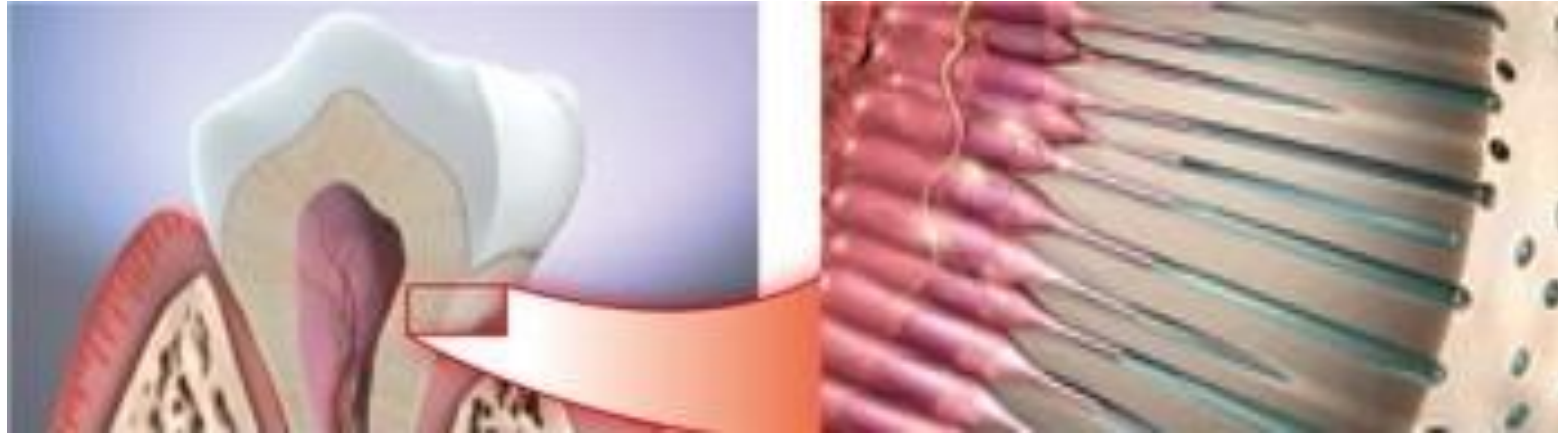
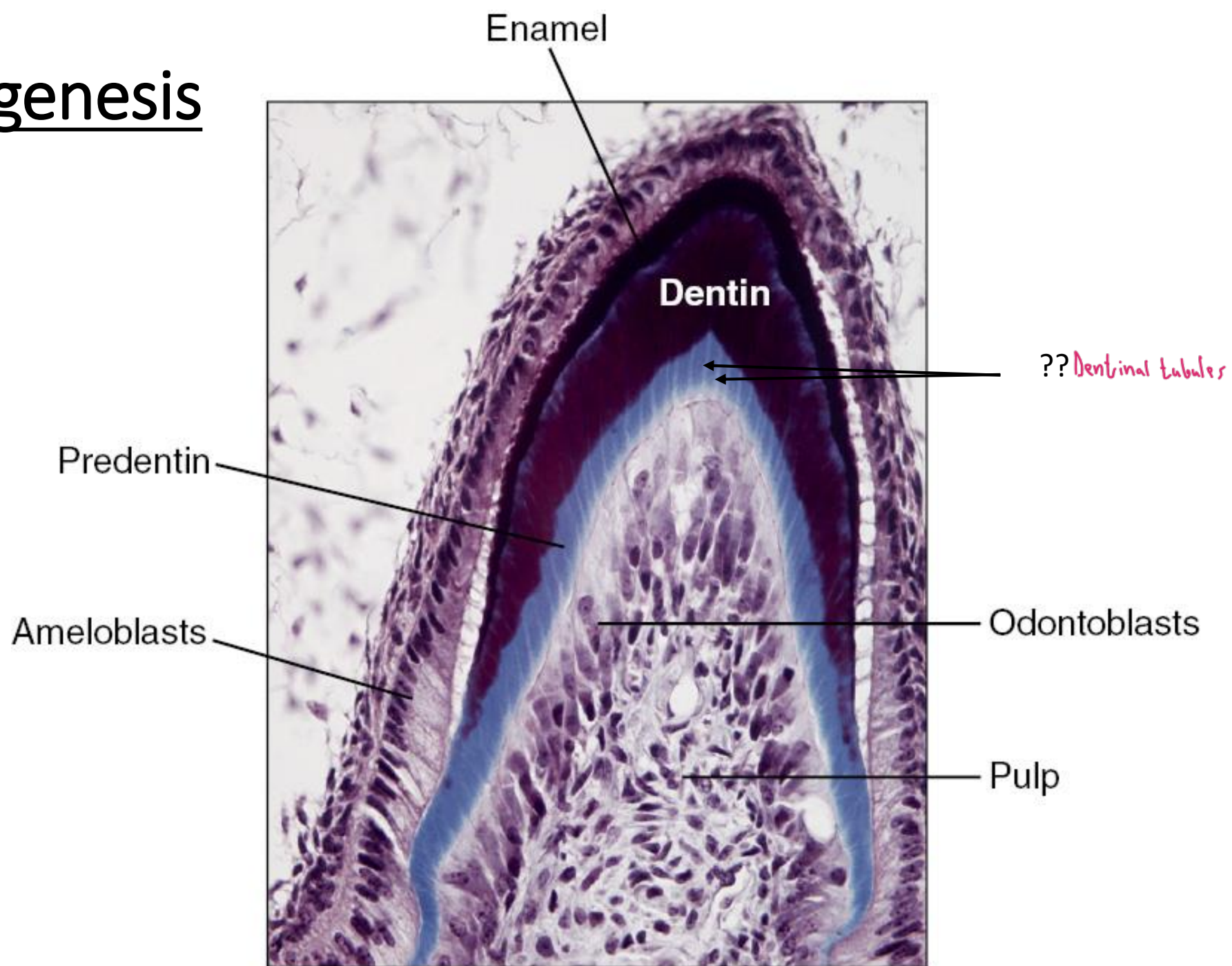




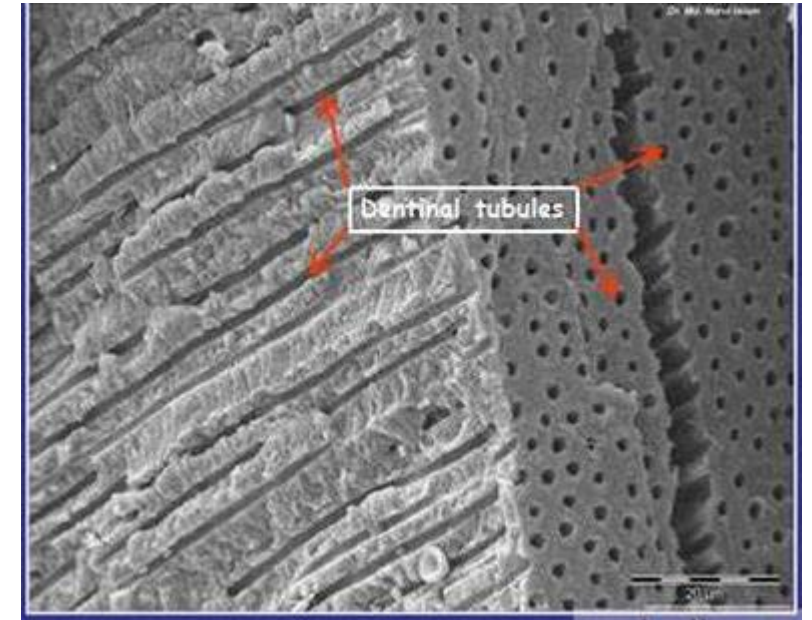
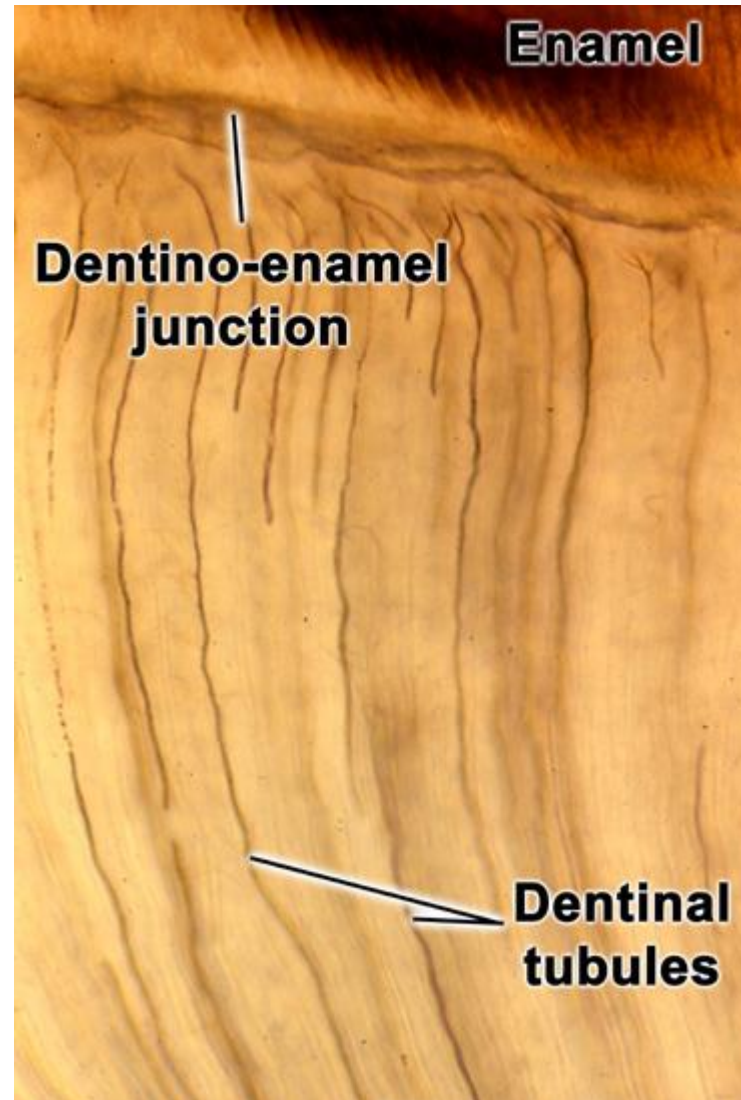
Dentin

