The connective tissue proper

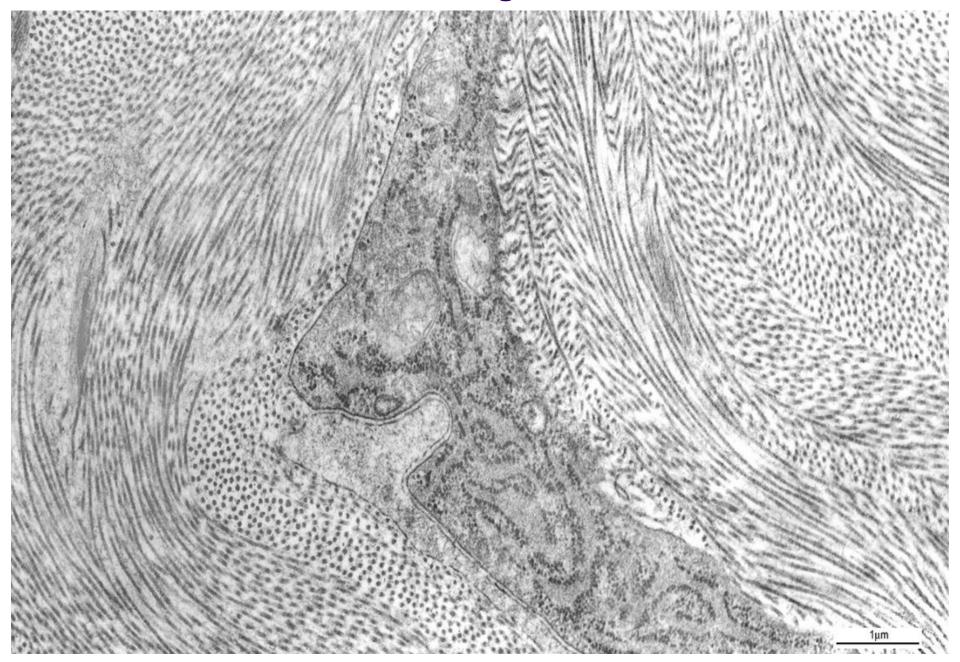
Connective tissue cells

Extracellular matrix - fibers

