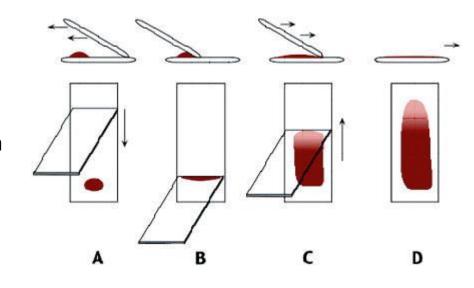
# Blood Tissue and Bone Marrow

## Practise for Histology

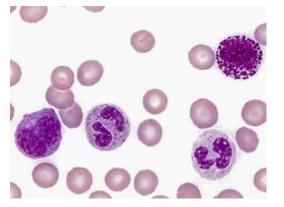
Acc. Prof. Dr. Sinan OZKAVUKCU

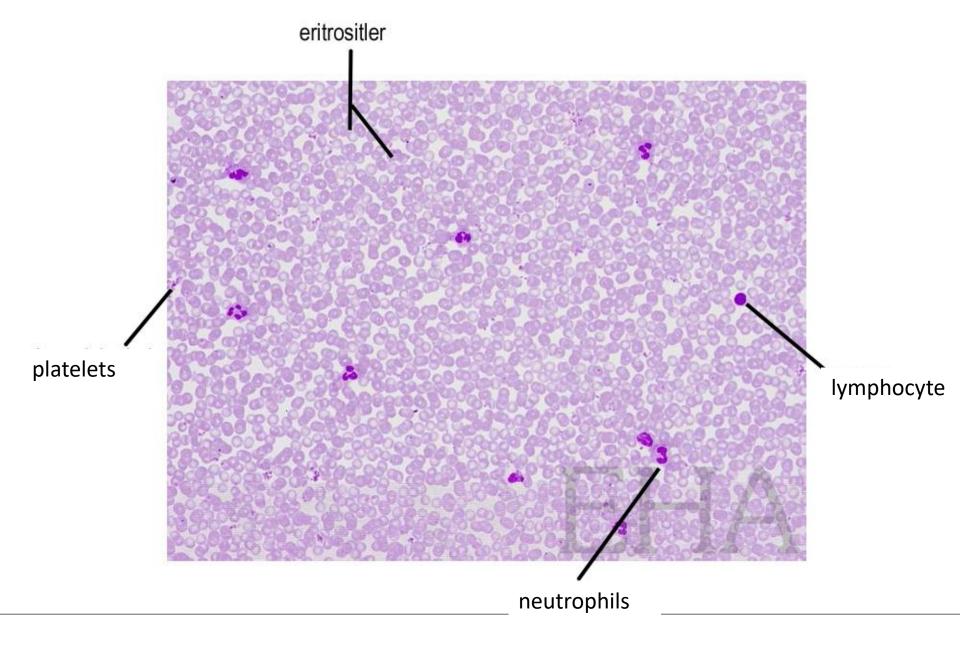
#### Blood smear

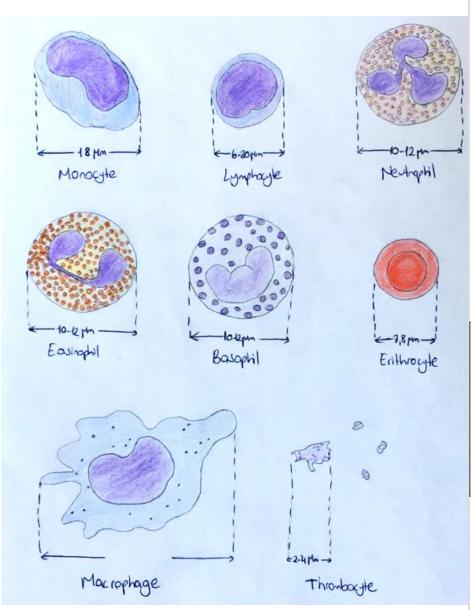
- The easiest method used in the examination of blood cells
- A drop of blood is placed directly on a glass slide and spread over its surface with the edge of another slide.
- After air drying, it is stained with modified Romanovsky type staining mixtures (Wright or Giemsa).
- Methylene blue (basic dye)
- Azure (basic dye)
- Eosin (acidic dye)



The granules of leukocytes can be distinguished as they have different staining properties (nuclei and basophil granules receive basic dyes)





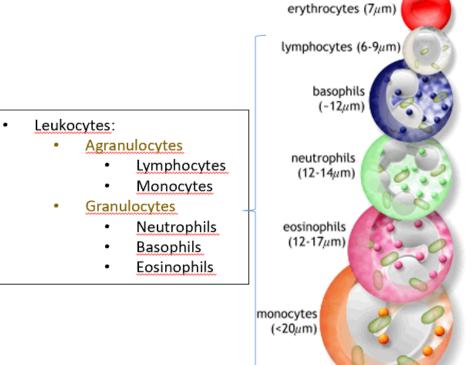


#### **CELLS**

- Erythrocytes → Red Blood Cells (RBC)
- Leukocytes → White Blood Cells (WBC)

