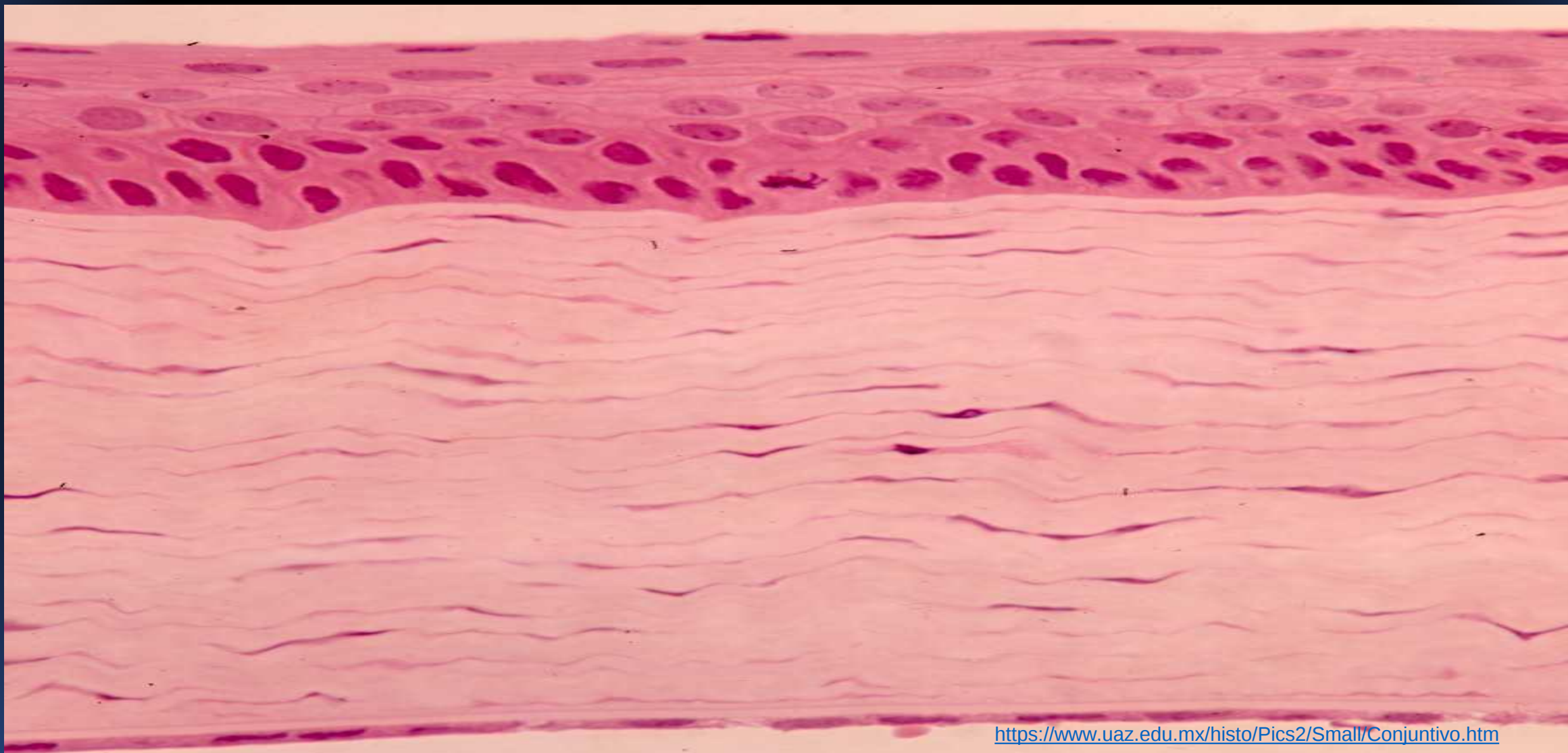


foto: Med. Romina Fanchini

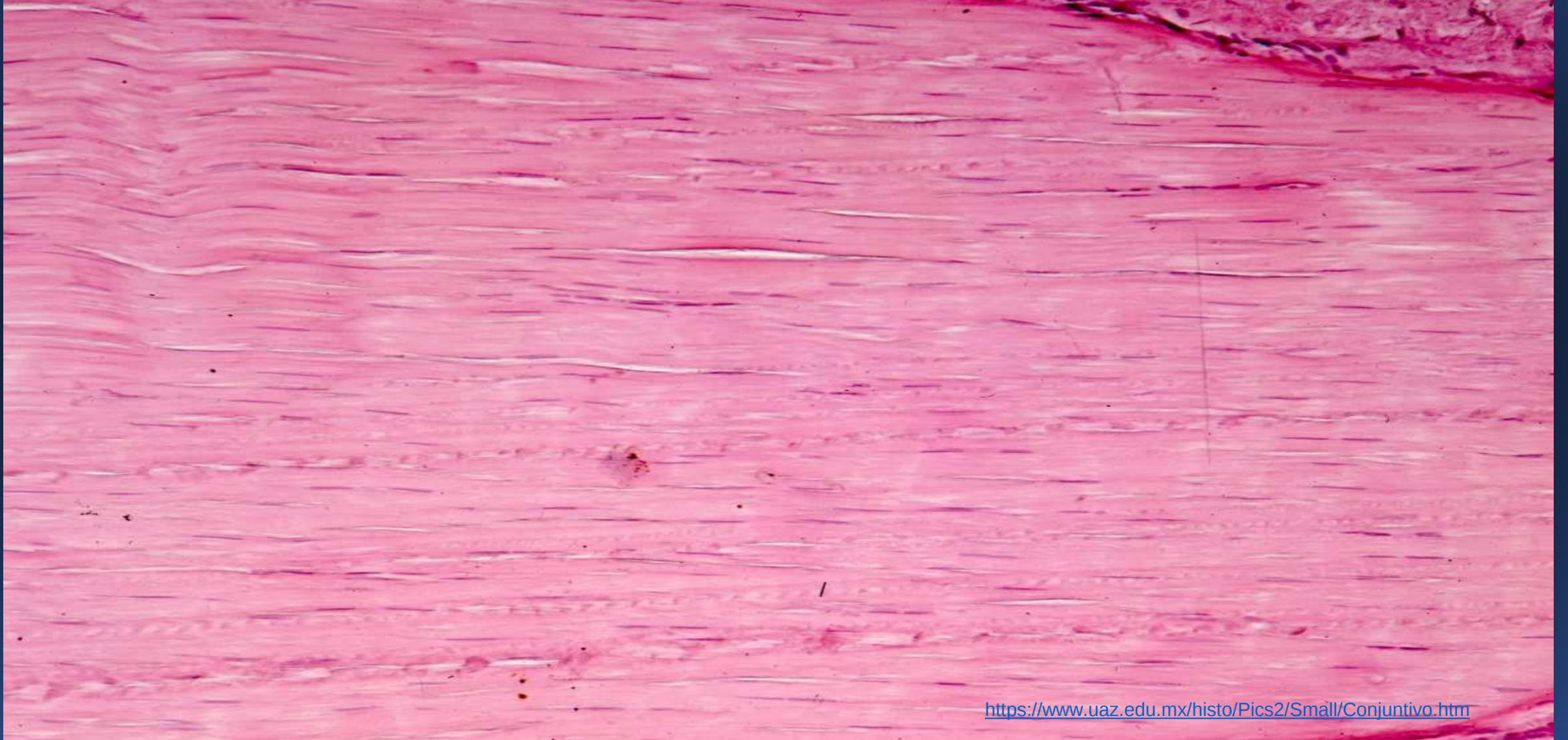
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