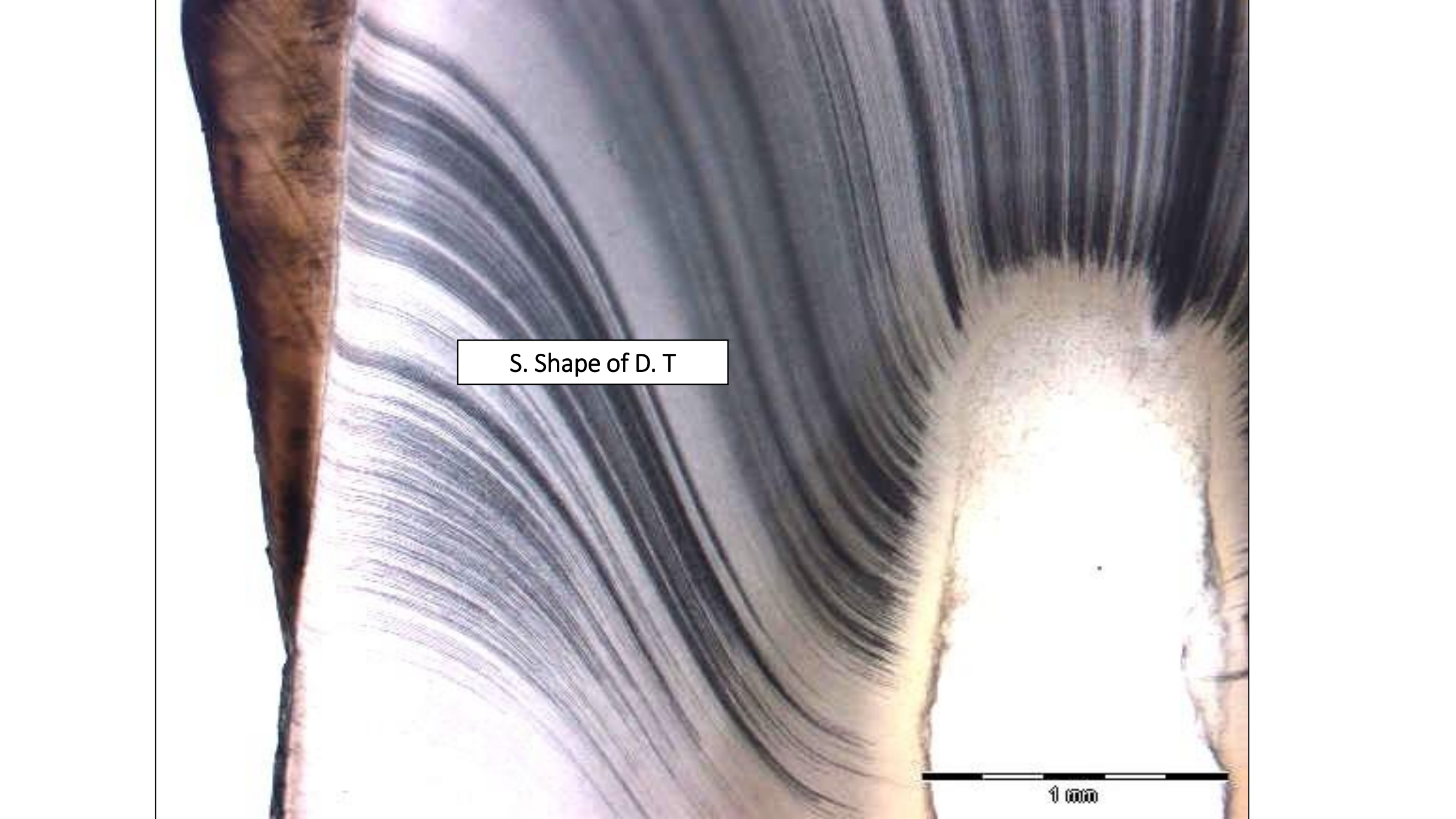
5th practical session

Dentinogenesis



Dentinal tubules

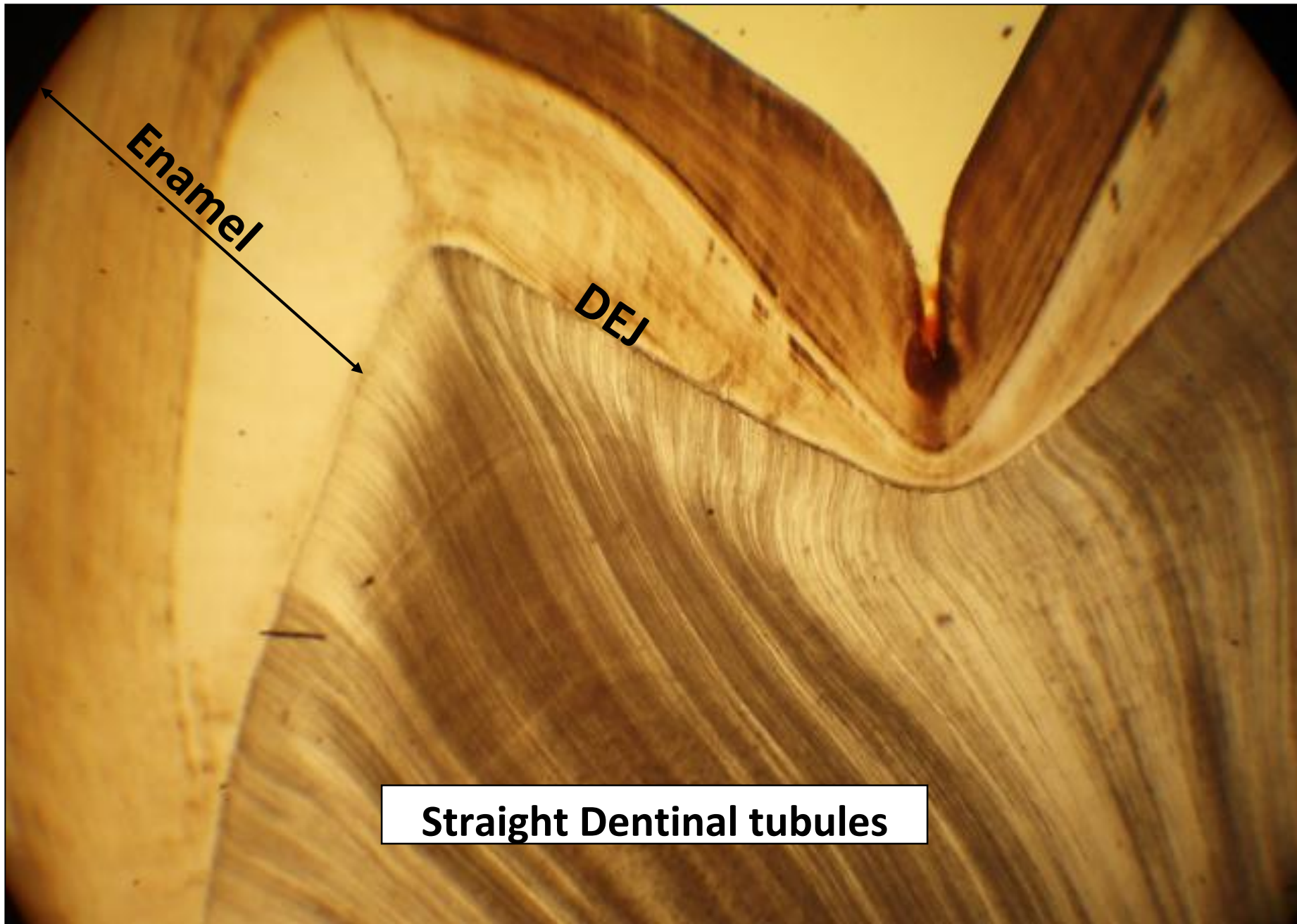


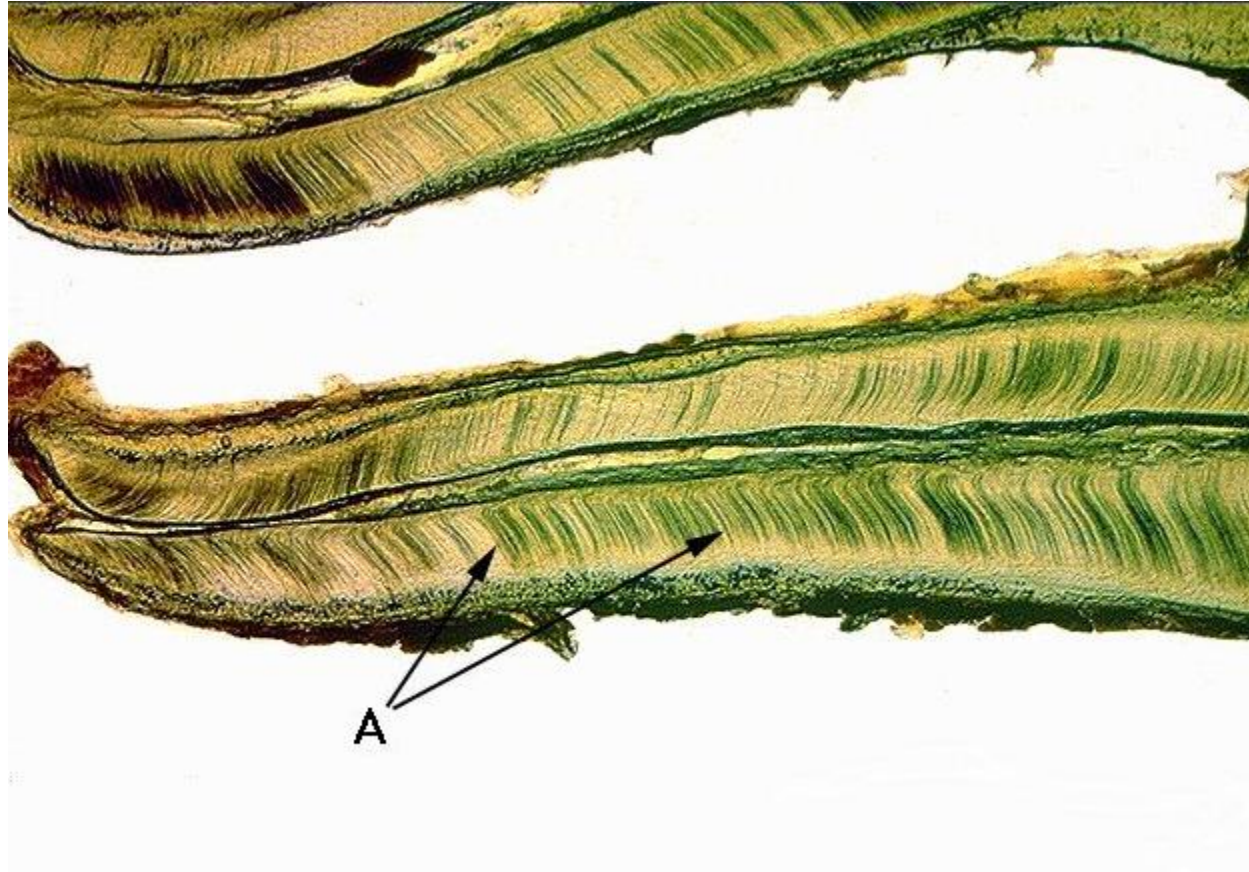


A high-magnification micrograph of a tooth section. The image shows a semi-circular dentin (D) and pulp (T) space. The dentin is stained brown, and the pulp space is stained pink. The pulp space is semi-circular in shape. The dentin is composed of many fine, parallel lines, which are the dentin tubules. The pulp space is a clear, open area. A scale bar at the bottom right indicates 1 mm.

