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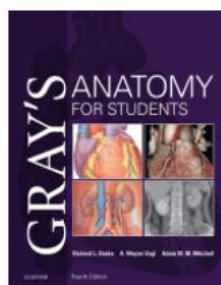
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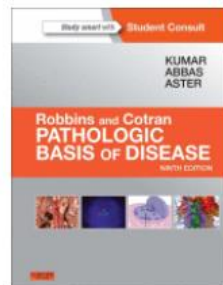
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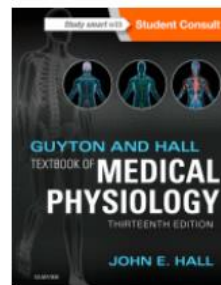
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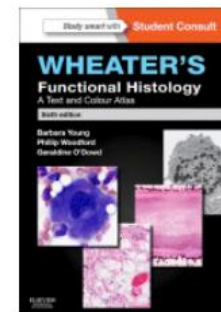
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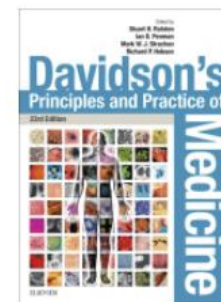
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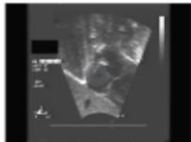
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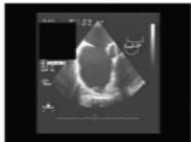
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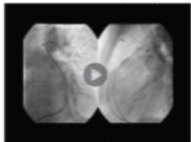
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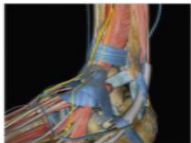


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[Toll-Like Receptors.](#)

[NOD-Like Receptors and the Inflammasome.](#)

[Other Receptors for Microbial Products.](#)

[Reactions of Innate Immunity](#)

[Adaptive Immunity](#)

[Cells of the Immune System](#)

[Lymphocyte Diversity](#)

[T Lymphocytes](#)

[B Lymphocytes](#)

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BOOK CHAPTER

Diseases of the Immune System

Kumar, Vinay, MBBS, MD, FRCPath; Abbas, Abul K., MBBS; Aster, Jon C., MD, PhD;

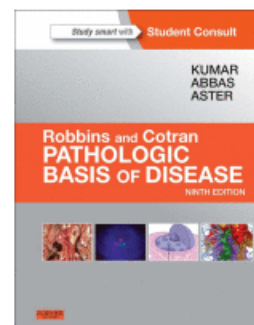
[Robbins and Cotran Pathologic Basis of Disease](#), Chapter 6, 185-264

The immune system is vital for survival, because it protects us from infectious pathogens that abound in the environment. Predictably, immune deficiencies render individuals easy prey to infections. But the immune system is itself capable of causing tissue injury and disease. Examples of disorders caused by immune responses include *allergies* and reactions against an individual's own tissues and cells (*autoimmunity*).

This chapter is devoted to diseases caused by too little immunity or too much immunologic reactivity. We also consider amyloidosis, a disease in which an abnormal protein, derived in some cases from fragments of immunoglobulins, is deposited in tissues. First, we review some of the important features of normal immune responses, to provide a foundation for understanding the abnormalities that give rise to immunologic diseases.

The Normal Immune Response

The classic definition of *immunity* is protection from infectious pathogens, and the normal immune response is best understood in this context. The mechanisms of defense against microbes fall into two broad categories ([Fig. 6-1](#)). *Innate immunity* (also called natural, or native, immunity) refers to the mechanisms that are ready to react to infections even before



