

Student | **CONSULT**

Activate at [studentconsult.com](http://studentconsult.com)

Searchable Full  
Text Online

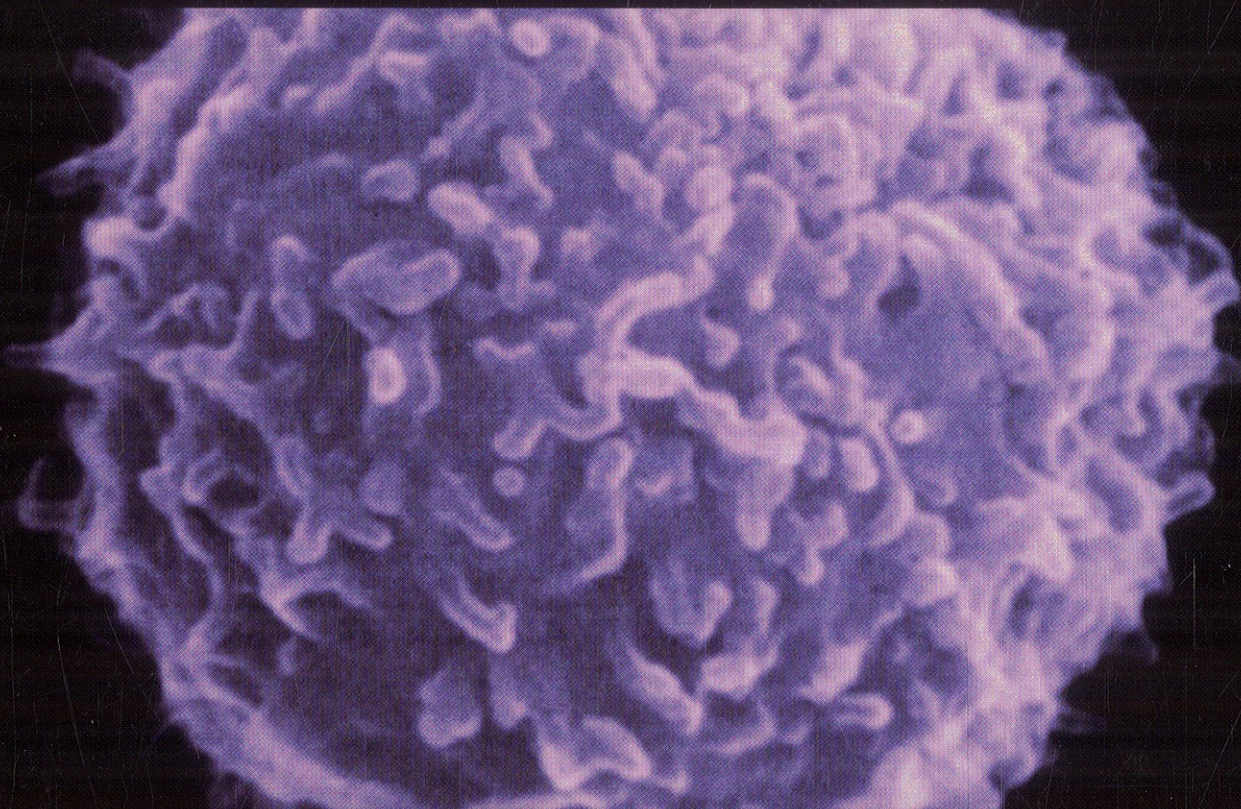
T H I R D   E D I T I O N

ABUL K. ABBAS • ANDREW H. LIGHTMAN

UPDATED EDITION

# Basic Immunology

Functions and Disorders of the Immune System



SAUNDERS  
ELSEVIER



# CONTENTS

<b>INTRODUCTION TO THE IMMUNE SYSTEM</b> .....	1
The Nomenclature, General Properties, and Components of the Immune System	
<b>2 INNATE IMMUNITY</b> .....	23
The Early Defense Against Infections	
<b>3 ANTIGEN CAPTURE AND PRESENTATION TO LYMPHOCYTES</b> .....	45
What Lymphocytes See	
<b>4 ANTIGEN RECOGNITION IN THE ADAPTIVE IMMUNE SYSTEM</b> .....	67
Structure of Lymphocyte Antigen Receptors and the Development of Immune Repertoires	
<b>5 CELL-MEDIATED IMMUNE RESPONSES</b> .....	89
Activation of T Lymphocytes by Cell-Associated Microbes	
<b>6 EFFECTOR MECHANISMS OF CELL-MEDIATED IMMUNITY</b> .....	113
Eradication of Intracellular Microbes	
<b>7 HUMORAL IMMUNE RESPONSES</b> .....	131
Activation of B Lymphocytes and Production of Antibodies	
<b>8 EFFECTOR MECHANISMS OF HUMORAL IMMUNITY</b> .....	153
The Elimination of Extracellular Microbes and Toxins	
<b>9 IMMUNOLOGICAL TOLERANCE AND AUTOIMMUNITY</b> .....	173
Self–Nonself Discrimination in the Immune System and Its Failure	
<b>10 IMMUNE RESPONSES AGAINST TUMORS AND TRANSPLANTS</b> .....	189
Immunity to Noninfectious Transformed and Foreign Cells	
<b>11 HYPERSENSITIVITY</b> .....	205
Disorders Caused by Immune Responses	
<b>12 CONGENITAL AND ACQUIRED IMMUNODEFICIENCIES</b> .....	223
Diseases Caused by Defective Immune Responses	

<b>SUGGESTED READINGS</b> .....	239
APPENDIX I	
<b>GLOSSARY</b> .....	245
APPENDIX II	
<b>PRINCIPAL FEATURES OF CD MOLECULES</b> .....	273
APPENDIX III	
<b>CLINICAL CASES</b> .....	283
<b>INDEX</b> .....	293