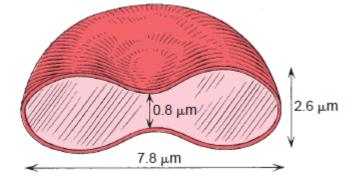
platelets (2-3µm)

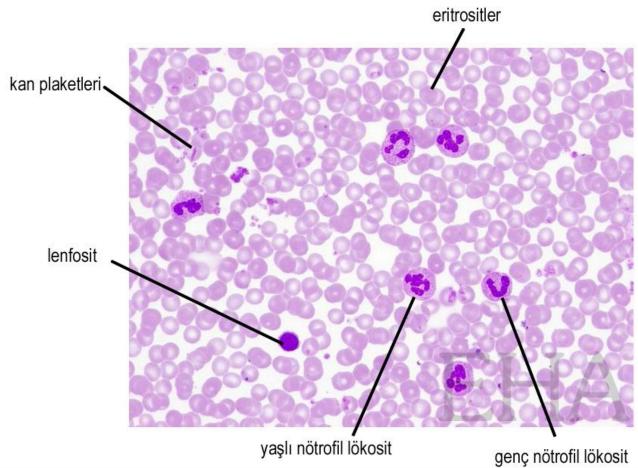
Thrombocytes → Platelets

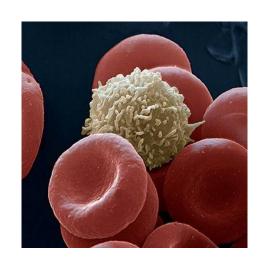


Nida YÜNLÜ

## Erythrocytes





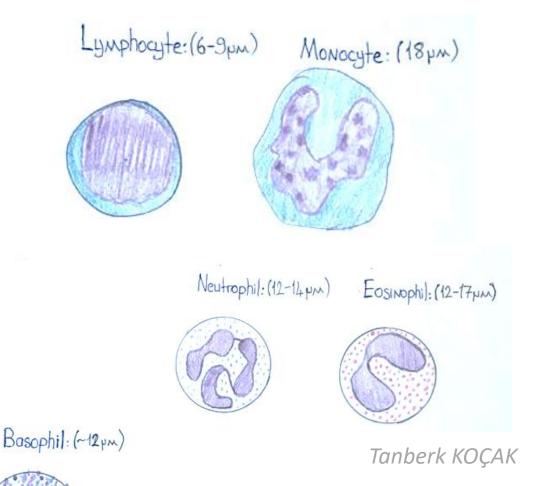


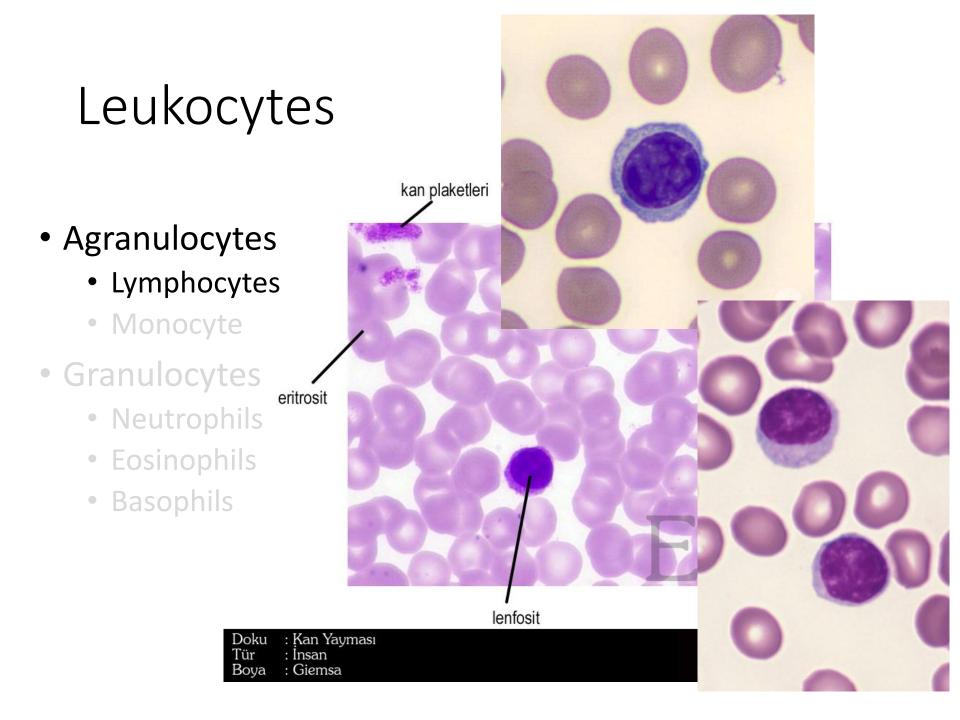
Doku : Kan Yayması

Tür : İnsan Boya : Giemsa

## Leukocytes

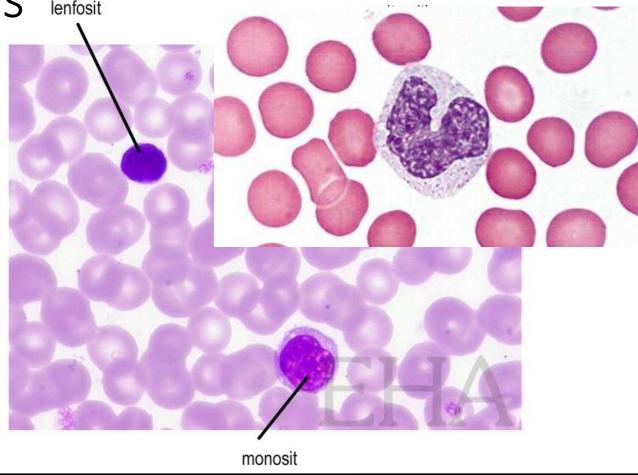
- Agranulocytes
  - Lymphocytes
  - Monocyte
- Granulocytes
  - Neutrophils
  - Eosinophils
  - Basophils





Leukocytes

- Agranulocytes
  - Lymphocytes
  - Monocyte
- Granulocytes
  - Neutrophils
  - Eosinophils
  - Basophils

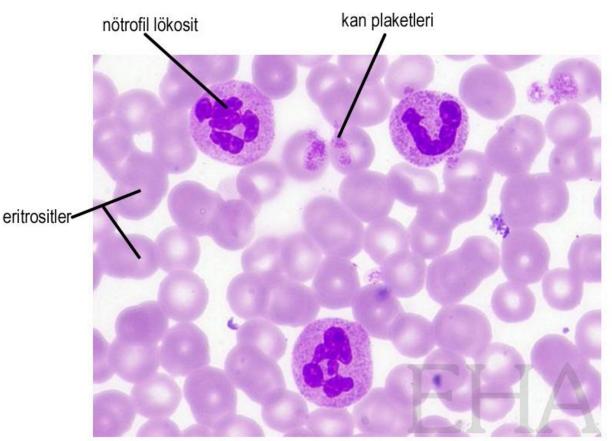


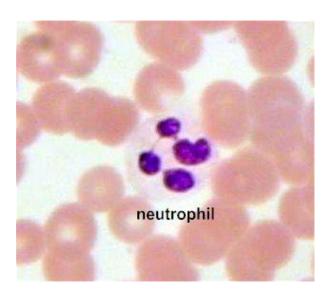
Doku : Kan Yayması

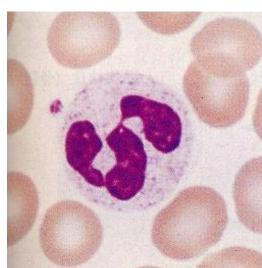
Tür : İnsan Boya : Giemsa ELEKTRONİK HİSTOLOJİ ATLASI v.2.0 (2006) S. Karahüseyinoğlu, S. Özkavukcu, M. Korkmaz ve A. Can Ankara Üniversitesi Tıp Fakültesi Histoloji-Embriyoloji ABD Ankara Üniversitesi Biyoteknoloji Enstitüsü

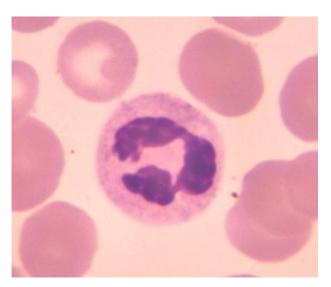
### Lökositler

- Agranulocytes
  - Lymphocytes
  - Monocyte
- Granulocytes
  - Neutrophils
  - Eosinophils
  - Basophils