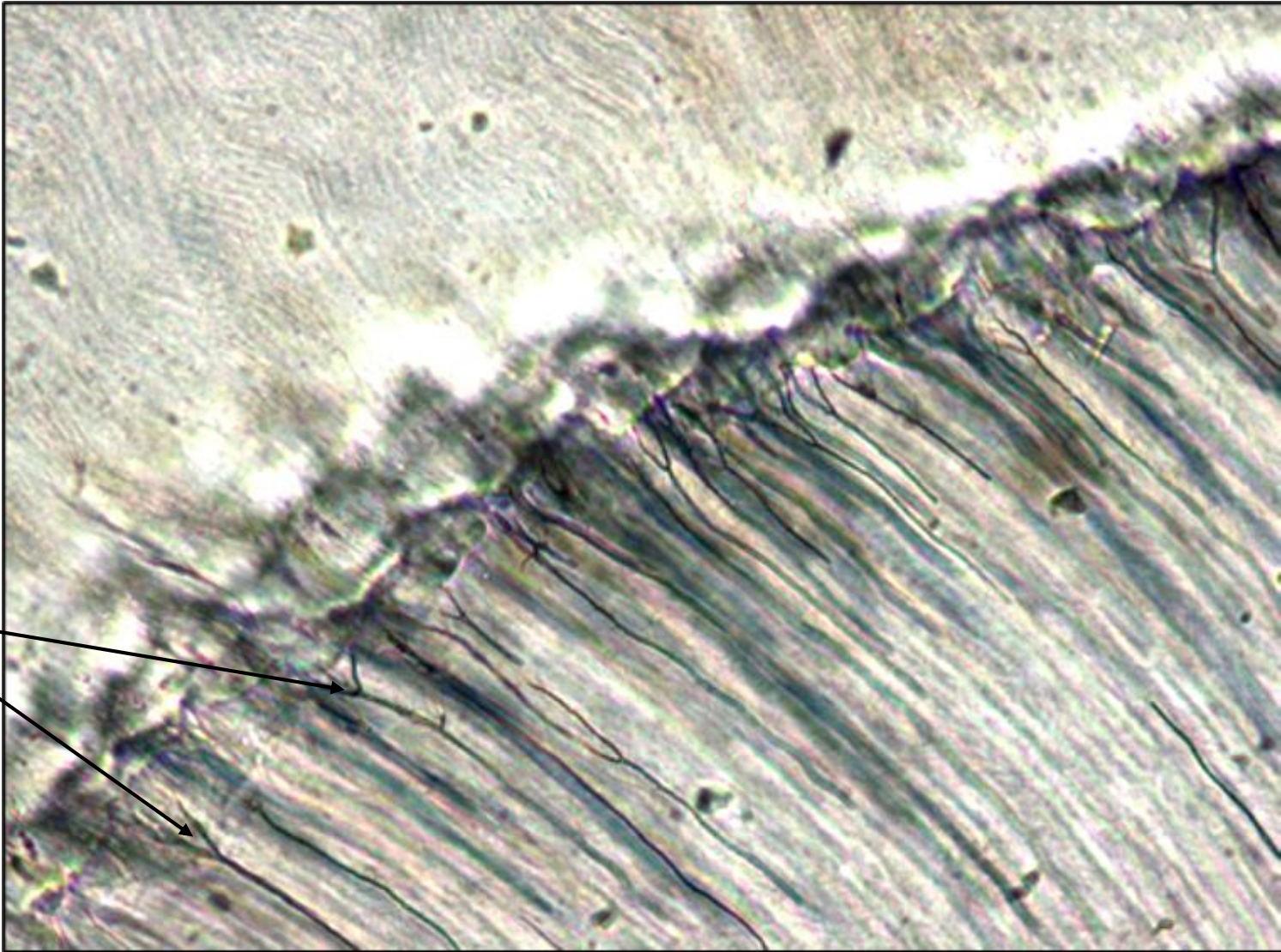
S. Shape of D. T

1 mm

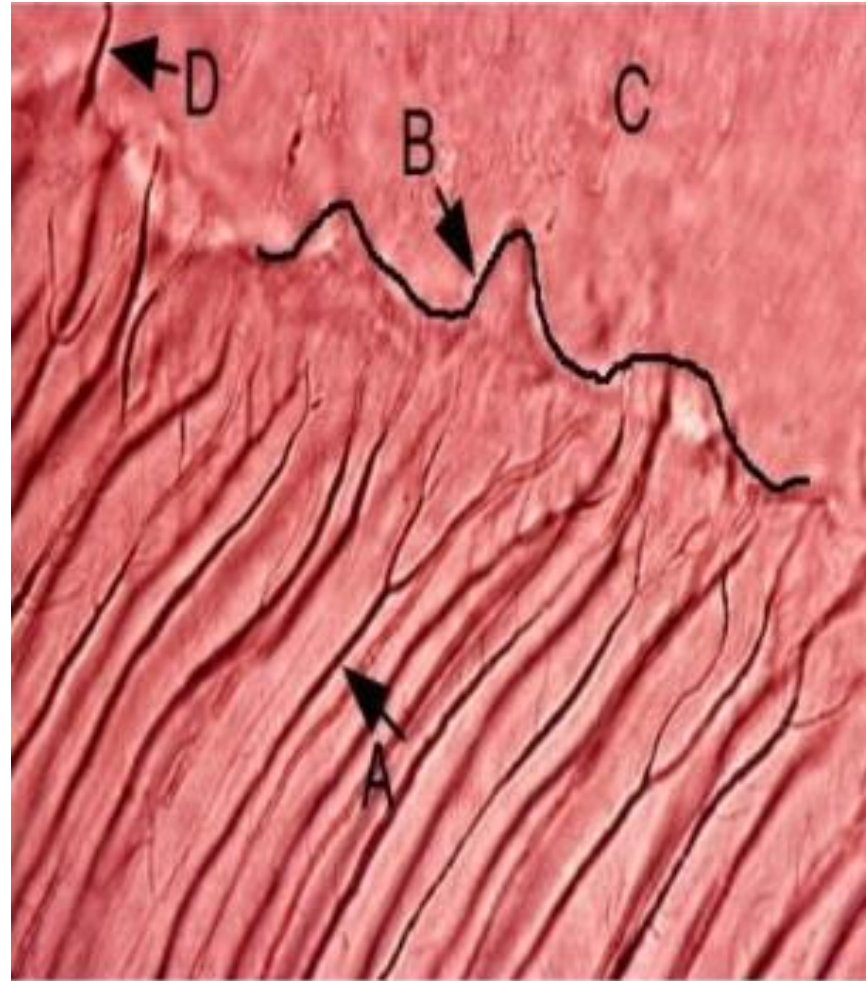




A - dentinal tubules in root dentin

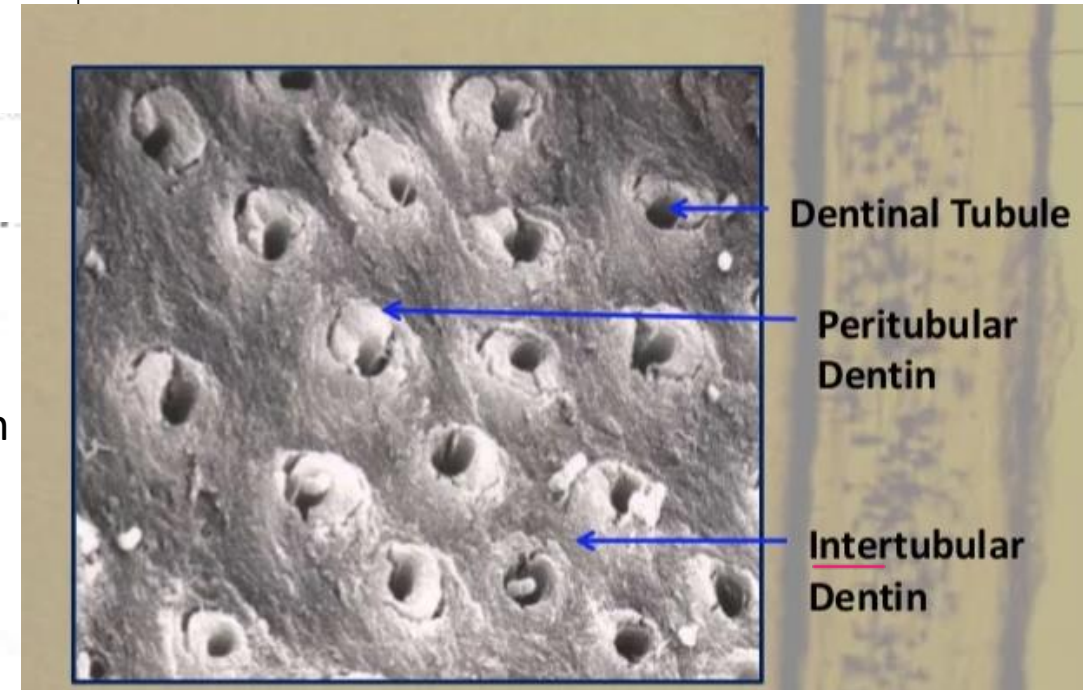
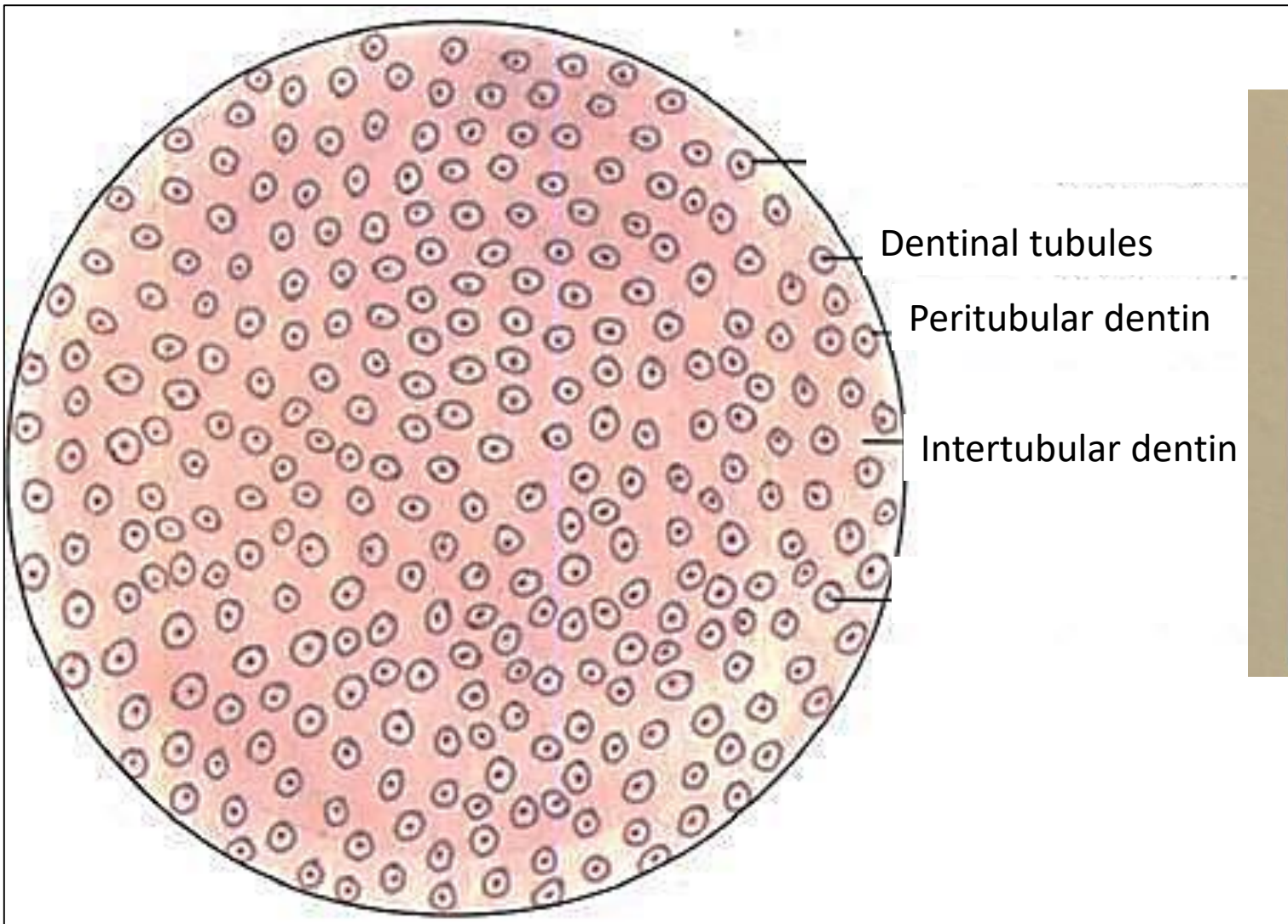


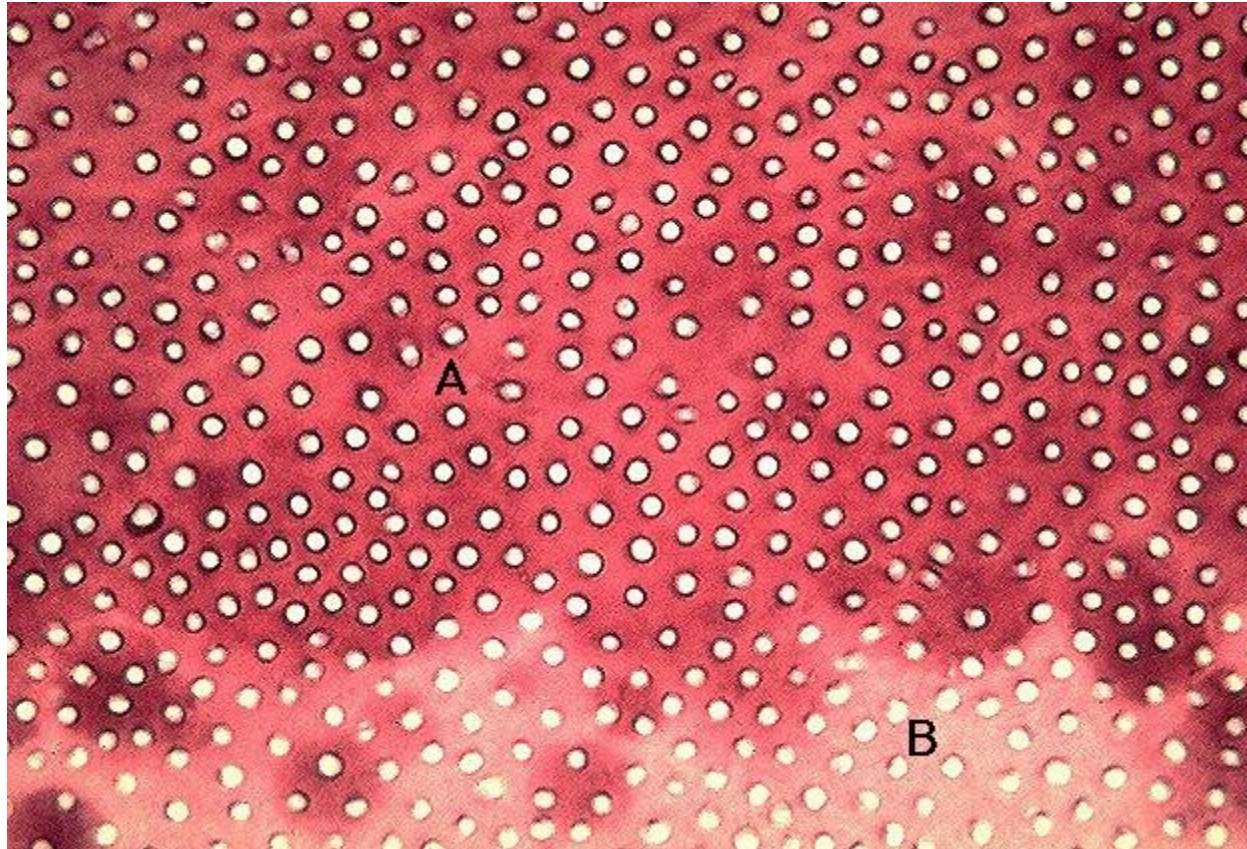
**Terminal branching
of dentinal tubules**



