### Introduction

What is Microbiology? Microbiology is the study of living creatures too small to see with the naked eye. This division of biology includes the study of bacteria, fungi, protocoa, algae, viruses and other important minute creatures.

Withy Study Milcrobiology? No living creature can argueste itself from interaction with microbies. We use them to help create pharmaceuticals, clean up hunardous wants, and make fixed products. They can also wreak hunce on all creatures by invading them and causing disturbance and infliction. Understanding the way they

### **History of Microbiology**

flunction is vital to life on earth.

1820 Decdorants used to reduce putrefaction. Sodium hypochlorite used in Paristan morgans to reduce decay.

1840 Ignaz Sammelweis, a Viennese physician, was supervising medical students in the maternity wards when he noticed a correlation between putrefaction in autopsy and puerperal fever in programs were not let also noticed that some physicians found higher rates of puerperal fever in their patients. He also gwith Oliver Wesdell Holeses in the US, along with Oliver Wesdell Holeses in the US, required that all physicians wash their hands between patients. Few complied and many more women died in childbirth.

1850 Louis Pasteur, a very bright brewer trying to make the best beer in France, noticed that it was microcorganisms that feremented sugar to alcohol. When incorrect microbes were in the mixture, undescribe products resulted. He proceeded to culture hacillus andreach and proved it to be a causative agent of the disease anthreas.

1860 Joseph Lister, an English surgeon, using data gathered in operating recents and from old band-ages he picked up in the trash catalde hospitals, proposed that infectioes were due to "substancee" found around patients. He began to use carbolic acid (phenol) to wrap wounds and to spray the air around the patient, which icilied what he called "septic germs." Its work went unappreciated for years.

1870 Robert Koch, a German physician, continued Louis Fastrur's work. He established that anthrax bacteria was always present in inflorted blood, that the inflorted blood could transmit anthrax, and the bactoria was isolatuble outside the amimal.

1940 Alexander Floring discovered pericillin and used it to core various diseases. Along with Ernat Chain and Howard Florry, he developed a production process.

1950 Joshus Lederberg, Edward Tatam, and George Bradle discovered and worked on genetic recombination in bacteria.

1960 Francols Jacob and Jacques Monod discovered and elocidated control of enzyme synthesis. They are credited with the Lac Operon model of genetic control of enzyme synthesis.

1900 Michael Bishop and Harold Varmus discover that virus encoded encogenes originate in culturate cells.

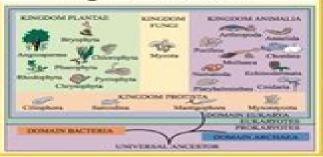
1965 Kary Nullis invents PCR, polymerase chain reaction, a technique to amplify any DNA sequence.

1997 Stanley Praisher is awarded the Nobel Prize for work on prices, "infectious proteins."

### Types of Infective Agents

Bacteria Mycoplasmas L. Forms Fungi Rickettskas Virolds Viruses Spirochetes Prions Protonos Chlamydiae DNA/RNA

#### Organismal Evolution



#### How Prokaryotes and Eukaryotes Differ

PROKARYOTES
No staclinus
No staclinus
Stemple enamelerane
Crise ethorosococos
Bacteria: Ablosepsoro aligne
Sonali diameter / 1-Sum
No organolise
Ribencomes are 705
R

### EUKARYOTES

Complex, invaginated membrane Multiple chromosocomes Aligan fungi/protosoc Large diameter / 10-100cm Organelles Ribosomes are 705 and 805 9 x 2 microtubular flagella conjugation No peptidoglycan

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### The Cell Theory

The cell theory, first put forth in the 1800's, has three main premises and states:

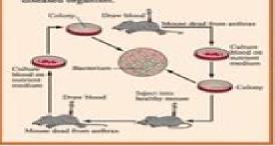
A. All living things are made up of one or more cells.
B. The cell is the basic unit of life.

C. All cells come from pre-existing cells. A microbe can be one cell or a cluster or colony of cells that work together. Some pathogens are just infective pieces of RNA or DNA.

#### **Koch's Postulates**

In prove a microorganism causes disease:

- I. Identical microbe must be present in all individuals with the same disease.
- 2. Microbe must be cultured outside the body.
- Microbe must induce disease when given to same marries.
- Identical microbe must be isolated from newly diseased organism.



