

## **Contents**

Part I: An Introduction to Immunobiology and Innate Immunity

Chapter 1: Basic Concepts in Immunology

Chapter 2: Innate Immunity: The First Lines of Defense

Chapter 3: Cellular Mechanisms of Innate Immunity

Part II: The Recognition of Antigen

Chapter 4: Antigen Recognition by B-cell and T-cell Receptors

Chapter 5: The Generation of Lymphocyte Antigen Receptors

Chapter 6: Antigen Presentation to T Lymphocytes

Part III: The Development of Mature Lymphocyte Receptor Repertoires

Chapter 7: Lymphocyte Receptor Signaling

Chapter 8: The Development of B and T Lymphocytes

Part IV: The Adaptive Immune Response

Chapter 9: T Cell–Mediated Immunity

Chapter 10: The Humoral Immune Response

Chapter 11: Integrated Dynamics of Innate and Adaptive Immunity

Chapter 12: The Barrier Immune System

Part V: The Immune System in Health and Disease

Chapter 13: Failures of Host Defense Mechanisms

Chapter 14: Allergic Diseases and Hypersensitivity Reactions

Chapter 15: Autoimmunity and Transplantation

Chapter 16: Manipulation of the Immune Response

Appendix I: The Immunologist's Toolbox