A, Dentinal tubule; **B**, DEJ;
C, Enamel; **D**, Enamel spindle

Dental Tubules in T.S

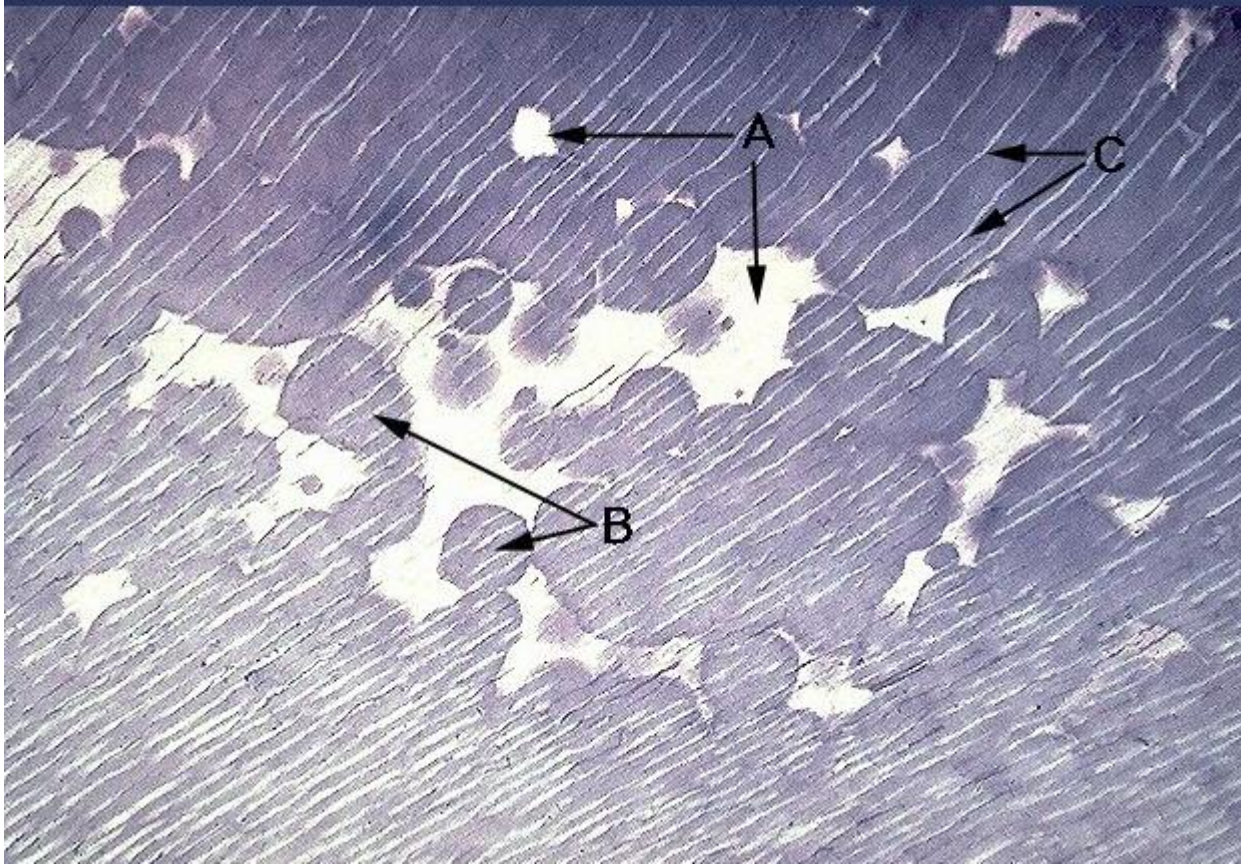




A - intertubular dentin

B - predentin

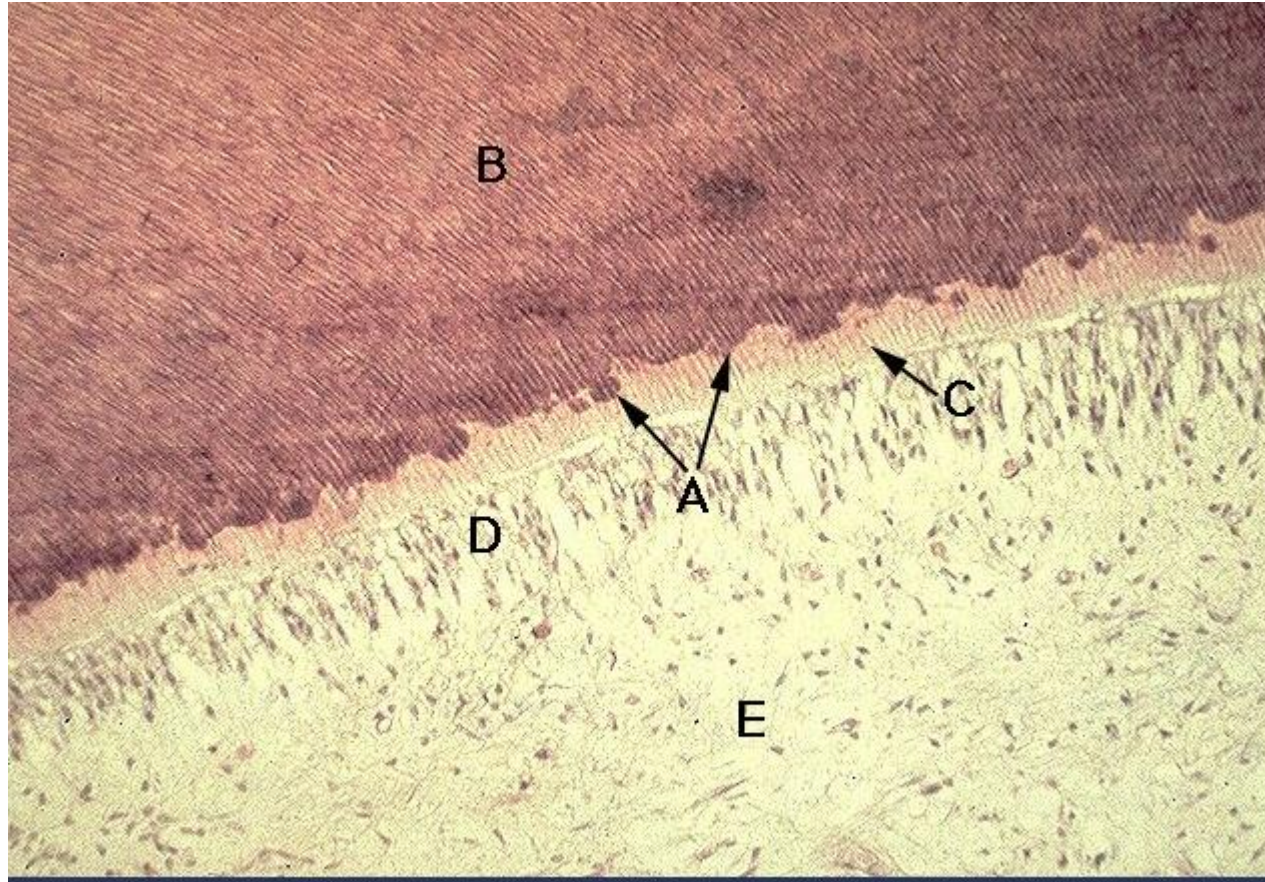
Interglobular dentin



A - interglobular dentin

B - globular dentin

C - dentinal tubules