### Food Borne Pathogens

VIRUSES Norwalk Polio Consackie Eshovirus

Hepatitis A FUNGI Aspergillus PROTOZOA Entemochu Giordia Toxopiarma Cryptosporidium

### HELMINTHES

Triphona Themia Tromatodes Nematodes

#### BACTERIA

Gram Positive Genera Bacillus Clostridia Listeria Gram Negative Genera Erwinia

Erwinia Servatia Klebriella Protens Salmonella Shige Ca Encherichia Parudomonas Campylohacter Yorania Bacteroides

#### GRAM NEGATIVE VS GRAM POSITIVE Food Borne Bacterial Symptoms:

Gram Positive (Usually Produce Toxins)

Headache, dispiness, uncoordinated movements, numbers and exercise intolerant

Gram Negative (Usually Result in Infection)

Abdominal cramps, malaise, tenesenus, diarrhea, horsorrhagic stool, vomiting and nauses.

# **Medical Microbiology Study Guide**

James D. Kettering, Hansel M. Fletcher, Craig A. Seheult

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quiz has 139 multiple choice questions Parasites quiz has 31 multiple choice questions Pathogenesis quiz has 65 multiple choice questions Sterilization and disinfectants guiz has 16 multiple choice questions Structure of bacterial cells guiz has 22 multiple choice questions Structure of viruses quiz has 31 multiple choice questions Vaccines antimicrobial and drugs mechanism guiz has 33 multiple choice questions Microbiologist jobs interview questions and answers MCQs on actinomycetes antiviral drugs antiviral medications arbovirus bacterial diseases transmitted by food insects and animals bacterial genetics bacterial growth cycle bacterial structure bacteriological methods basic bacteriology basic virology blood tissue protozoa cestodes chemical agents chlamydiae clinical bacteriology clinical virology cutaneous and subcutaneous mycoses defenses mechanisms dna enveloped viruses dna nonenveloped viruses gene and generapy general microbiology general structure of bacteria gram negative cocci gram negative rods related to animals gram negative rods related to enteric tract gram negative rods related to respiratory tract gram positive cocci gram positive rods hepatitis virus host defenses human immunodeficiency virus human pathogenic bacteria important modes of transmission intestinal and urogenital protozoa laboratory diagnosis major pathogens mechanism of action medical microbiology medically important viruses classification minor bacterial pathogens minor protozoan pathogens minor viral pathogens mycobacteria mycology mycoplasma nematodes normal flora andir anatomic location in humans opportunistic mycoses parasitology pathogenesis physical agents portal of pathogens entry replication in viruses rickettsiae rna enveloped viruses rna nonenveloped viruses shape and size of bacteria size and shape of virus slow viruses and prions spirochetes structure and growth of fungi systemic mycoses transfer of dna within and between bacterial cells trematodes tumor viruses types of bacterial infections vaccines worksheets for competitive exams preparation Microbiology Essentials Lauren Gross, Tammy McCormick, 2013-01-01 REA's Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Microbiology includes the history of microbiology equipment and techniques diversity of microorganisms genetics metabolism transport of molecules role of microbes in disease microbes in the environment and microbes in industry Study Guide for Today's Medical Assistant - E-Book Kathy Bonewit-West, Sue Hunt, Edith Applegate, 2014-07-30 Use this study tool to master the content from your Today's Medical Assistant Clinical Administrative Procedures 2nd Edition textbook Corresponding to the chapters in the textbook by Kathy Bonewit West Sue Hunt and Edith Applegate this study guide helps you understand and apply the material with practical exercises activities flashcards checklists review questions and more Chapter assignment tables at the beginning of chapters guide you through textbook and study guide assignments and make it easy to track your progress Laboratory assignment tables list the procedures in each chapter including study guide page number references and indicate the procedures shown on the DVDs A pretest and

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hr />. Problem of the Month - Double Down Using the same two numbers, subtract the smaller from the larger number. If the two answers are the same, we will call that a perfect pair. Can you find two ... Problem of the Month: Perfect Pair - inside If the two answers are the same, we will call that a Perfect pair. Can you find two numbers that are a Perfect pair? If you think it is impossible, explain ... Perfect Pair Project - If the two answers are the same, that ... If the two answers are the same, that is a perfect pair. Perfect pairs are problems that get you the same answer when you do the opposite or different ... Problem of the Month: Perfect Pair - Inside Mathematics 10 Level D In this Problem, a Perfect pair is defined as two numbers whose sum is equal to their product. Explore these Perfect pairs. If you cannot find any ... Algebra 1 Answer Key Algebra 1 Answer Key. ITEM 242. Use the two-way frequency table to answer the question. Janice asked students in her school to identify their preferred ... Pair Products - NRICH - Millennium Mathematics Project Pair Products printable worksheet. Choose four consecutive whole numbers. Multiply the first and last numbers together. Multiply the middle pair together. Common Core State Standards for Mathematics Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. 3. Decompose numbers ... 2004 Audi A4 Owners Manual 2004 Audi A4 Owners Manual [Audi] on Amazon.com. \*FREE\* shipping on ... #1,790 in Vehicle Owner's Manuals & Maintenance Guides. Customer Reviews, 5.0 ... Audi Online Owner's Manual Audi

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