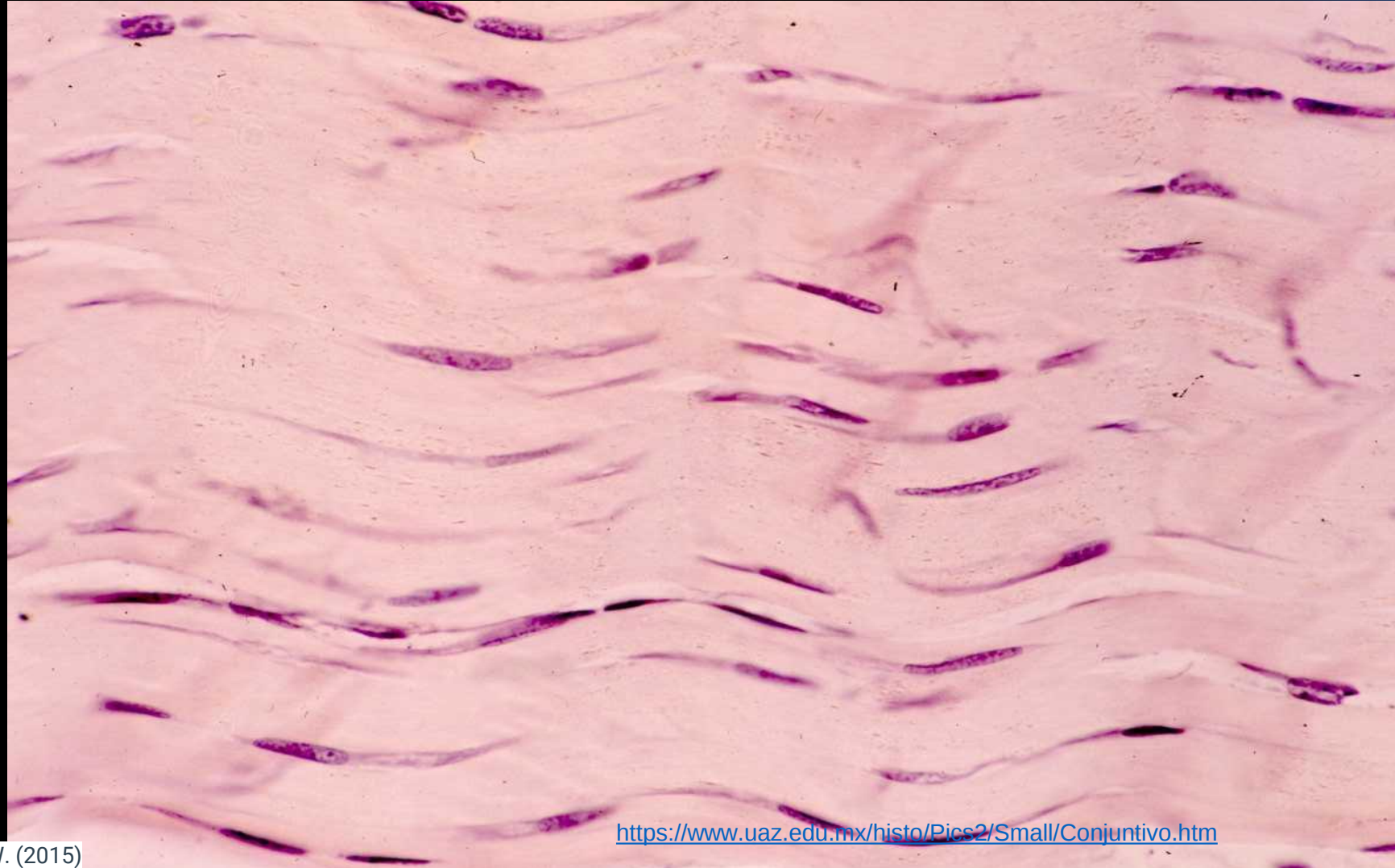
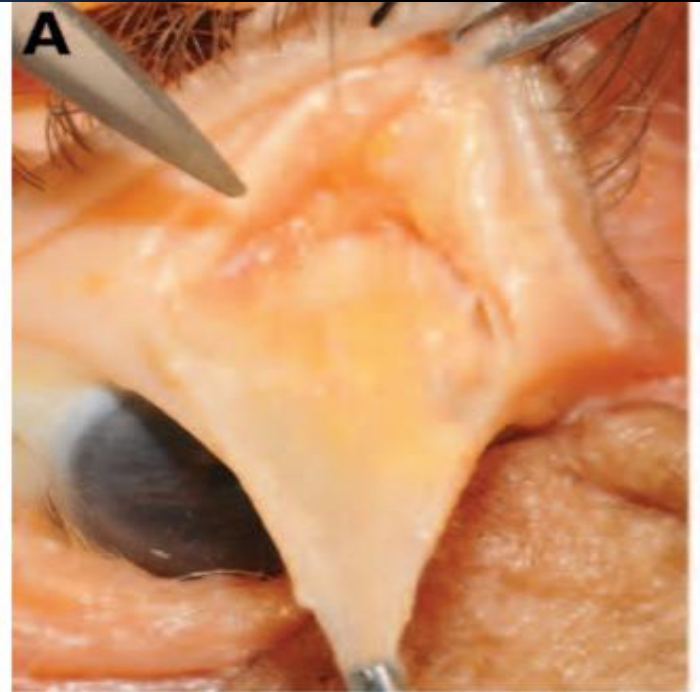
TCCD MODELADO LAMINAR



TCCD MODELADO TENDINOSO