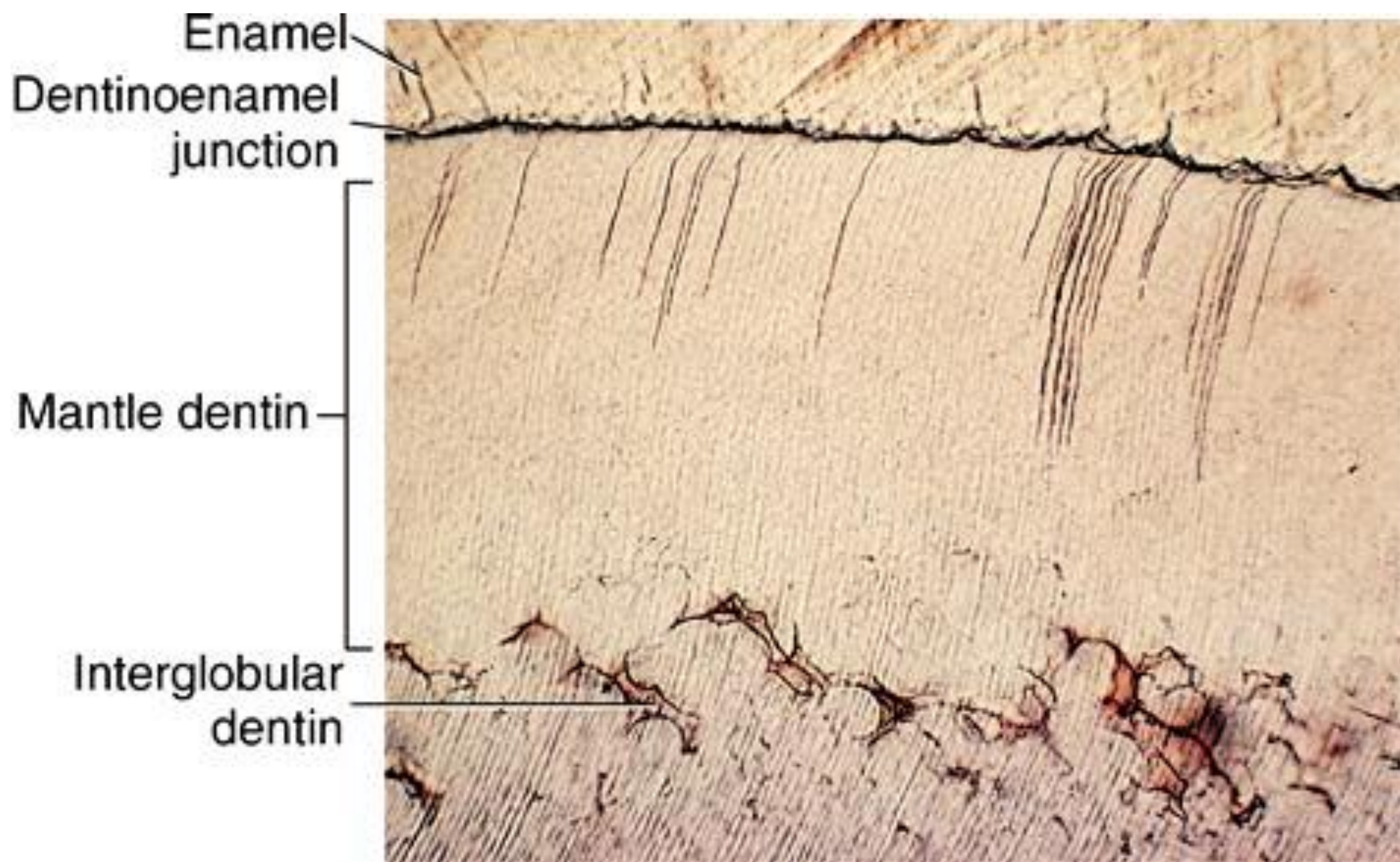
A - dentin mineralization front

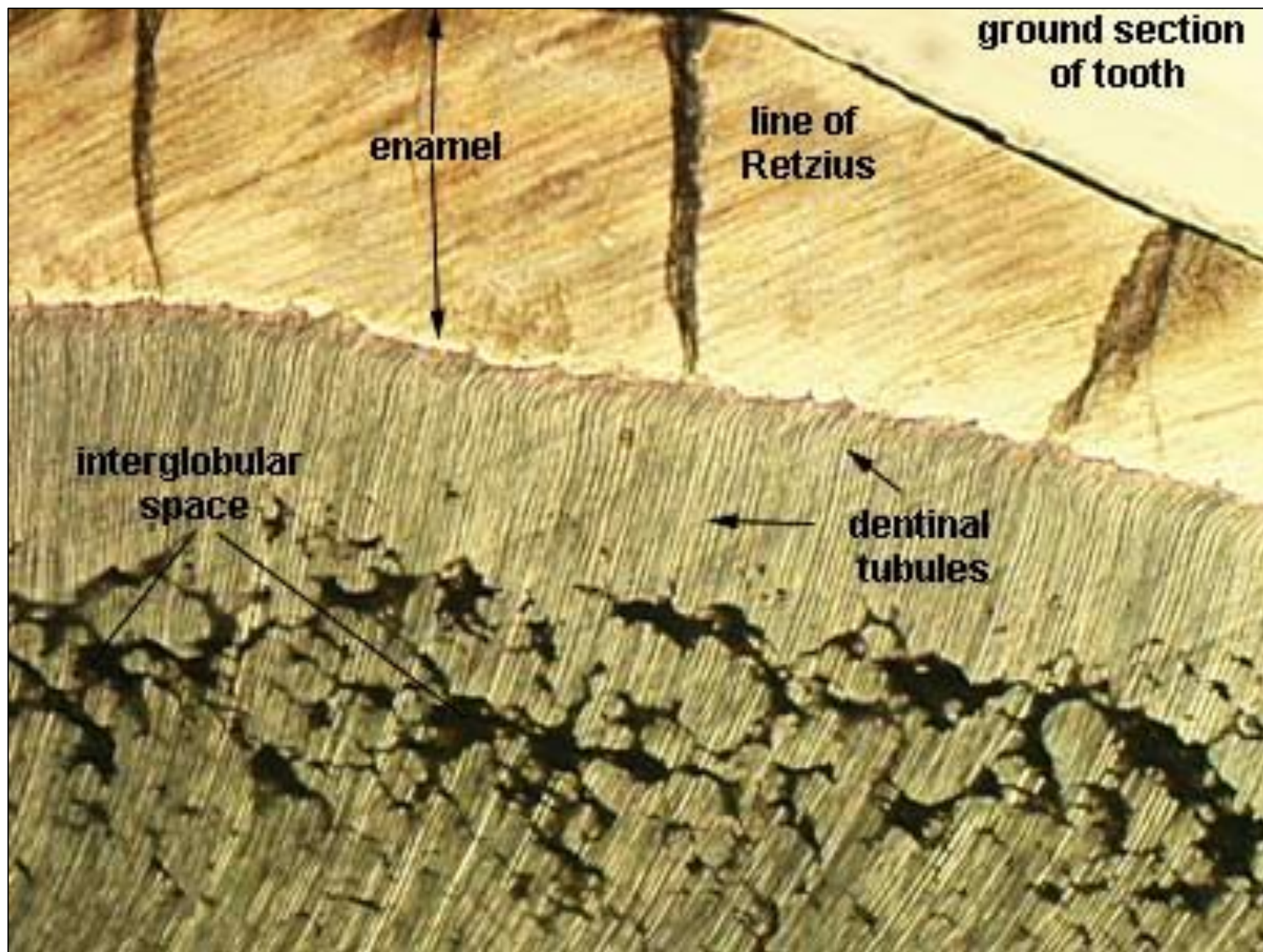
B - dentin

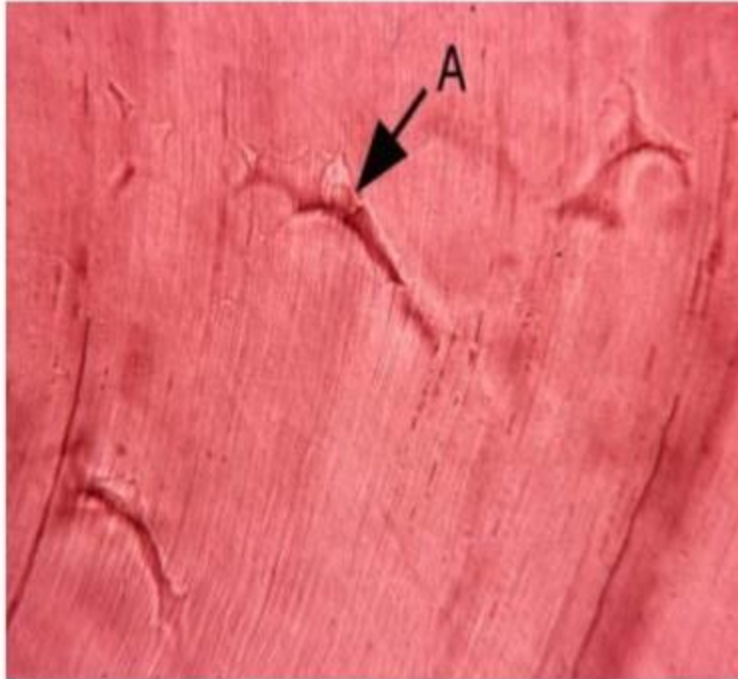
C - predentin

D - odontoblasts

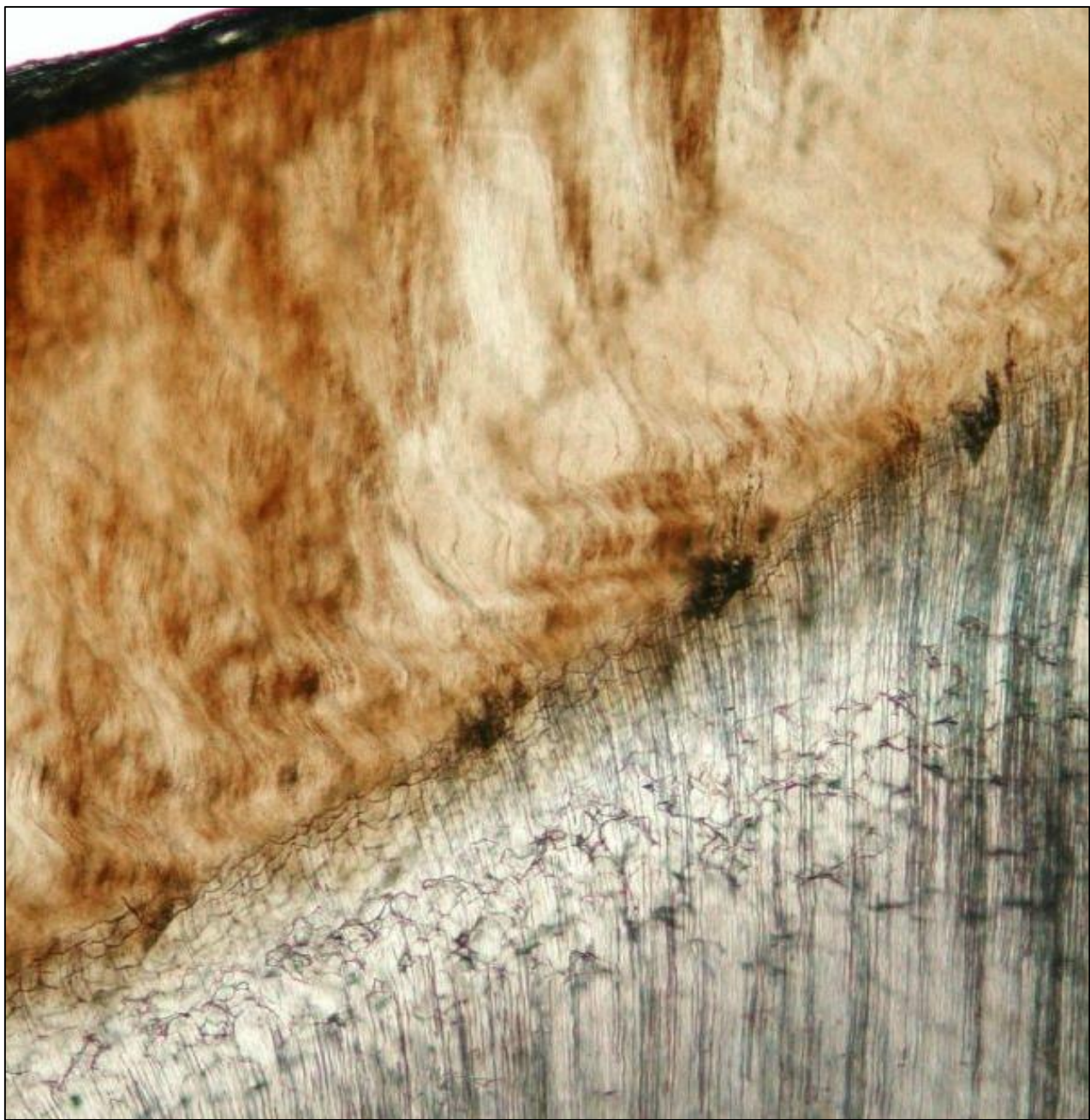
E - pulp



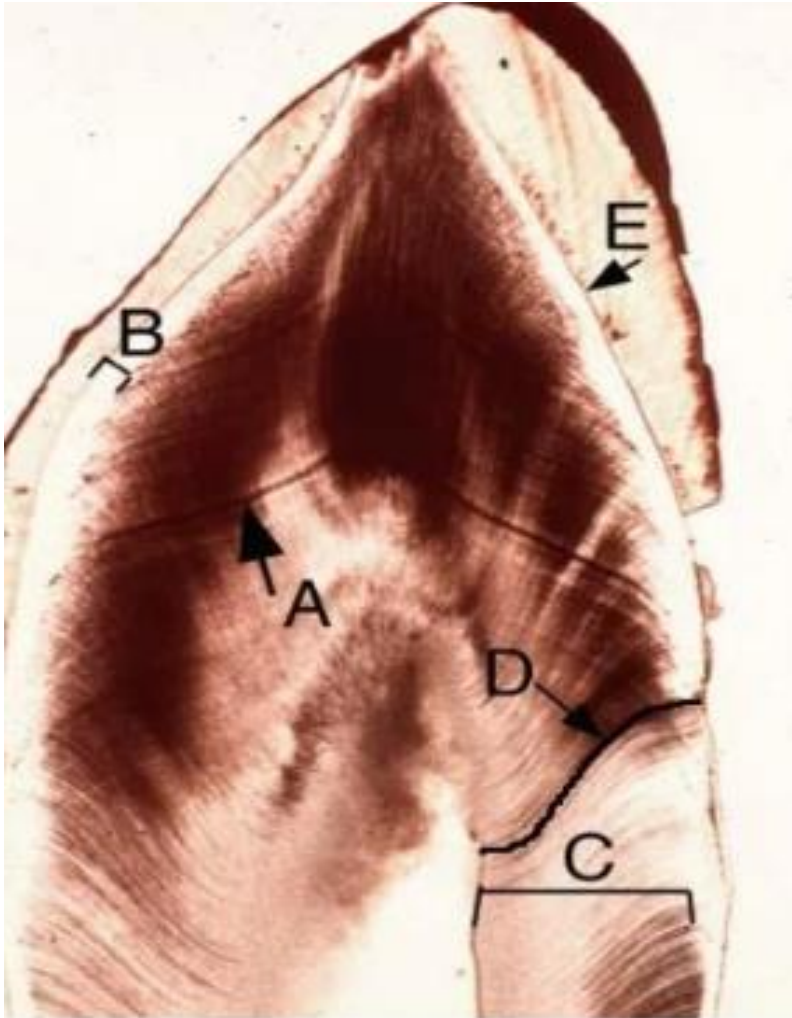




