

# Chapter 17 Blood

## Blood Content:

plasma + formed elements

formed elements - living blood

"cells" suspended in plasma

- Erythrocytes - (RBCs) red blood cells
- Leukocytes - (WBCs) white blood cells
- Platelets - cell fragments



plasma

(Buffy coat)  
- WBCs + platelets  
- RBCs

plasma - non living fluid matrix

90% water		• nutrients
60% albumin		• hormones
36% Globulins		• wastes
4% fibrinogen		• gases
		• proteins

Sticky, opaque, metallic taste    pH = 7.35 - 7.45  
high O<sub>2</sub> - scarlet, low O<sub>2</sub> - dark red    V = 5-6L men, 4-5L women

## Blood function:

1. **Distribution** - delivering O<sub>2</sub> and nutrients to body cells; transporting metabolic wastes to lungs and kidneys for elimination; transporting hormones from endocrine organs to target organs
2. **Regulation** - maintaining body temp by absorbing and distributing heat; maintaining normal pH buffers; maintaining adequate fluid volume in circulatory system
3. **Protection** - preventing blood loss - plasma proteins and platelets → clot formation; preventing infection

## RBCs



Spectrin - provides flexibility to change shape    • 97% hemoglobin form fib function

no nucleus

biconcave disks, **anucleate**, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O<sub>2</sub>

**Hemoglobin** - protein in RBC that carries oxygen

**Globin:**      **Heme:**

- 4 polypeptide chains    • pigment bonded to globin
- 2 alpha + 2 beta chains    chain - gives blood red color

Oxyhemoglobin - ruby red - O<sub>2</sub> loading in lungs

deoxyhemoglobin - dark red - O<sub>2</sub> unloading in tissues

Carbaminohemoglobin - 20% CO<sub>2</sub> in blood binds to Hb

- heme iron (Fe) binds to 1 O<sub>2</sub>
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O<sub>2</sub>

## Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

49% ± 5% (males), 42% ± 5% (females)

# Anatomy Ch Blood

**Jianjun Gao**



## **Anatomy Ch Blood:**

## **Anatomy Ch Blood** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Anatomy Ch Blood**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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