

BODY DEFENSES

Innate Immune System

(Non-Specific Defenses)

Confers Non-specific Resistance

Adaptive Immune System

(Specific Defenses)

Confers Specific Resistance
(classical immunity)

Elements of the Innate Immune System

Physical Barriers

Epithelium

Sebaceous and Sweat Glands
gives surface of skin low pH

Lysozyme (in sweat and saliva)

Mucus (Digestive &
Respiratory Systems)

Phagocytes

Microphages (from Neutrophils)

Macrophages (primarily from
Monocytes)

Natural Killer Cells (NK Cells)

A kind of Lymphocyte

Carry out Immunological Surveillance
Attack cells with foreign chemical
signatures.

In the case of cancer cells,
they key in on

Tumor-Specific Antigens

Destroy targeted cells by releasing
Perforins

Cancer cells may avoid destruction
through **Immunological
Escape**

Interferons

A kind of cytokine (a local
chemical messenger)

Causes infected cells to produce
Antiviral Proteins

Complement System

Both a non-specific and
Specific Defense

Multiple circulating

Complement Proteins

Assemble to form a
**Membrane Attack Complex
(MAC)**

Inflammation (Inflammatory Response)

Redness, swelling (**edema**),
pain, and heat

Inflammation (continued)

Chemicals released:

Histamine (dilates local
blood vessels and
increases capillary
permeability)
(causes redness, heat,
and edema)

Heparin (retards
clotting)

Prostaglandins
(causes pain)

Fever

Hypothalamus acts as
thermostat

Pyrogens adjust body
temperature upwards

Fever raises metabolic rate

Probably creates an internal
environment inhospitable to the
temperature optimum of invaders

Adaptive Immune System

(confers specific immunity)

Involves T Cells and B Cells

T Cells (T Lymphocytes)

Cell-Mediated Immunity

B Cells (B Lymphocytes)

Antibody-Mediated Immunity

Inborn Immunity

Acquired Immunity

Active (Acquired Immunity)

Natural Active Acquired Immunity

Induced Active Acquired Immunity

(i.e., vaccine)

Passive (Acquired Immunity)

Natural Passive Acquired Immunity

Induced Passive Acquired Immunity

Characteristics of Adaptive Immune System

Specificity

Versatility

Memory

Tolerance

Two-pronged Defense

Antigen → Macrophage → Helper T Cell

Helper T Cell → Cytotoxic T Cell

Helper T Cell → B Cell → Plasma Cell → Antibodies

(continued)

Body Defenses Study Guide Answers

Martha R. Taylor



Body Defenses Study Guide Answers:

This book delves into Body Defenses Study Guide Answers. Body Defenses Study Guide Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Body Defenses Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Body Defenses Study Guide Answers
 - Chapter 2: Essential Elements of Body Defenses Study Guide Answers
 - Chapter 3: Body Defenses Study Guide Answers in Everyday Life
 - Chapter 4: Body Defenses Study Guide Answers in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Body Defenses Study Guide Answers. This chapter will explore what Body Defenses Study Guide Answers is, why Body Defenses Study Guide Answers is vital, and how to effectively learn about Body Defenses Study Guide Answers.
3. In chapter 2, the author will delve into the foundational concepts of Body Defenses Study Guide Answers. The second chapter will elucidate the essential principles that must be understood to grasp Body Defenses Study Guide Answers in its entirety.
4. In chapter 3, this book will examine the practical applications of Body Defenses Study Guide Answers in daily life. The third chapter will showcase real-world examples of how Body Defenses Study Guide Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Body Defenses Study Guide Answers in specific contexts. The fourth chapter will explore how Body Defenses Study Guide Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Body Defenses Study Guide Answers. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Body Defenses Study Guide Answers.

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