A, Interglobular dentin



Incremental lines



A:Countor line of owen

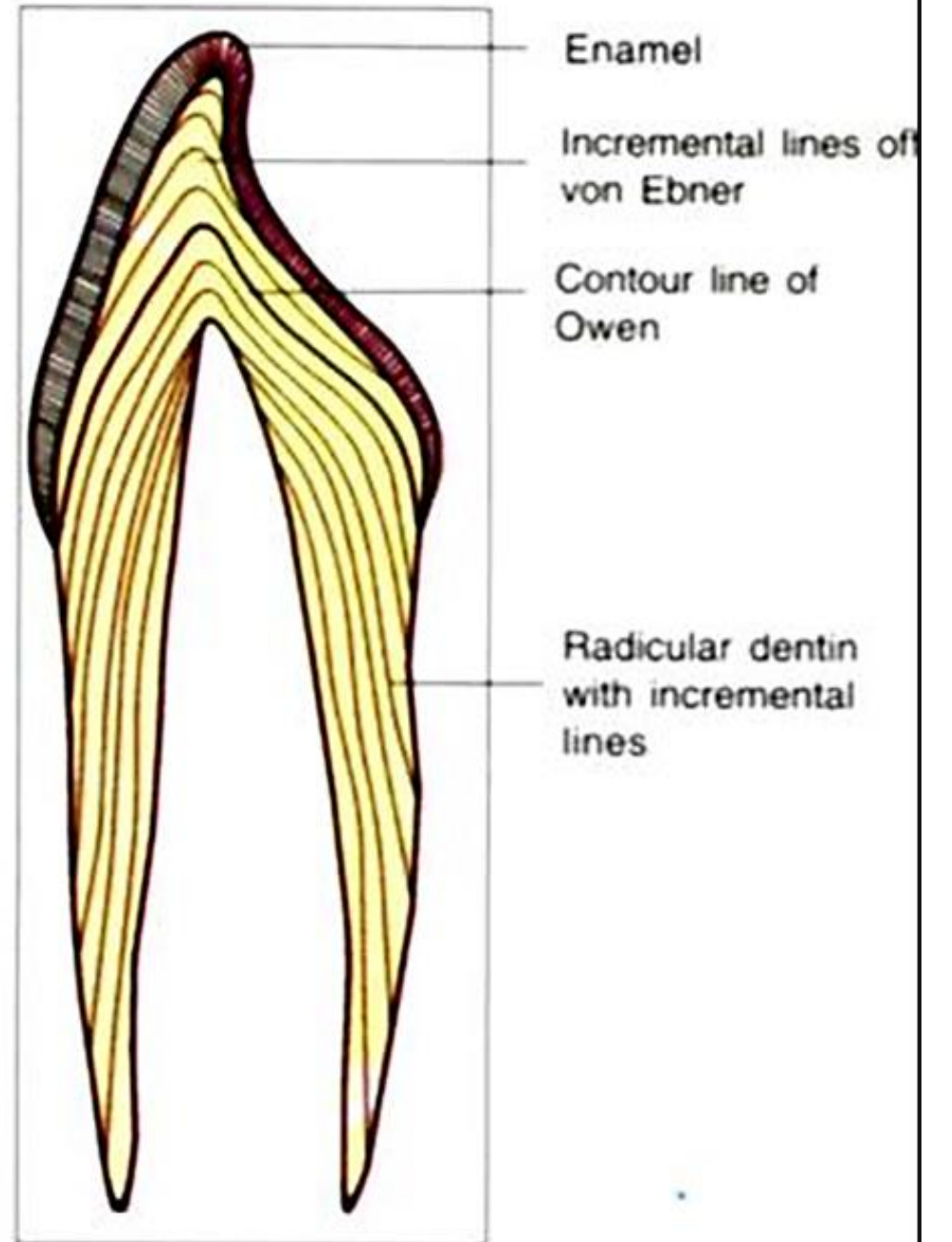
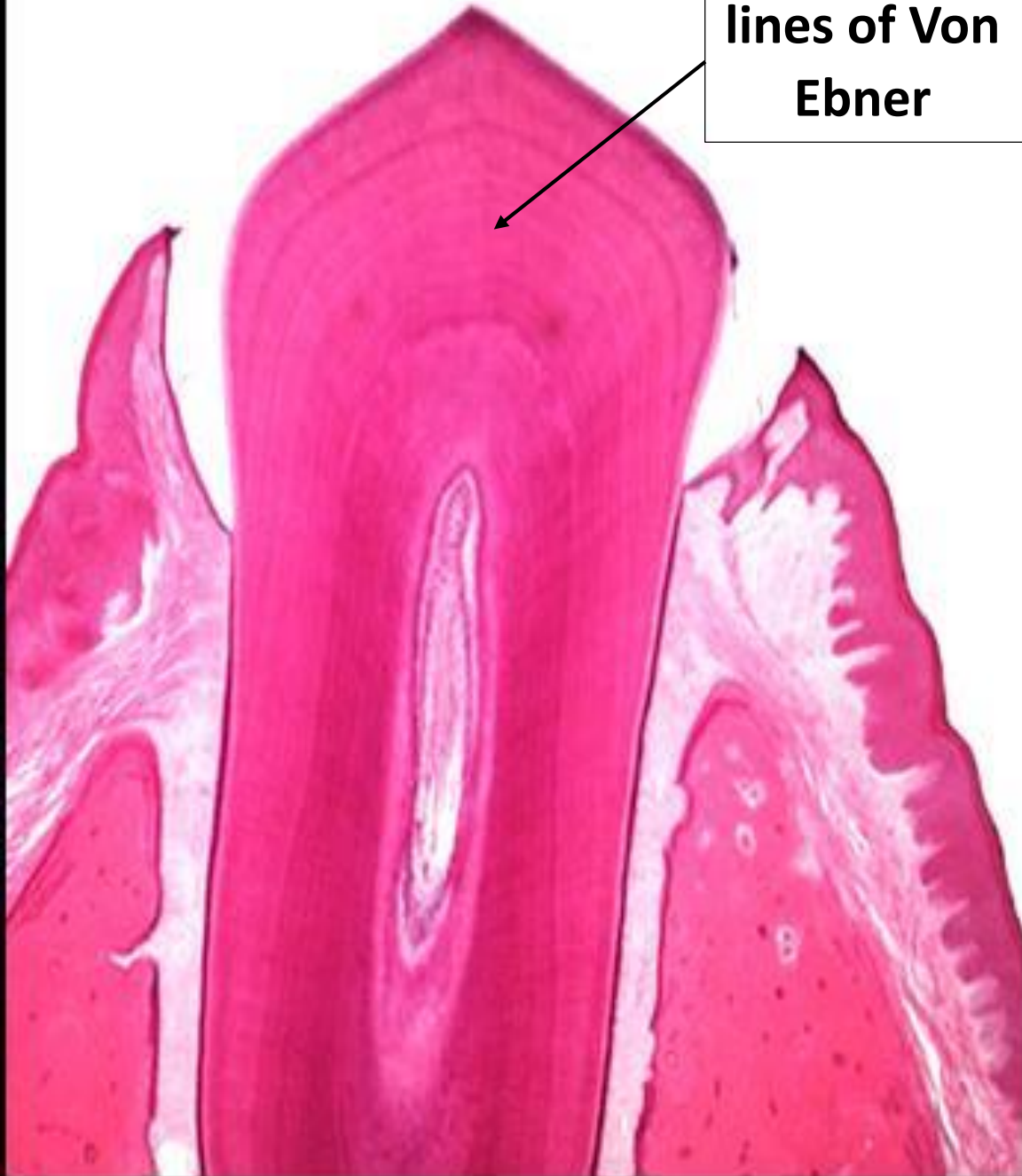
B:Mantle dentin

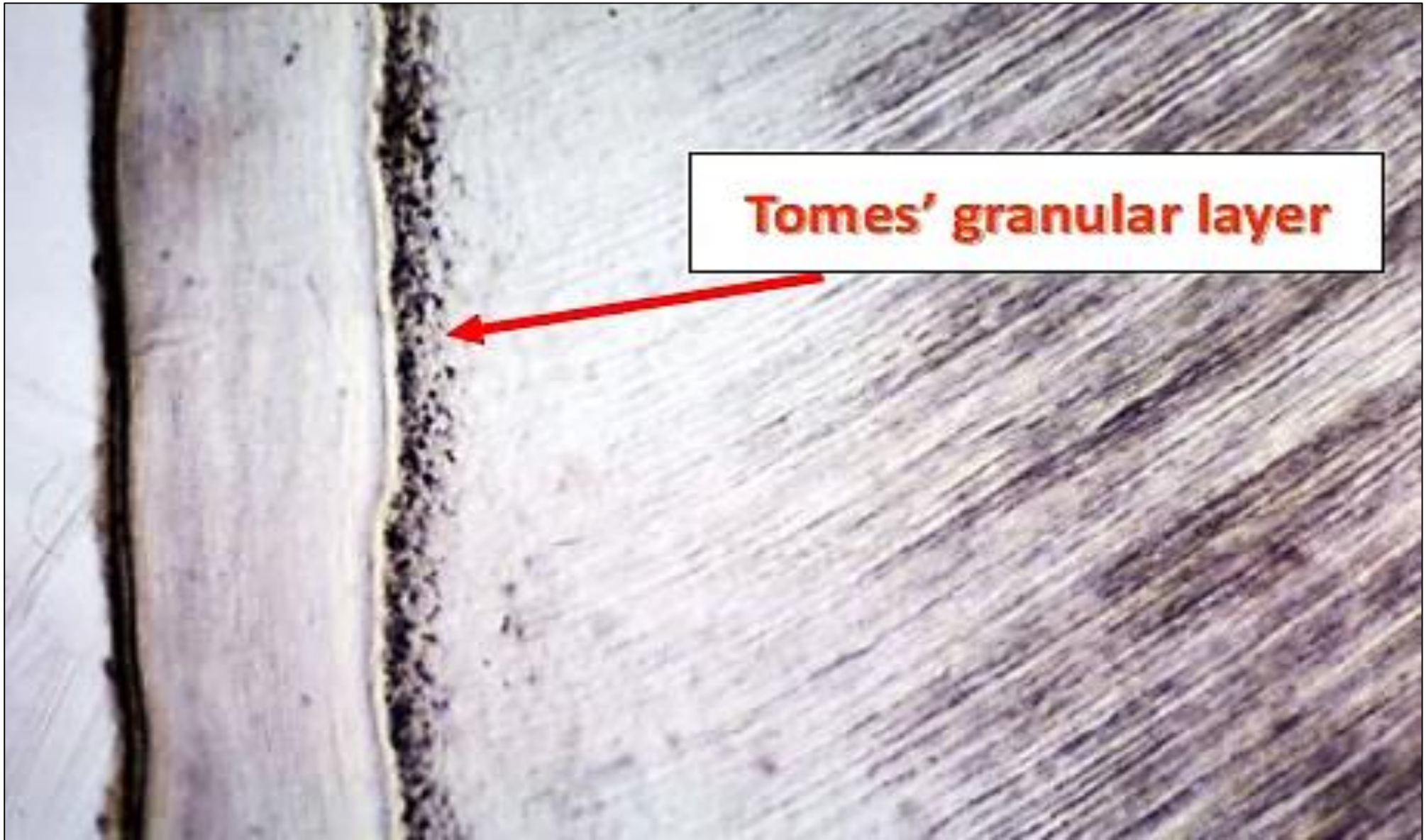
C:Circumpulpal dentin

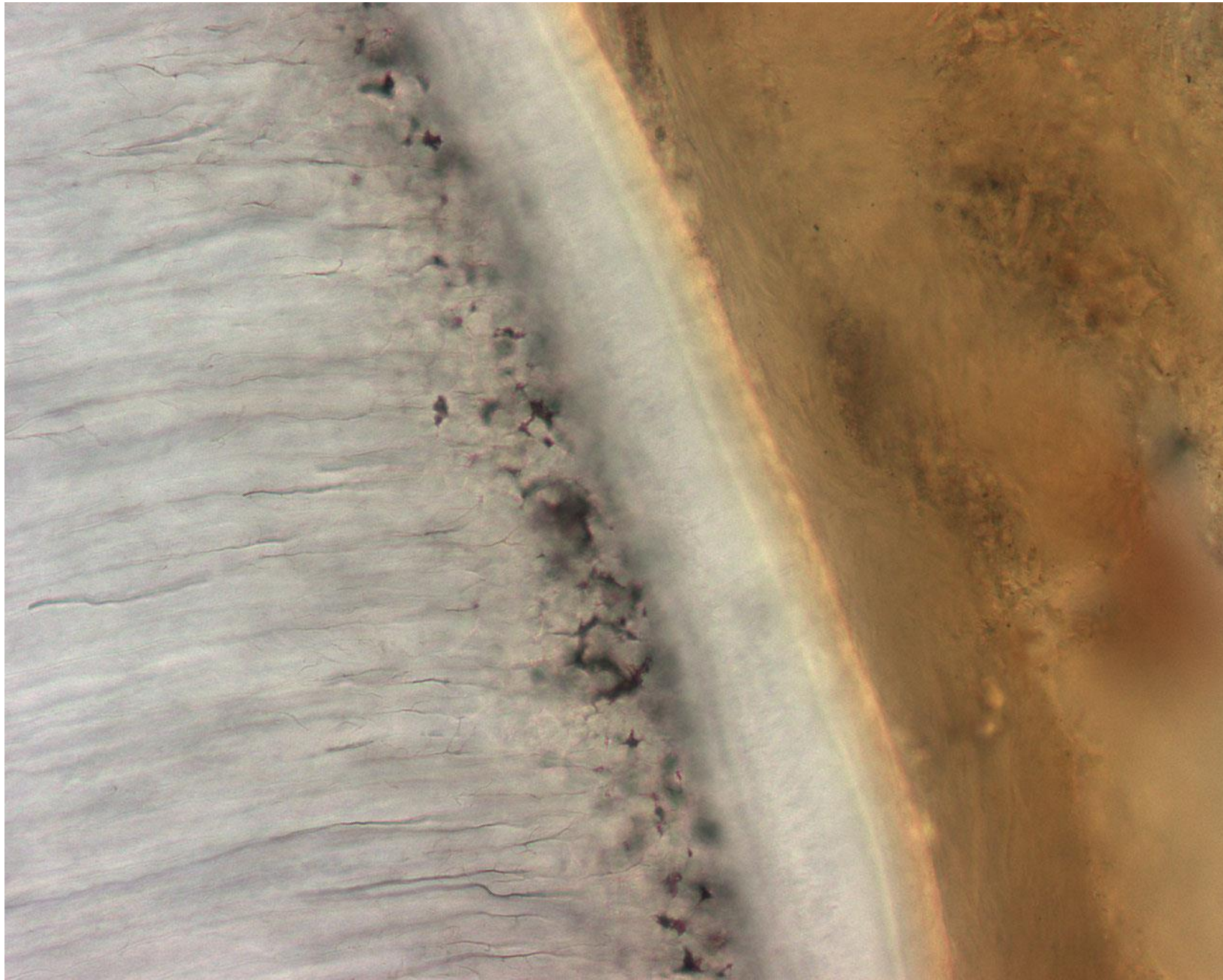
D:S-shaped curvature (1ry curvature) of DT