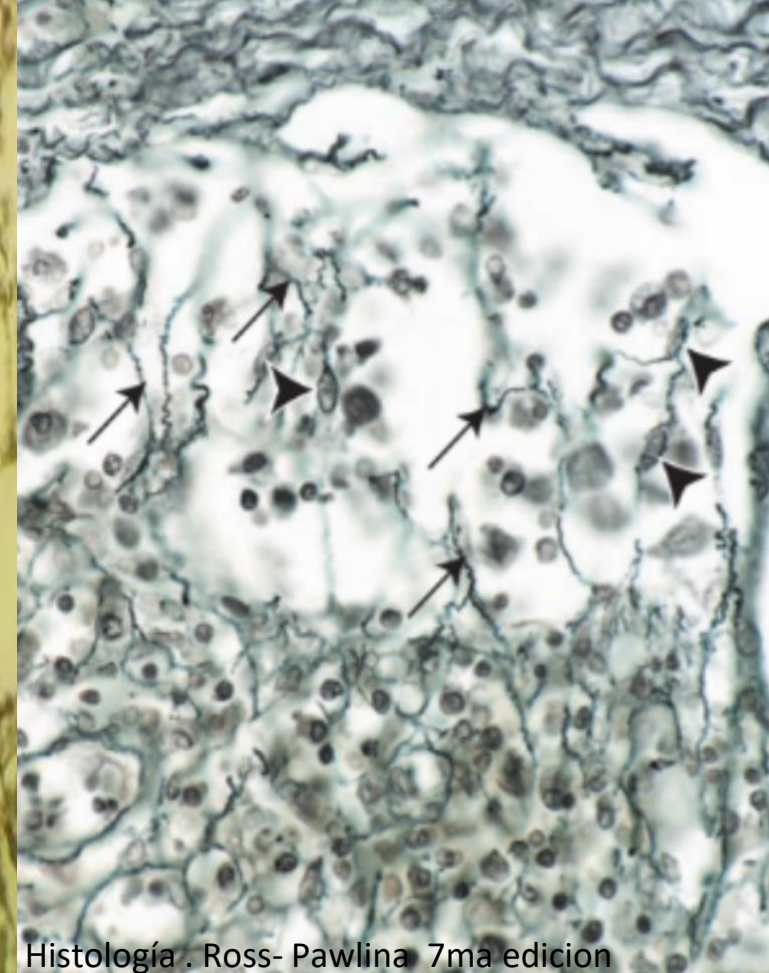
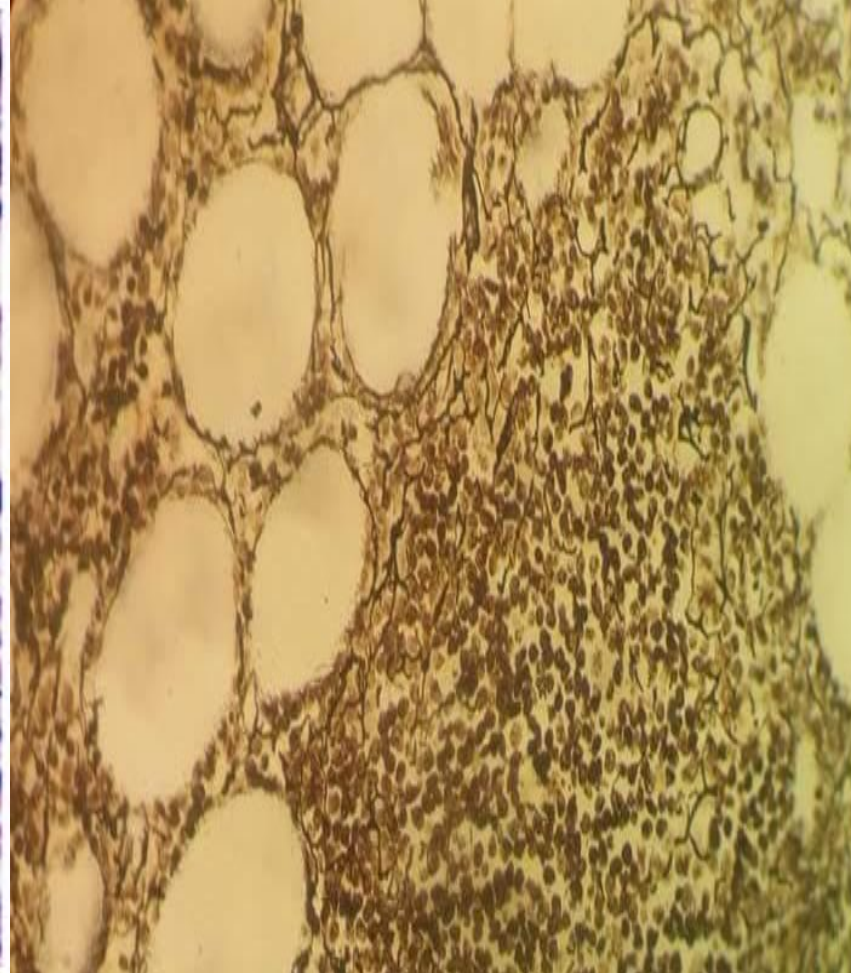
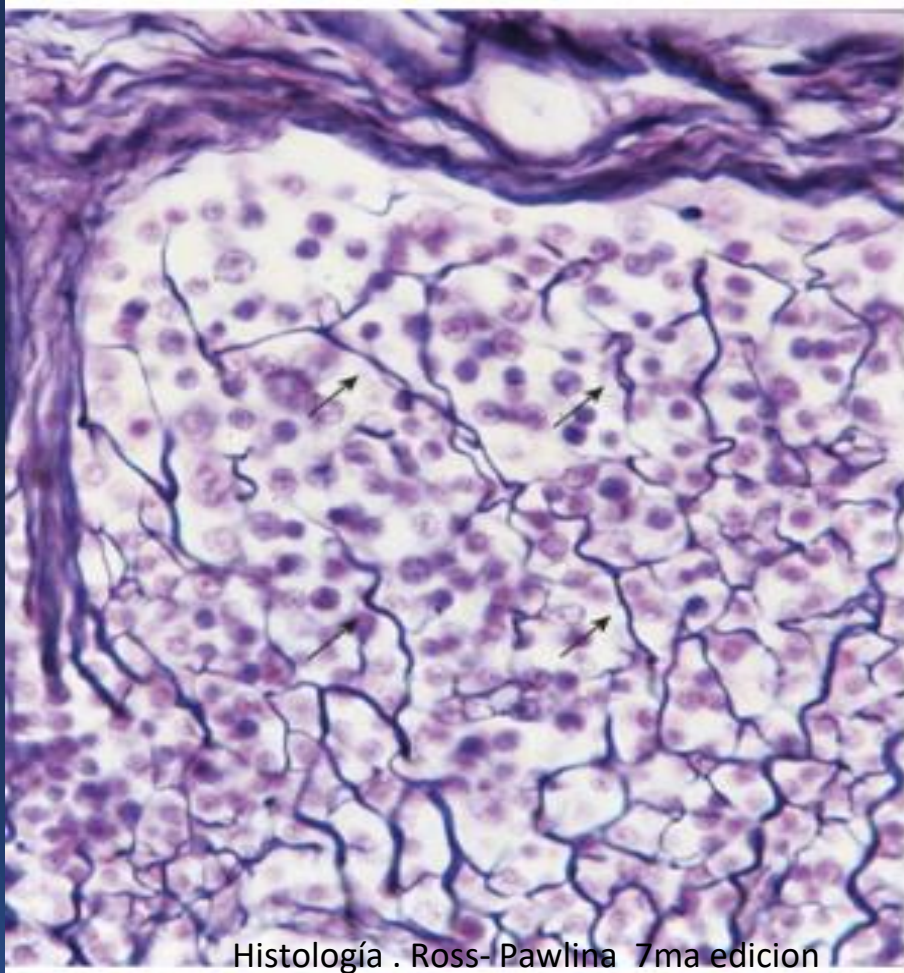
TCCD MODELADO MEMBRANOSO



