

Chemical Mediators of Inflammation

Lysosomal system

● Neutrophils

Primary granules - phospholipase A2, myeloperoxidase, lysozyme, cationic proteins, acid hydrolases, elastase, cathepsins

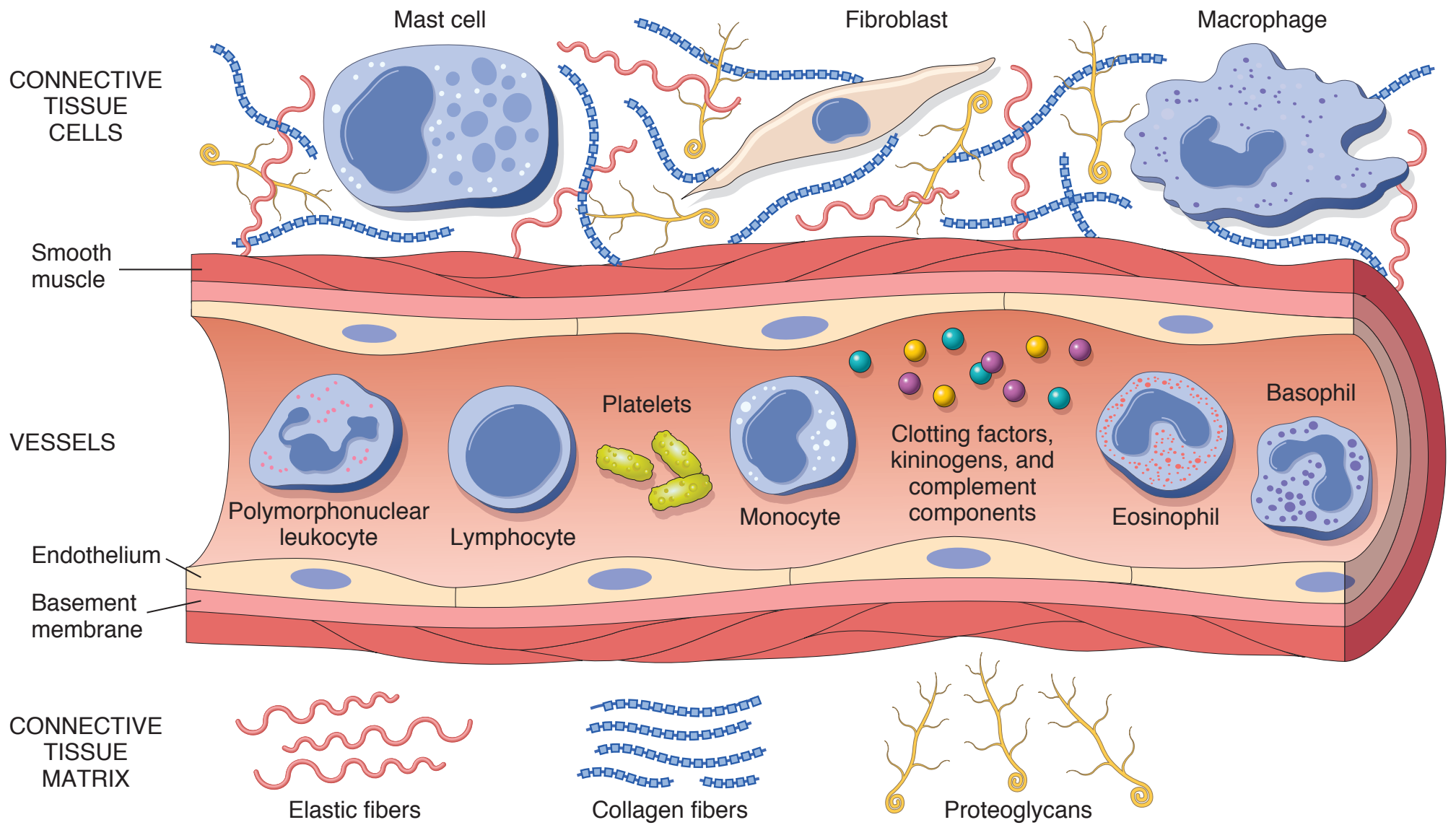
Secondary granules - phospholipase A2, lysozyme, alkaline phosphatase, collagenase, lactoferrin, vitamin B12 binding proteins, gelatinase, cathepsins

Chemical Mediators of Inflammation

Lysosomal system

- Monocyte/Macrophage

Acid hydrolases, neutral proteases (e.g., elastase, collagenase, cathepsins)



Neutrophils

Margination - pavementing

Adhesion of leukocytes to endothelial cells

Emigration and chemotaxis

Opsinization/Recognition and Attachment

Phagocytosis and degranulation

Activation and destruction (killing)

- Oxygen dependent killing
- Oxygen independent killing

Adhesion

Leukocytes

- LFA-1 (leukocyte function antigen-1)
- MAC-1 (C3b receptor -CD11/CD18 receptor)
- L-selectin

Endothelial cells

- E-selectin
- P-selectin
- ICAM-1 (intracellular adhesion molecule -1)
- VCAM-1 (vascular cellular adhesion molecule -1)