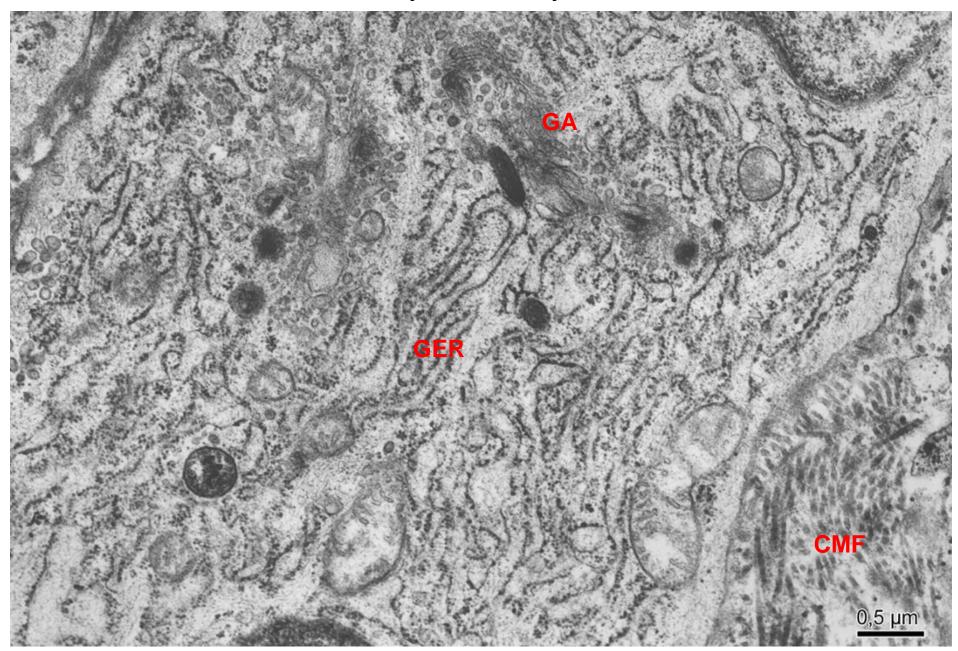
- ground substance

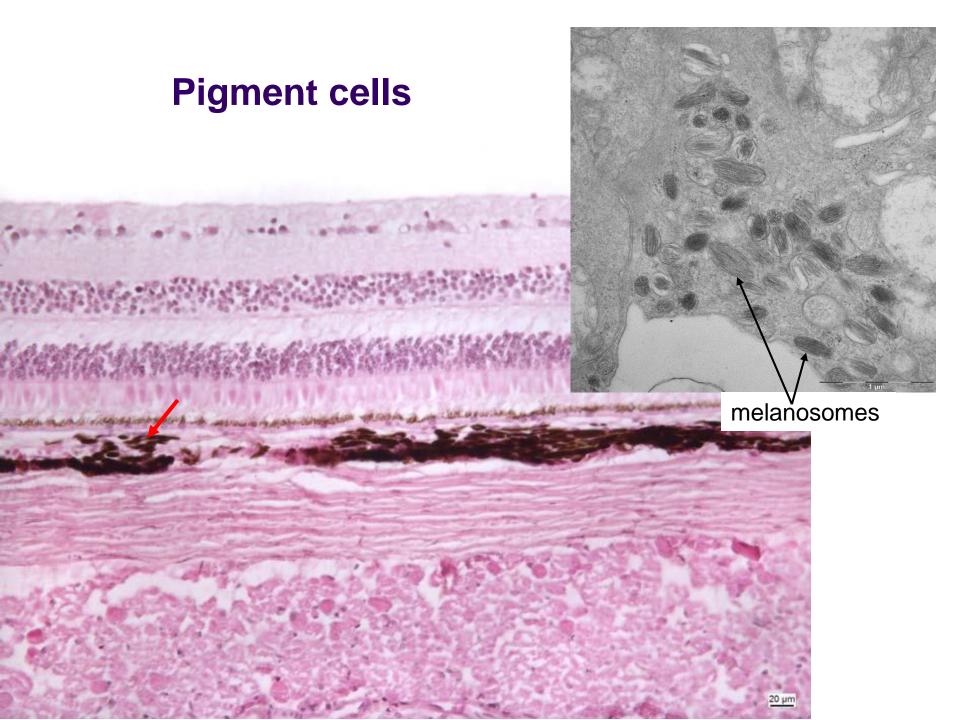
Classification of connective tissue

