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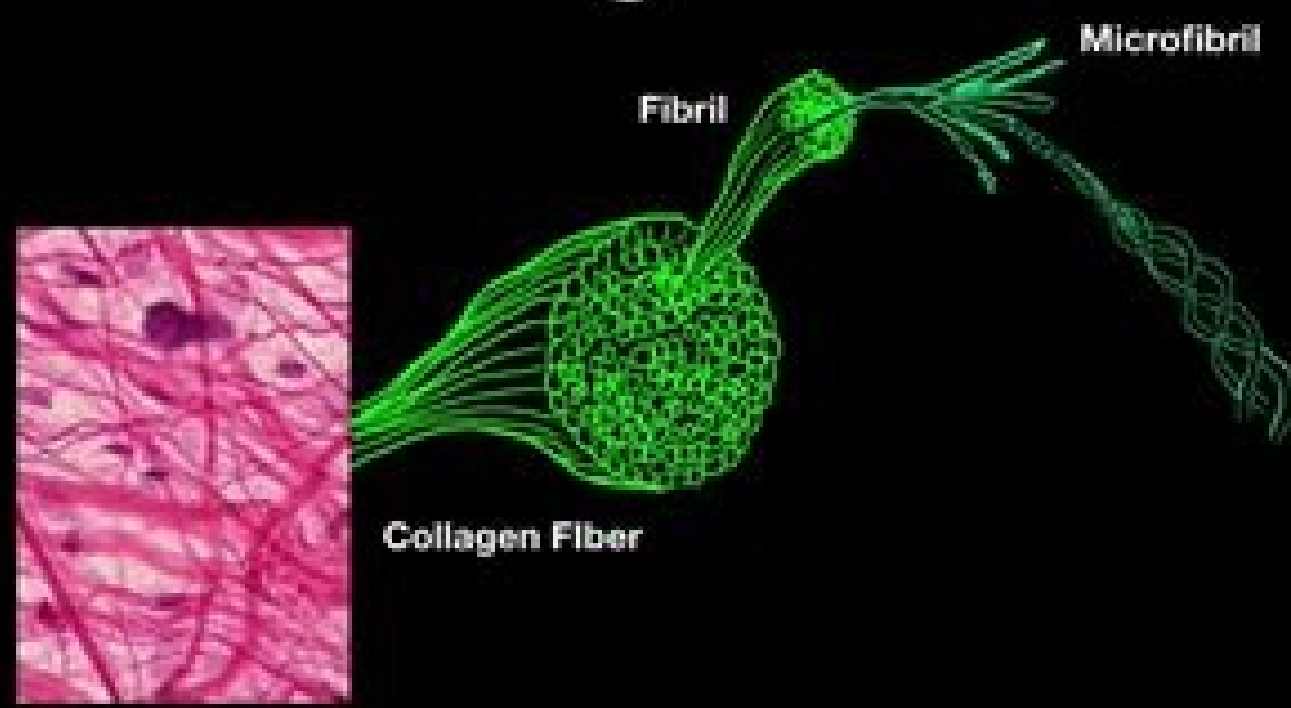
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## Collagen Fibers