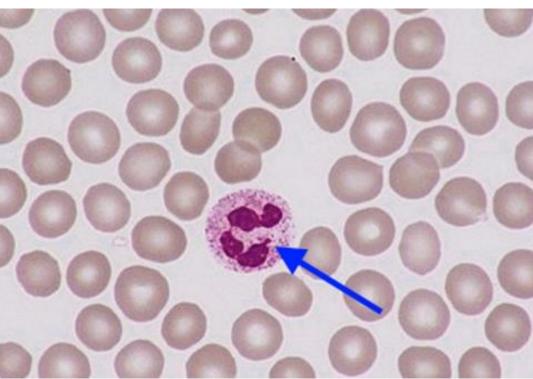












## Leukocytes

Agranulocytes

• Lymphocyeritrgsitler

Monocyte

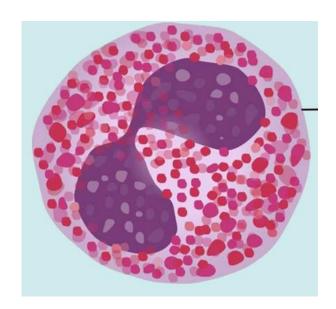
Granulocytes

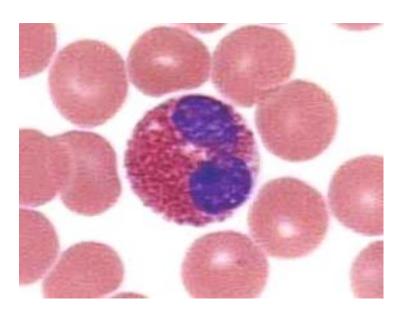
- Neutrophils
- Eosinophils
- Basophils

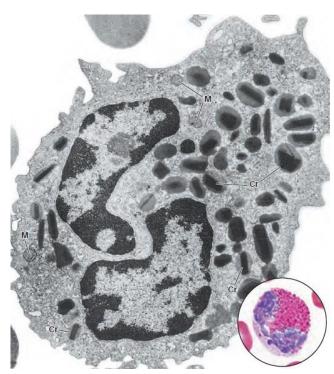


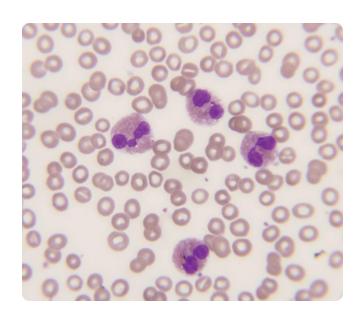
Doku : Kan Yayması

Tür : Insan Boya : Giemsa ELEKTRONİK HİSTOLOJİ ATLASI v.2.0 (2006) S. Karahüseyinoğlu, S. Özkavukcu, M. Korkmaz ve A. Can Ankara Üniversitesi Tıp Fakültesi Histoloji-Embriyoloji ABD Ankara Üniversitesi Biyoteknoloji Enstitüsü



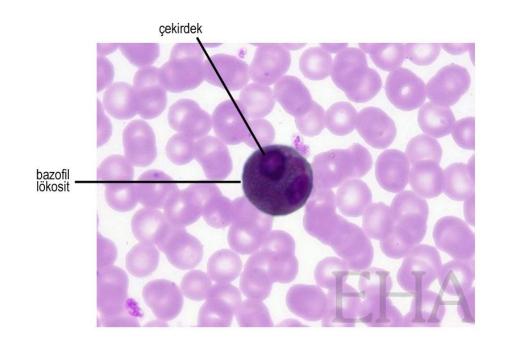






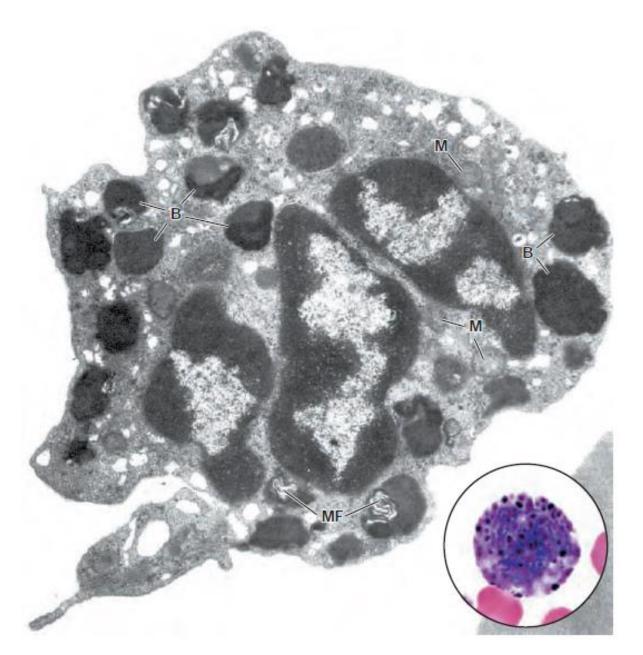
## Leukocytes

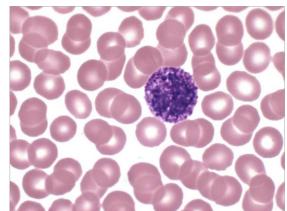
- Agranulocytes
  - Lymphocytes
  - Monocyte
- Granulocytes
  - Neutrophils
  - Eosinophils
  - Basophils

