#### 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 separate 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 prognant women. He also noticed that some physicians found higher rates of puerperal fever in their patients. He, along with 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 Fasteur's work. He established that anthrax bacteria was always present in inflorted blood, that the inflorted blood could transmit anthrax, and the bacteria 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.

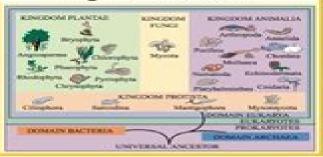
1965 Kary Nullis invents PCR, polymerase chain reaction, a technique to amplify any DNA sequence.

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
Bacetoria foliosperore aligne
Sonali diameter / 1-Sum
No organolise
Ribencomes are 705
Simple flagella
Compugation, transaloction, transaloction, peptidoglycan in cell wall

#### EUKARYOTES

Complex, invaginated membrane Multiple chromosocomes Aligan fungi/protosoc Large diameter / 10-100cm Organelles Ribosomes are 70S and 80S 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:

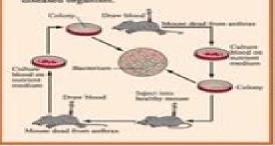
A. All living things are made up of one or more cells.
B. The cell is the basic unit of life.

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**

**R Sandford** 

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