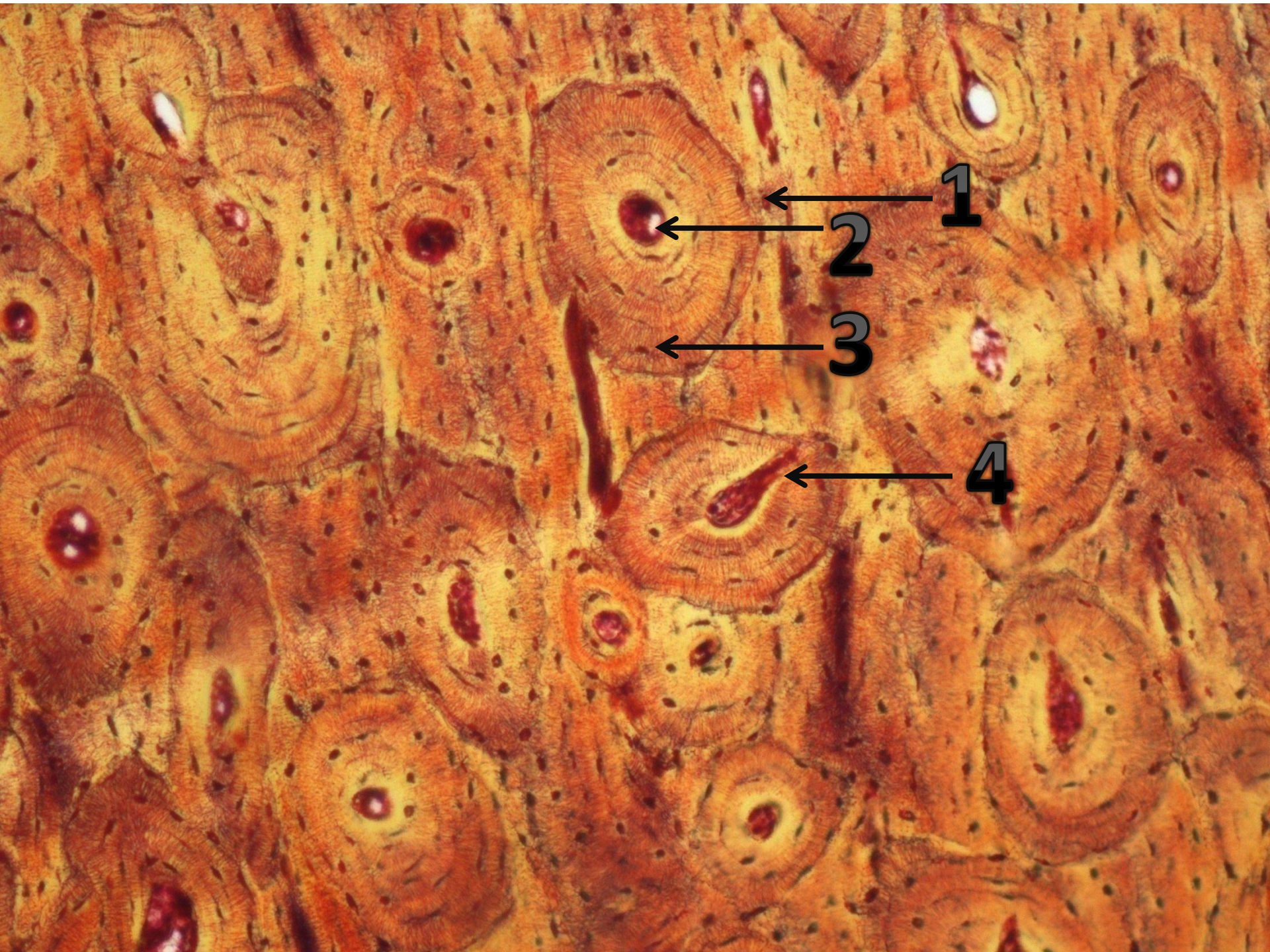


Histology Practical notes on Bone Histology

Musculoskeleton Block

Done by: Histology Team

*These notes are approved by Dr. Raesa



1

2

3

4

Identify: Compact Bone

1-Haversian Systems (Osteons)

2-Haversian canal

3-Osteocytes

4-Volkman's canal

Functions:

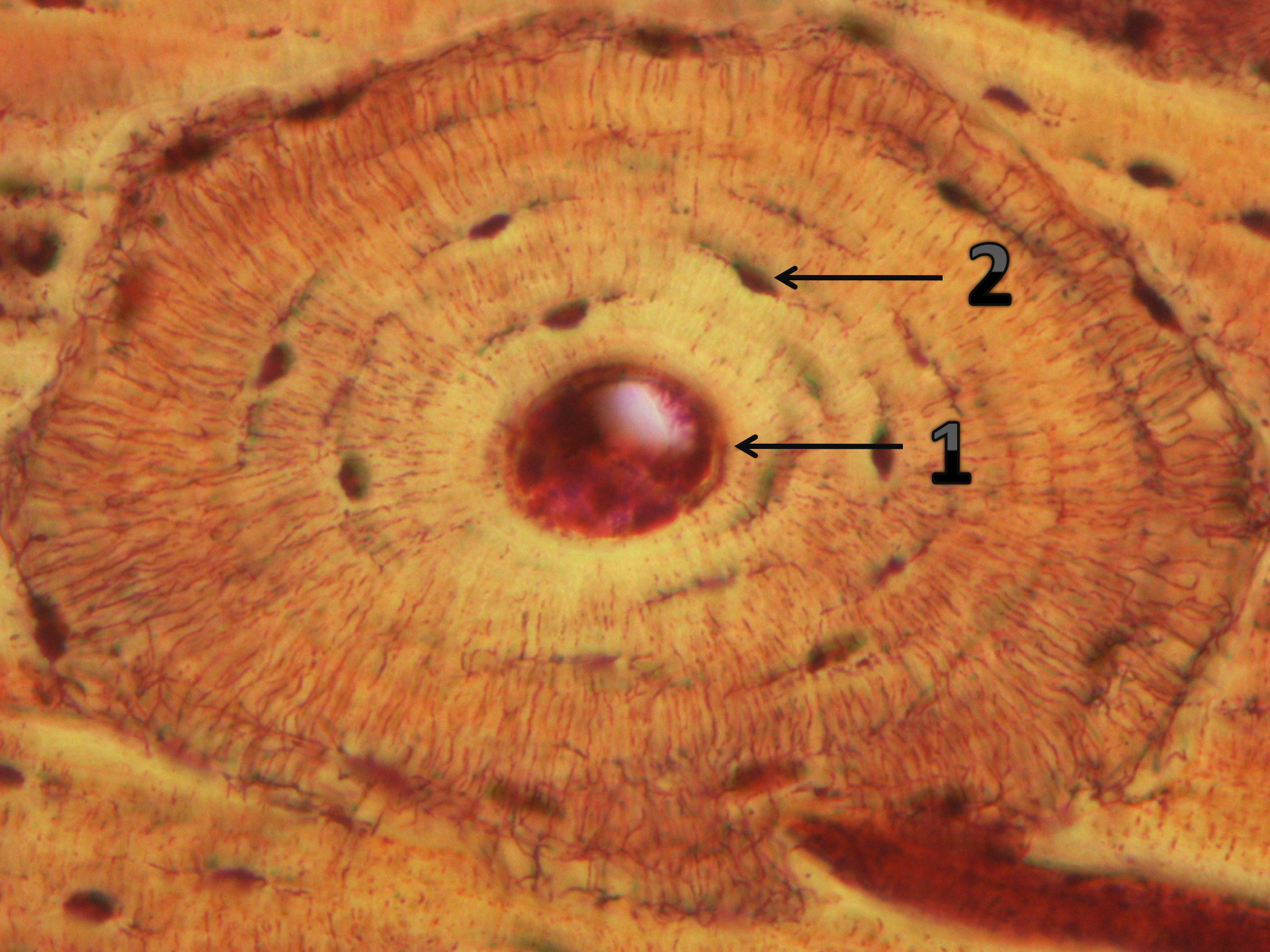
body support.

protection of vital organs as brain & bone marrow.

calcium store.

Sites:

diaphysis of long bones.