**Robbins and Cotran
Pathologic Basis of
Disease**
Ninth Edition

Kumar, Vinay, MBBS, MD, FRCPath; Abbas, Abul K., MBBS; Aster, Jon C., MD, PhD

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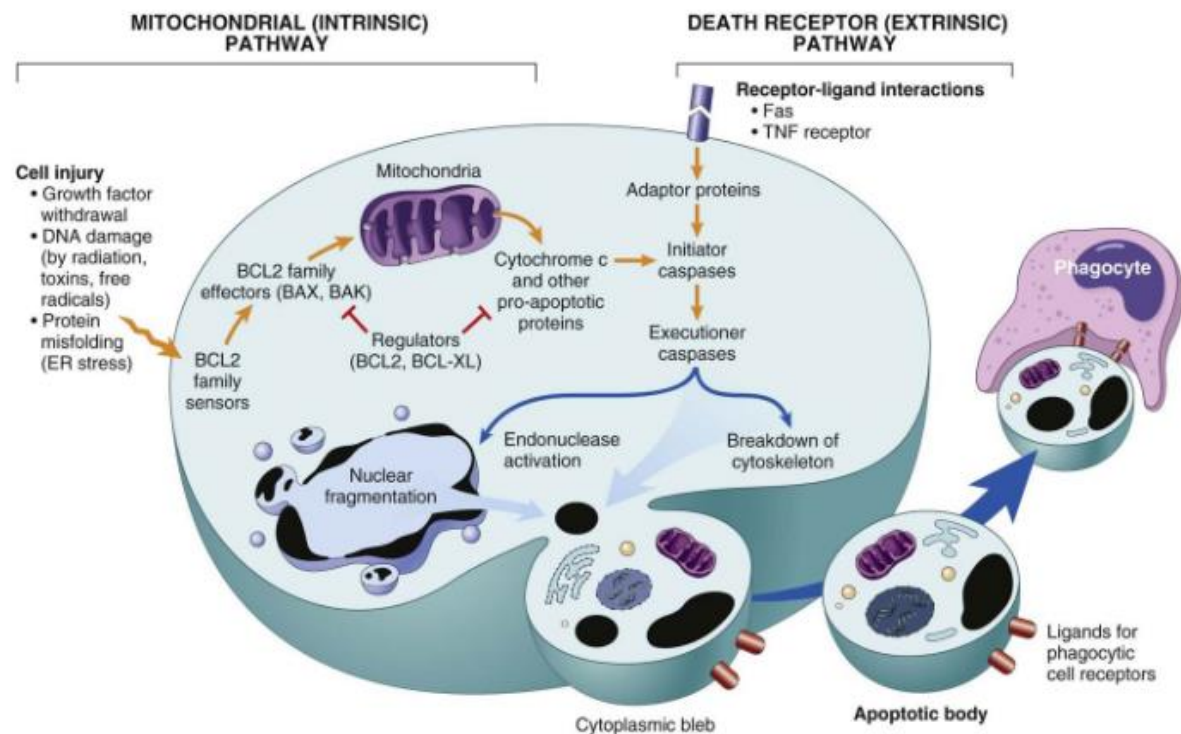


Figure 2-23 Mechanisms of apoptosis. The two pathways of apoptosis differ in their induction and regulation, and both culminate in the activation of caspases. In the mitochondrial pathway, proteins of the BCL2 family, which regulate mitochondrial permeability, become imbalanced and leakage of various substances from mitochondria leads to caspase activation. In death receptor pathway, signals from plasma membrane receptors lead to the assembly of adaptor proteins into a “death-including signaling complex,” which activates caspases, and the end result is the same.

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目錄

1 書內搜尋

🔍 搜尋內容



Robbins & Cotran Pathologic Basis of Disease
9th 版本
Vinay Kumar, Abul Abbas, Jon Aster

iv Front Matter >


xiii General Pathology >

482 Systemic Pathology: Diseases of Organ Systems >

1344 Index >

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Pathology literally translates to the study of *suffering* (Greek *pathos* = suffering, *logos* = study); more prosaically, the term *pathology* is invoked to represent the study of *disease*. Germane to this opening chapter, Virchow coined the term *cellular pathology* to emphasize the basic tenet that all diseases originate at the cellular level. Thus, modern pathology is basically the study of *cellular* abnormalities. Therefore, diseases and the underlying mechanisms are best understood in the context of *normal* cellular structure and function.

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(irable) to condense the vast and fascinating field of cell biology into a
nts of biology are likely quite familiar with many of the broader concepts
nsequently, rather than attempting a comprehensive review, our goal is
and highlight some recent advances that are relevant to the pathologic
ed throughout the text. We hope this chapter will be useful to review key
hey apply to the areas of Pathology that are covered from **Chapter 2**

The sequencing of the human genome represented a landmark achievement of biomedical science. Published in draft form in 2001 and more completely detailed in 2003, the information has already led to remarkable advances in science and medicine. Since then there has been an exponential decrease in the cost of sequencing and an exponential increase in data accrual; this new information, now literally at

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結束

評論

Figure 7-1 Colonic polyp. A, An adenomatous (glandular) polyp is projecting into the colonic lumen and is attached to the mucosa by a distinct stalk. B, Gross appearance of several colonic polyps.

玩味紫



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The back consists of the posterior aspect of the body and provides the musculoskeletal axis of support for the trunk. Bony elements consist mainly of the vertebrae, although proximal elements of the ribs, superior aspects of the pelvic bones, and posterior basal regions of the skull contribute to the back's skeletal framework (Fig. 2.1).

This is very important!!!

