

# 《医学教育改革系列教材》

## 图书基本信息

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## 内容概要

《医学教育改革系列教材:病原生物学与免疫学实验》是医学教育改革系列教材,共分为两大模块,28个小单元,针对病原微生物,实验—医学—院校—免疫学—等内容进行全方位解析,是一本值得一看的医学用书。

## 书籍目录

Part 1 Basic Experiments Experiment 1 Observation of Bacterial Morphology . Using Oil Immersion L.ens of the Microscope . Basic Morphology and Special Structure of Bacteria Experiment 2 Bacterial Staining and Microscopy . Gram Stain . Acid-fast Stain ( Ziehl-Neelsen Method ) Experiment 3 Preparation of the Basic Medium Experiment 4 Examination Methods of Parasitic Infections . Direct Fecal Smear Method for Detecting Ascaris Eggs . Examination for Ascaris Larvae in Lung Tissue of Mice . Saturated Brine Flotation Method for Detecting Hookworm Eggs . Fecal Culture Method for Hookworm Larvae . Cellophane Tape Method for Detecting Pinworm Eggs . Direct Sputum Smear or Centrifugal Sedimentation Method for Detecting Paragonimus Eggs " . Squash Method for Detecting Striated Muscle Larvae of Trichinella . Test of Concentration of Eggs by Sedimentation for Detecting S. Japonicum Eggs . The Miracidium Hatching Method for Detecting S. Japonicum . Circumoval Precipitation Test ( COPT ) for Diagnosing Schistosomiasis . Direct Stool Smear with Iodine-stain for Detecting Amoeba Cysts . Blood Smear Method for Detecting Malarial Parasites Experiment 5 Agglutination Reaction . Direct Agglutination Reaction -Identification of the ABO Blood Group System . Indirect Agglutination Reaction -Anti-streptolysin O Test . Indirect Agglutination Inhibition Reaction-Latex Pregnancy Test Experiment 6 Precipitation Reaction . Single Radial Immunodiffusion Test . Double Immunodiffusion Test Experiment 7 Enzyme-linked Immunosorbent Assay ( Sandwich ELISA Assay )

Part 2 Comprehensive Experiments Unit 1 Isolation of Microorganisms from the Environment and Human Body Experiment 8 Bacteria in the Air and Ultraviolet Radiation Experiment 9 Bacteria on the Finger Tip and Solid Surface Unit 2 Detection of Skin Infections Experiment 10 Cultural Characteristics of Bacteria and Fungi ( Teaching Demonstration ) . Clostridium Perfringens in the Milk Medium . Fungi in Sabouraud Dextrose Medium Experiment 11 Observation of Plasmodium, Toxoplasma Gondii , Trichinella Spiralis ,Echinococcus Granulosus and Insecta . Plasmodium . Toxoplasma Gondii . Trichinella Spiralis . Echinococcus Granulosus . Insecta Unit 3 Detection of Respiratory Infections Experiment 12 Isolation & Identification of Pyogenic Cocci . Isolation and Culture of Mimic Pus Swab and Throat Swab . Coagulase Test Experiment 13 Cultural Characteristics of Respiratory Infected Bacteria . The Colonies of Pathogenic Cocci on Blood Agar Plates ( Teaching Demonstration ) . Mycobacterium Tuberculosis in Lowenstein-Jensen Solid Medium ( Teaching Demonstration ) Experiment 14 Observation of Paragonimus Westermani Unit 4 Detection of Enteric Infections Experiment 15 Isolation and Identification of Pathogenic Enterobacteria . Isolation of Artificial Fecal Specimens . Biochemical Activities of Enteric Pathogens--Kligler Iron Agar Test . Serologic Identification of Enteric Pathogens Experiment 16 Widal Test Experiment 17 Observation of Ascaris lumbricoides, Hookworms,Enterobius Vermicularis,Taenia ,Entamoeba and Cryptosporidium . Ascaris Lurnbricoides . Hookworms ( Ancylostoma Duodenale and Necator Americanus ) . Enterobius Vermicularis . Intestinal Cestodes ( Taenia Solium and Taenia Saginata ) . Intestinal Protozoa ( Entamoeba Histolytica and Entamoeba Coli ) . Cryptosporidium Unit 5 Detection of Hepatic Infections Experiment 18 Observation of Clonorchis Sinensis Experiment 19 Observation of Schistosoma Japonicum Unit 6 Detection of Genitourinary Tract Infections Experiment 20 Observation of Chlamydia Trachomatis Inclusion Unit 7 Antimicrobial Resistance Experiment 21 Bacterial Conjugation:the Transfer of Plasmids Coding for Antibiotic Resistance Experiment 22 Antibiotic Sensitivity Test Unit 8 Immune Cells Function Assay Experiment 23 Macrophage Phagocytosis Assay Experiment 24 Neutrophil Phagocytosis Assay Experiment 25 Plaque Forming Cells Assay ( PFC Assay ) Experiment 26 Lymphocyte Transformation Assay Experiment 27 Classification of T Cell Subset and FACS Analysis Experiment 28 Cytokine Measurement by ELISPOT Appendix Appendix 1 Commonly Used Dye and Staining Appendix 2 Media Appendix 3 Commonly Used Reagents and Buffers Index



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## 编辑推荐

《医学教育改革系列教材:病原生物学与免疫学实验》由高等教育出版社出版。

## 精彩短评

1、此书基本上还可以，就是内容有点少，不够系统

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