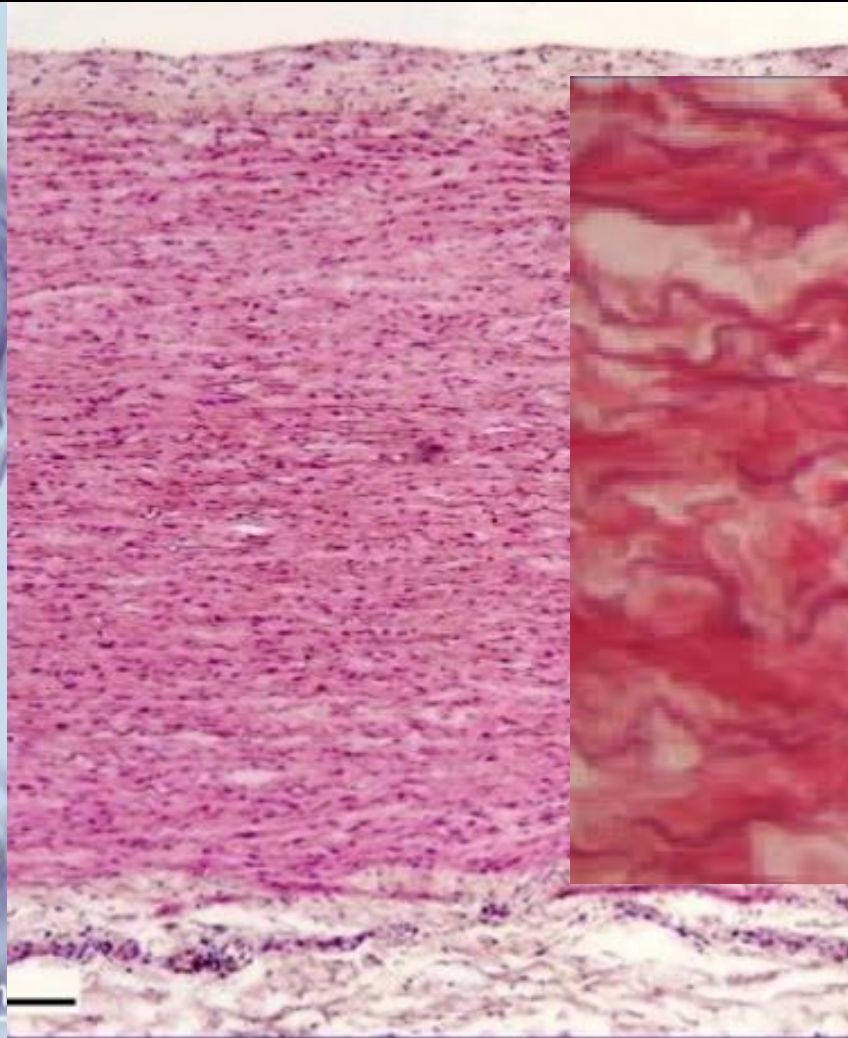
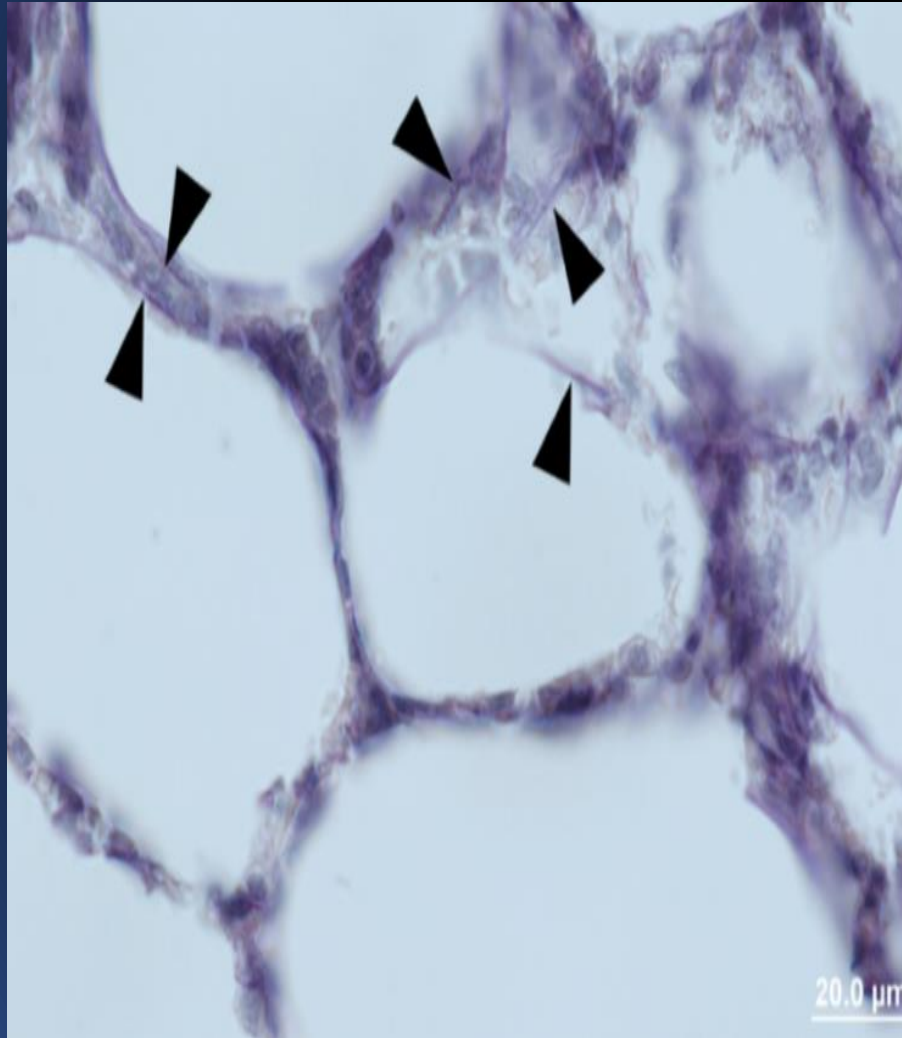
Malhotra, R., Mahadevan, V., Leatherbarrow, B., & Barrett, A.W. (2015).