E: ADJ

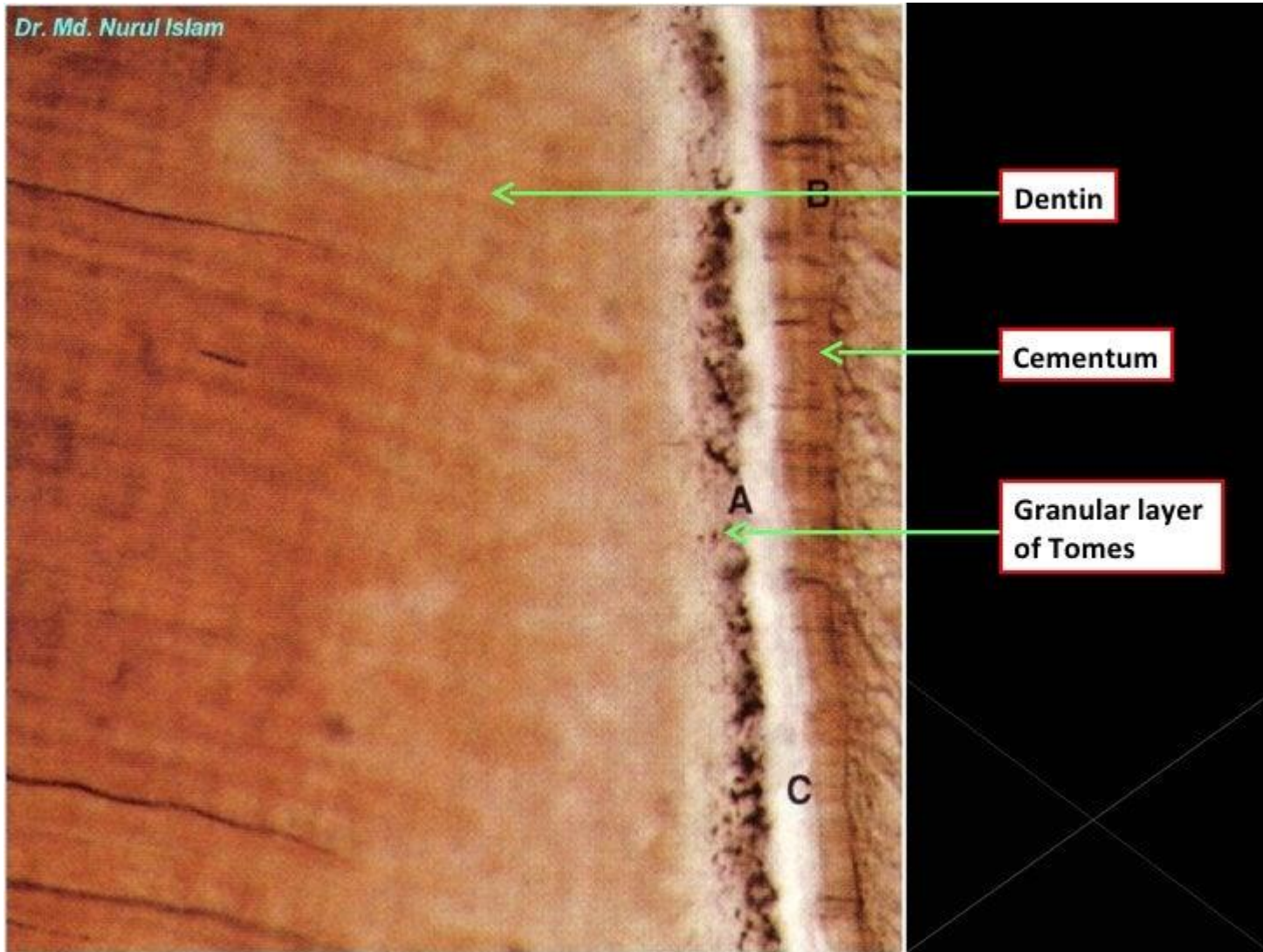
**Incremental
lines of Von
Ebner**



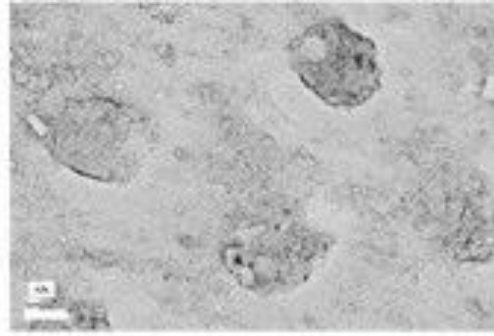
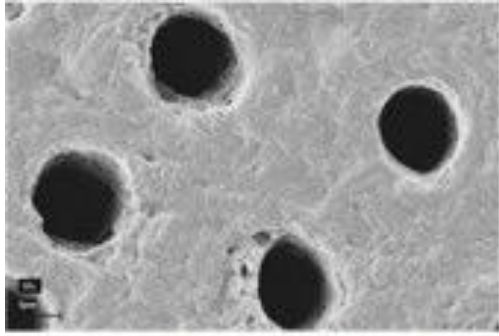




Dr. Md. Nurul Islam



Sclerotic dentin



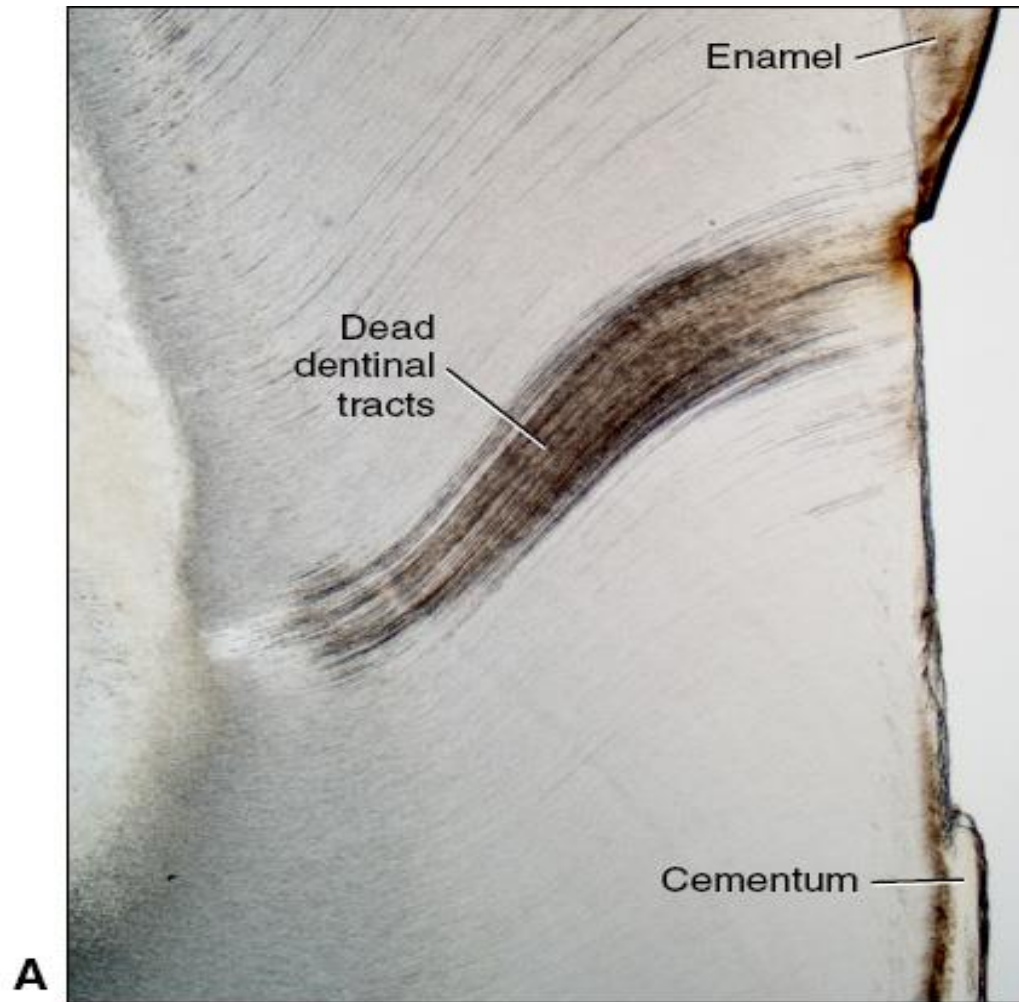
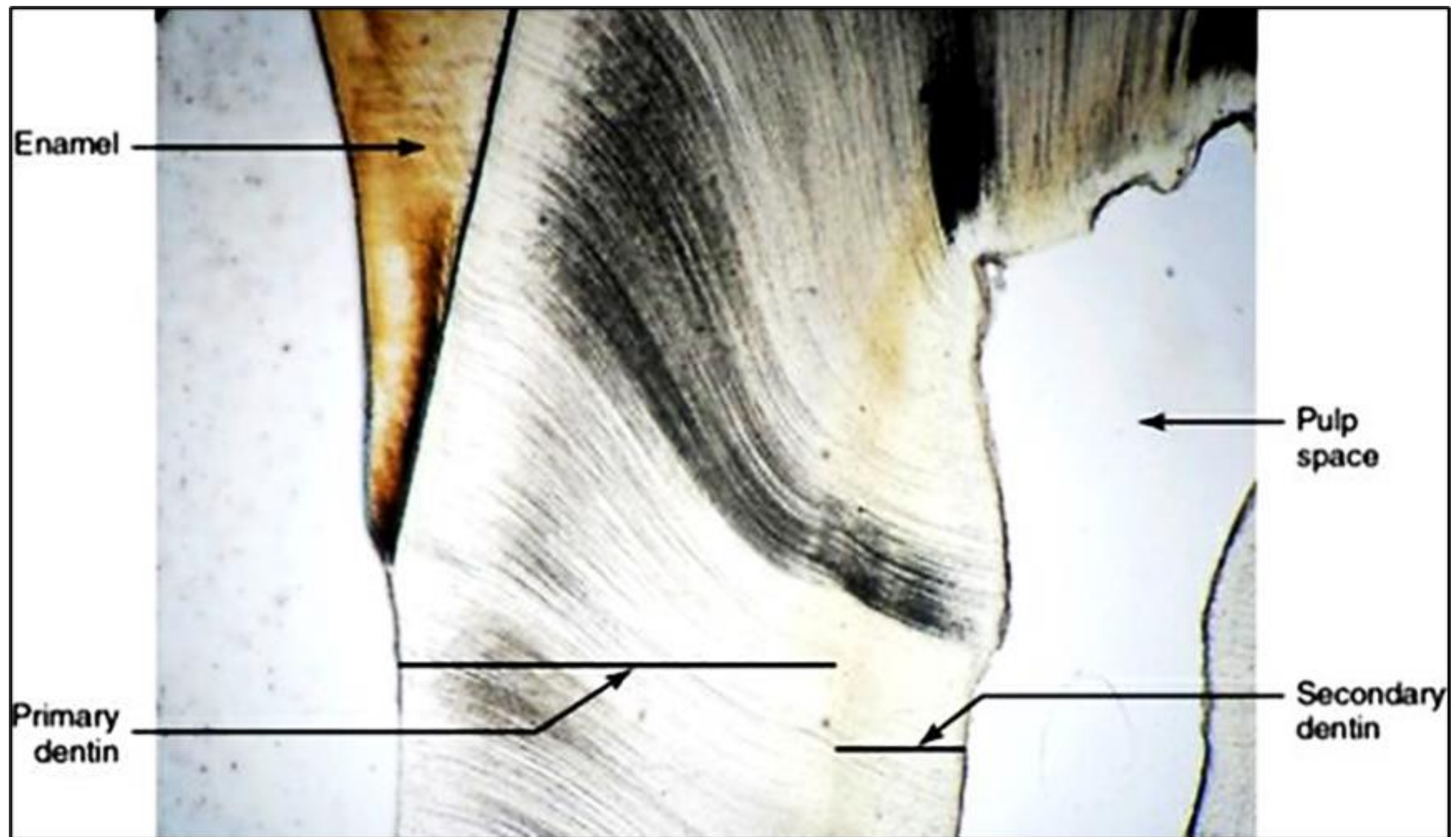
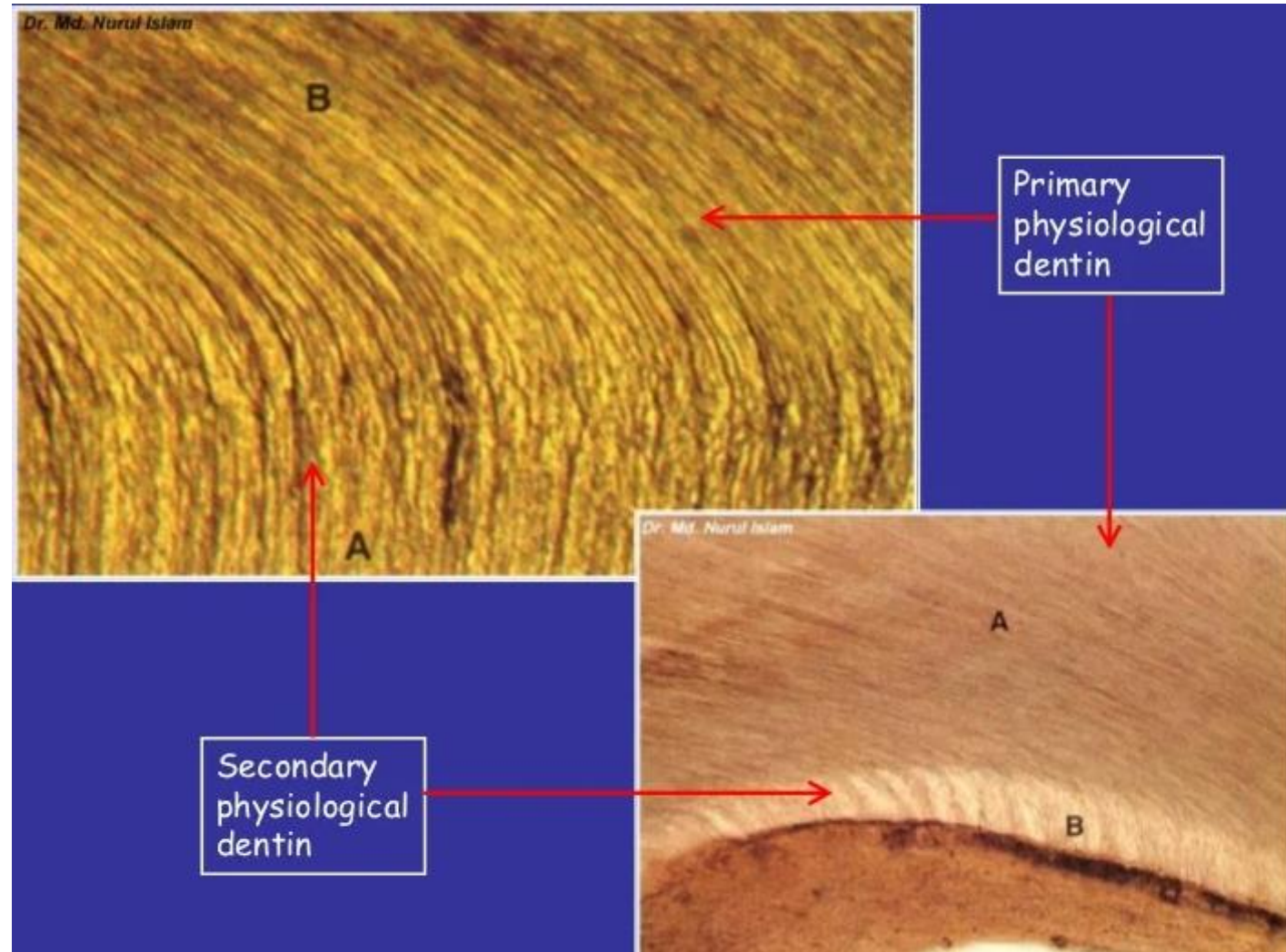
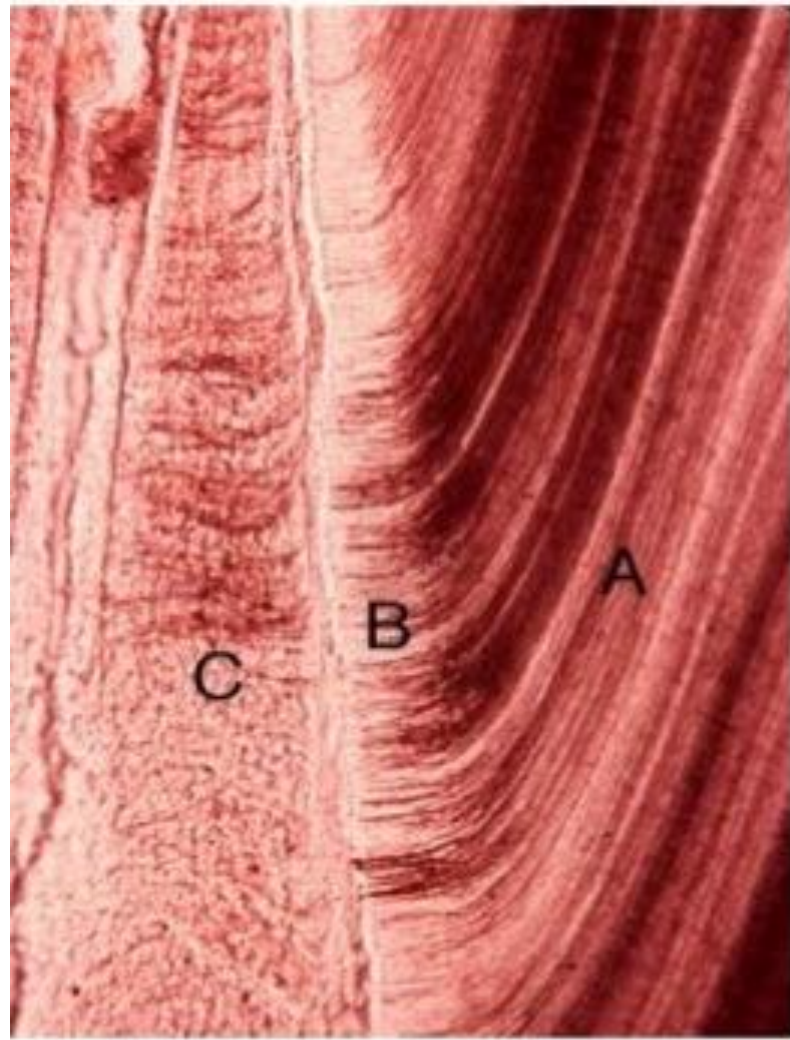