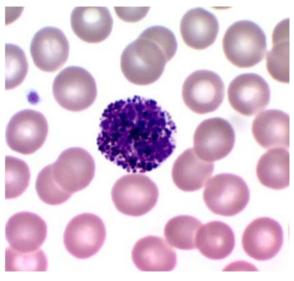


Doku : Kan Yayması Tür : İnsan Boya : Giemsa

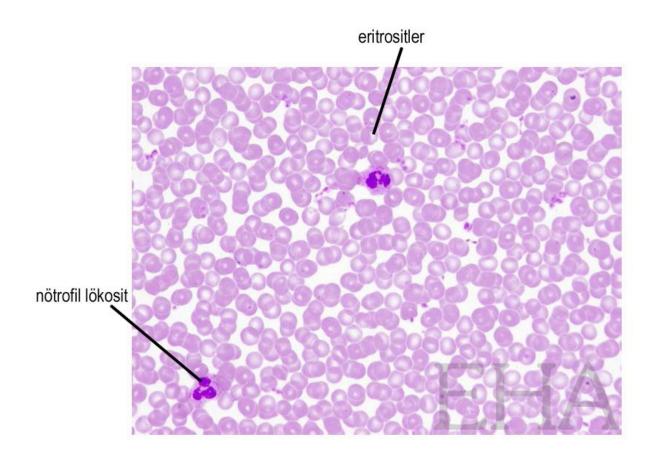
ELEKTRONÍK HÍSTOLOJÍ ATLASI v.2.0 (2006) S. Karahüseyinoğlu, S. Ozkavukcu, M. Korkmaz ve A. Can Ankara Üniversitesi Tıp Fakültesi Histoloji-Embriyoloji ABD Ankara Üniversitesi Biyoteknoloji Enetitisii