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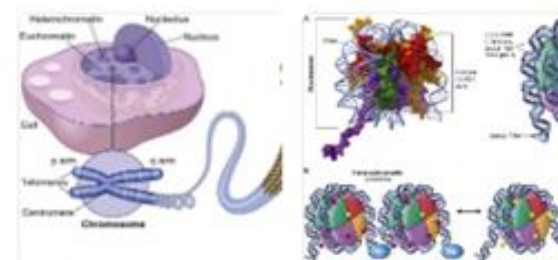
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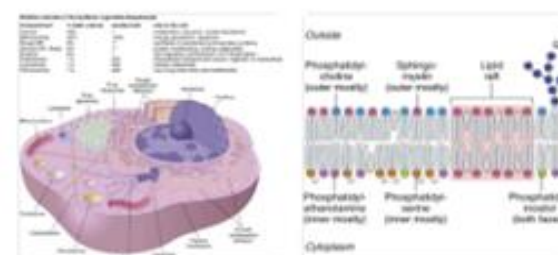
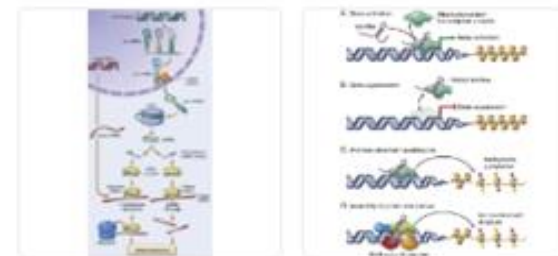
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Title page

Table of Contents

IFC3 Quick Reference (QR) Video
Access

iv Copyright

v Associate Editors

vii Preface

ix Contributors

xxxix Video Contents

xi Volume I

1381.... Volume II

270

The Systemic Vasculitides

John H. Stone

◆ Definition

The vasculitides are a heterogeneous group of disorders linked by the common finding of destructive inflammation within blood vessel walls. The most current nomenclature scheme¹ identifies at least 27 different forms of primary vasculitis ([Table 270-1](#)). The major forms of vasculitis are discussed in this chapter.

TABLE 270-1

NAMES FOR VASCULITIDES ADOPTED BY THE 2012 INTERNATIONAL CHAPEL HILL CONSENSUS CONFERENCE ON THE NOMENCLATURE OF VASCULITIDES.¹

| |
|---|
| LARGE-VESSEL VASCULITIS |
| Takayasu arteritis Giant cell arteritis |
| MEDIUM-VESSEL VASCULITIS |
| Polyarteritis nodosa Kawasaki disease Buerger disease* |
| SMALL-VESSEL VASCULITIS |
| Antineutrophil cytoplasmic antibody (ANCA)-associated vasculitis Microscopic polyangiitis Granulomatosis with polyangiitis (formerly Wegener granulomatosis) Eosinophilic granulomatosis with polyangiitis (Churg-Strauss syndrome) Immune complex small-vessel vasculitis Antiglomerular basement membrane disease Cryoglobulinemic vasculitis Immunoglobulin (Ig)A vasculitis (Henoch-Schönlein purpura) Hypocomplementemic urticarial vasculitis |
| VARIABLE-VESSEL VASCULITIS |
| Behçet syndrome Cogan syndrome |
| SINGLE-ORGAN VASCULITIS |
| Cutaneous leukocytoclastic angiitis Cutaneous arteritis Primary central nervous system vasculitis Isolated aortitis |
| VASCULITIS ASSOCIATED WITH SYSTEMIC DISEASE |

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目錄

🔍 搜尋內容

Expert Consult - Online

i Title page

i Table of Contents

IFC3 Quick Reference (QR) Video Access >

iv Copyright

v Associate Editors

vii Preface

ix Contributors

xxxix Video Contents >

xi Volume I >

1381... Volume II >

2712 Appendix Reference Intervals and Laboratory Values >

270

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LARGE-VESSEL VASCULITIS

時尚紅



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(NCA)-associated vasculitis

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Cryoglobulinemic vasculitis
Immunoglobulin (Ig)A vasculitis (Henoch-Schönlein purpura)

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LARGE-VESSEL VASCULITIS

↑↓

Takayasu arteritis

Giant cell arteritis

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270

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| Microscopic polyangiitis |
| Granulomatosis with polyangiitis (formerly Wegener granulomatosis) |
| Eosinophilic granulomatosis with polyangiitis (Churg-Strauss syndrome) |
| Immune complex small-vessel vasculitis |

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Takayasu arteritis
Giant cell arteritis...

270

The Systemic Vasculitides

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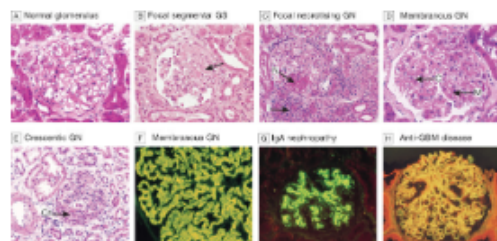
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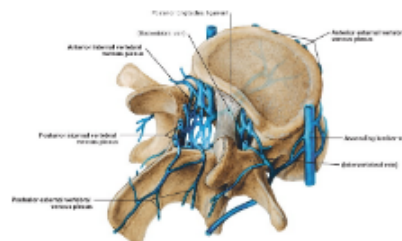
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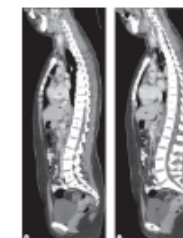
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