FIGURE 8-30A A, Light micrograph showing dead tracts on the radicular carious lesion which appear dark under transmitted light. **B**, Scanning electron micrograph showing empty tubules under a carious lesion.

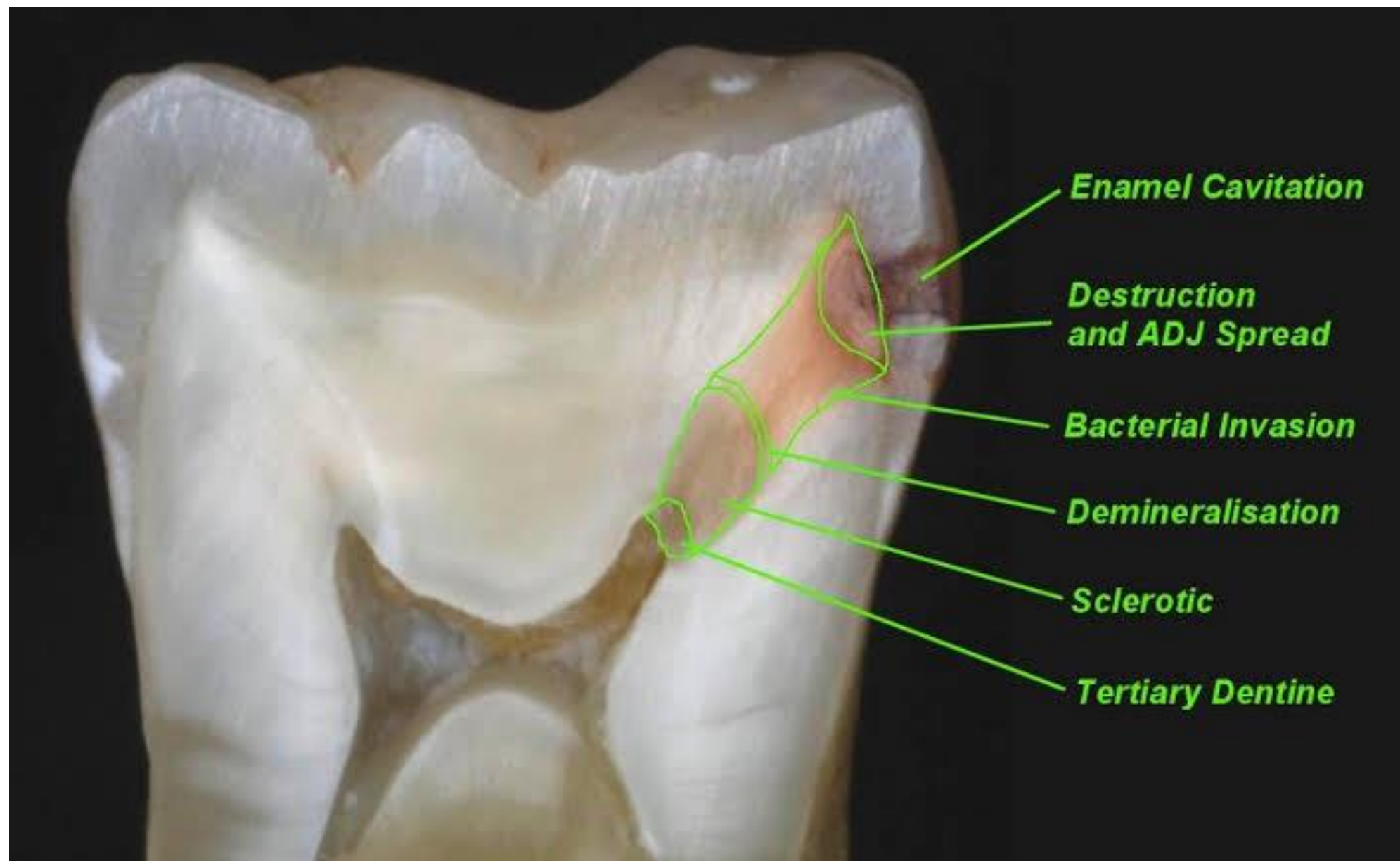


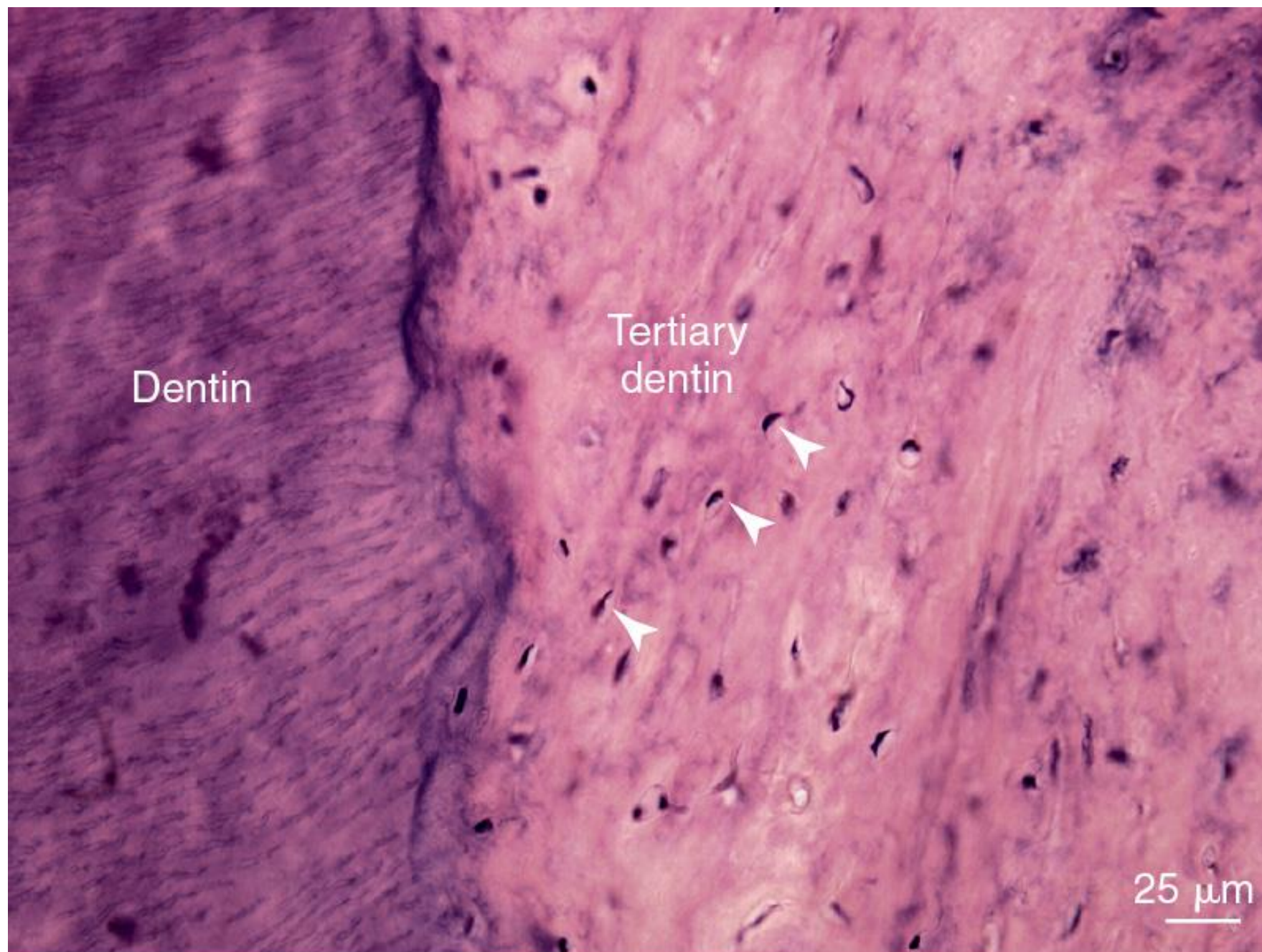
1ry, 2ry, 3ry Dentin





A, Primary dentin;
B, Secondary (regular) dentin;
C, Reactive dentin





Osteodentin (entrapped cells).

**Atubular dentin (area
without dentinal tubules)**

**Vasodentin
(entrapped b.v.)**