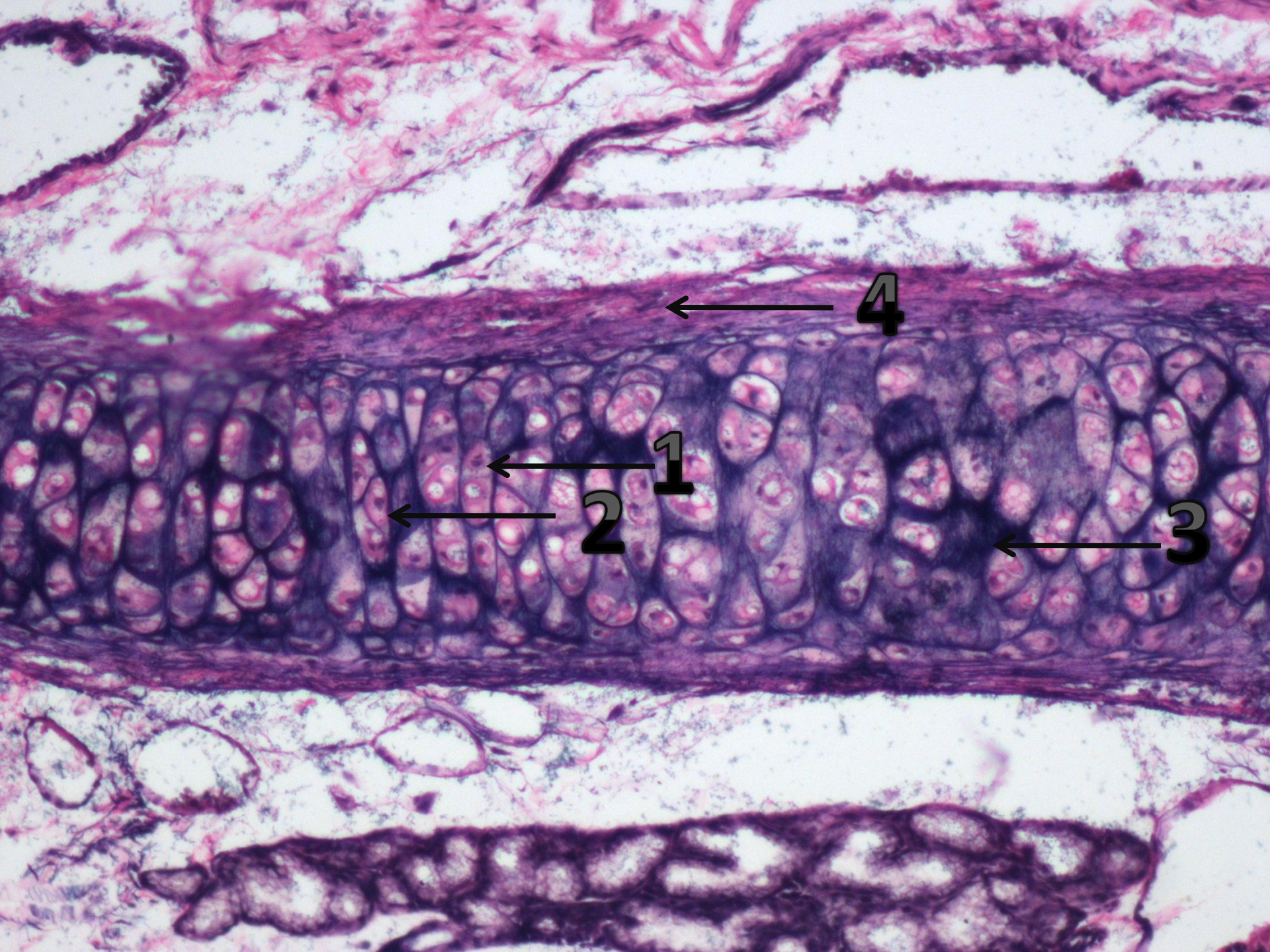
2

1

Identify: Haversian Systems (Osteons) in Compact Bone

1-Haversian canal

2-Osteocytes



Identify: Elastic Cartilage