. The Post-Levator Aponeurosis Fat Pad. *Ophthalmic plastic and reconstructive surgery*, 31 4, 313-7 .

<https://www.uaz.edu.mx/histo/Pics2/Small/Conjuntivo.htm>

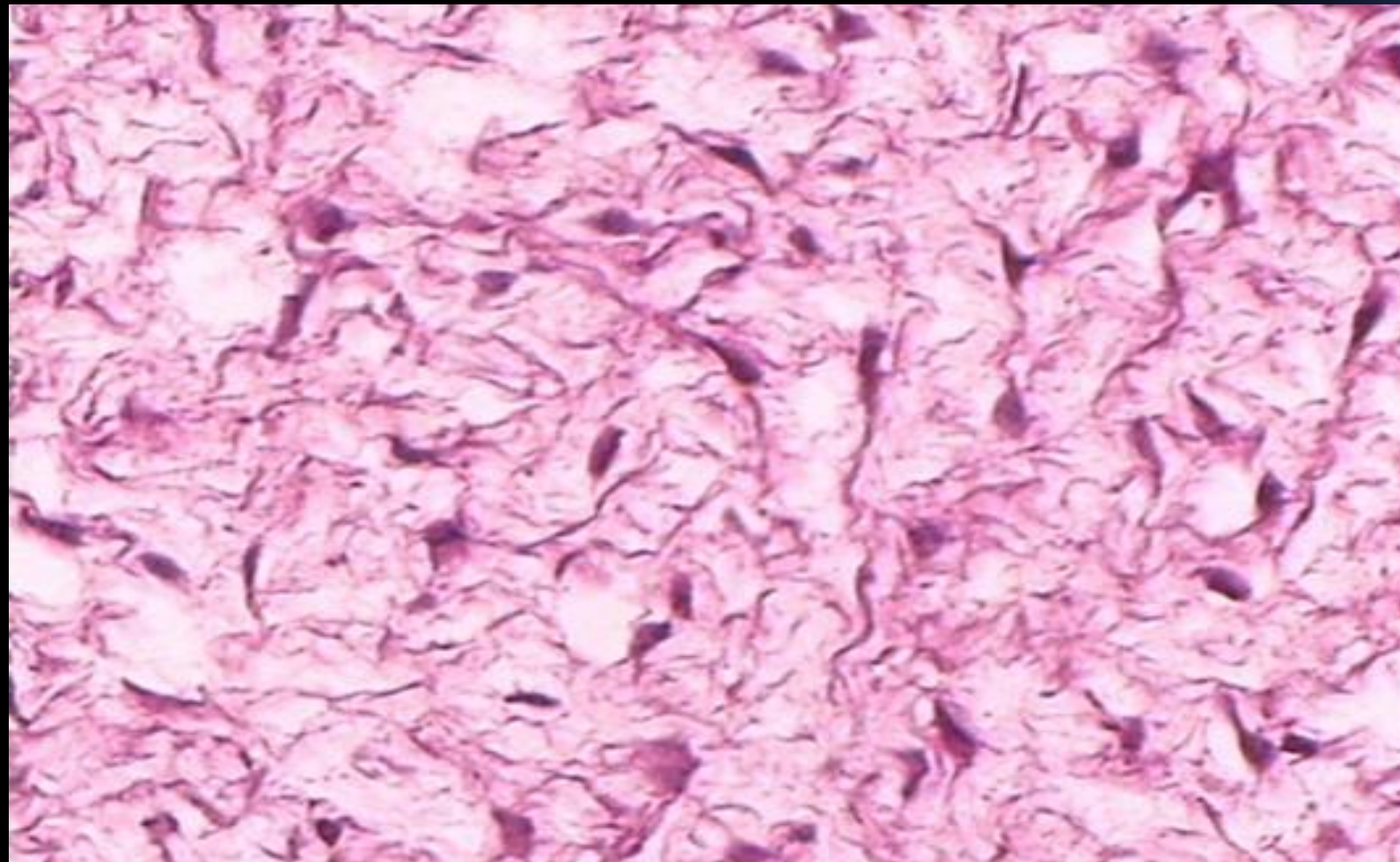
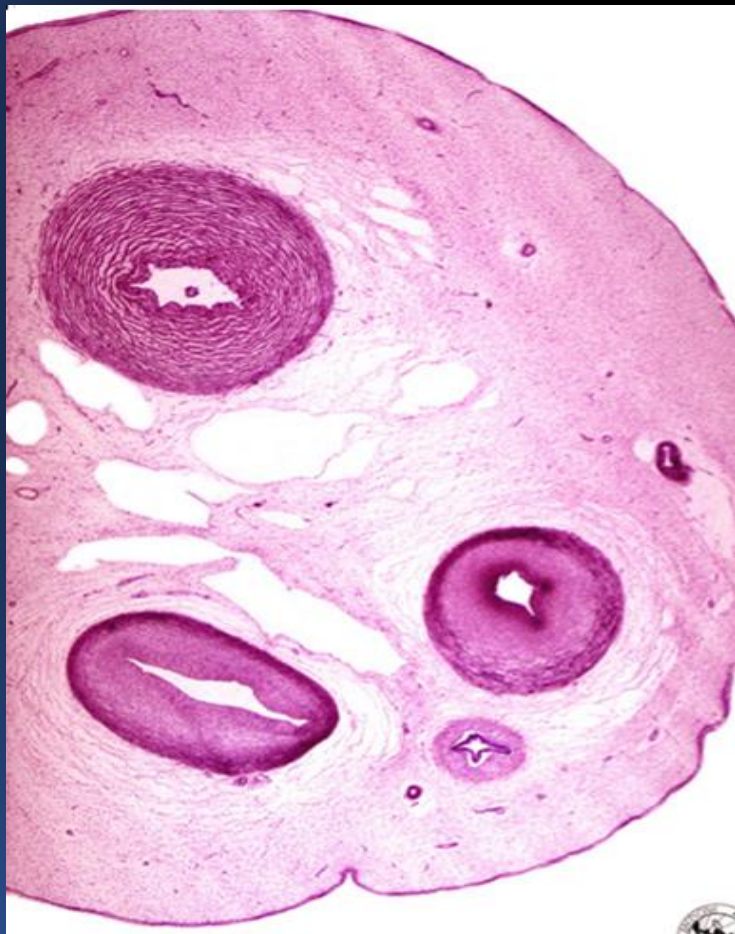
TC RETICULAR



TC ELASTICO

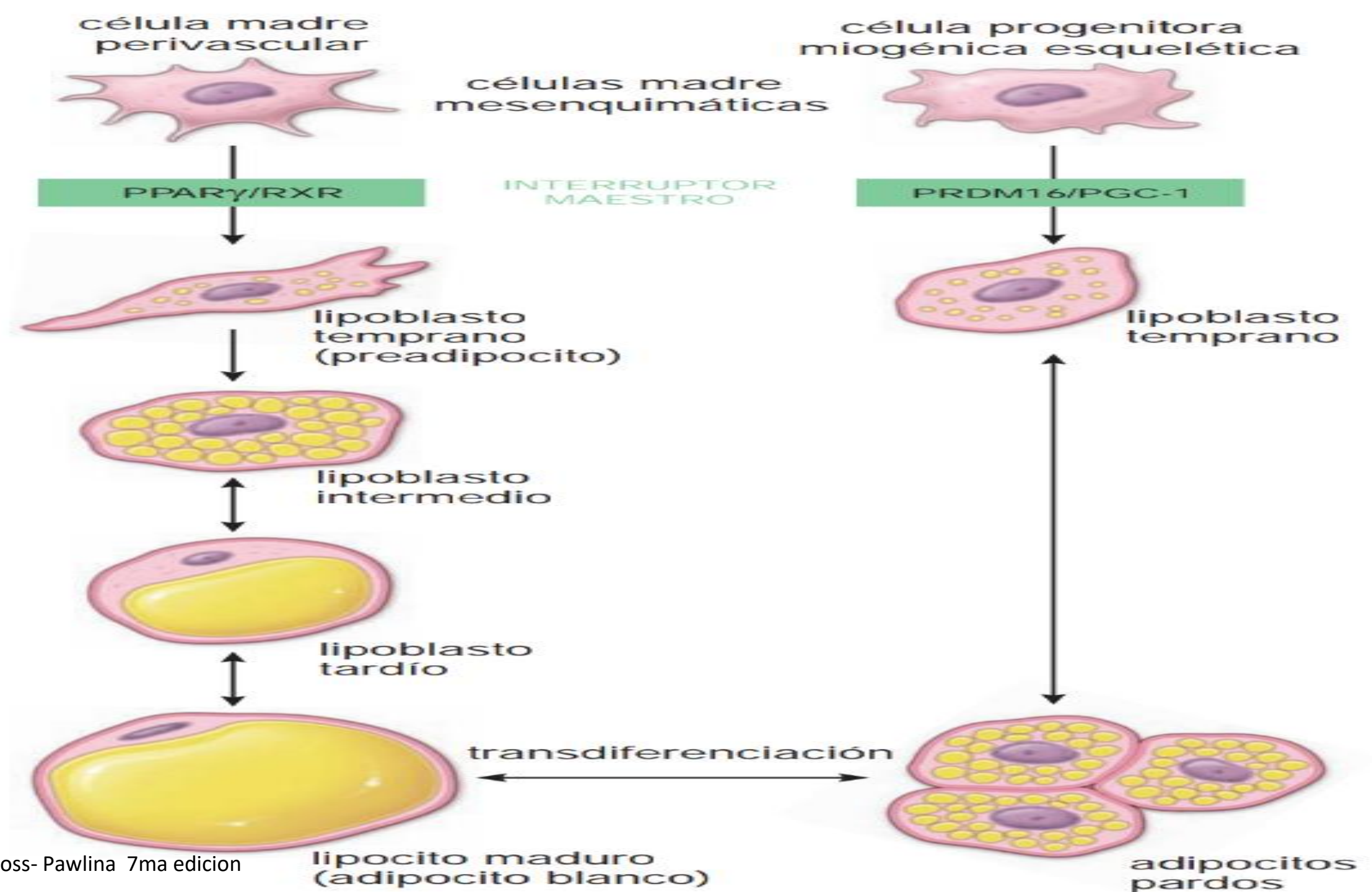


TC MUCOSO





TEJIDO ADIPOSEO



TEJIDO ADIPOSO

