## **CONNECTIVE TISSUES**

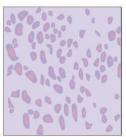








Fibrous connective tissue







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Туре	Cells	Fibers	Matrix	Function
Areolar (Loose)	<ul> <li>Fibroblasts</li> <li>Macrophages</li> <li>Mast cells</li> <li>Contain heparin &amp; histamine</li> </ul>	<ul><li>Collagen</li><li>Elastic</li><li>Equal distribution</li></ul>	• ECF + proteoglycans = weak gel	<ul> <li>Connects skin to underlying structures</li> <li>Fills spaces between organs</li> <li>Surrounds muscles, ducts of exocrine glands, nerves and blood vessels</li> <li>Protection from bacteria</li> </ul>
Adipose	Adipocytes     "Signet ring"     formation due     to location     of nucleus	Limited amount of white collagenous fibers	Weak gel	<ul><li>Fat energy storage</li><li>Cushion and insulation</li><li>Protects internal organs</li><li>Connects internal organs</li></ul>
White Fibrous Connective Tissue	• Fibroblasts	White fibers	Weak gel     (limited amount)	<ul> <li>Tendons (muscle to bone)</li> <li>Ligaments (bone to bone)</li> <li>Aponeuroses (muscle to muscle)</li> <li>Fascia covers muscles</li> <li>Slera</li> <li>Scar tissue</li> </ul>
Yellow Fibrous Connective Tissue (Elastic)	• Fibroblasts	• Yellow fibers (elastin)	Weak gel     (limited amount)	<ul><li>Ligaments between vertebrae (ligamentum flavum)</li><li>Vocal cords</li><li>Walls of aorta &amp; large arteries</li></ul>
Reticular	Reticulocytes	Reticular fibers     (thin, collagenous)	Weak gel	<ul><li>Form a stroma and provide structural support</li><li>Found in liver, spleen and lymphoid organs</li></ul>
Cartilage	<ul> <li>Fibroblasts         mature into         chondroblasts</li> <li>Chondroblasts         mature into         chondrocytes</li> </ul>	Elastin or     callegenous     (yellow or white)	<ul> <li>Chondrin -         semisolid</li> <li>Contains         Chondroitin or         chondroitin         sulfate + proteins         (proteoglycans)</li> </ul>	<ul> <li>Hyaline cartilage - structure of fetal bones, nose, trachea/bronchi and joints</li> <li>Fibrocartilage - shock absorber between pubic symphysis and intervertebral discs</li> <li>Elastic cartilage - found in ears and is flexible</li> </ul>