Fibroblast + collagen fibrils

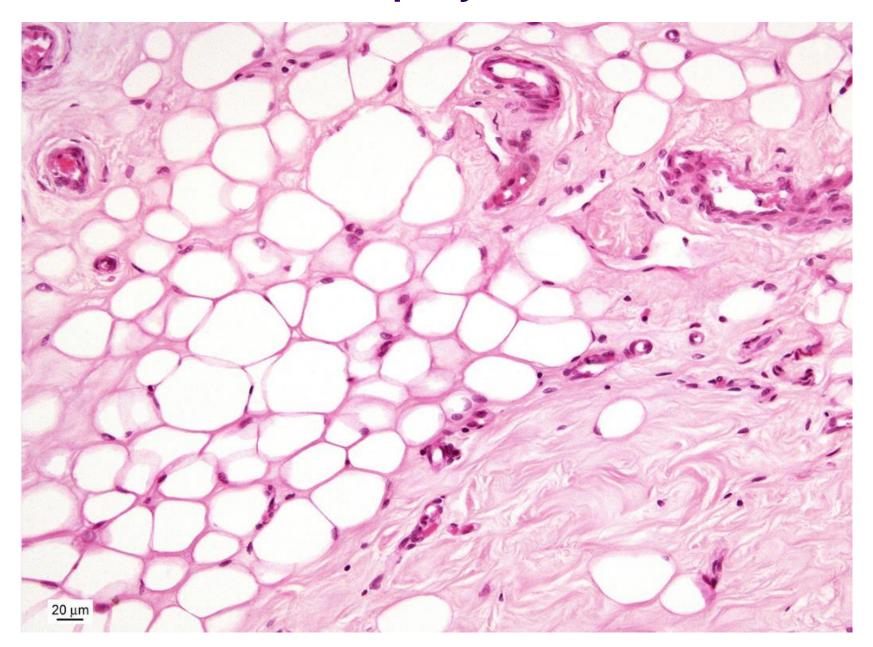


Fibroblast – synthetically active cell

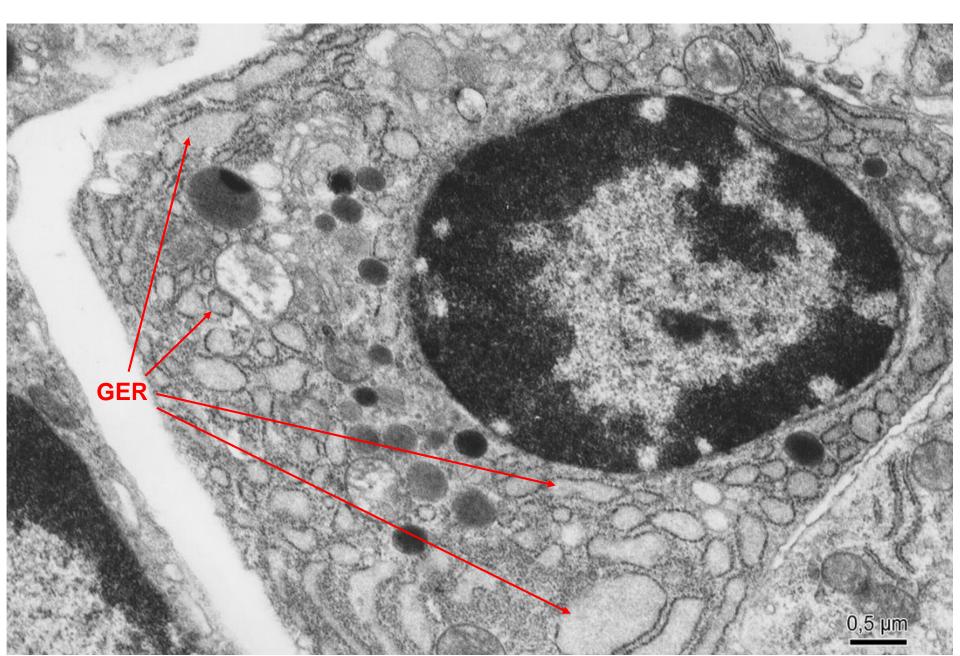