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graph LR; A[TEJIDO ADIPOSO] --> B[BLANCO-AMARILLO-UNILOCULAR]; A --> C[PARDO-MARRON-MULTILOCULAR]; B --> D["RESERVA ENERGETICA: LIPOLISIS (ADULTOS)"]; B --> E["CARACTERES SEXUALES 2RIOS Y MET HORMONAL"]; B --> F["FX ENDOCRINA LEPTINAS Y TRANSFORMACION HNAS SEXUALES"]; B --> G["UNICA GOTA DE LIPIDOS (TRIGLICERIDOS)"]; C --> H["ENERGIA=CALOR (NIÑOS PEQUEÑOS X DESACOMPLE CADENA ELECTRONES FOSFORILACION OXIDATIVA)"]; C --> I["MULTIPLES GOTAS LIPIDICAS"];
```

BLANCO-AMARILLO-UNILOCULAR

RESERVA ENERGETICA: LIPOLISIS (ADULTOS)
CARACTERES SEXUALES 2RIOS Y MET HORMONAL
FX ENDOCRINA LEPTINAS Y TRANSFORMACION HNAS SEXUALES

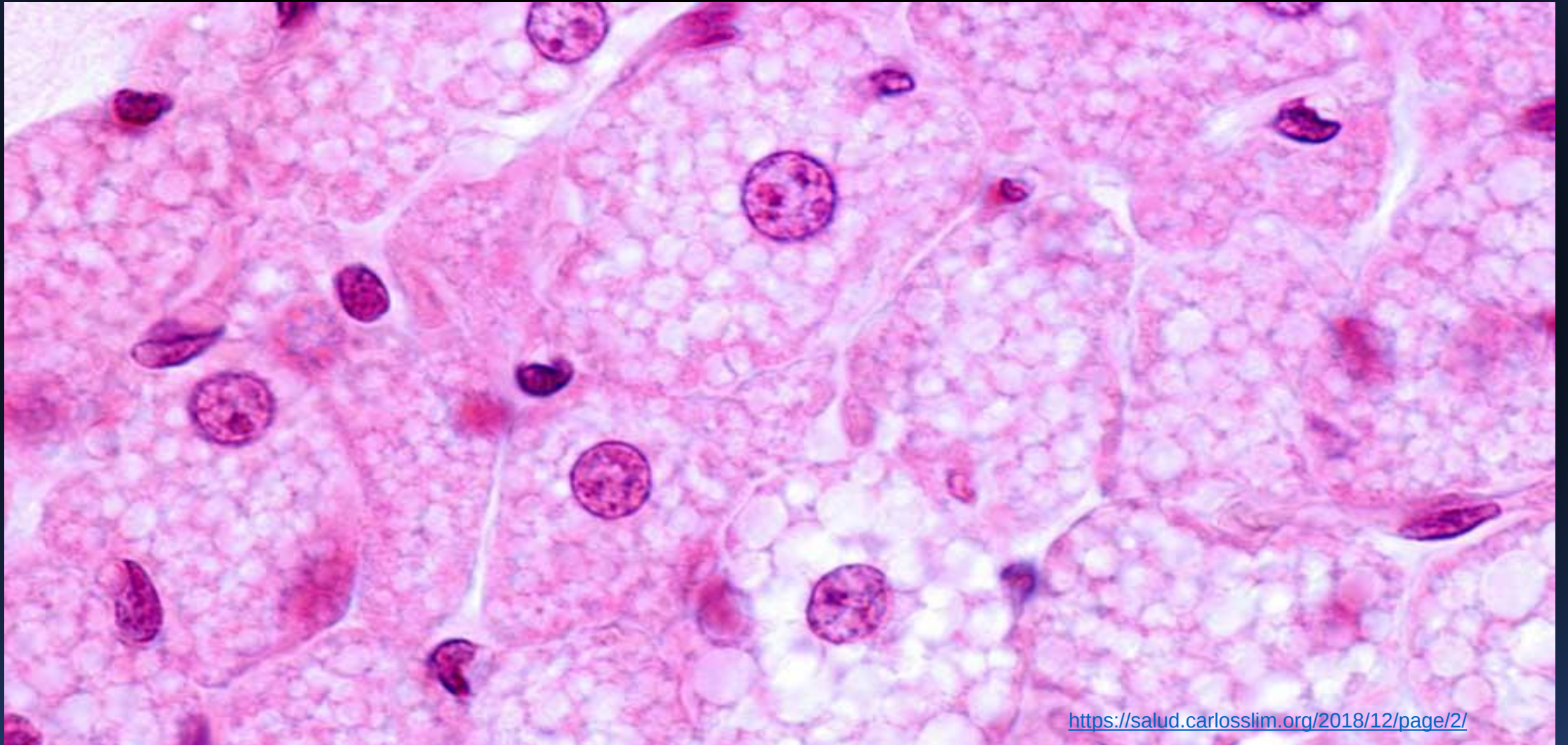
UNICA GOTA DE LIPIDOS (TRIGLICERIDOS)

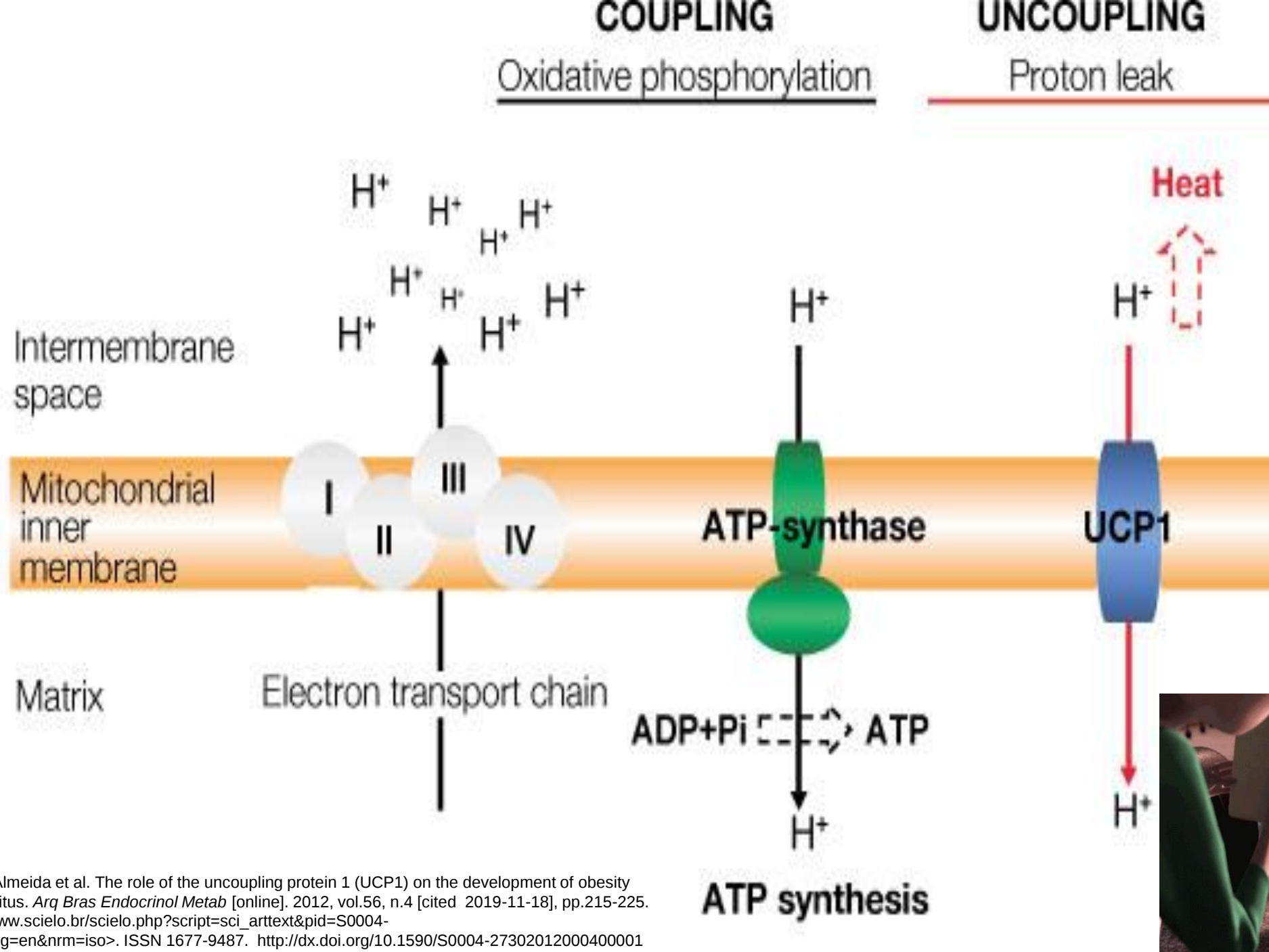
PARDO-MARRON-MULTILOCULAR

ENERGIA=CALOR (NIÑOS PEQUEÑOS X DESACOMPLE CADENA ELECTRONES FOSFORILACION OXIDATIVA)

