

Χαρακτηριστικά:

- **NEW! Updated content** includes the most current information related to infectious and immunological diseases, diagnostic testing methods, and vaccines
- **Clinical case studies** include etiology, pathophysiology, laboratory findings, and critical thinking questions, allowing you to apply your knowledge of concepts and procedures
- **Visual learning features** make studying easier with algorithms, illustrations, photographs, and summary boxes
- **Key Concepts** are interwoven throughout each chapter, highlighting the most important facts
- **Content correlation** between lecture and reading, diagnostic laboratory procedures, and case studies allows for easy reference
- **Learning objectives and key terms** open each chapter, providing measurable outcomes and a framework for organizing your study efforts
- **More than 650 end-of-chapter, multiple-choice questions** provide opportunities for review and self-assessment
- **Laboratory procedures on the Evolve website and in the eBook** help you apply immunology and serology theory to clinical laboratory practice

Περιεχόμενα:

PART I: Basic Immunologic Mechanisms

1. Foundations of Innate and Adaptive Immune Systems
2. Soluble Mediators of the Immune System
3. Antigens and Antibodies
4. Cellular Activities and Clinical Disorders of Innate and Adaptive Immunity

PART II: The Theory of Immunologic and Serologic Procedures

5. Basic Safety in the Immunology-Serology Laboratory
6. Basic Quality Control and Quality Assurance Practices
7. Basic Serologic Laboratory: Techniques and Clinical Applications
8. Precipitation and Particle Agglutination Methods
9. Electrophoresis Techniques and Chromatography
10. Labeling Techniques in Immunoassay
11. Flow Cytometry
12. Molecular Laboratory Techniques

PART III: Immunologic Manifestations of Infectious Diseases

13. Infectious Diseases: Overview and TORCH Diseases
14. Streptococcal Infections
15. Syphilis
16. Vector-Borne Diseases
17. Infectious Mononucleosis

18. Viral Hepatitis

PART IV: Immune Disorders

19. Primary and Acquired Immunodeficiency Syndromes

20. Hypersensitivity Reactions

21. Plasma Cell Neoplasms and Other Diseases With Paraproteins

22. Tolerance, Autoimmunity, and Autoimmune Disorders

23. Systemic Lupus Erythematosus

24. Rheumatoid Arthritis

PART V: Transplantation and Tumor Immunology

25. Transplantation: Human Leukocyte Antigens, Solid Organ, Tissues, and Hematopoietic Stem Cells

26. Tumor Immunology and Applications of Massive Parallel Sequencing/Next-Generation Sequencing

PART VI: Vaccines

27. Vaccines: Development and Applications

Appendix A: Answers to Case Study Multiple-Choice Questions

Appendix B: Answers to Review Questions

Appendix C: Origin and Immunoregulatory Activity of Cytokines

Appendix D: Coronavirus Disease 2019 (COVID-19)

Appendix E: Vaccines Licensed for Use in the United States by the Federal Drug Administration

Bibliography

Glossary

Index