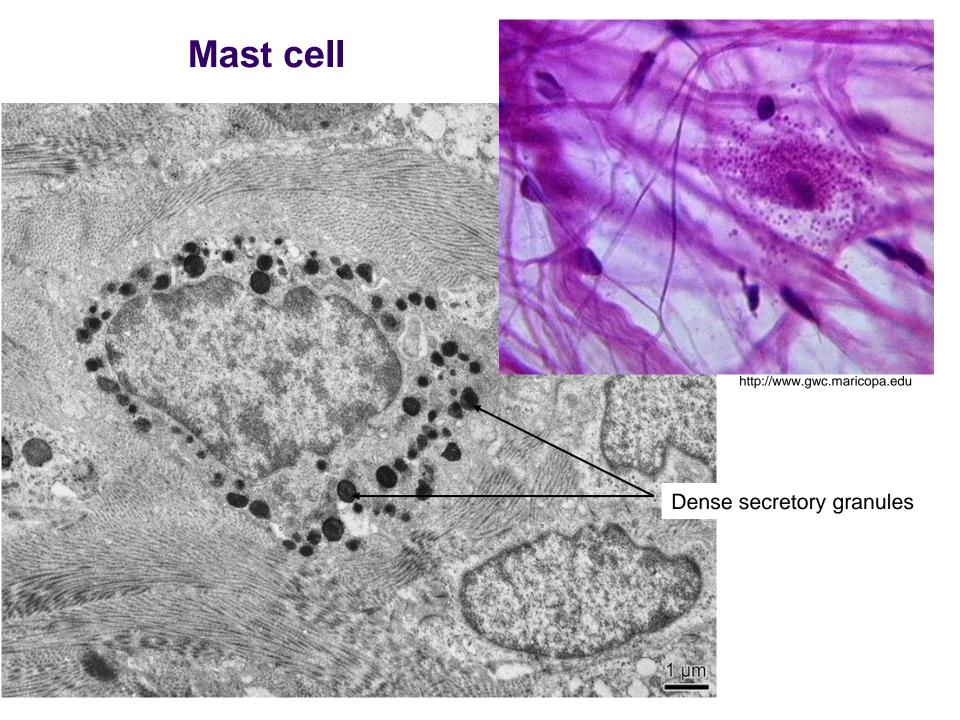


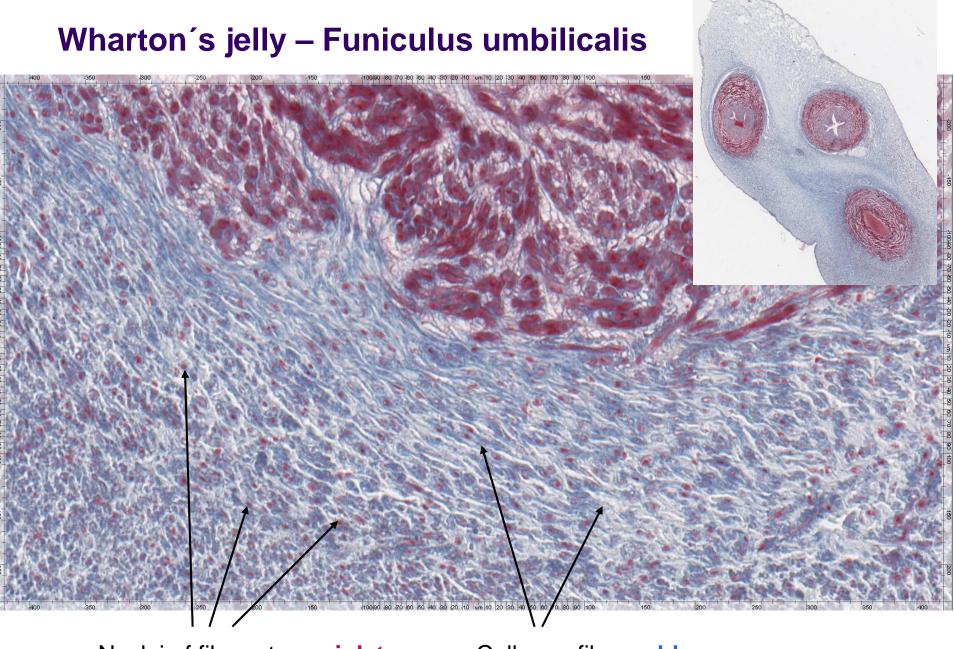
Adipocytes



Plasma cell



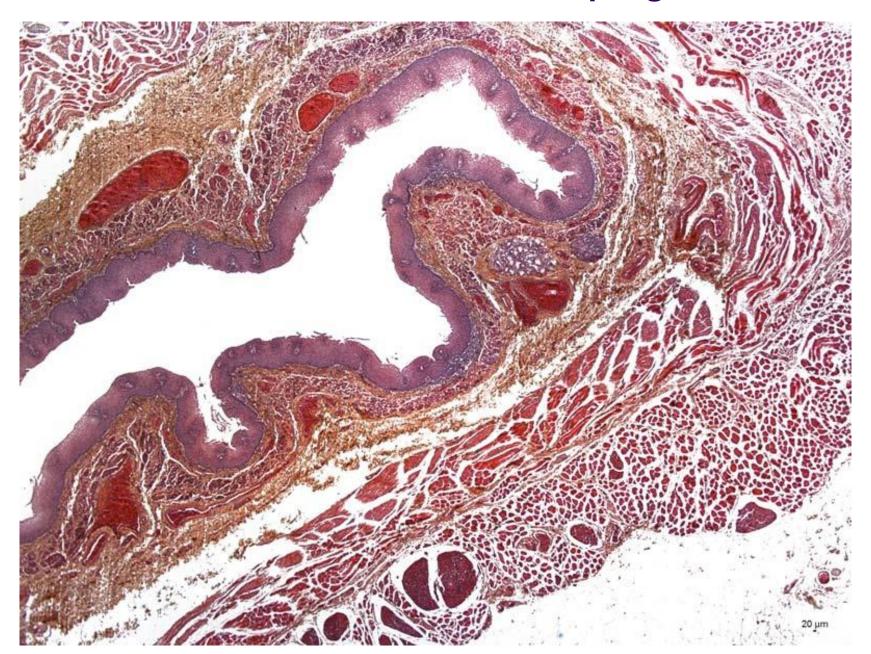