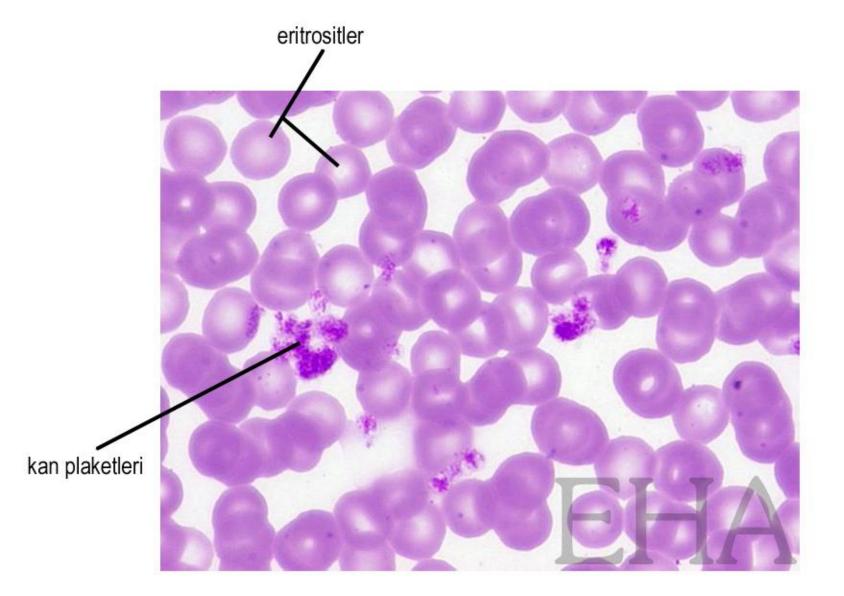


## Thrombocytes –Platelets



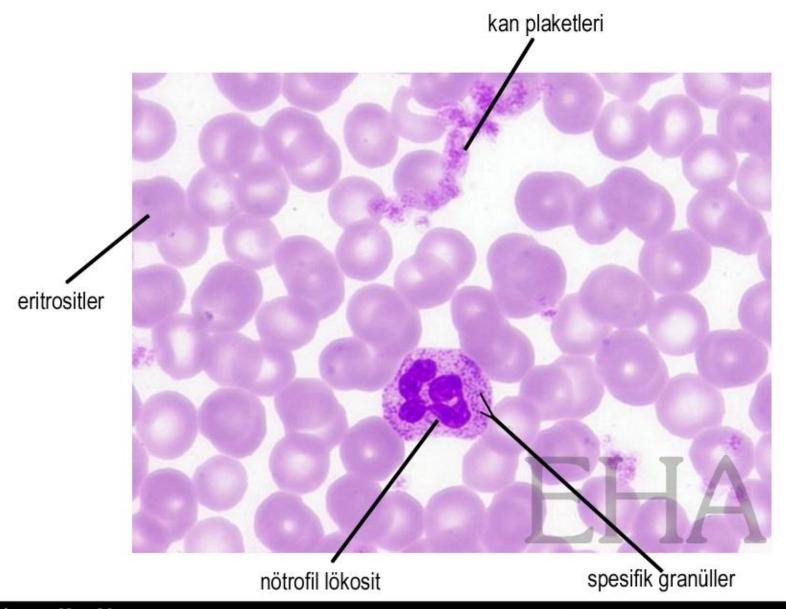
Doku : Kan Yayması

Tür : Insan Boya : Giemsa



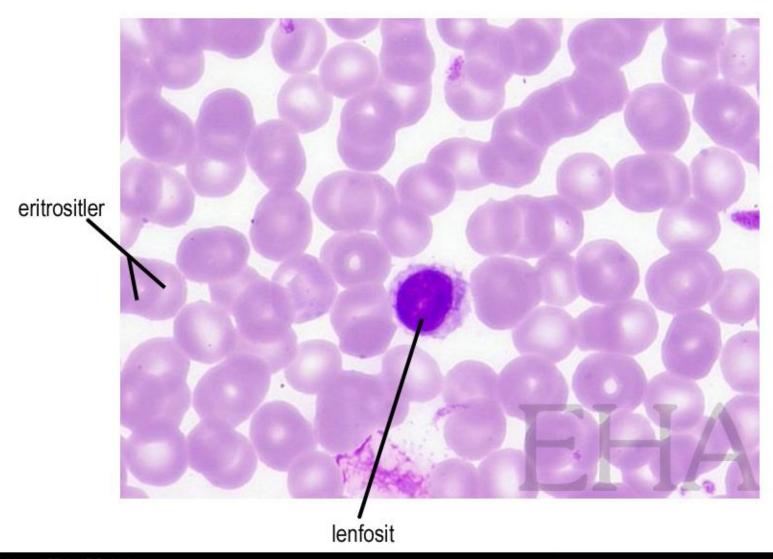
: Kan Yayması : İnsan Doku

Tür : Giemsa Boya



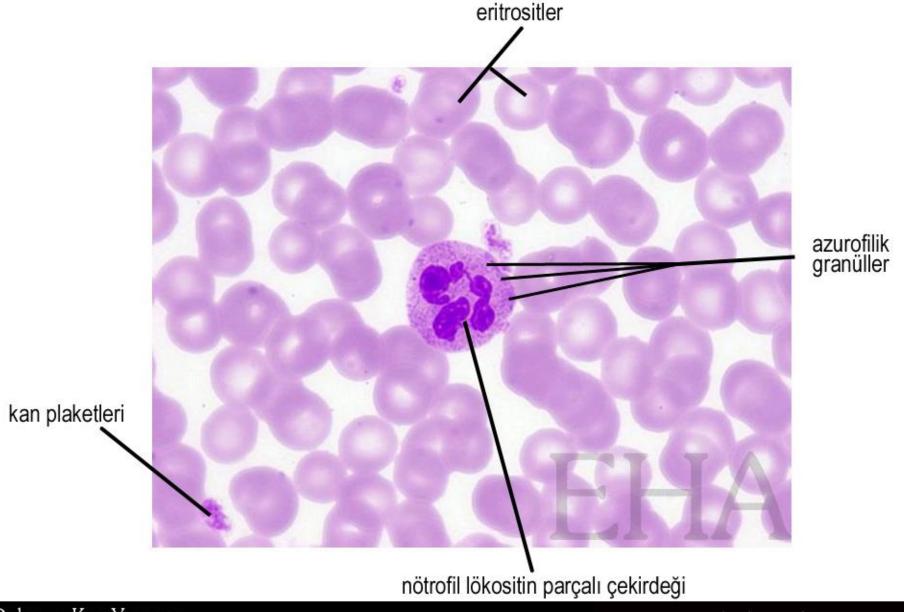