1- chondrocyte

2- lacunae

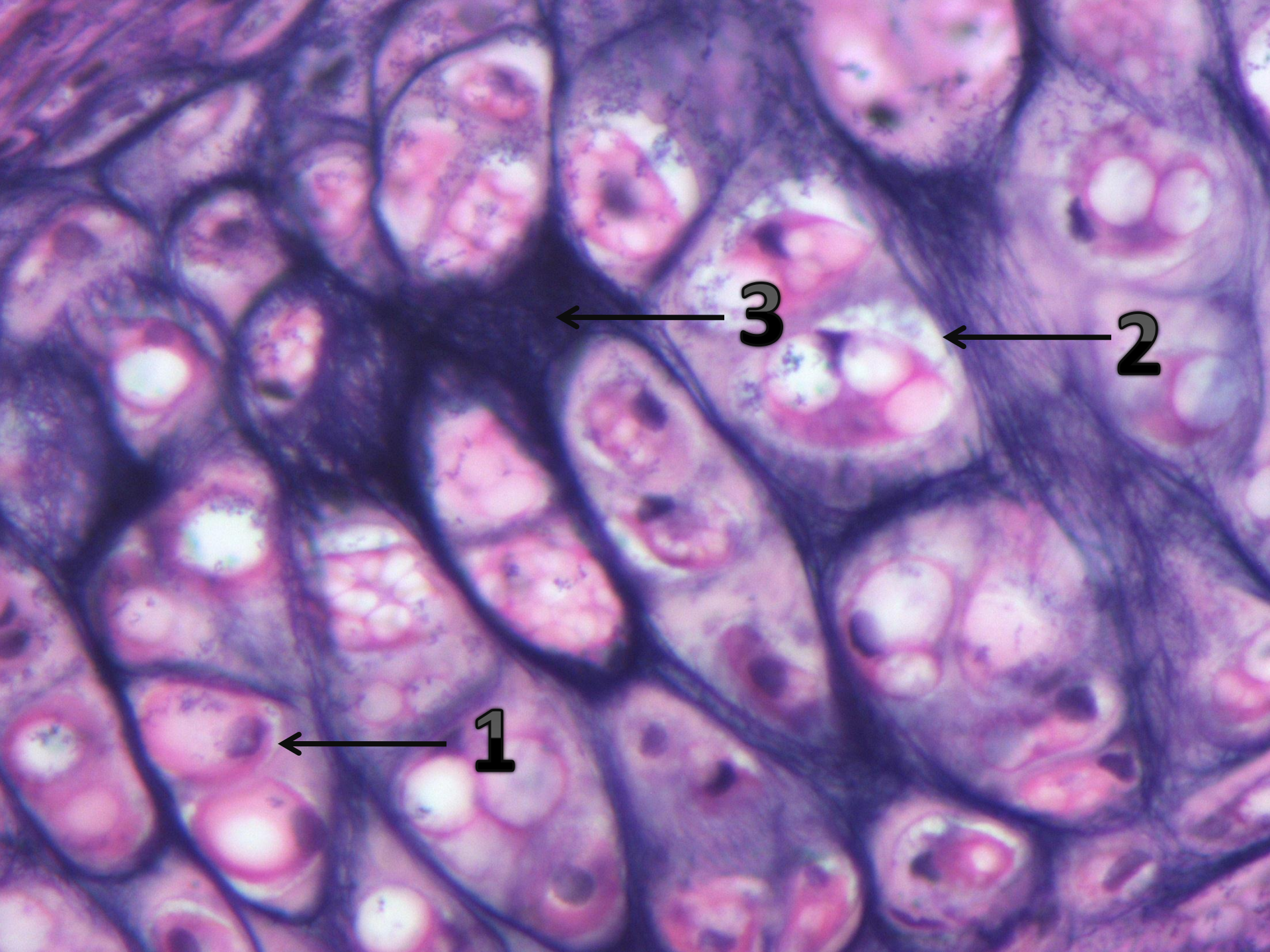
3-Elastic fibers in the matrix

4- perichondrium

Sites:

External ear.

Epiglottis.