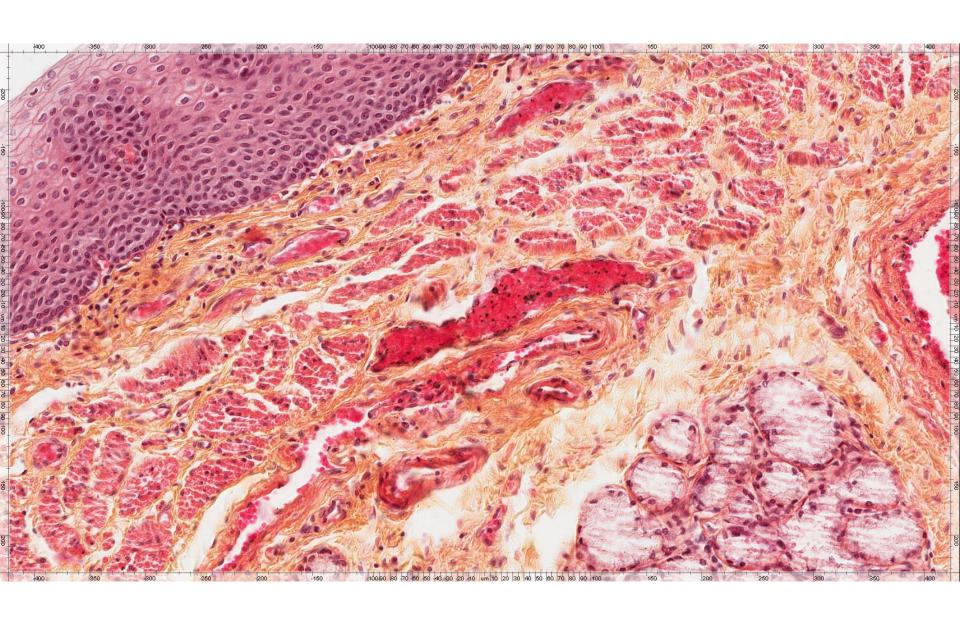
Nuclei of fibrocytes - violet

Collagen fibers - blue

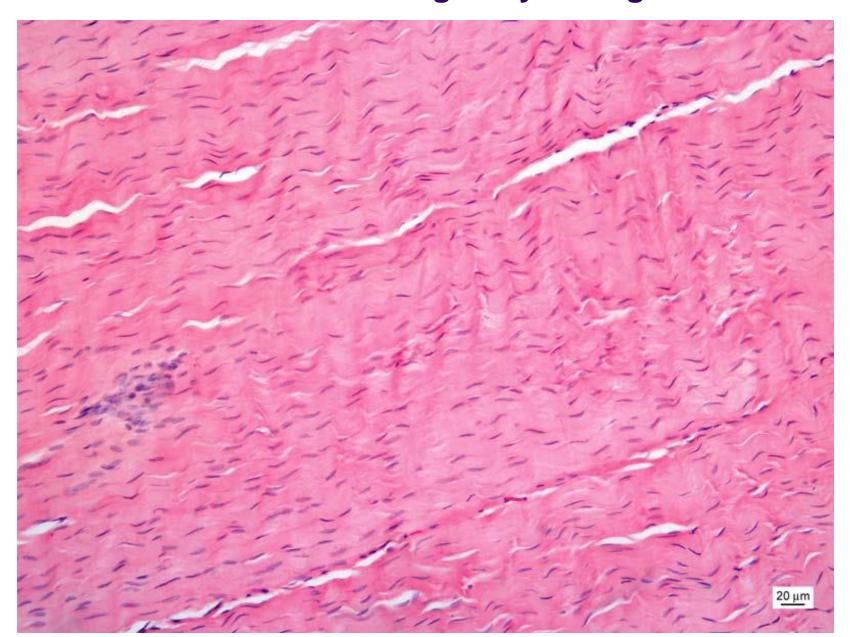