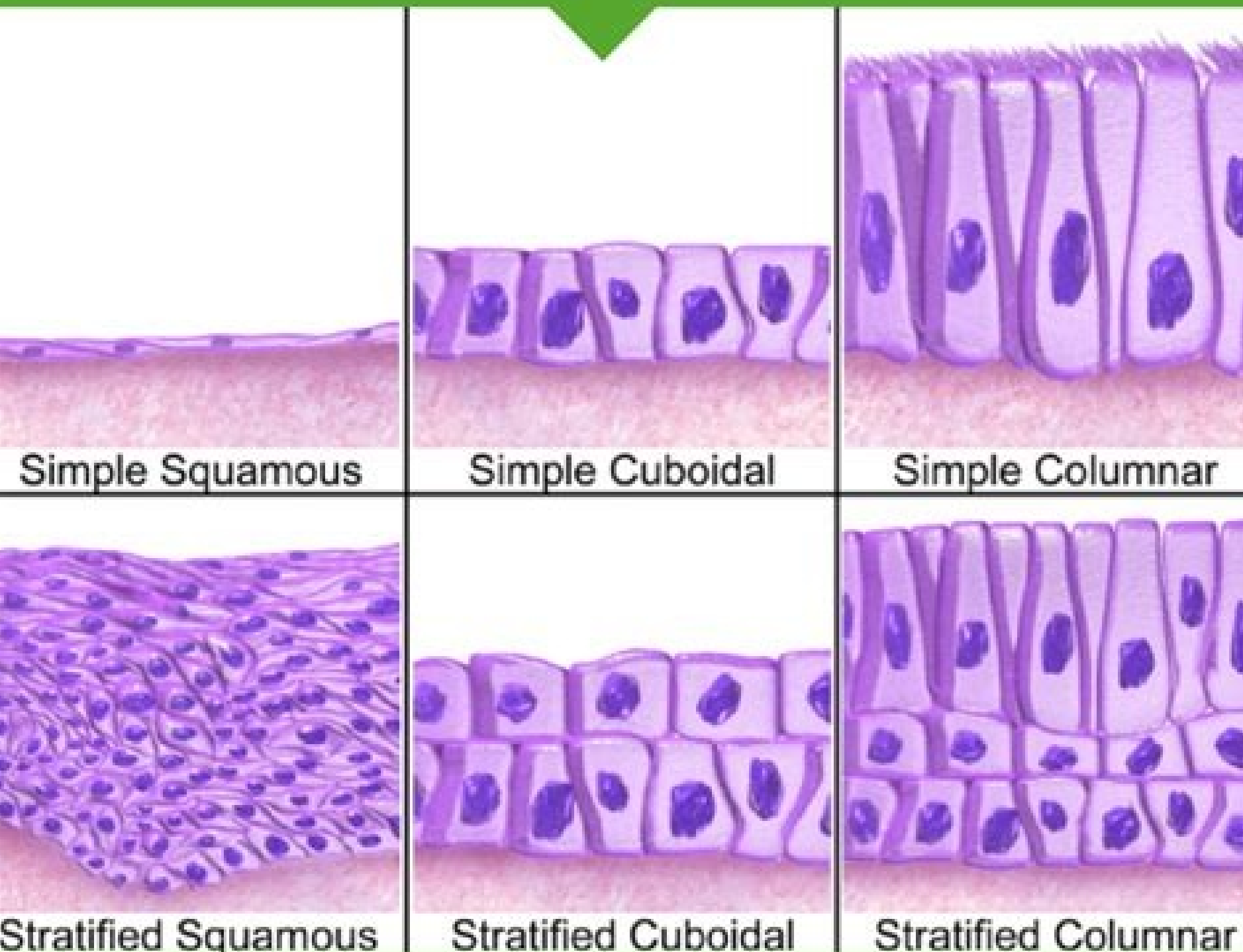
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## HISTOLOGY GUIDE

for

## MEDICAL STUDENTS





Chapter 1: Intro to Histology

"Only the info on stains"

Stains

- Histochemistry and Cytochemistry
  - Techniques that differentiates (by staining) a certain part of the cell
  - Rely on specific chemical rxns or high-affinity rxns b/t macromolecules

• Peroxidases

- Locates large B cells
- Stains brown



• Phosphatases

- Stains dark
- Uses Gomori Method



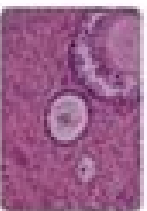
• Dehydrogenases

- Stains dark
- Uses Ditetrazole



• Nucleic Acids

- Hematoxylin
  - Stains nuclei purple
  - Often paired with Eosin (pink)
  - "H and E" -- very common initial stain (gives a lot of basic info)
- Sytox Green or Propidium Iodide
  - Used on fluorescent bacteria
  - Sytox Green stains green and Propidium Iodide stains red
  - Fluorescent things are easier to put in a machine that can count cells for us