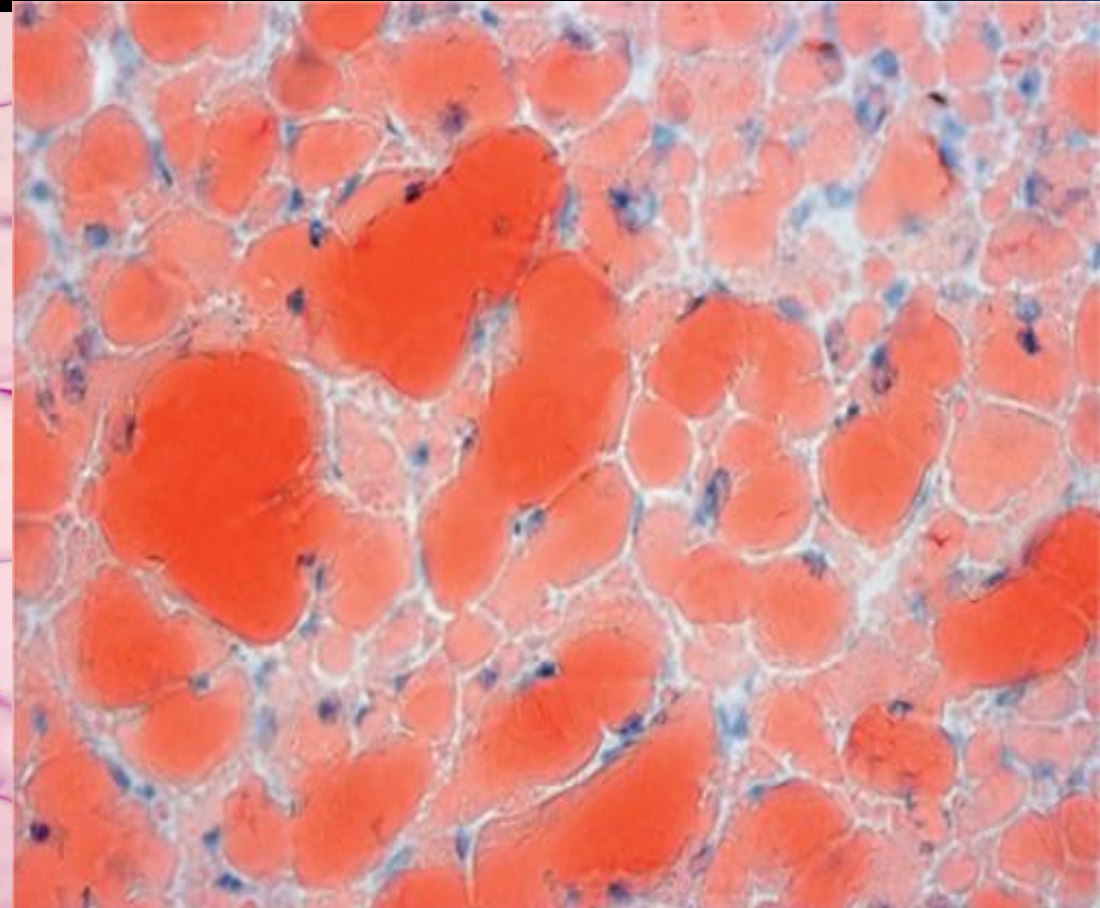
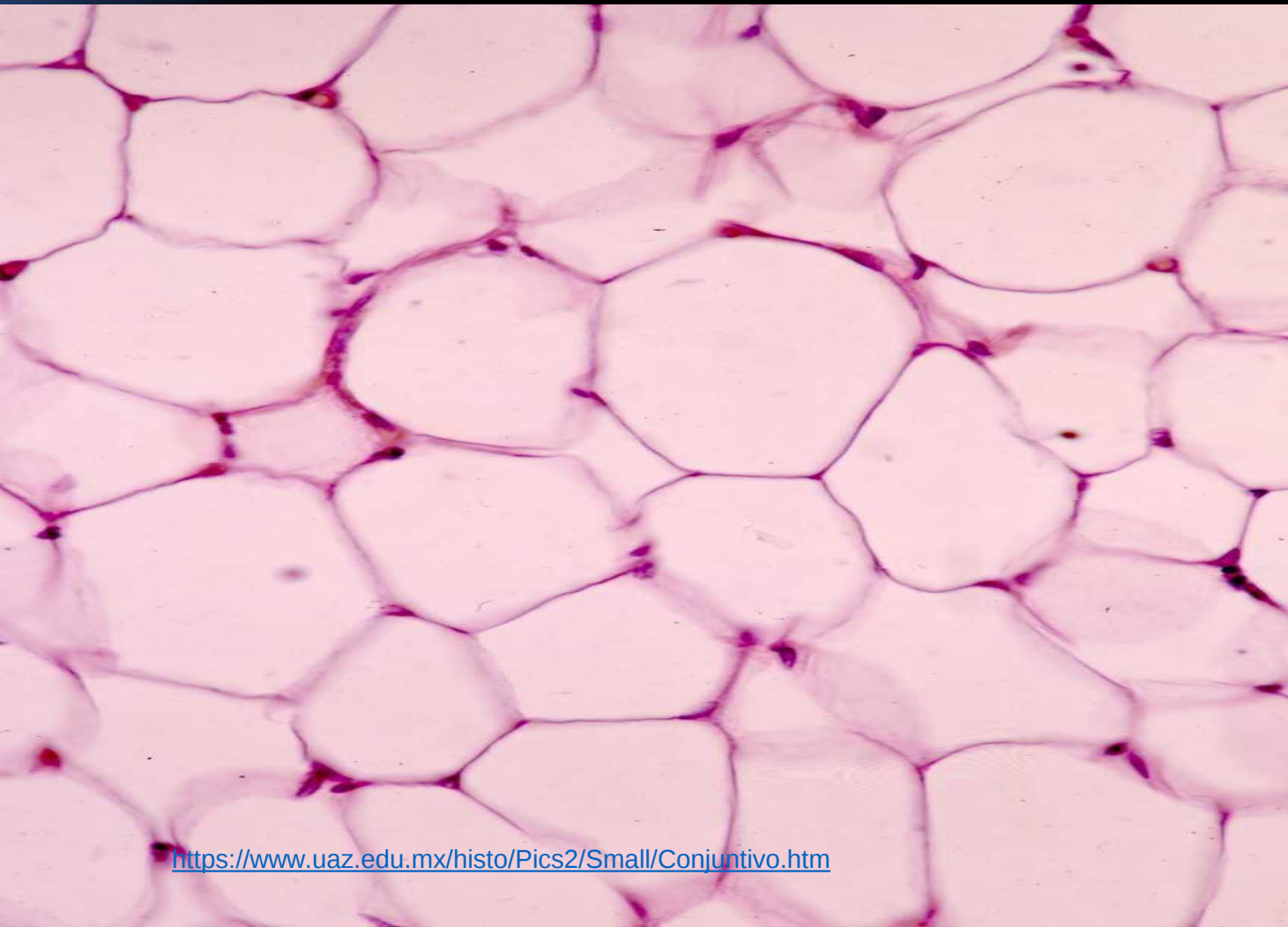
MULTIPLES GOTAS LIPIDICAS

MARRÓN





AMARILLO



<https://www.uaz.edu.mx/histo/Pics2/Small/Conjuntivo.htm>

Fuente: Julio Sepúlveda Saavedra, Rosa María Medina Hernández: *Histología. Biología celular y tisular. Instructivo de laboratorio*, 6e: www.accessmedicina.com
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