

**Contents**

*Preface*..... v

*About the Author*..... vii

1. Development of Pharmaceutical Microbiology ..... 1

2. Isolation, Identification and Preservation of Microorganisms ..... 57

3. Microbiological Spoilage and Prevention of  
Pharmaceutical Products ..... 78

4. Sterilization of Pharmaceutical Products ..... 92

5. Chemotherapeutic Agents and Their Mechanism of Action ..... 109

6. Antibiotic Resistance and Development of New Therapeutics..... 132

7. Gene Therapy ..... 143

8. Laboratory Assays for Pharmaceutical Products ..... 155

9. Vaccine and Their Different Types ..... 166

10. Bacterial Endotoxin Test ..... 169

11. Environmental Monitoring..... 178

*References* ..... 183

*Glossary* ..... 185