Loose connective tissue - Esophagus



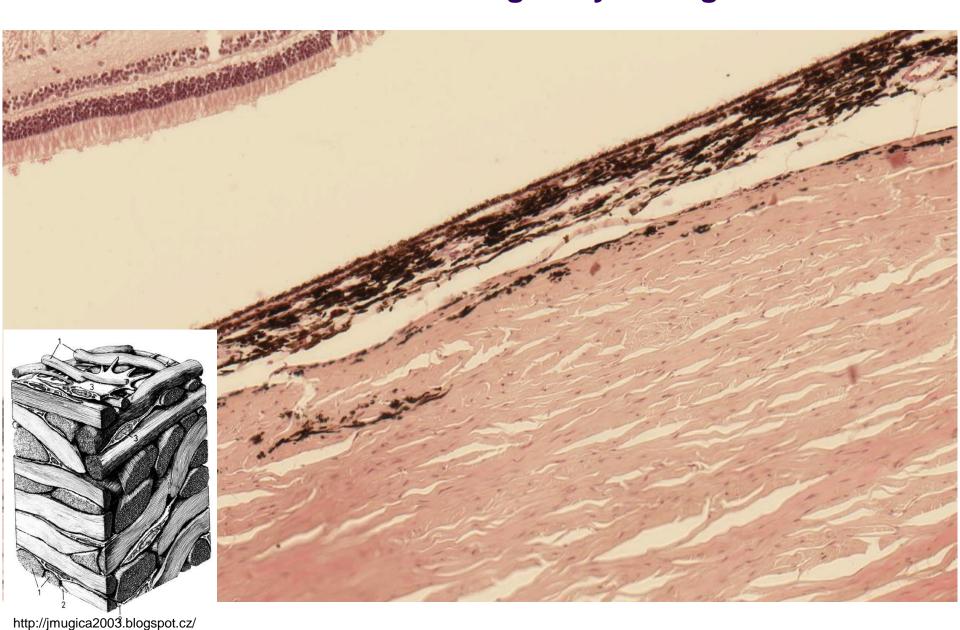
Loose connective tissue – mucosa, submucosa