Doku Tür : Kan Yayması : İnsan

Boya : Giemsa



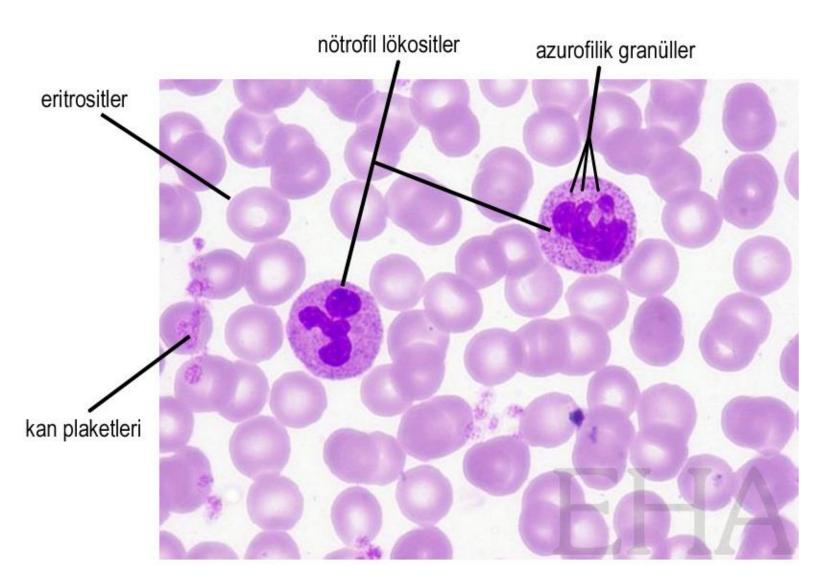
: Kan Yayması : İnsan

Doku Tür Boya : Giemsa



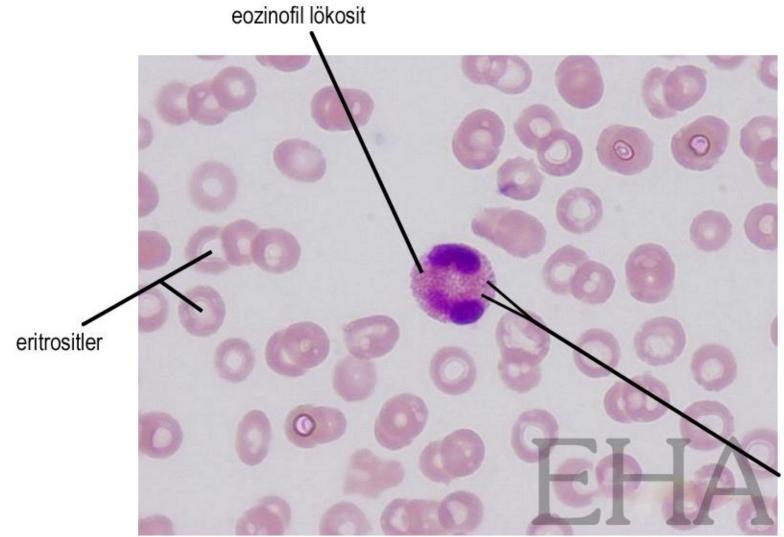
: Kan Yayması : İnsan

Doku Tür Boya : Giemsa



Doku Tür : Kan Yayması

: İnsan Boya : Giemsa



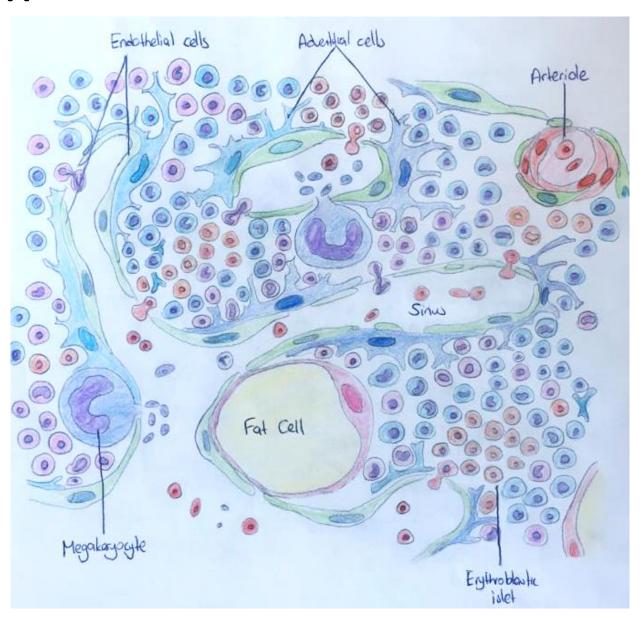
