

Cellular Adaptation, Injury, and Death Readings & Objectives

Readings: Porth (2020)

Chapter 3

Chapter 2 (For review, if needed)

Worksheet in D2L

Student Learning Objectives:

1. Differentiate cellular stress responses and general conditions under which these changes occur.
2. Describe the affect hypoxia has on the cell.
3. Compare and contrast between cell death associated with necrosis and apoptosis.
4. Explain the effects/results of cellular and systemic changes of aging.

Cellular Injury and Adaptation Outline

I. Cellular Adaptation

A. Homeostasis

B. Cellular injury may be reversible.

II. Cellular Response to Stress

A. Types of cellular adaptation: growth and differentiation – Fig. 3-1, p. 41

1. **Atrophy – decrease in cell size** – Fig. 3-1, p. 41.

a. Disuse atrophy

b. Causes of disuse atrophy.

- Denervation atrophy
- Lack of hormonal stimulation
- Malnutrition, cellular hypoxia/ischemia (lack of blood flow)

2. **Hypertrophy – increased size of cells** → increased size of organ
Figs. 3-1 and 3-2, pp. 41, 42.

a. Increased protein accumulation in the cell, NOT increased fluid

b. Triggered by mechanical stimuli.

c. Physiologic vs. pathologic

- Physiologic
- Pathologic
 - Adaptive hypertrophy
 - Compensatory hypertrophy

3. **Hyperplasia – increased number of cells** from an increased cellular division
Fig. 3-1, p. 41

a. Growth factors are produced that stimulate cell division.

b. Normal/Physiologic hyperplasia

- Compensatory hyperplasia
- Hormonal hyperplasia

c. Pathologic hyperplasia

Adaptation Selected Readings 25 X Freud Jakobson Olds Etc

D Kirk



Adaptation Selected Readings 25 X Freud Jakobson Olds Etc:

This book delves into Adaptation Selected Readings 25 X Freud Jakobson Olds Etc. Adaptation Selected Readings 25 X Freud Jakobson Olds Etc is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Adaptation Selected Readings 25 X Freud Jakobson Olds Etc, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Adaptation Selected Readings 25 X Freud Jakobson Olds Etc
 - Chapter 2: Essential Elements of Adaptation Selected Readings 25 X Freud Jakobson Olds Etc
 - Chapter 3: Adaptation Selected Readings 25 X Freud Jakobson Olds Etc in Everyday Life
 - Chapter 4: Adaptation Selected Readings 25 X Freud Jakobson Olds Etc in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Adaptation Selected Readings 25 X Freud Jakobson Olds Etc.

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