

Unit 1 (general systems): course notes & text chapters 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
(NOT Ch. 3) cell, genetics, inflammatory, immune

Exam 1: Unit 1(chap1-14 except chap 3) completion deadline from **Monday, 23 to sunday 1/29/2023**

Learning objectives for this file:

1. Review tissue biology, cellular changes with injury & infection
2. Theories of cancer development
3. Theories of aging
4. Circadian cycles.
5. Immune response- immune cells, cell-mediated & humoral immunity
6. Immunoglobulins, complement
7. Active & passive immunity, blood immune system, CRP
8. Transportation immunology, auto-immune disease
9. Inflammation- cells, cytokines
10. Immediate & delayed inflammatory response
11. Arachidonic acid pathway, eicosanoids, CRP
12. Wound healing- normal, dysfunctional.

A. Tissue Biology

Tissues:

1. Extracellular matrix:

all cells are in contact with extracellular macromolecules. This holds cells in place. The extracellular matrix is an intricate meshwork of fibrous proteins embedded in a watery, gel-like substance composed of complex carbohydrates containing **elastin, fibronectin, and collagen**.

Desmosomes hold cells together by forming bands or belts while polypeptides form proteins.

2. Cytokines:

Chemicals made by cells that affect other cells growth & activity.

Three embryonic tissue types:

- . ectoderm : nerve, eye, skin
- . mesoderm: mesenchymal- muscle and GU
- . endoderm: visceral organs

a. Epithelial tissue:

May be smooth, or have microvilli, and/or cilia.

- . Simple (one layer) or stratified (2+ layers).
- . pseudostratified looks stratified but is one layer

Advanced Pathophysiology Lecture Notes

Michael Hoelscher



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