salgı granülleri

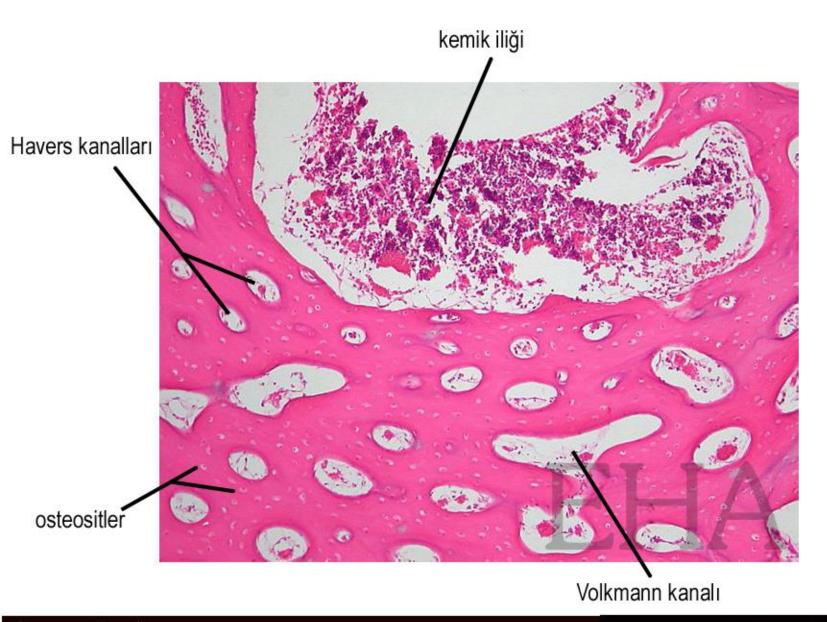
: Kan Yayması : İnsan

Doku Tür : Giemsa Boya

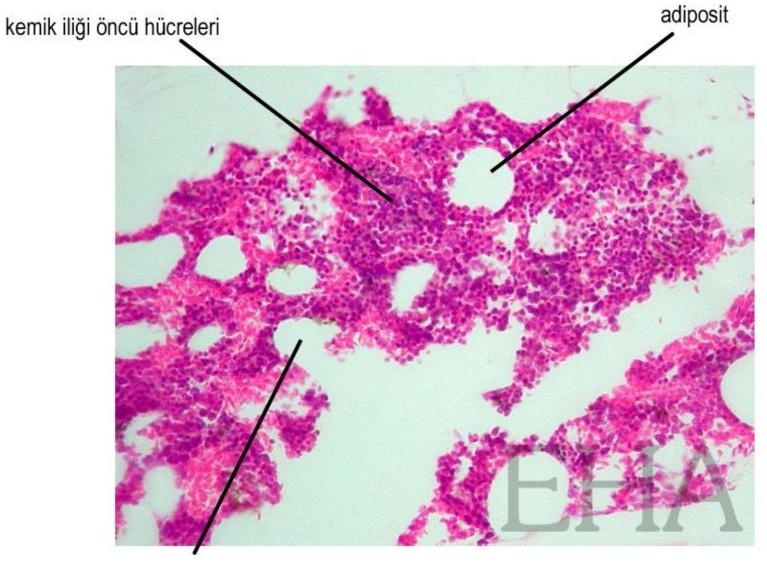
#### Bone Marrow

- Islets of blood precursors
- Sinusoids
- Endothelial cells
- Adventitial cells
- Adipocytes





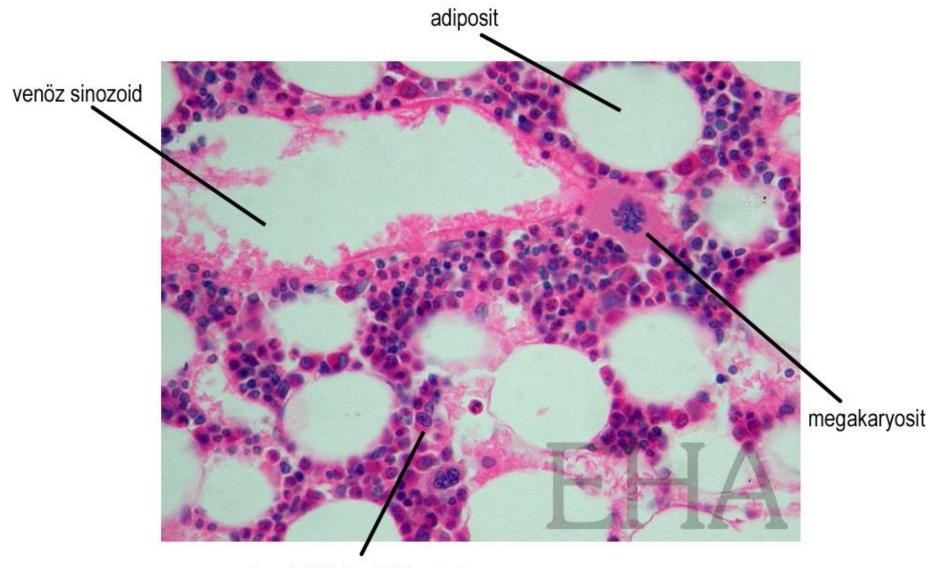