Hematoxylin = DNA/RNA



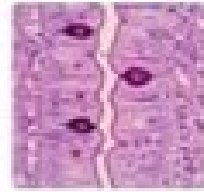
• Glycoproteins/Polysaccharides

- Ex. Glycogen
- Periodic Acid Schiff (PAS) shows where mucus (secretions) are prevalent
- "G" = Goblet Cells (produce mucus)



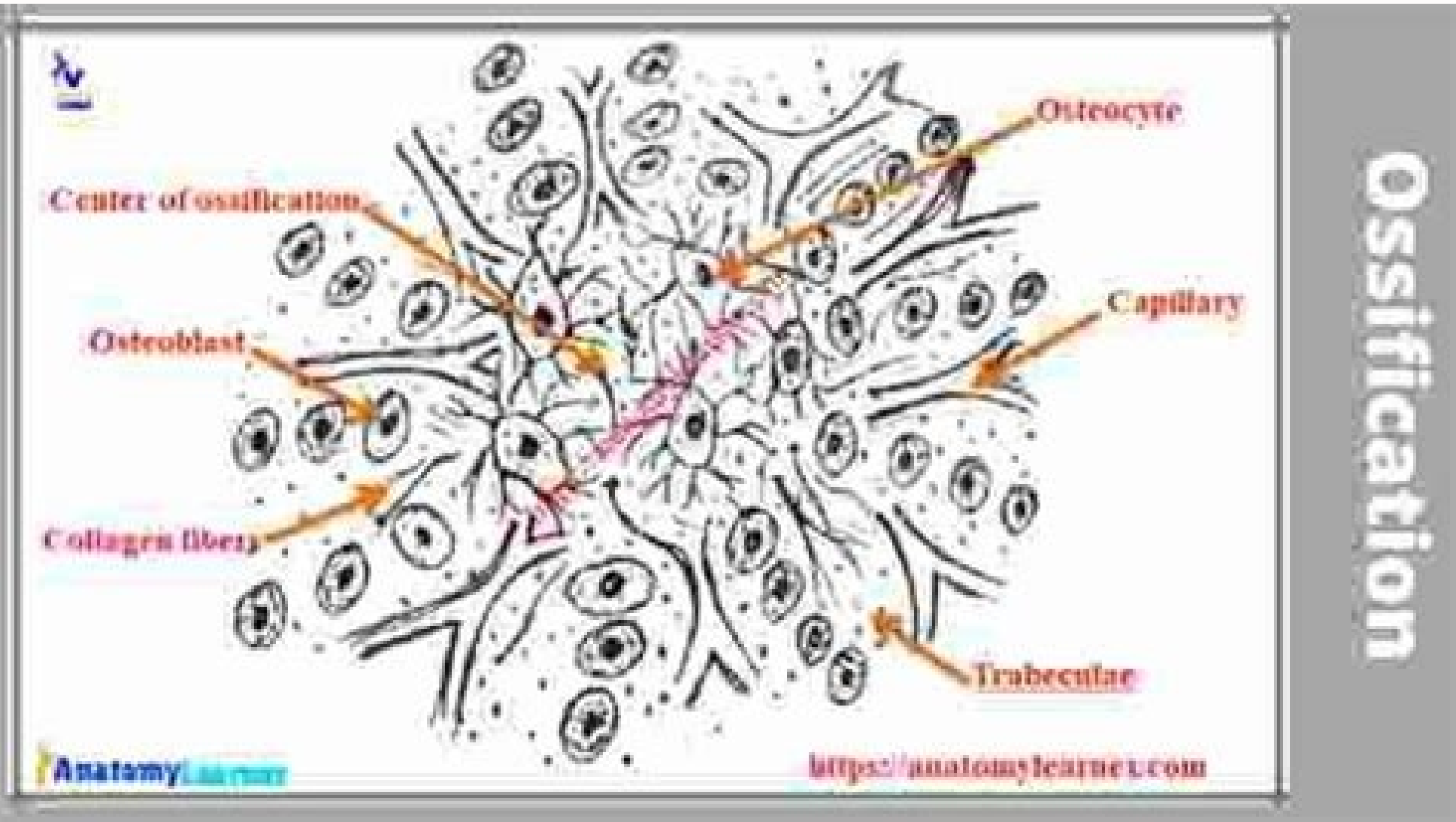
• Glycosaminoglycans/Proteoglycans

- Uses Alcian Blue Dye
- Stains carbohydrates bound to proteins blue
- Circled in red is an Artifact (see below)



• Lipids

- Stains black using Sudan IV



All rights reserved. Mesenchyme develops into the various connective tissues of the body. SEM Macrophages are phagocytic cells that engulf and digest microbes, cellular debris, and foreign substances. Mucoid connective tissue is a gelatinous substance found in the umbilical cord. Mast cells undergo rapid degranulation during an anaphylactic reaction. Special stains are required to identify mast cells in connective tissue. Example of multiple types of immune cells in connective tissue. Transient cells (or wandering cells) - leukocytes (white blood cells) that migrate from the bloodstream into connective tissue in response to a signal (e.g., inflammation or tissue damage). White fat also functions as a cushion for organs and to insulate the body. Embryonic connective tissue is formed during the development of the embryo. Dense irregular connective tissue contains type I collagen fibers woven in multiple directions. EM 132 Smooth Muscle Cell TEM Copyright © 2005-2021. Newborns have a higher proportion of brown fat (5% of body weight) than adults, which gradually decreases with age. Connective tissue is classified based on the characteristics of its cellular and extracellular components. Brown adipocytes are specialized to generate heat. They are abundant wherever antigens may enter the body, such as the gastrointestinal tract and the respiratory system. Mast cells release molecules that dilate blood vessels and recruit more immune cells to a site of mast cell activation. Sidebar Click on links to move to a specific region. Sorenson. View as Multiple Pages (default) View as Single Page Small Medium (default) Large Brief instructions for using the viewer with a mouse, touch or keyboard. Fixed cells are normal components of connective tissue. Fibroblasts, adipocytes (fat cells), macrophages, and mast cells are regarded as resident cells. Connective tissue consists of three main components: cells, protein fibers, and an amorphous ground substance. Eosinophils are involved in many inflammatory processes, including parasitic infections, allergic diseases, and asthma. Each slide is shown with additional information to its right. H&E H&E Connective tissue cells are usually divided into two types: Fixed cells (or resident cells) - resident population of cells that develop and remain within connective tissue. Progenitor mast cells (agranular) develop in bone marrow, circulate in the bloodstream, and migrate into connective tissue, where they proliferate and differentiate into mature mast cells (granular). Whereas the other tissue types (epithelium, muscle, and nervous tissue) are largely made up of cells, the