



اُونِيُوَرَسِيْتِي تِيكْنُوْلُوْجِي مَارَا  
UNIVERSITI  
TEKNOLOGI  
MARA



**QAIWAN**  
INTERNATIONAL UNIVERSITY

# **FOUNDATION OF ORAL SCIENCES DFO 401**

## **PRACTICAL RECORD BOOK**

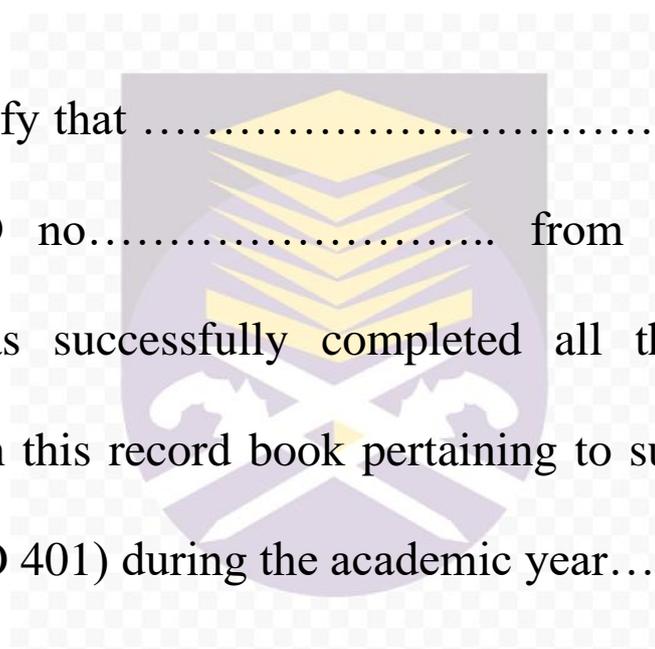
NAME:.....

QIU ID:.....

BATCH:.....

# *CERTIFICATE OF COMPLETION*

This is to certify that .....  
with QIU ID no..... from Stage 1 and  
Batch..... has successfully completed all the tasks and  
assignments in this record book pertaining to subject of Oral  
Sciences (DFO 401) during the academic year.....



Name of In-charge:

Signature:

Date:

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## DENTAL ANATOMY

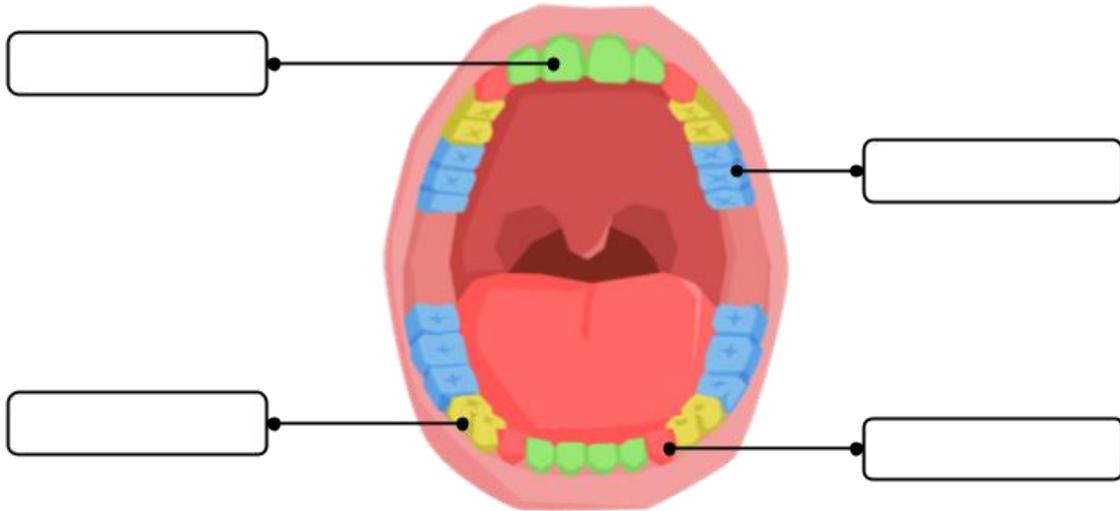
<b>S.N.</b>	<b>TOPIC</b>	<b>SIGNATURE</b>
<b>1</b>	HUMAN DENTITION	
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## ORAL EMBRYOLOGY & HISTOLOGY

<b>S.N.</b>	<b>TOPIC</b>	<b>SIGNATURE</b>
<b>1</b>	ODONTOGENESIS	
<b>2</b>	AMELOGENESIS	
<b>3</b>	DENTINOGENESIS	
<b>4</b>	ROOT FORMATION	
<b>5</b>	TOOTH ERUPTION & SHEDDING	
<b>6</b>	ORAL MUCOUS MEMBRANE	
<b>7</b>	ENAMEL	
<b>8</b>	DENTIN	
<b>9</b>	PULP	
<b>10</b>	CEMENTUM	
<b>11</b>	PERIODONTAL DIGAMENT	
<b>12</b>	SALIVARY GLANDS	

# 1. DENTAL ANATOMY

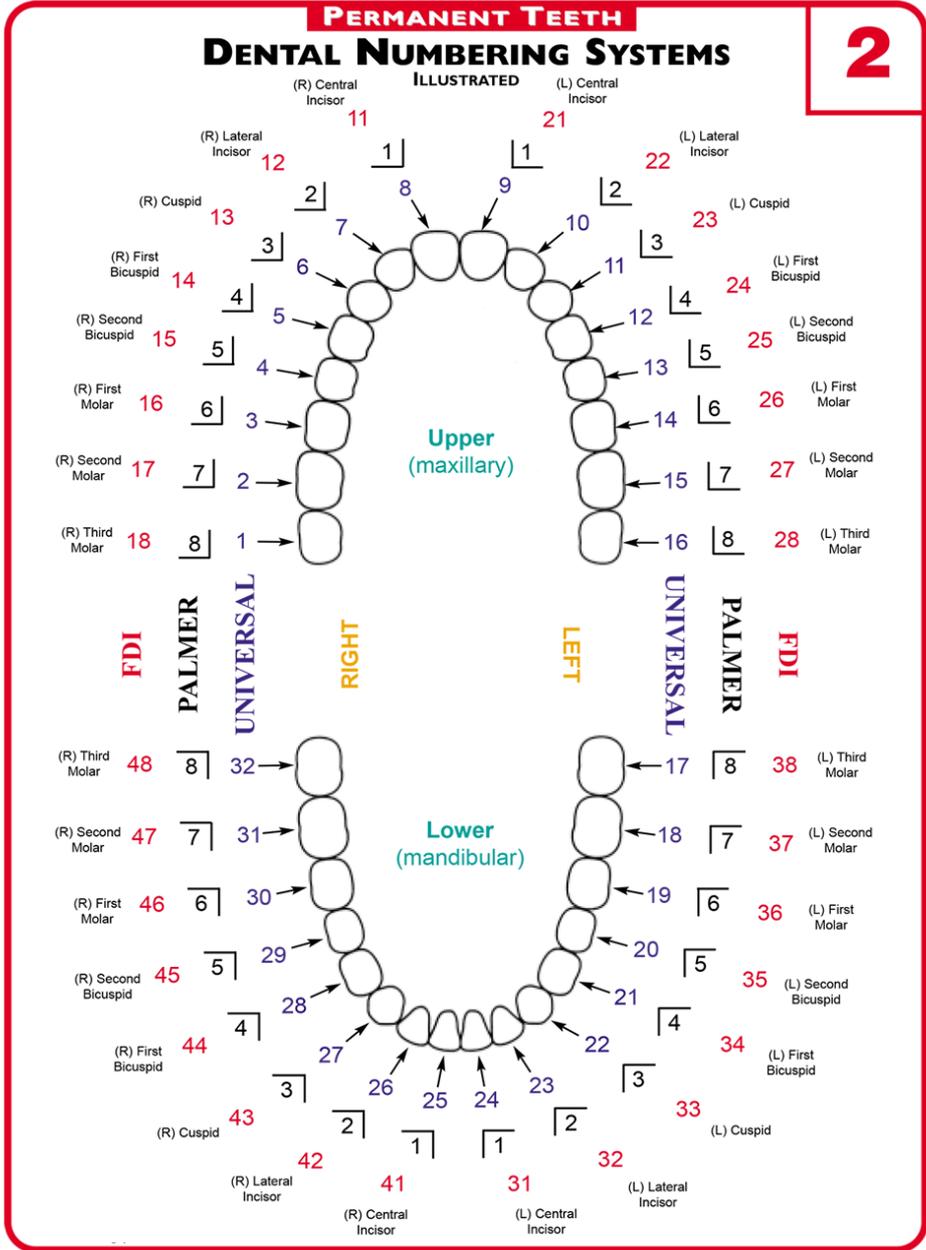
## 1.1 HUMAN DENTITION:



HETERODONT:

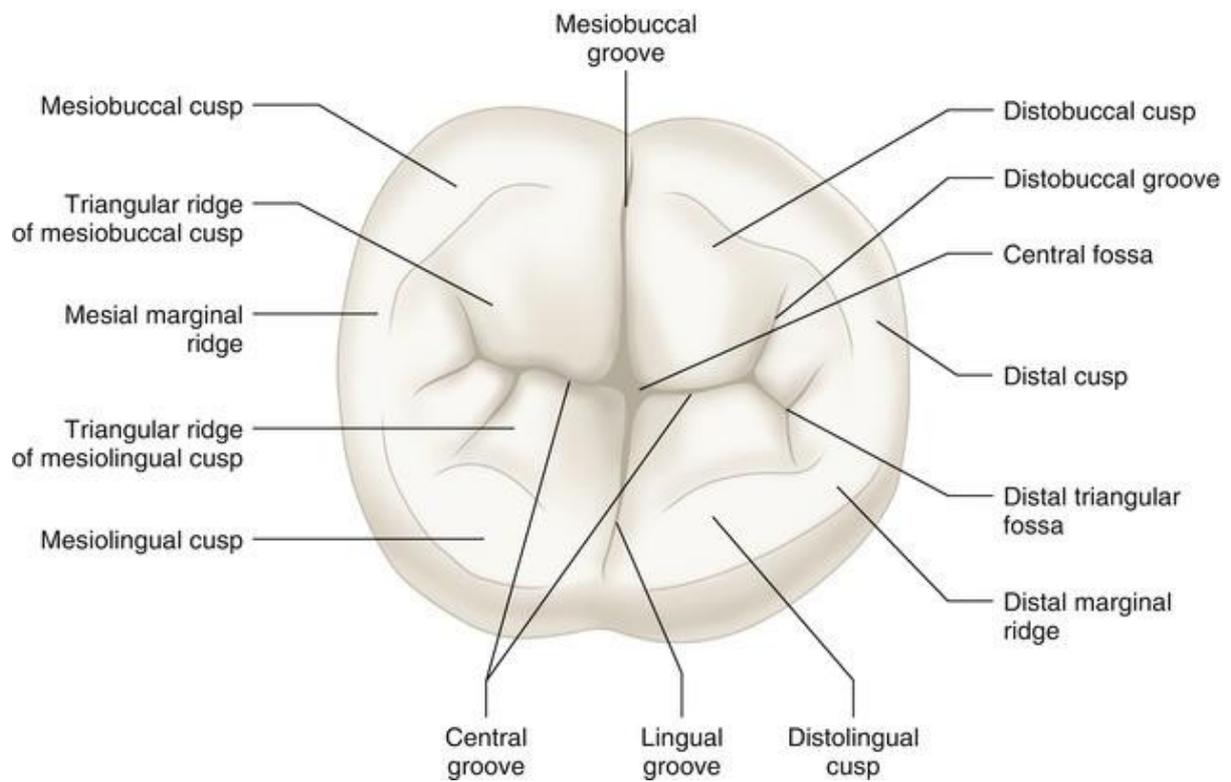
DIPHYODONT:

DENTAL FORMULA:



SIGNIFICANCE OF TOOTH NUMBERING SYSTEM:

## LANDMARKS OF TOOTH:



CUSP:

CINGULUM:

RIDGE:

FOSSA:

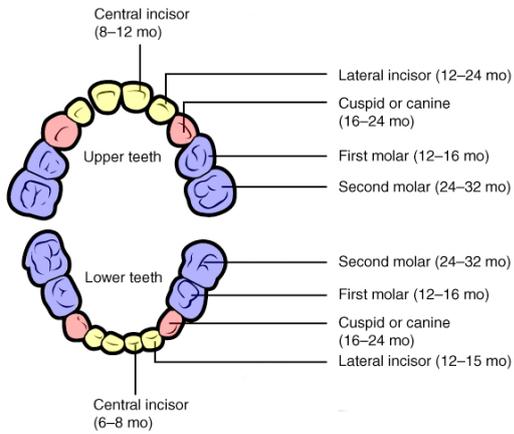
GROOVE:

PIT:

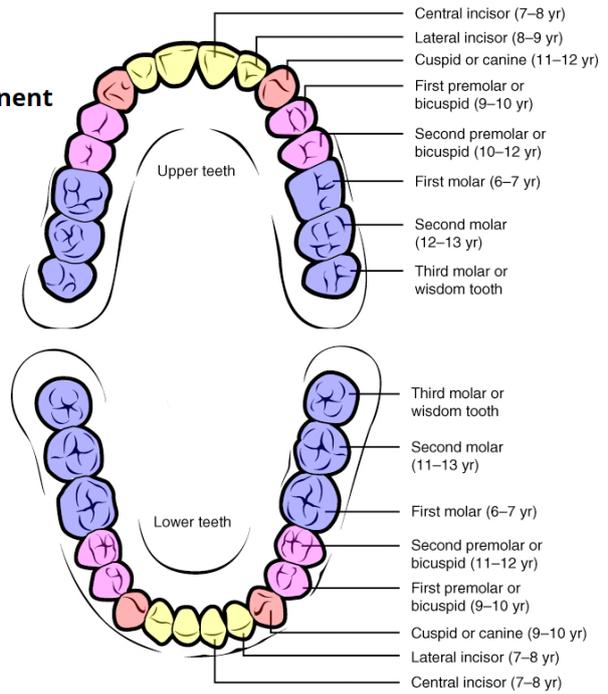
LOBE:

# PRIMARY VS PERMANENT DENTITION:

**(i) Primary**



**(ii) Permanent**



DECIDUOUS TEETH	PERMANENT TEETH

**PERMANENT MAXILLARY CENTRAL INCISOR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
------------------------	--

**PERMANENT MAXILLARY LATERAL INCISOR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
------------------------	--

**PERMANENT MAXILLARY CANINE:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MANDIBULAR CENTRAL INCISOR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MANDIBULAR LATERAL INCISOR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MANDIBULAR CANINE:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MAXILLARY FIRST PREMOLAR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MAXILLARY SECOND PREMOLAR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
------------------------	--

**PERMANENT MANDIBULAR FIRST PREMOLAR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MANDIBULAR SECOND PREMOLAR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MAXILLARY FIRST MOLAR:**

Tooth Number (FDI):-






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<b><u>FEEDBACK</u></b>	
------------------------	--

**PERMANENT MAXILLARY SECOND MOLAR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
------------------------	--

**PERMANENT MANDIBULAR FIRST MOLAR:**

Tooth Number (FDI):-






<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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**PERMANENT MANDIBULAR SECOND MOLAR:**

Tooth Number (FDI):-

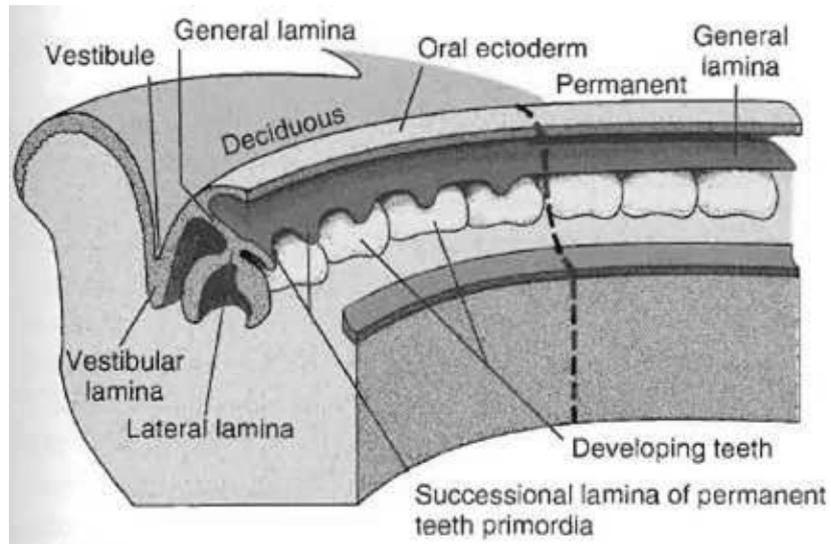





<b>TOOTH CARVED</b>	<b>GRADE</b>	<b>DATE</b>	<b>SIGNATURE</b>

<b><u>FEEDBACK</u></b>	
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## ODONTOGENESIS



PRIMARY EPITHELIAL BAND:

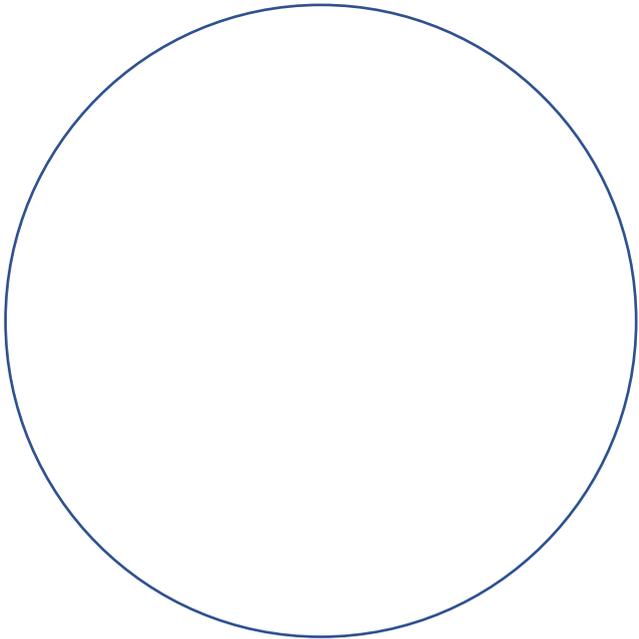
DENTAL LAMINA:

VESTIBULAR LAMINA:

FATE OF DENTAL LAMINA:

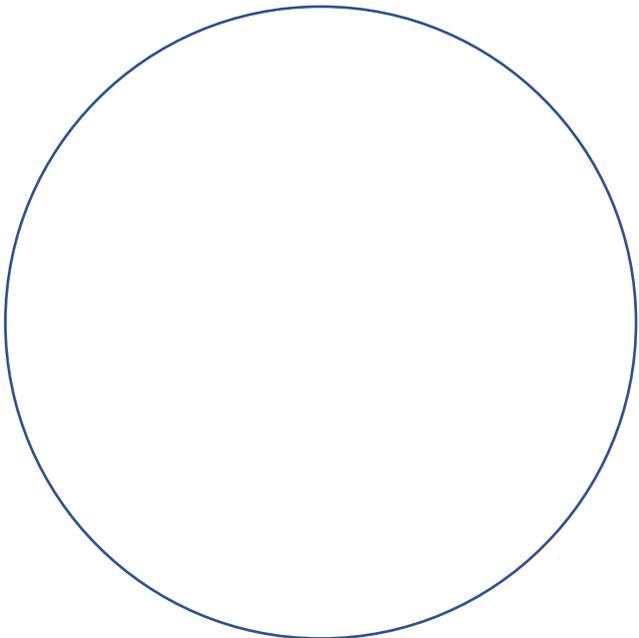
## DIAGRAMS

DENTAL & VESTIBULAR LAMINA:



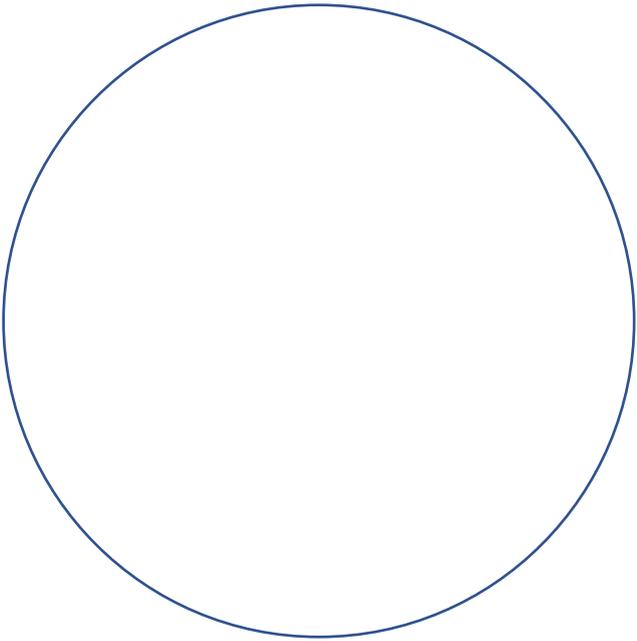
<u>FEEDBACK</u>	
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BUD STAGE:



<u>FEEDBACK</u>	
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CAP STAGE:

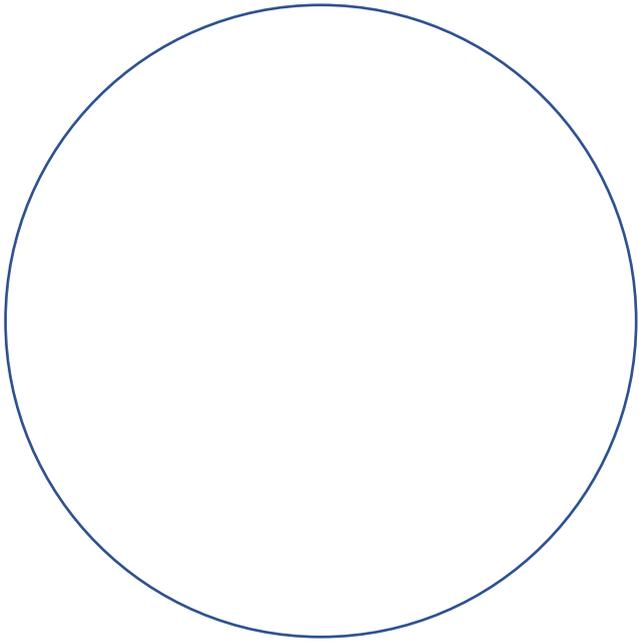


<u>FEEDBACK</u>	
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TRANSITORY STRUCTURES:

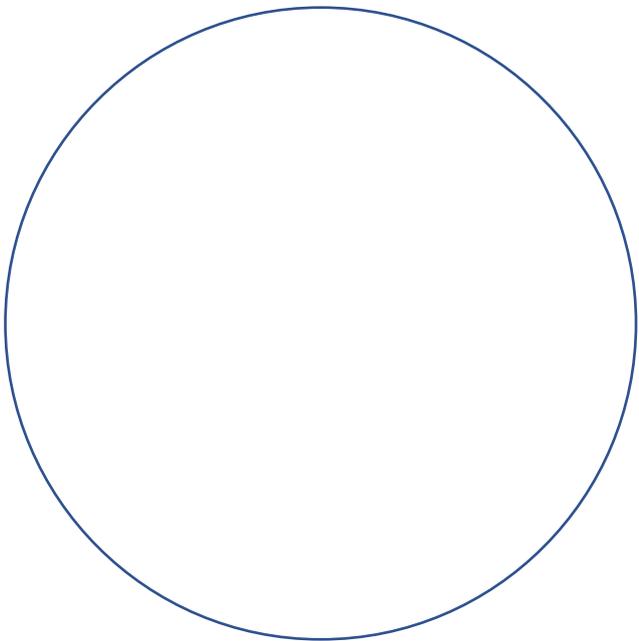


EARLY BELL STAGE:



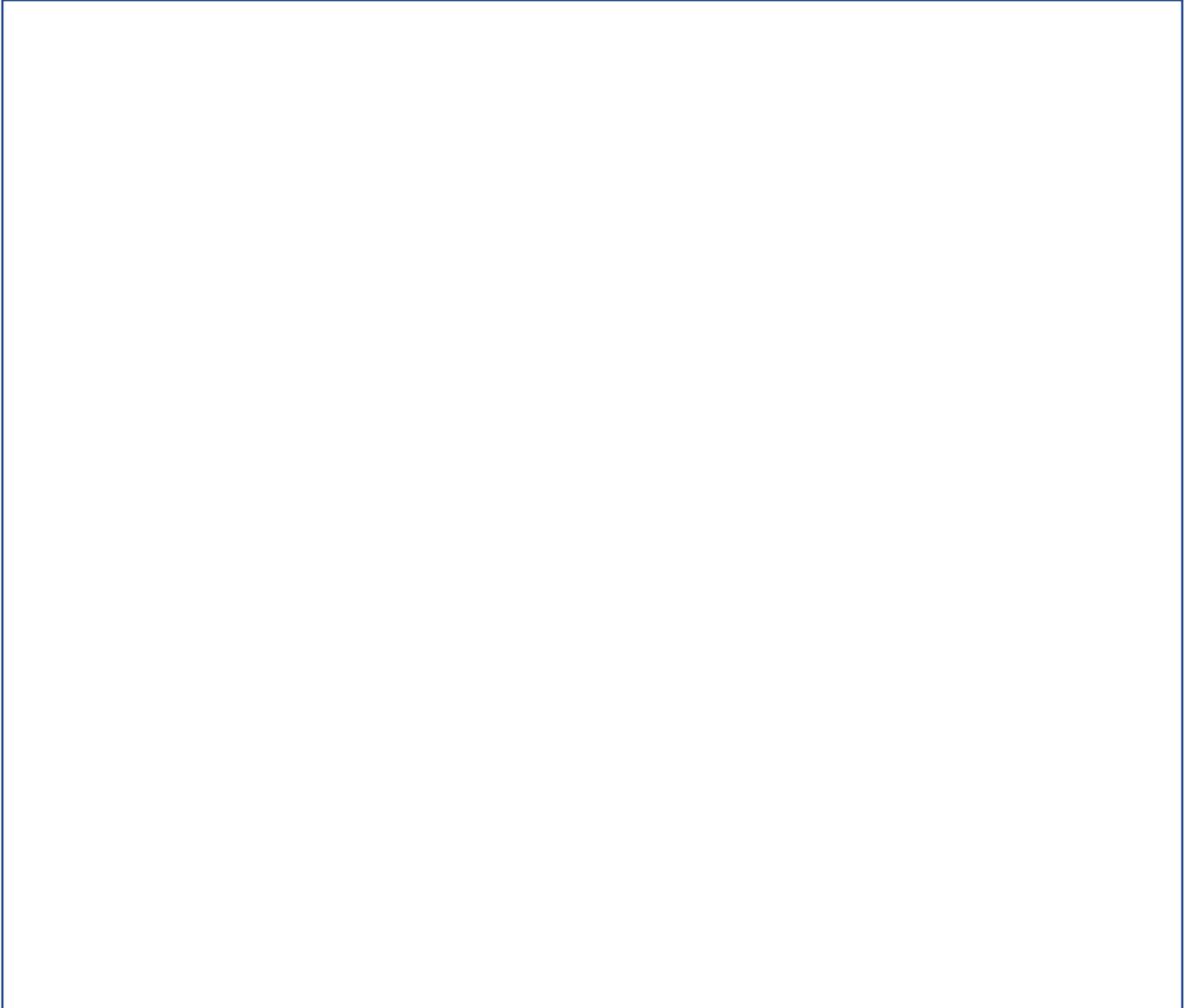
<u>FEEDBACK</u>	
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ADVANCED BELL STAGE:



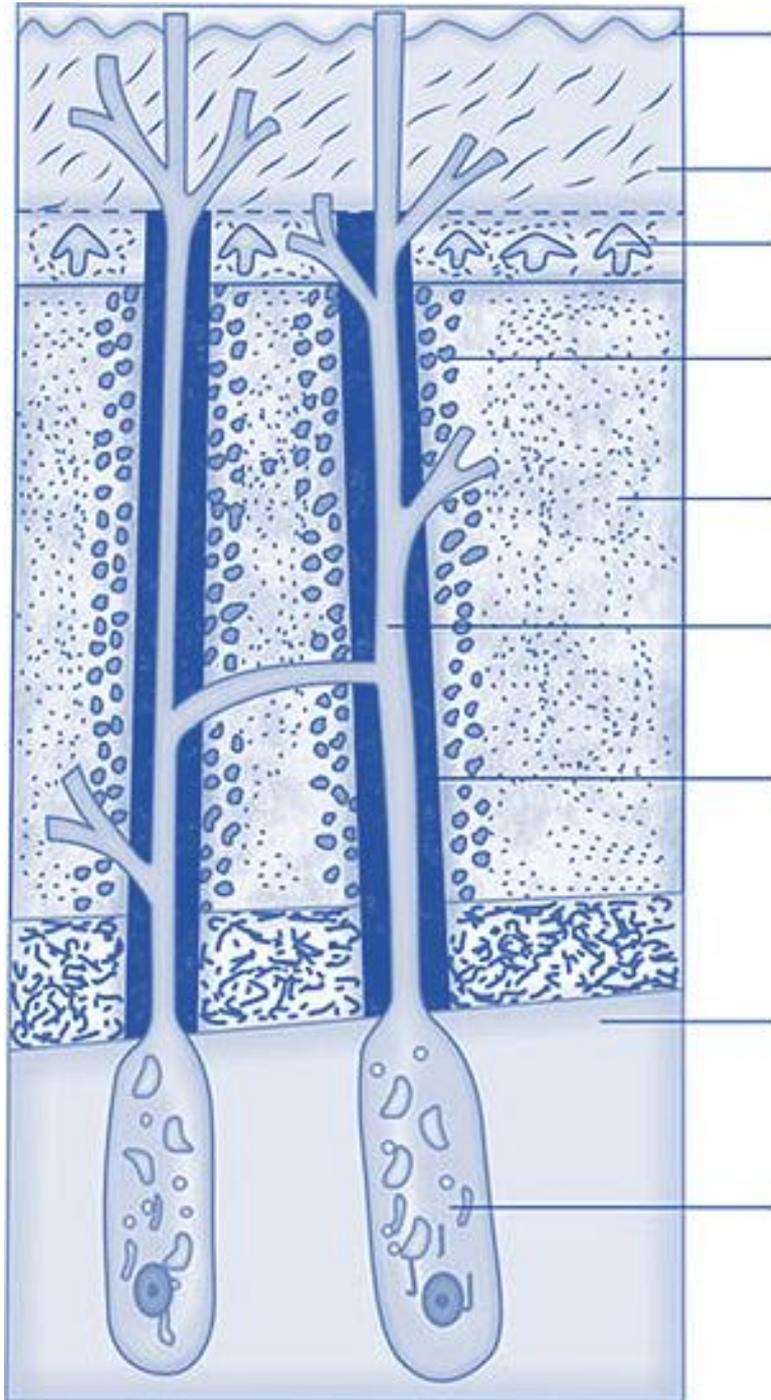
<u>FEEDBACK</u>	
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**AMELOGENESIS - LIFE CYCLE OF AMELOBLAST:**

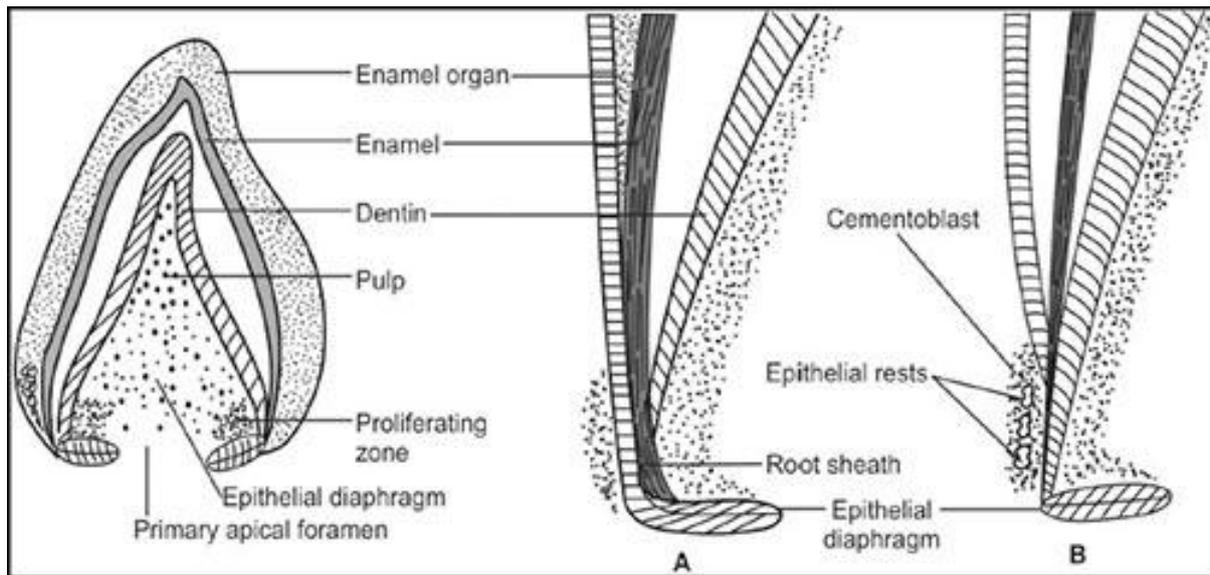


**MORPHOLOGICAL & FUNCTIONAL STAGES**

## DENTINOGENESIS:



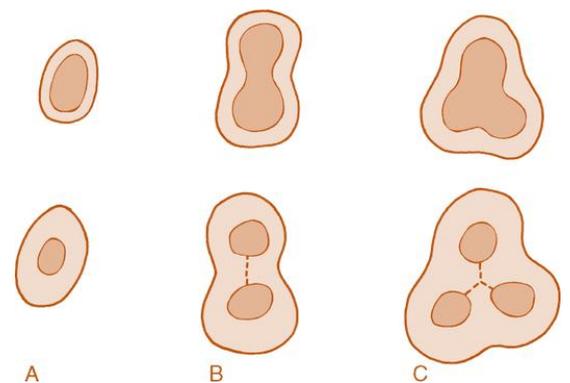
## ROOT FORMATION:



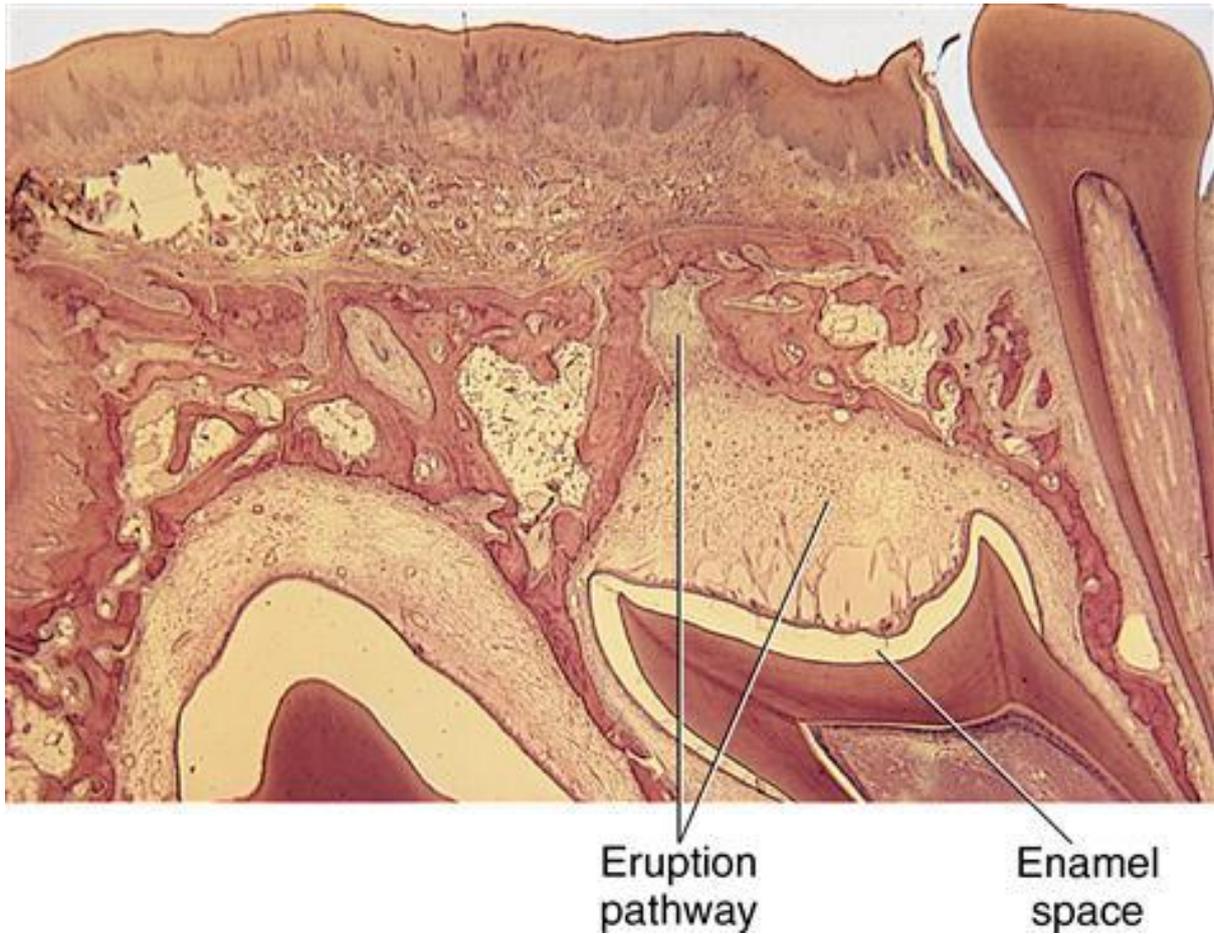
HERS:

EPITHELIAL DIAPHRAGM:

FORMATION OF MULTI-ROOTED TEETH:



## TOOTH ERUPTION & SHEDDING

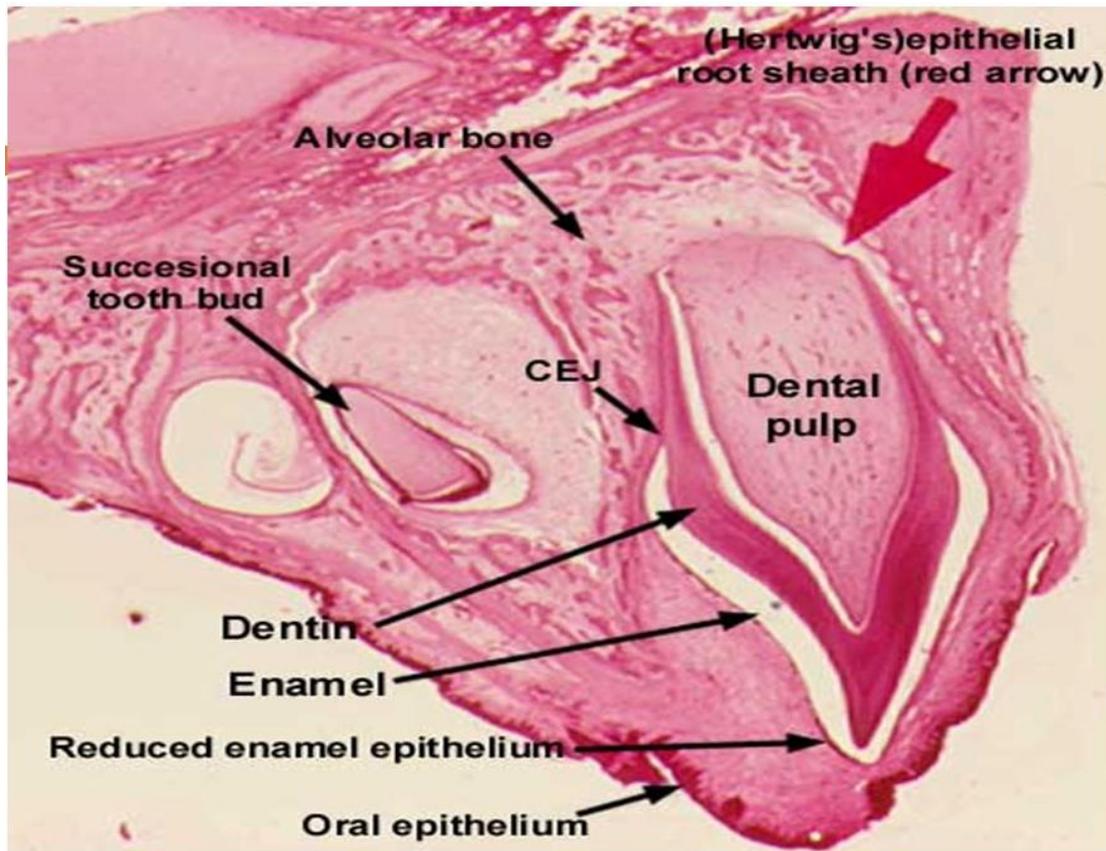


### **HISTOLOGY OF ERUPTION & SHEDDING:**

#### **ODONTOCLASTS:**

#### **GUBERNACULAR CORD & CANAL:**

#### **FIBRONEXUS:**



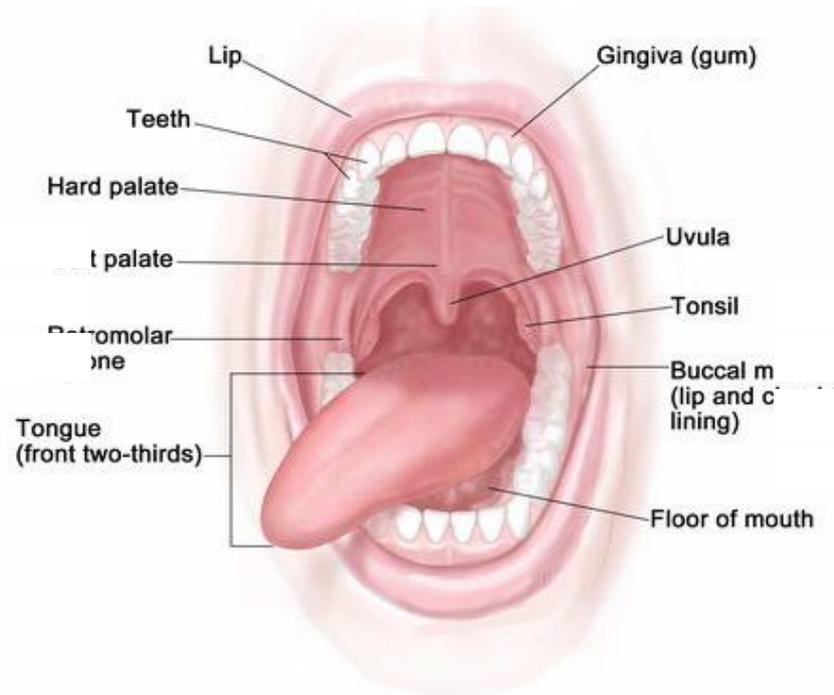
PATTERN OF TOOTH ERUPTION & SHEDDING	
ANTERIORES	
POSTERIORES	

**ERUPTIVE TOOTH MOVEMENTS:**

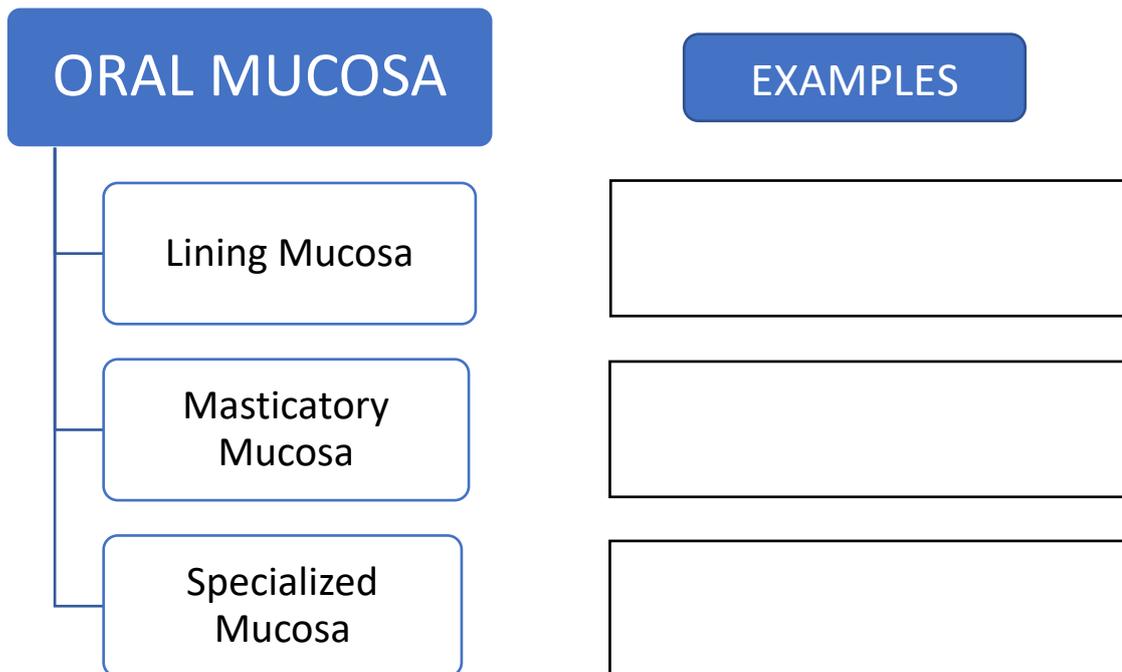

<b>SEQUENCE OF SHEDDING</b>	
Maxillary Deciduous Dentition	
Mandibular Deciduous Dentition	

# ORAL HISTOLOGY

ORAL MUCOUS MEMBRANE:



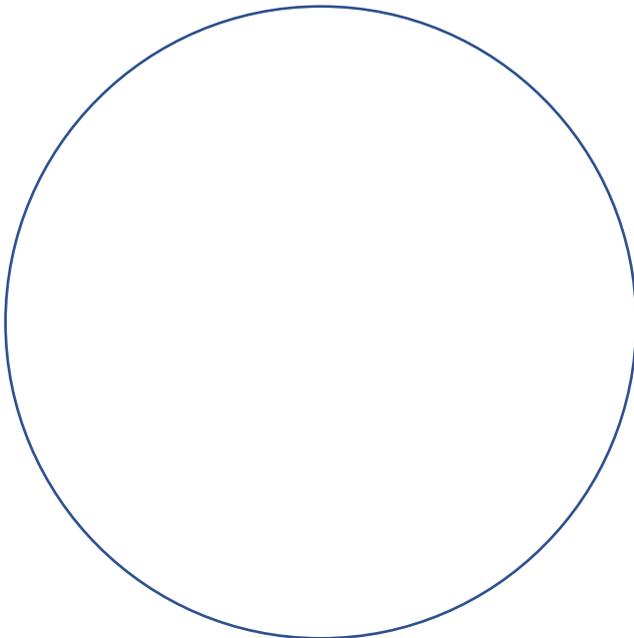
FUNCTIONAL CLASSIFICATION OF THE ORAL MUCOSA:



**HISTOLOGICAL CLASSIFICATION:**

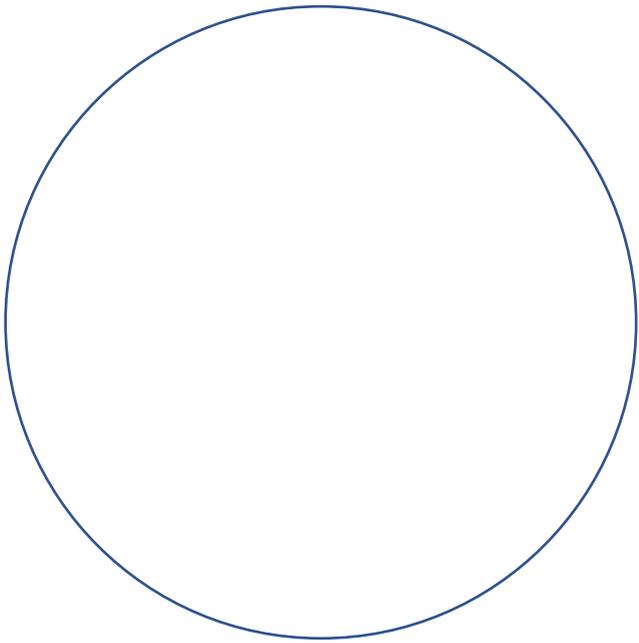
	NON-KERATINIZED MUCOSA	KERATINIZED MUCOSA
INTRODUCTION		
HISTOLOGICAL LAYERS		
HISTOLOGICAL FEATURES		
FUNCTIONS		
LOCATION		

**NON-KERATINIZED STRATIFIED SQUAMOUS EPITHELIUM:**



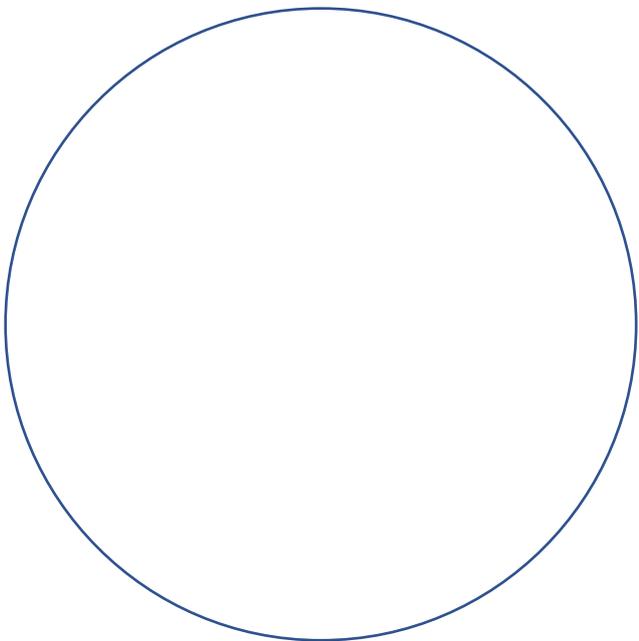
<u>FEEDBACK</u>	
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PARA-KERATINIZED STRATIFIED SQUAMOUS EPITHELIUM:



<u>FEEDBACK</u>	
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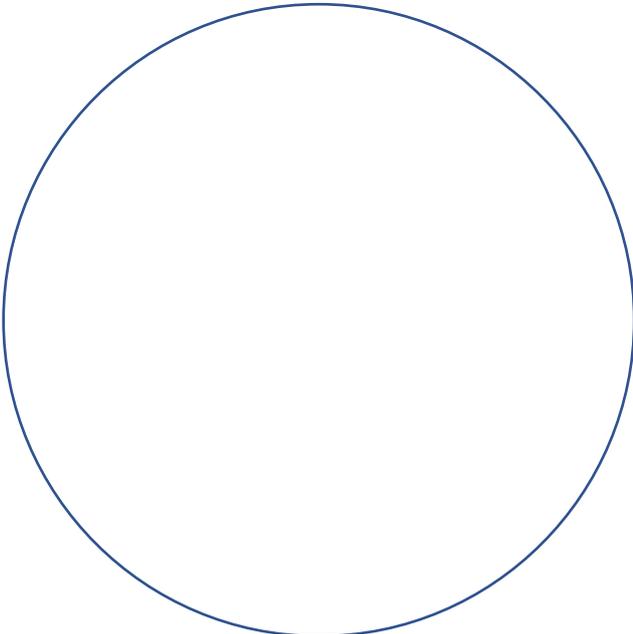
ORTHO-KERATINIZED STRATIFIED SQUAMOUS EPITHELIUM:



<u>FEEDBACK</u>	
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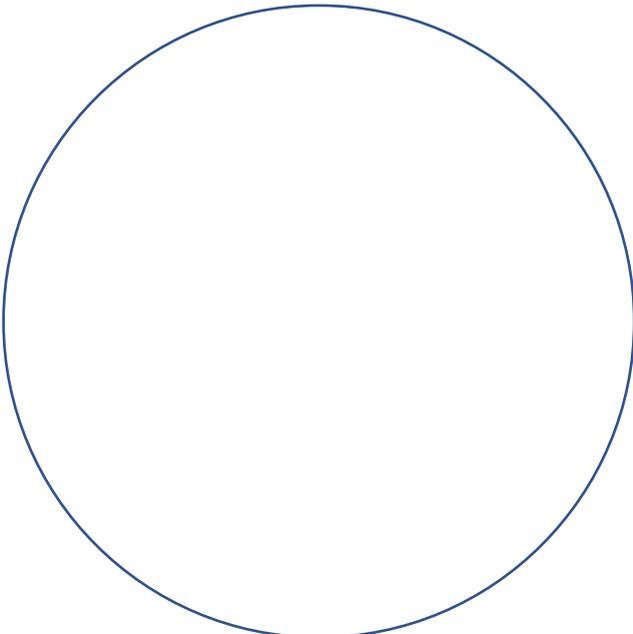
**SPECIALIZED MUCOSA**

FILIFORM PAPILLA:



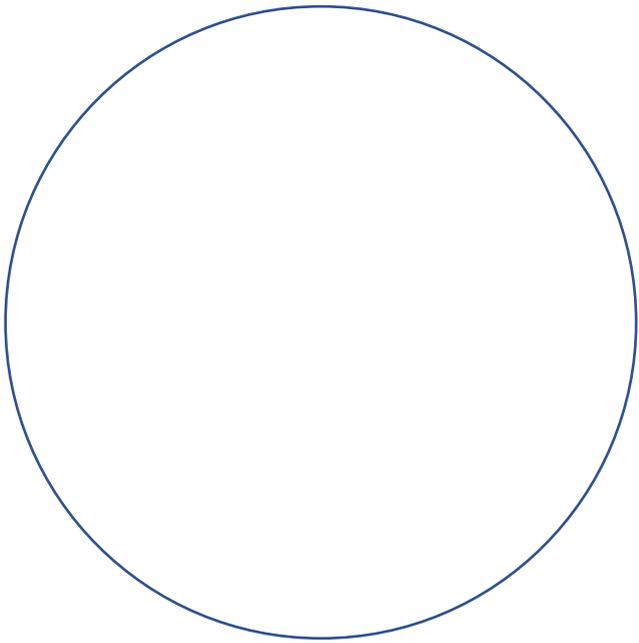
<u>FEEDBACK</u>	
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FUNGIFORM PAPILLA:



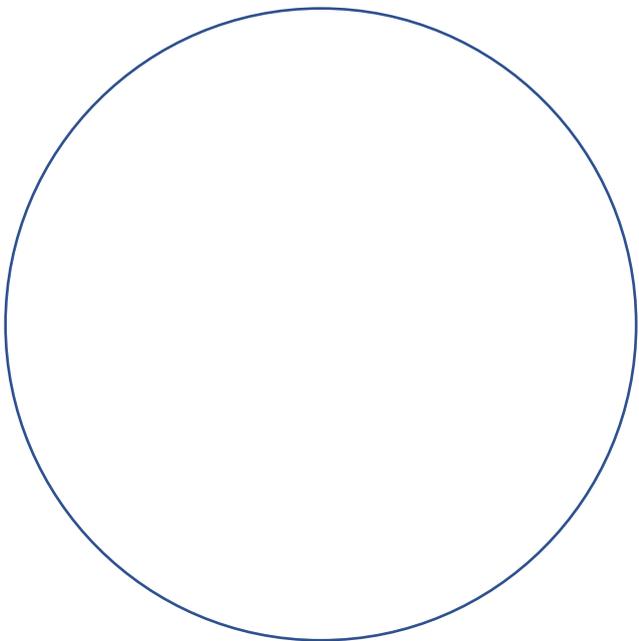
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**CIRCUMVALLATE PAPILLA:**



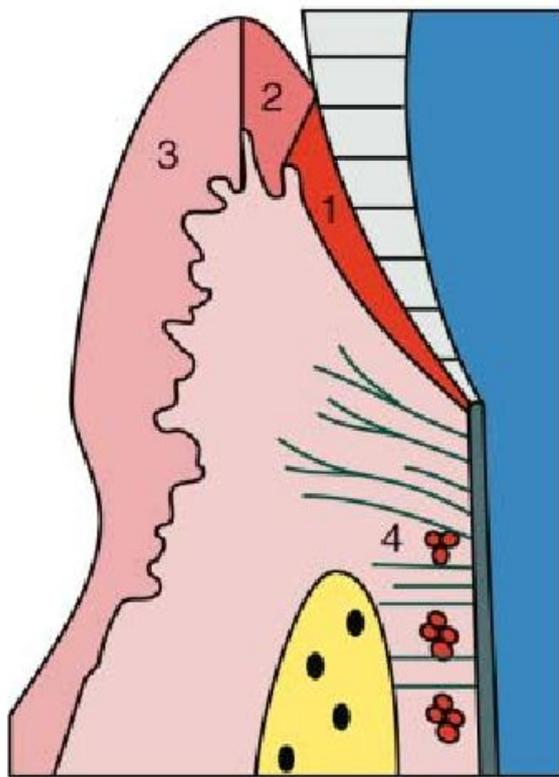
<u>FEEDBACK</u>	
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**TASTE BUDS:**



<u>FEEDBACK</u>	
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# GINGIVA



## Dento-gingival junction

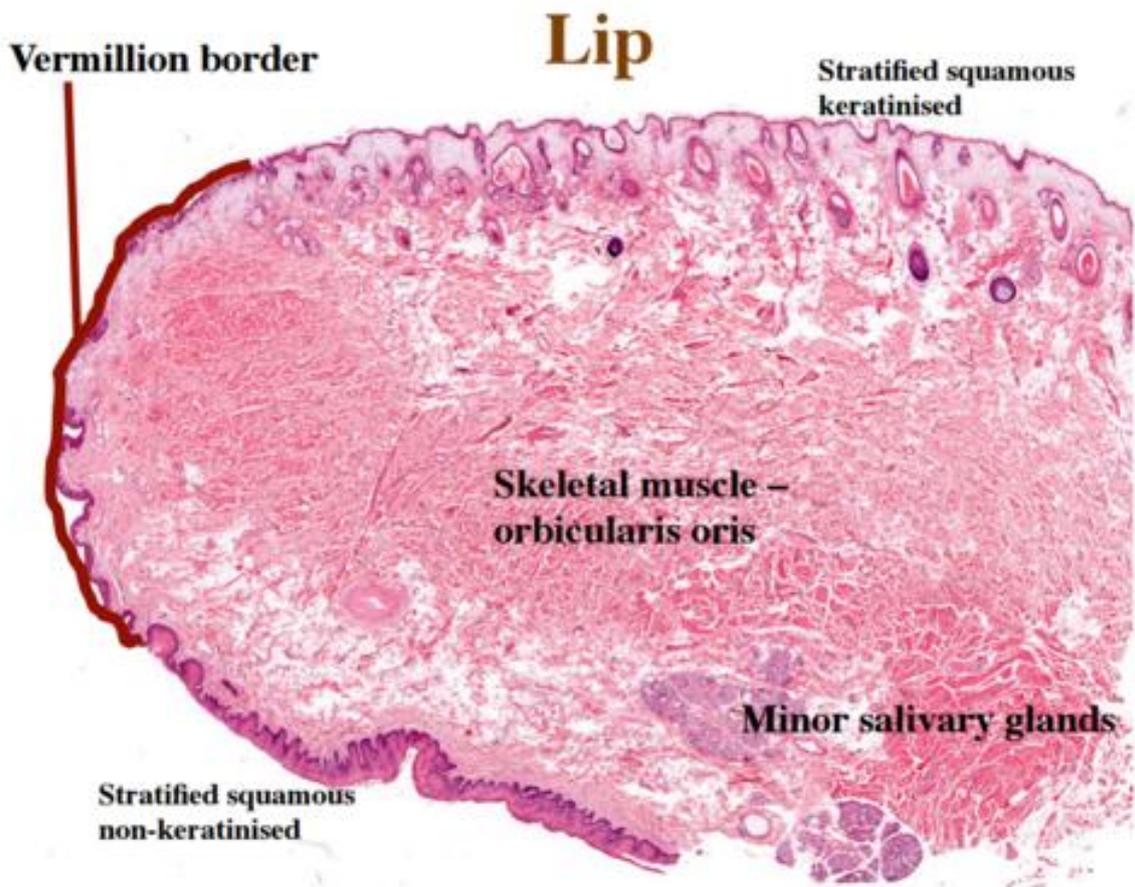
- 1.
- 2.
- 3.
- 4.

FUNCTIONS OF JUNCTIONAL EPITHELIUM:

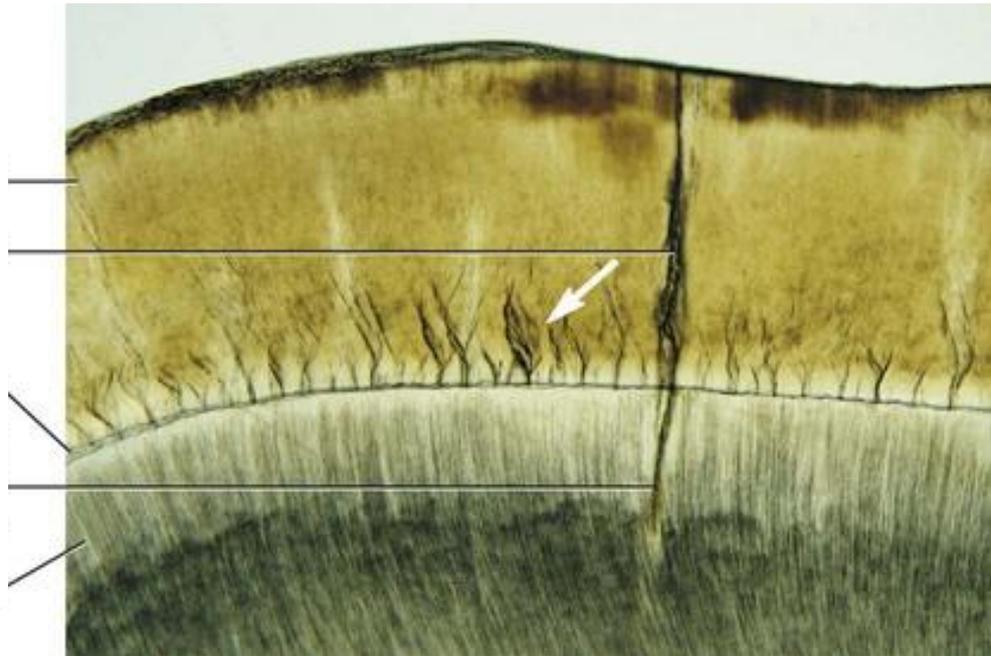
## MUCO-GINGIVAL JUNCTION



## VERMILION BORDER OF LIP

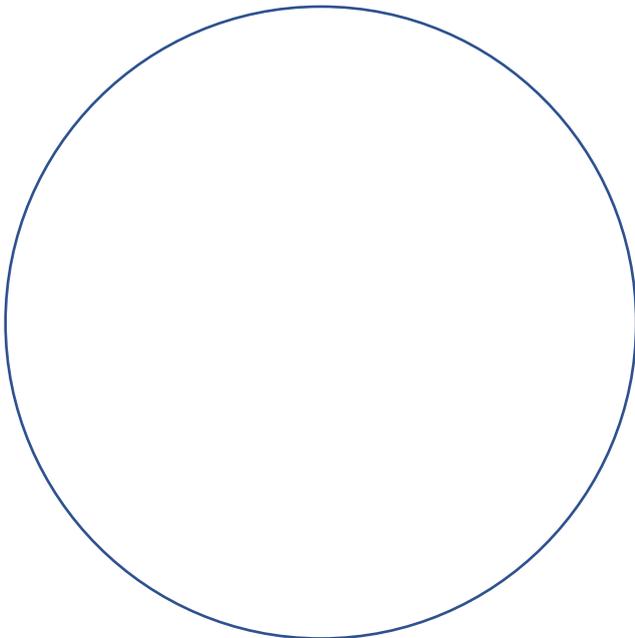


# HISTOLOGY OF ENAMEL



NORMAL LANDMARKS:

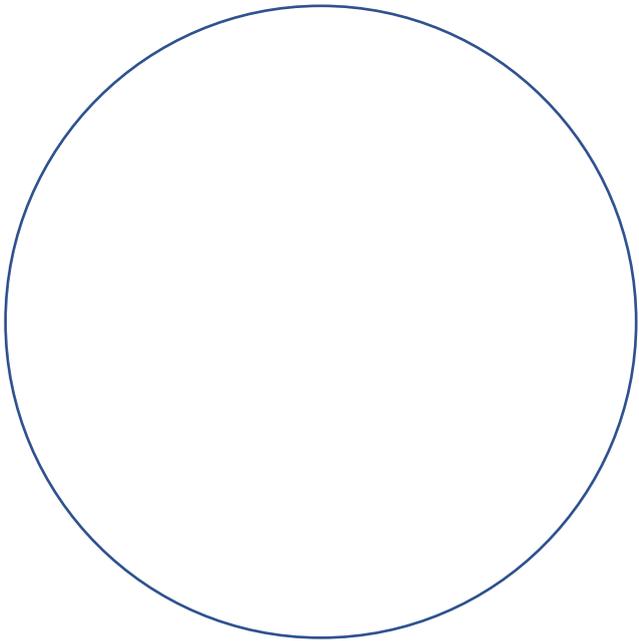
DENTINOENAMEL JUNCTION:



<u>FEEDBACK</u>	
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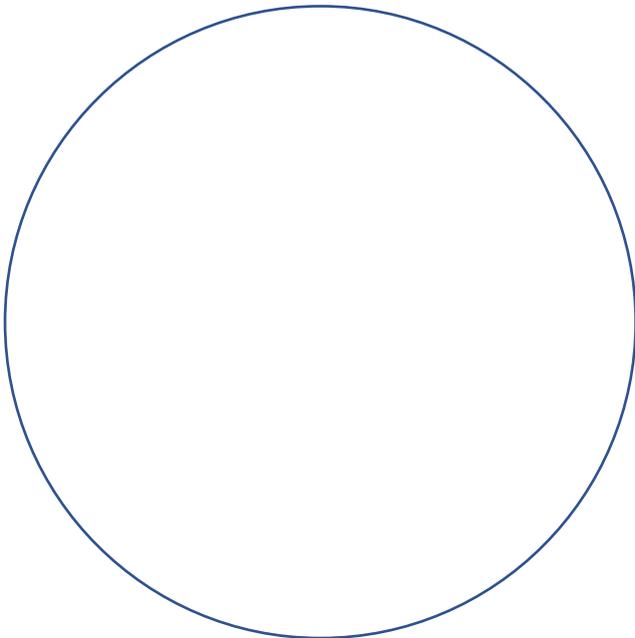
# **HYPOMINERALIZED STRUCTURES**

**STRIAE OF RETZIUS / PERIKYMATA:**



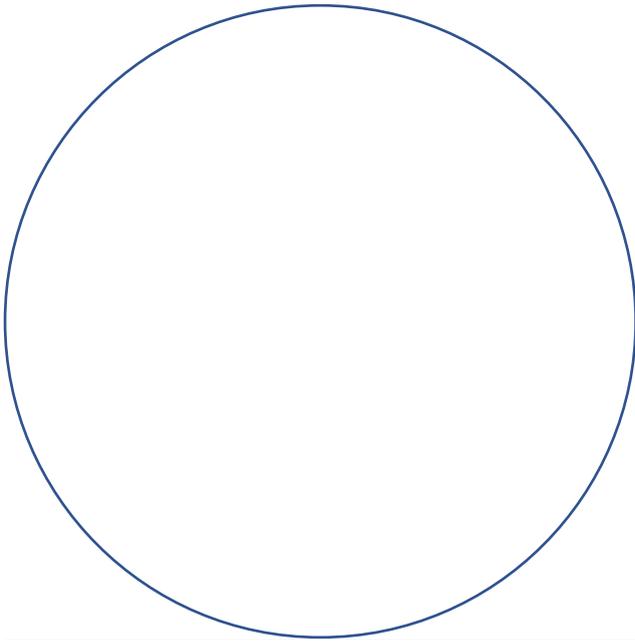
<u>FEEDBACK</u>	
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**ENAMEL TUFTS & LAMELLAE / ENAMEL SPINDLE:**



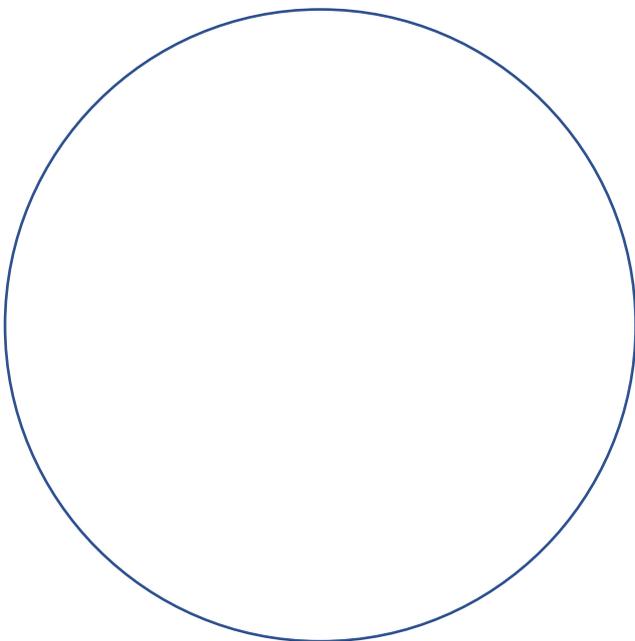
<u>FEEDBACK</u>	
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**GNARLED ENAMEL:**



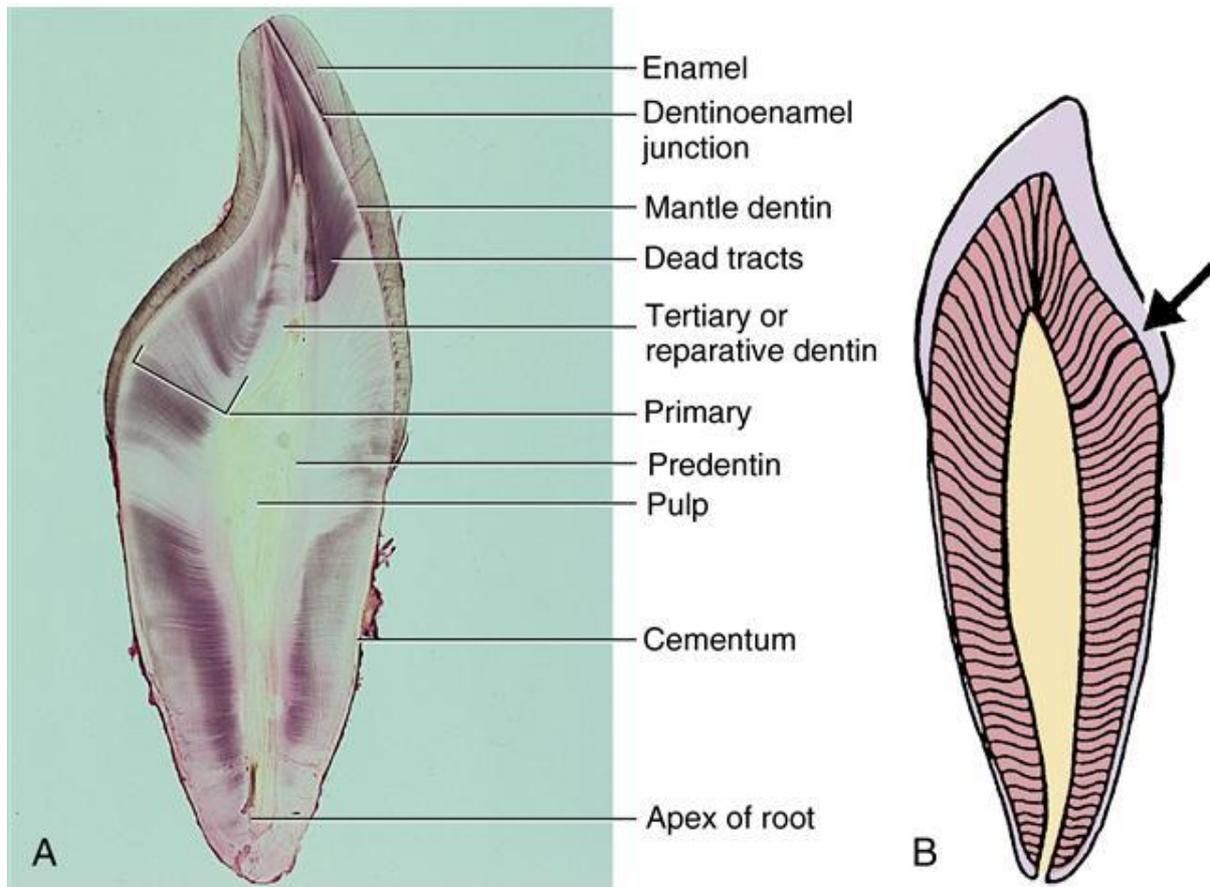
<u>FEEDBACK</u>	
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**HUNTER SCHREGER BANDS:**

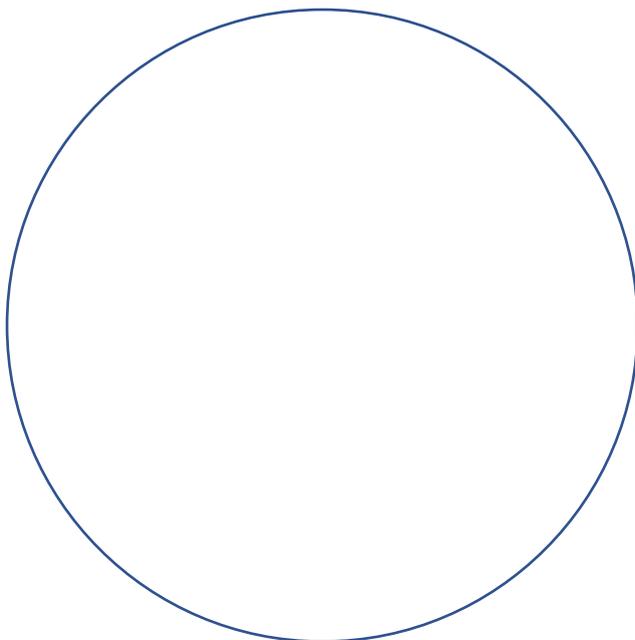


<u>FEEDBACK</u>	
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# HISTOLOGY OF DENTIN



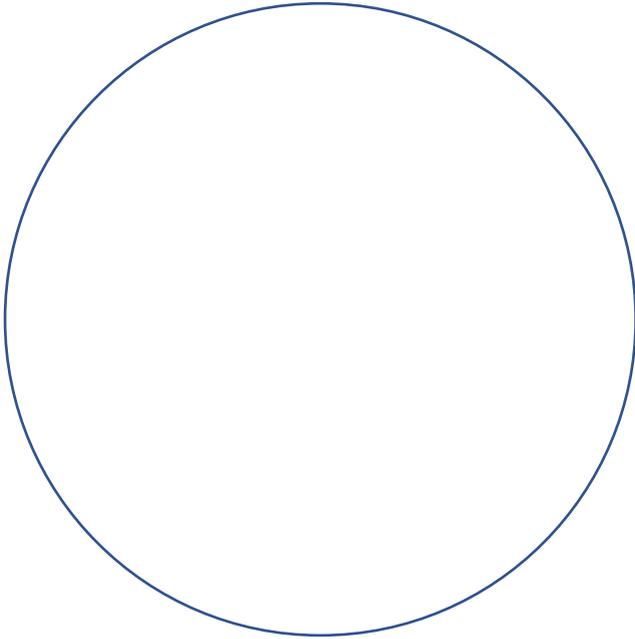
## PRIMARY & SECONDARY CURVATURE OF DENTIN:



FEEDBACK

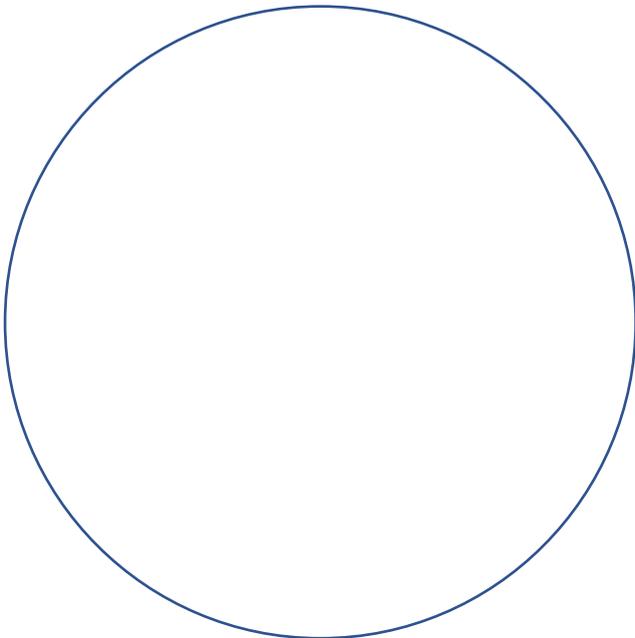
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**INTERGLOBULAR DENTIN:**