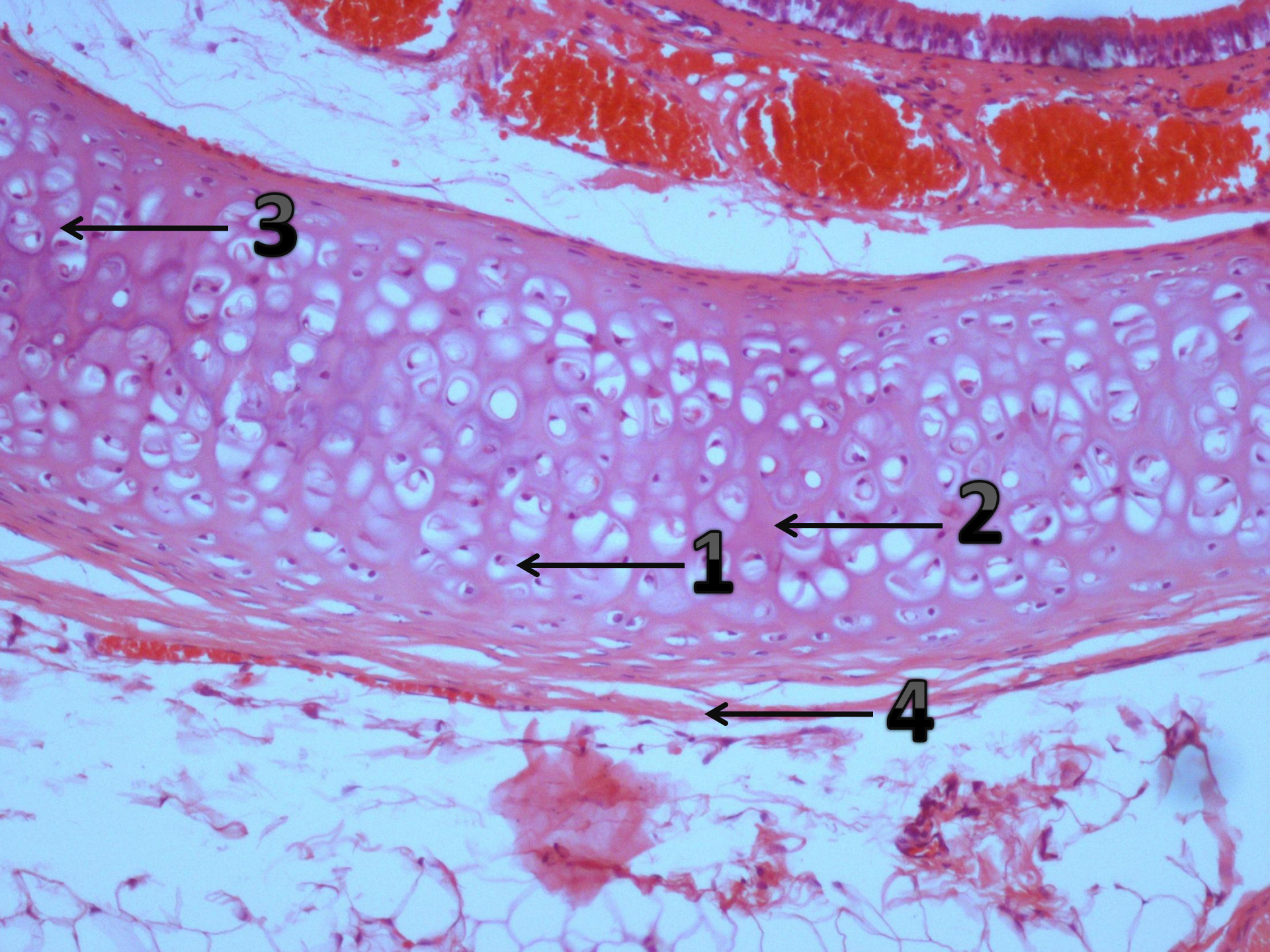


Identify: Elastic Cartilage

1- chondrocyte

2- lacunae

3- Elastic fibers in the matrix



Identify: Hyaline Cartilage

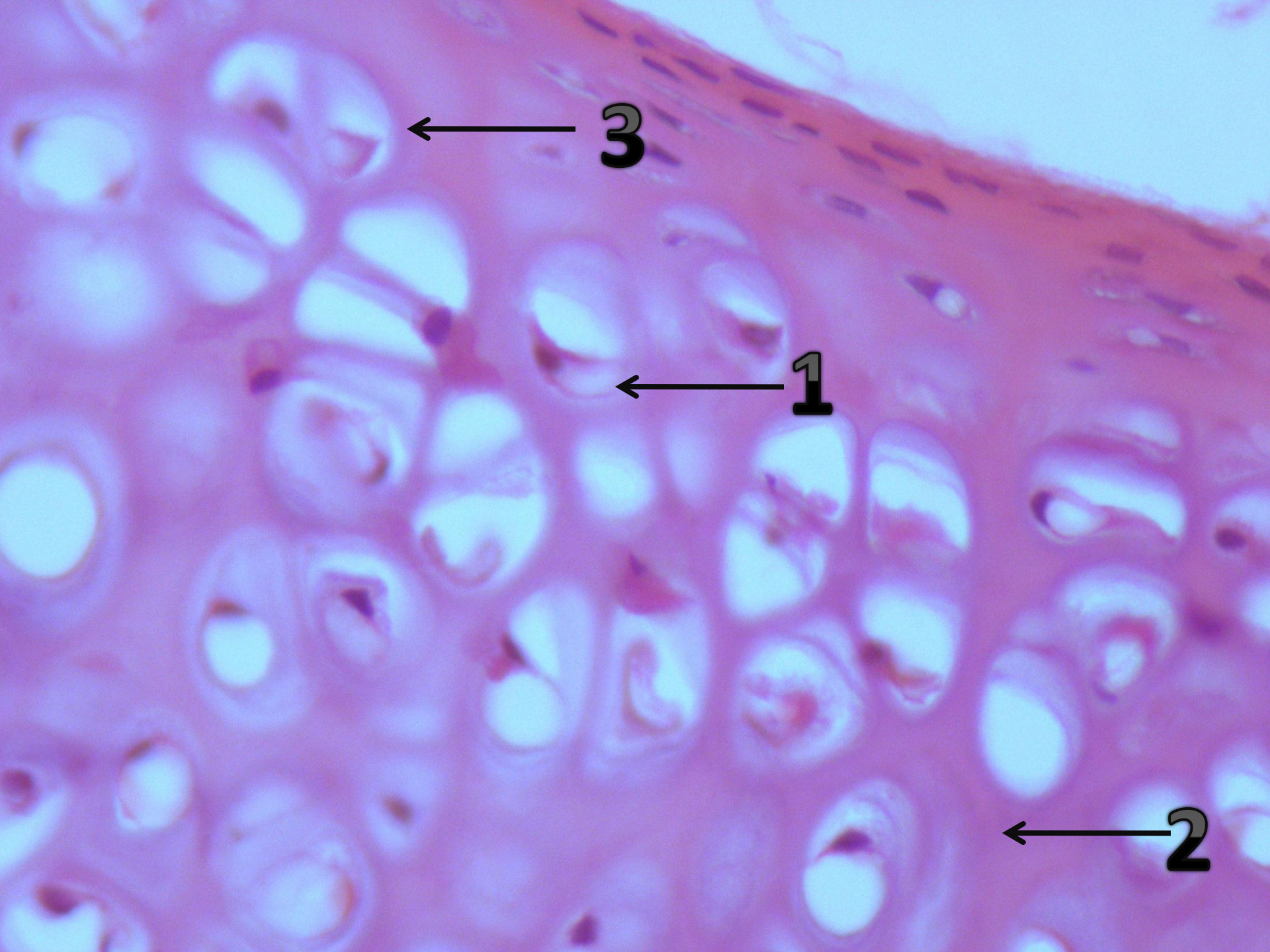
- 1-Chondrocyte Inside lacunae
- 2- matrix Homogeneous and basophilic
- 3- Capsule
- 4- perichondrium

Functions of hyaline cartilage:

Forms the skeleton of the foetus.
Protection of bony surfaces, at joints.
Keeps the respiratory tract open.