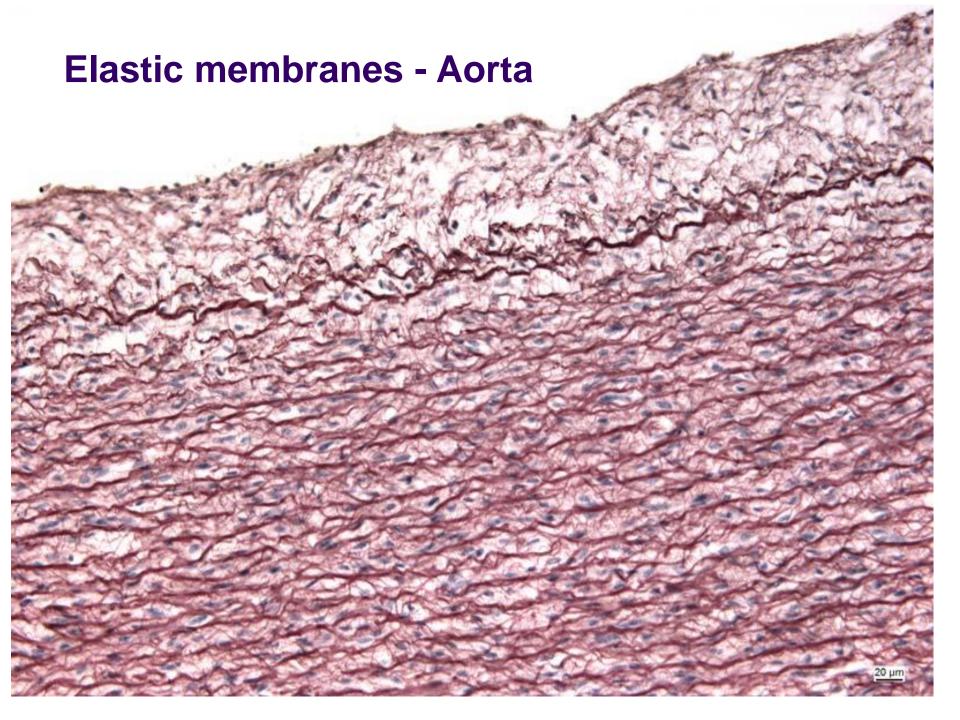


Dense connective tissue regularly arranged - Tendon

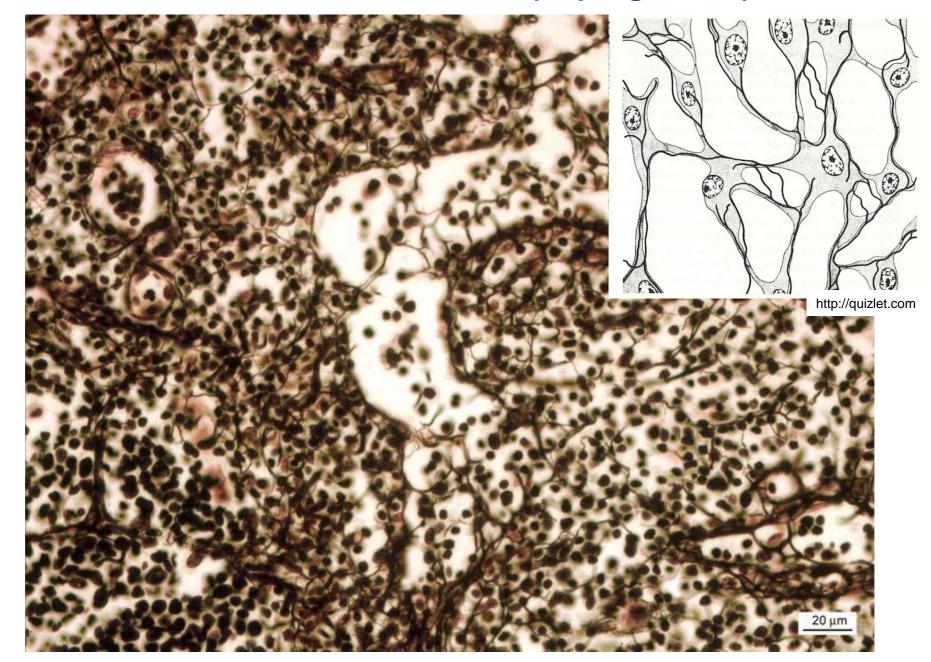


Dense connective tissue irregularly arranged - Sclera





Reticular tissue – Lien (impregnation)