<u>FEEDBACK</u>	
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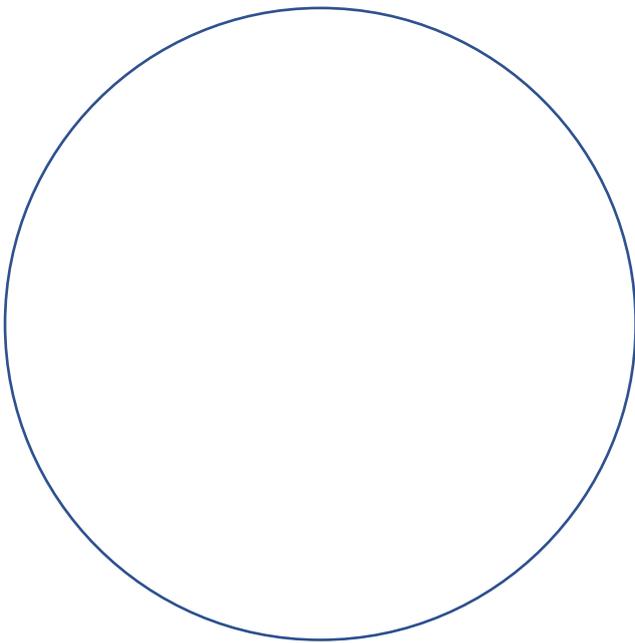
**DEAD TRACTS & SCLEROTIC DENTIN:**



<u>FEEDBACK</u>	
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# HISTOLOGY OF DENTIN-PULP COMPLEX

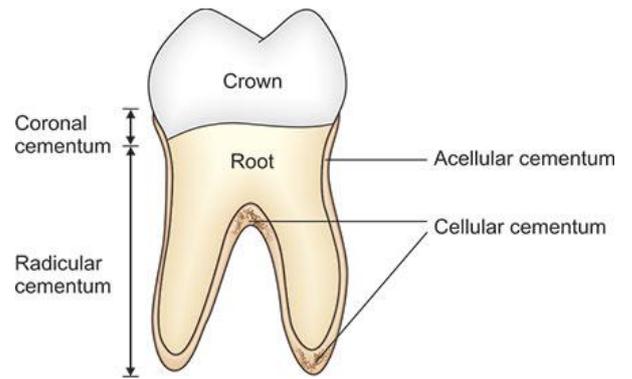
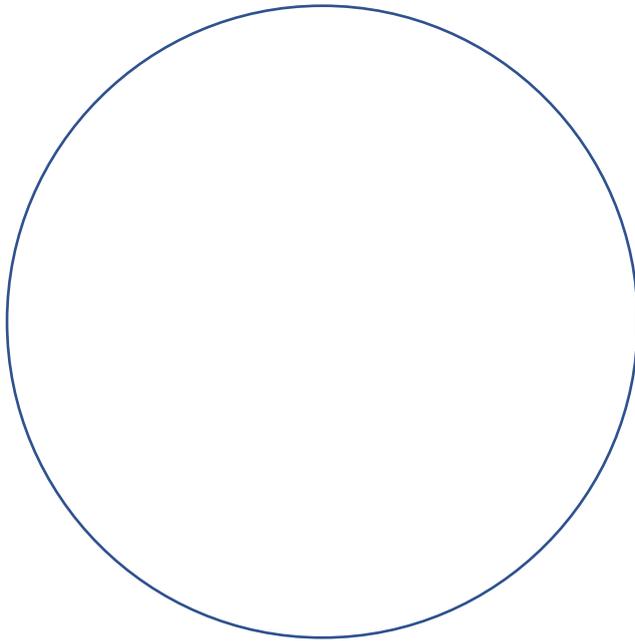
ZONES OF PULP:



<u>FEEDBACK</u>	
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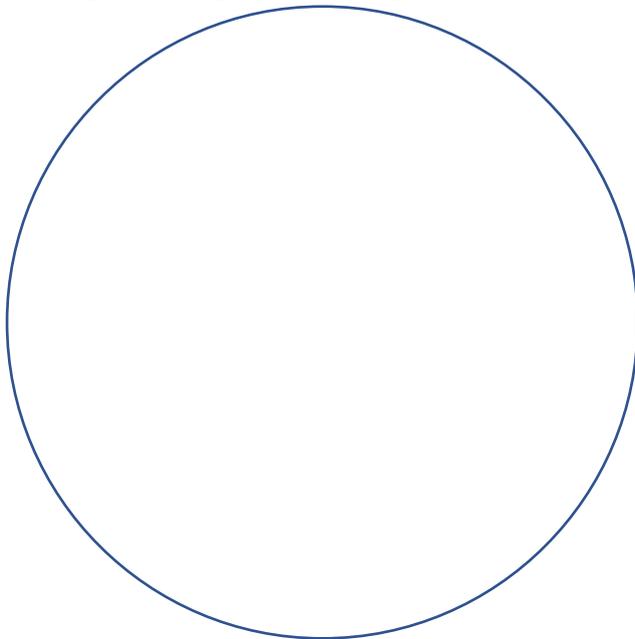
# HISTOLOGY OF CEMENTUM

## ACELLULAR CEMENTUM:



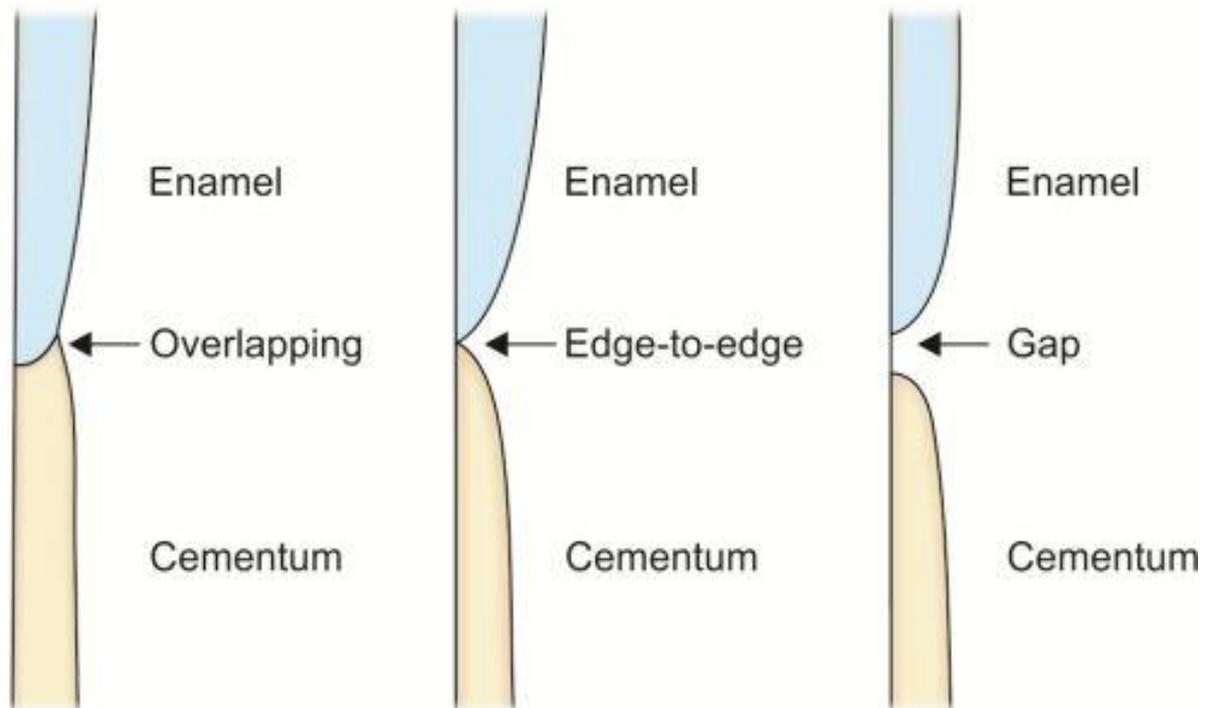
<u>FEEDBACK</u>	
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## CELLULAR CEMENTUM:



<u>FEEDBACK</u>	
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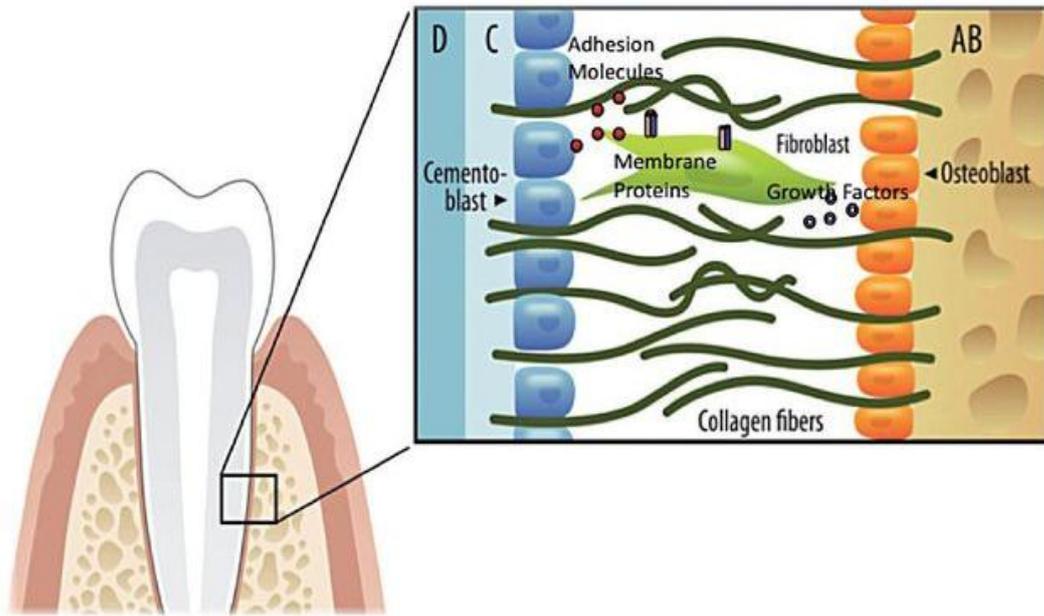
## CEMENTO-ENAMEL JUNCTION:



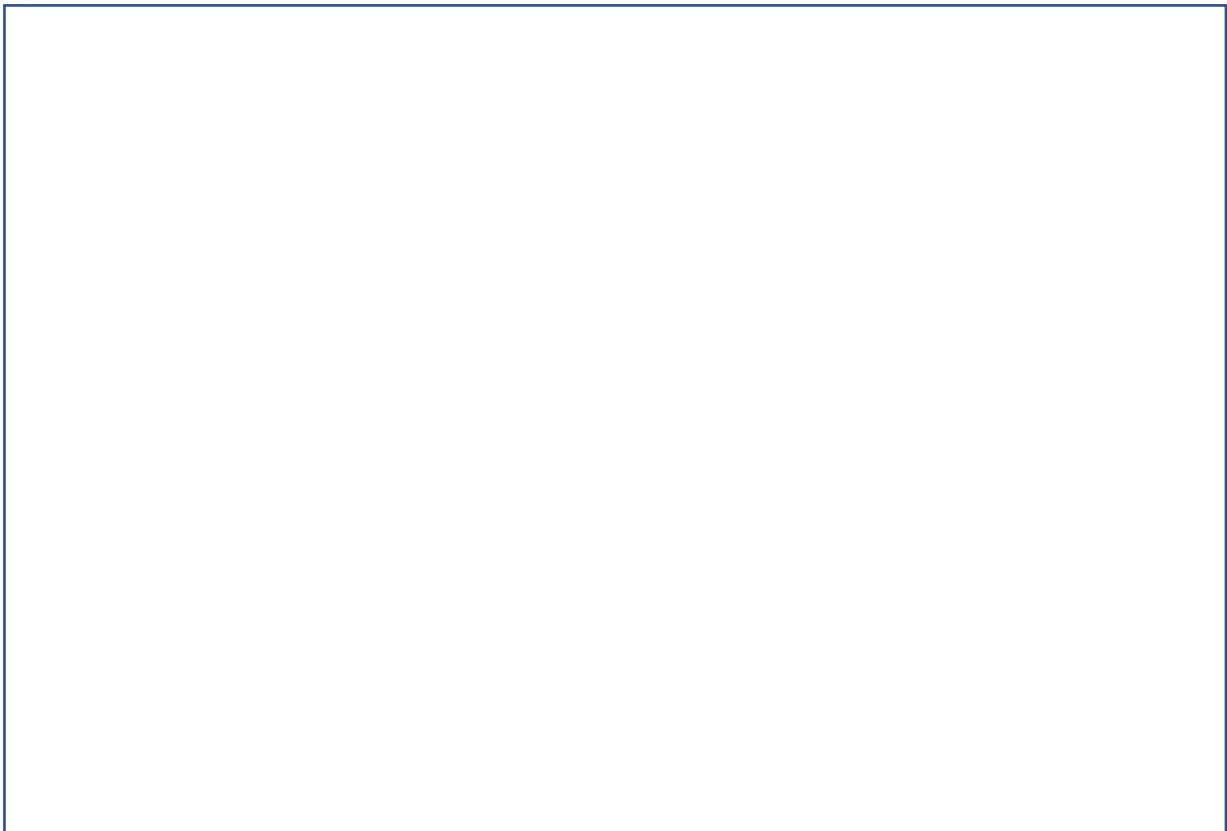
## DISTRIBUTION – PERMANENT DENTITION:

## DISTRIBUTION – DECIDUOUS DENTITION:

## PERIODONTAL LIGAMENT



## PRINCIPLE FIBERS OF PDL

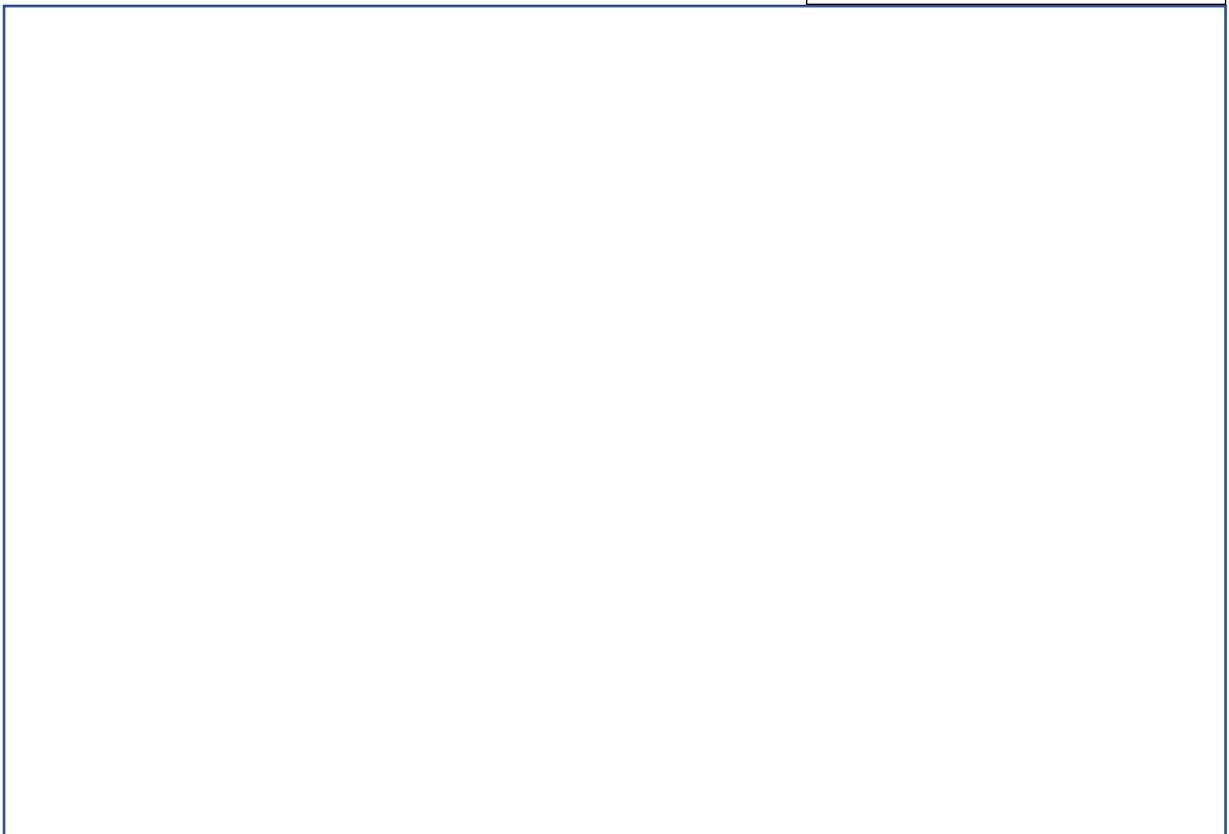


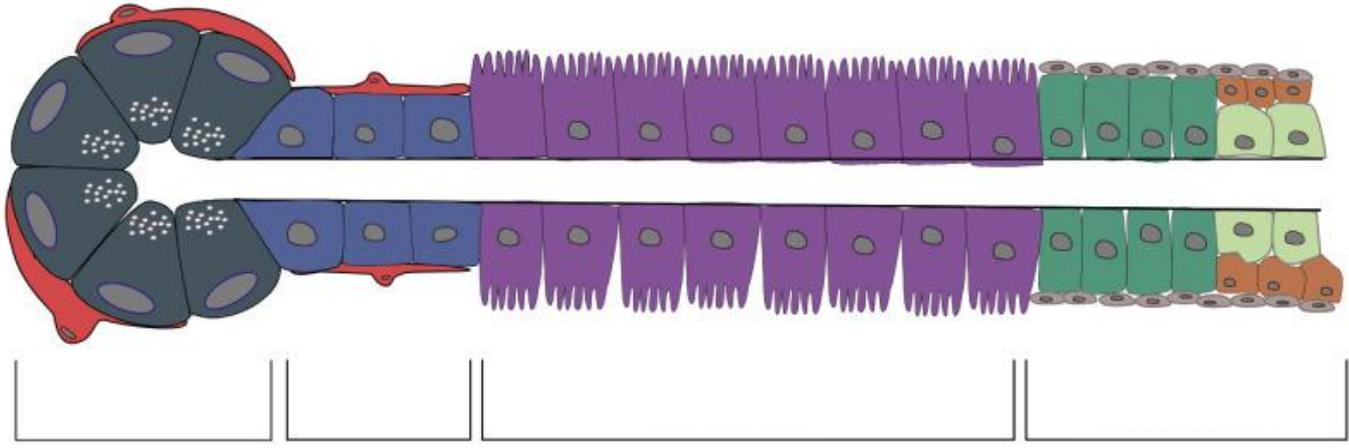
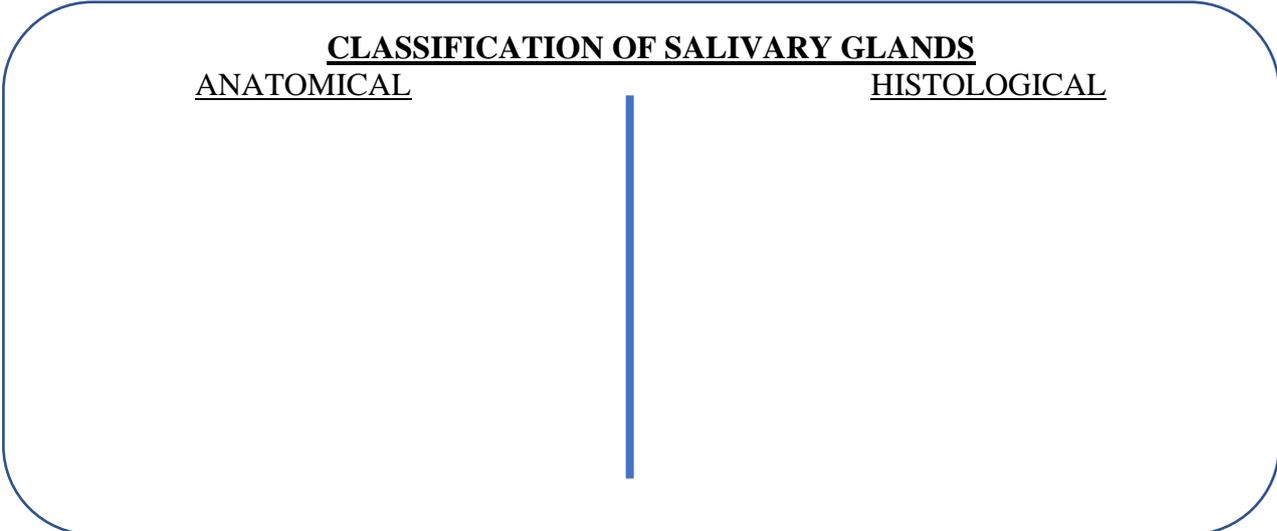
# GINGIVAL FIBERS

VERTICAL SECTION



HORIZONTAL SECTION





**SALIVA:**

STIMULATED SALIVA	
UNSTIMULATED SALIVA	

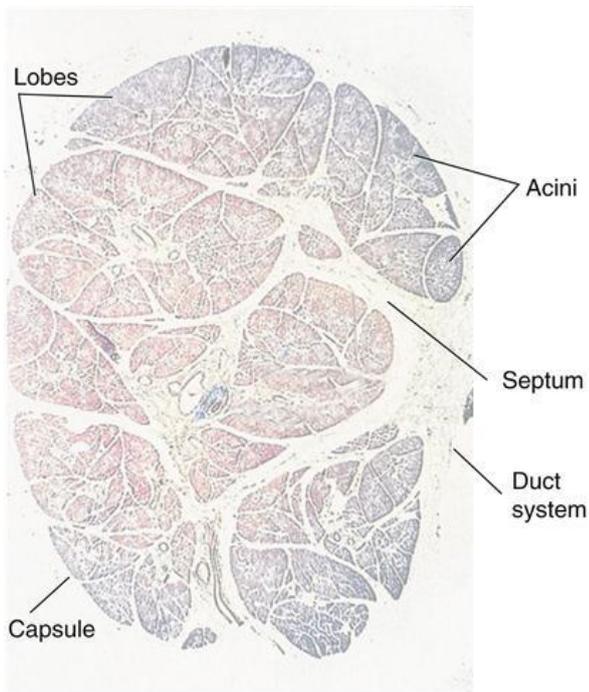
**MINOR SALIVARY GLANDS:**



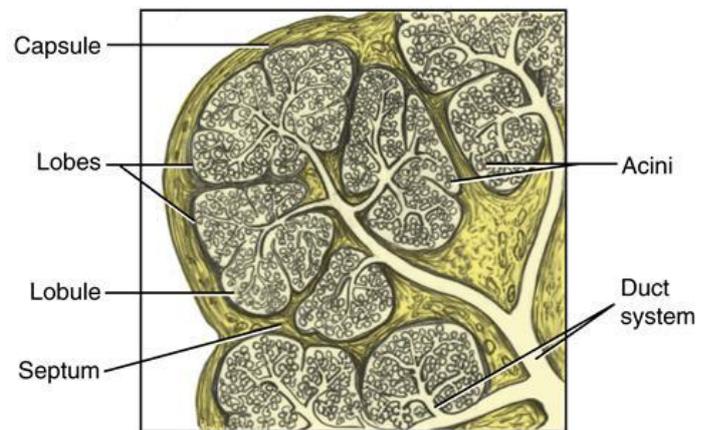
**\*Label the shaded areas in the above image.**

SEROUS ACINI	MUCOUS ACINI	SEROUS DEMILUNE

**ARCHITECTURE OF SALIVARY GLANDS:**

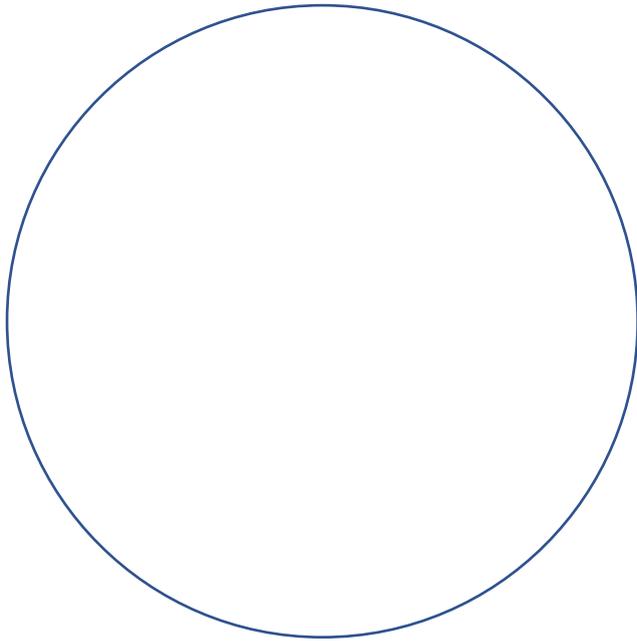


A



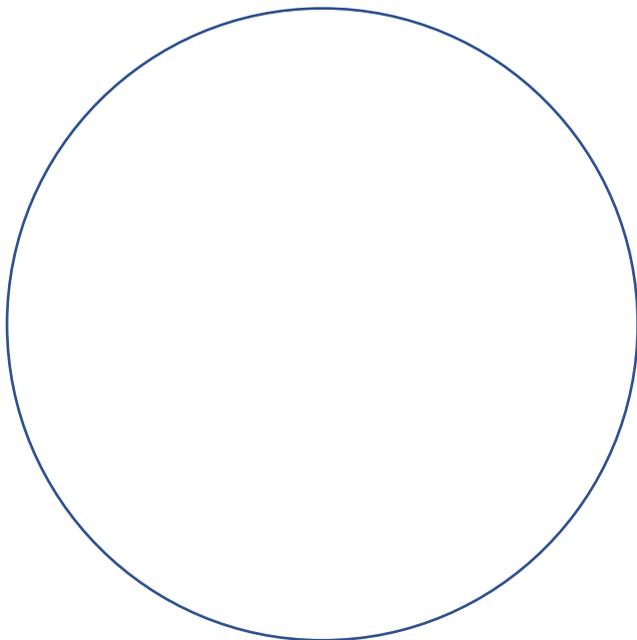
B

**PAROTID GLAND:**



<u>FEEDBACK</u>	
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**SUBMANIDUBAR/SUBLINGUAL GLAND:**



<u>FEEDBACK</u>	
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