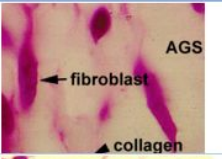
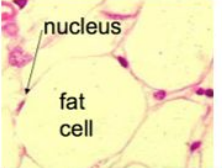
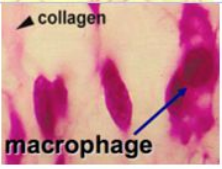
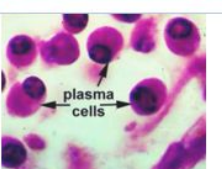
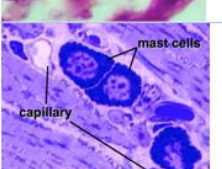





**Connective Tissue:** Connective tissue is found between all tissues of the body - epithelium, muscle and nerves. Composition of the connective tissue dictates its properties and roles in different parts of the body. BDS1 primarily focuses on the different types that occur within the oral mucosa between supportive structures like gingiva versus flexible soft tissues like the tongue and the relationship with functionality.

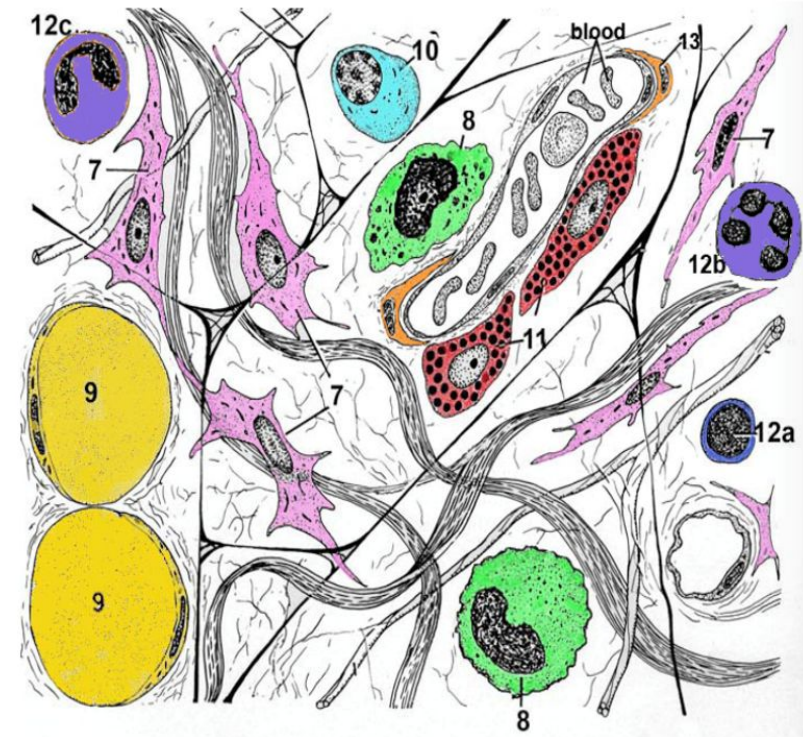
CT Cell	Description	Diagram
<b>Fibroblast</b>	ER, mitochondria for synthesis of EC matrix, collagen  Wound healing	
<b>Adipocyte</b>	Storage and insulation	
<b>Macrophage</b>	Phagocytosis Antigen presenting cells Cytokine production	
<b>Plasma cell</b>	Produce specific antibodies for each antigen encountered	
<b>Mast cell</b>	Release chemical mediators heparin and histamine for inflammatory response	
<b>Leukocytes</b>	Lymphocyte – Principal immune cell	
	Neutrophil – Accumulate in bacterial inflammation	
	Eosinophil – Accumulate in parasitic and allergic reactions	

## Cells

- ### Components of CT
1. **Cells**
  2. **AGS**
  3. **Fibres**

### Classification of CT Cells

- Structural/Storage Cells:  
 7 – Fibroblasts  
 9 – Fat Cells
- Defence Cells:  
 8 – Macrophages  
 10 – Plasma cells  
 11 – Mast Cells  
 12 – Leukocytes  
 13 – Pericytes
- Primitive mesenchyme cells not shown



## AGS

<b>Composition</b>	Carbohydrate and protein components
	<div style="text-align: center;">                 Glycoproteins                  Laminin, fibronectin             </div> <div style="text-align: center;">                 Proteoglycans                  Negative charges attract water to form hydrated gel             </div>
<b>Distribution</b>	Fills all spaces between cells and fibres
<b>Function</b>	1. <b>Medium</b> for substance exchange of nutrients and waste products between blood and epithelium 2. <b>Viscosity</b> restricts penetration by bacteria 3. Megamolecules <b>support</b> cells and fibres

## Classification