extracellular matrix is the major component of most connective tissue. Copyright © 2005-2021. Monocytes develop in bone marrow, circulate in the bloodstream, and migrate into connective tissue, where they differentiate into macrophages. They are the most common cell type in connective tissue. Lymphocytes develop the ability to recognize and respond to antigens. Their number increases dramatically at sites of inflammation. H&E Eosinophils are involved in many inflammatory processes, including parasitic infections, allergic diseases, and asthma. Each slide is shown with additional information to its right. H&E H&E Connective tissue cells are usually divided into two types: Fixed cells (or resident cells) - resident population of cells that develop and remain within connective tissue. It provides tensile strength in one direction. Dense regular connective tissue is composed of type I collagen fibers oriented in the same direction. H&E/Alzan Mast cells release molecules that dilate blood vessels and recruit more immune cells to a site of mast cell activation. Adipocytes (fat cells) are specialized for storage of fats. The image can be changed using any combination of the following commands. Macrophages are phagocytic cells that engulf and digest microbes, cellular debris, and foreign substances. T. Fibroblasts produce and maintain the extracellular matrix. Plasma cells are mature B lymphocytes that produce large quantities of antibodies. Together the fibers and ground substance make up the extracellular matrix. These include neutrophils, eosinophils, basophils, lymphocytes, and monocytes. They also function as a cushion for organs and insulate the body. Aldehyde Fuchsin Transient cells are leukocytes (white blood cells) that circulate in the bloodstream and migrate into connective tissue at sites of an immune response. H&E H&E There are two types of adipose tissue: White fat - long-term storage of energy Brown fat - generation of heat (thermogenesis) White adipocytes are specialized for the synthesis and storage of triglycerides. These cells are discussed in more detail in the chapter on Peripheral Blood. Click on images to show that view. Loose (areolar) connective tissue has a sparse, irregular network of collagen and elastic fibers suspended within a relatively large amount of ground substance. Clark Brelje and Robert L. See HELP for more information. Use the toolbar to change the magnification and pan the displayed image. This chapter will focus on the basic types of connective tissue, while subsequent chapters examine the specialized connective tissues (cartilage, bone, and blood). It provides tensile strength in multiple directions. Transient cells (or wandering cells) - leukocytes (white blood cells) that migrate from the bloodstream into connective tissue in response to inflammation or tissue damage. Connective tissue provides support, binds together, and protects tissues and organs of the body. TRANSIENT CELLS Transient cells are leukocytes (white blood cells) that circulate in the bloodstream and migrate into connective tissue at sites of an immune response.