Organ : Kemik Tür : Memeli Boya : HE



venöz sinozoid

Doku : Kemik iliği Tür : İnsan

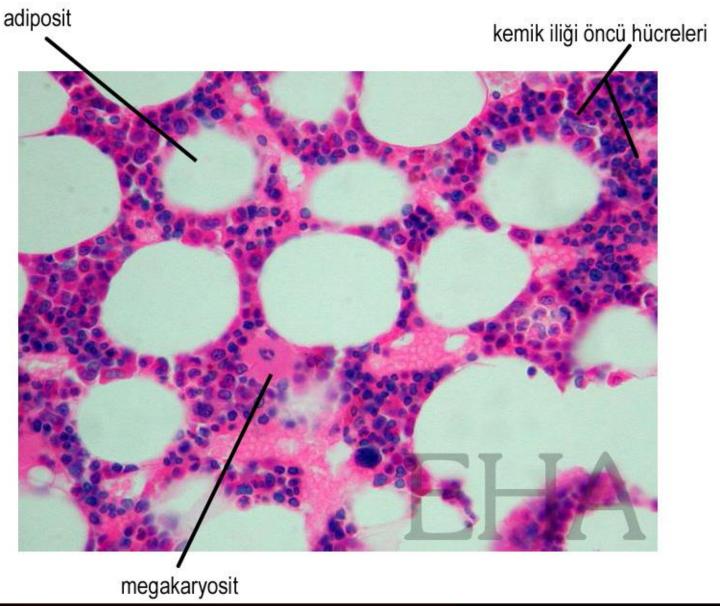
Tür : Insar Boya : HE



kemik iliği öncü hücreleri

Doku : Kemik iliği Tür : İnsan

Iur : Insa Boya : HE



: Kemik iliği : Memeli : HE Doku Tür

Boya