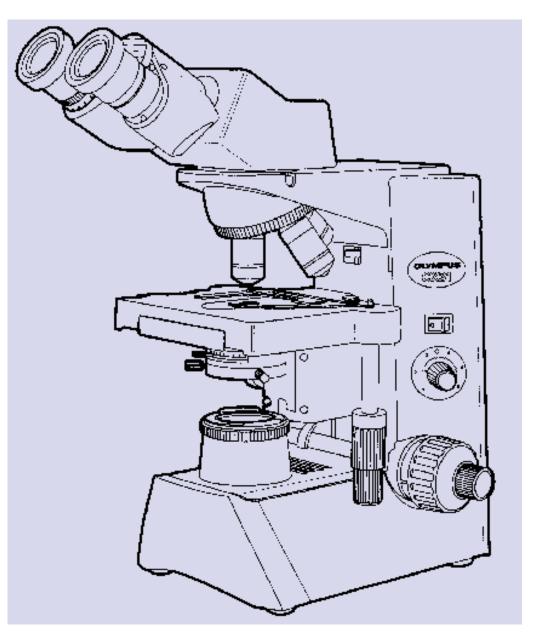


Reticular connective tissue - intestinum crassum (HE)



Light microscope

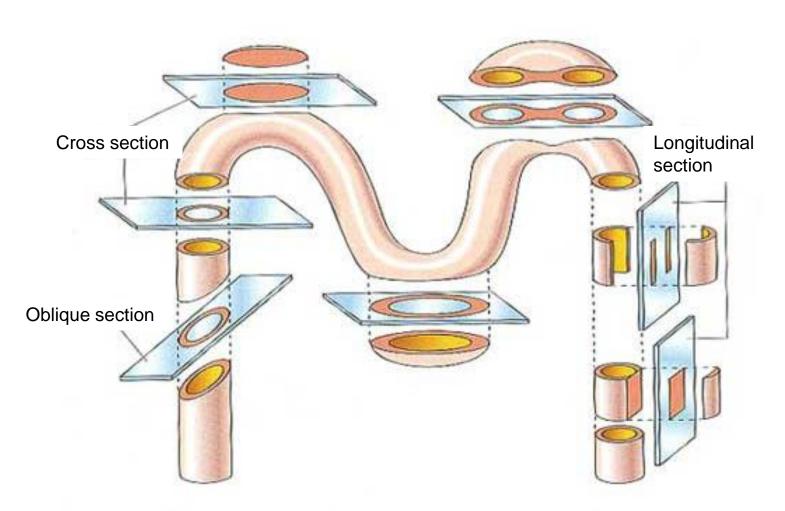
- Eyepieces
- Objective lens
- Stage with speciment holder
- On/Off
- Light control
- Condenser and Iris aperture
- Stage controls
- Coarse focus
- Fine focus
- Light source with diaphragm



Instructions

- Turn on the light.
- Start with the 4x objective.
- Put the slide on the stage cover glass must be above
- Look through the scope and focus. Use the coarse focus knob at first, until the image is more or less in focus; then switch to the fine focus.
- Adjust the light. Not too bright, not too dim.
- Adjust the oculars.
- Switch to the 10x objective. A slight adjustment with the fine focus knob should get it just right. If you lose the focus and can't see your specimen at all, go back to the 4x and start again.
- Switch to the 40x objective if you want to see more detail. Don't use the
 100x!
- When you want to look at a new slide, switch back to the 4x before changing slides.
- Only one slide is out of the box at the moment! Do not remove more!
- When you're done with the scope, switch to the 4x and turn the light all the way down before turning it off.
- At the end of lesson, the box with slides is checked in your presence before you leave your place

Various shapes on different sections of tubular structures



Connective tissue proper:

Slides:

Wharton's jelly (99. Funiculus umbilicalis)
Loose (areolar) connective tissue (11. Esophagus)
Dense connective tissue - irregular (89. Posterior part of the eye)

Reticular tissue (68. Lien – impregnation) Elastic membranes (62. Aorta)

Atlas EM:

Fibroblast (42)

Plasma cell (43)

Mast cell (44)

Collagen fibers (42, 44)