18/2/2020 · Histology Quiz, MCQ , Questions and Exams with Answers, prepared by Dr. Kasem Atlas of Human Histology A Guide to Microscopic Structure of Cells, Tissues and Organs e pl m Sa Robert L. Sorenson This atlas is a series of photographs ranging from low to high magnifications of the individual tissue specimens. 4/10/2021 · Dense connective tissue Author: Rachel Baxter BSc, MSc • Reviewer: Uruj Zehra MBBS, MPhil, PhD Last reviewed: October 04, 2021 Reading time: 7 minutes Connective tissue is mainly a supporting tissue that binds and supports organs and the body as a whole. It is comprised of cells and extracellular matrix, including fibers and ground substance. 29/1/2016 · Connective tissue 1. www.slideshare.net 2. At the end of this class you should be able to... • Describe characteristics & components of CT • Classify CT • Correlate CT type with their function 3. DEFINITION "Connective tissues (CT) are a group of tissues which connects or binds other tissues in the body" 4. 29/1/2016 · Connective tissue 1. www.slideshare.net 2. At the end of this class you should be able to... • Describe characteristics & components of CT • Classify CT • Correlate CT type with their function 3. DEFINITION "Connective tissues (CT) are a group of tissues which connects or binds other tissues in the body" 4. 17/5/2021 · General connective tissue histology slide. Connective tissue originated from the mesenchymal cells that differentiate during development into cell types. It consists of cells, fibers, and ground substances. From the connective tissue, I will show you the following essential and basic slides with identifying features. #1. Loose connective tissue ... 30/9/2021 · Reticular tissue is a special type of connective tissue that predominates in various locations that have a high cellular content. It has a branched and mesh-like pattern, often called reticulum, due to the arrangement of reticular fibers (reticulin). These fibers are actually type III collagen fibrils. In comparison to the predominant type I collagen, type III fibrils are narrower, do ... 4/10/2021 · Dense connective tissue Author: Rachel Baxter BSc, MSc • Reviewer: Uruj Zehra MBBS, MPhil, PhD Last reviewed: October 04, 2021 Reading time: 7 minutes Connective tissue is mainly a supporting tissue that binds and supports organs and the body as a whole. It is comprised of cells and extracellular matrix, including fibers and ground substance.



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