Sites of hyaline cartilage:

Foetal skeleton.
Costal cartilages.
Articular surfaces of bones.
Nose, trachea & bronchi



← 3

← 1

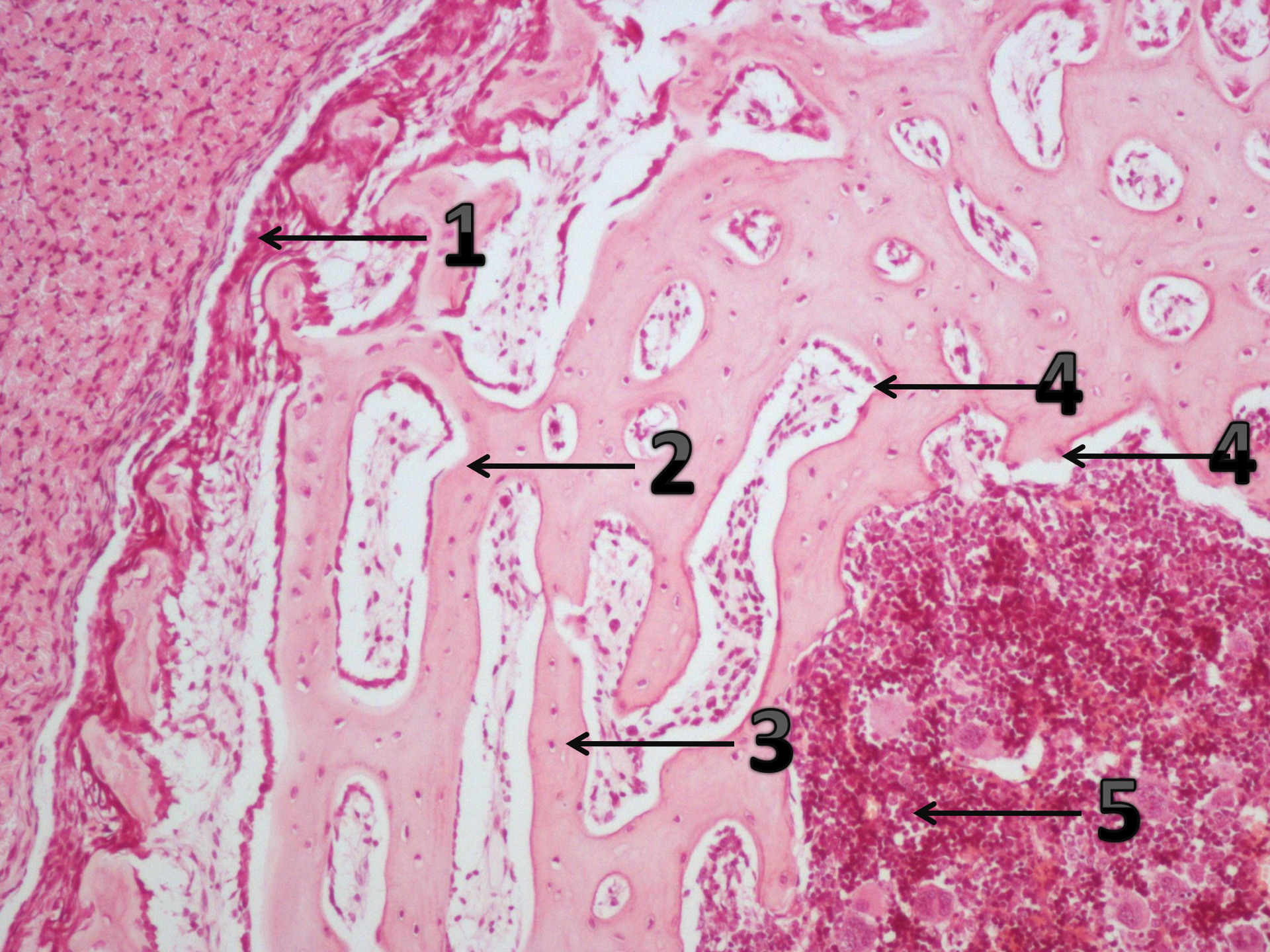
← 2

Identify: Hyaline Cartilage

1-Chondrocyte Inside lacunae

2-Homogeneous and basophilic matrix

3-Capsule



Identify: Spongy Bone

1-Periosteum

2-Bone marrow space (Contain newly formed blood cells)

3-osteocytes inside lacunae

4-Endosteum

5-Central bone marrow cavity (rich in blood cells)

Sites:

In epiphysis of long bones & flat bones as in ribs



Identify: Spongy Bone

- 1-Bone marrow inside bone marrow space
- 2-Bone marrow space (Contain newly formed blood cells)
- 3- osteocytes inside lacunae
- 4- endosteum

approved by Dr. Raesa

good luck all