

Pathogenic Bacteria

(the ~~Sad~~ bacteria that make people sick)

Early in the 1900's, scientists discovered that many common diseases are caused by bacteria. Robert Koch discovered that a bacteria called *Bacillus anthracis* causes Anthrax, and *Mycobacterium tuberculosis* causes Tuberculosis. Soon after, the bacterial cause of many diseases was discovered. It is important to note that only some species of bacteria cause diseases. We are surrounded by a countless number of bacteria in the dirt, ocean and even in our bodies that are totally harmless.

The petri plate to the right has millions of cells of *S. aureus* growing on it. This bacteria causes serious skin infections and is known to be resistant to many common antibiotics.*



Bacteria are too small to be seen without a microscope. They are about 1,000 times smaller than a tiny grain of sand (or 1 micrometer in diameter). They are however visible using a light microscope at 1,000x magnification. The image above is a photo of *Corynebacterium diphtheriae*, stained with a purple dye and viewed at 1,000x. It is a close relative of the bacteria that causes Diphtheria.

Some pathogenic bacteria, like *Clostridium botulinum* and *Bacillus anthracis* can produce structures called spores that are very resistant to harsh conditions. They are called endospores when located in the center of the cell, and can be seen as the bright centers of the image above.

1,000x is the limit of magnification possible with a light microscope without losing resolution, due to the wavelength of light. You can, of course, continue magnifying the image (like the spore above) but you however do not get any better resolution (or ability to discriminate between two close points). Microscopes exist that use electrons instead of light (Electron Microscopes) that can produce images at much higher magnification with great resolution. Below is an image of a close relative of *Morichloster* produced with a Scanning Electron Microscope (SEM).



* The red point plate above is red because of blood that is added to the media. A clearing of the color can be seen around the growth of *S. aureus*. This occurs because some pathogenic bacteria produce hemolysins which are capable of lysing (or breaking down) red blood cells. *S. aureus* is a growing health threat due to the emergence of strains resistant to antibiotics: MRSA (Methicillin Resistant *Staphylococcus aureus*) and VRE (Vancomycin Resistant *Staphylococcus aureus*).

the Bacteria	the Disease
<i>Mycobacterium tuberculosis</i>	Tuberculosis
<i>Yersinia pestis</i>	Plague
<i>Clostridium botulinum</i>	Tetanus
<i>Borrelia burgdorferi</i>	Lyme Disease
<i>Bordetella pertussis</i>	Whooping Cough
<i>Vibrio cholerae</i>	Cholera
<i>Bacillus anthracis</i>	Anthrax
<i>Chlamydia trachomatis</i>	Chlamydia
<i>Mycobacterium leprae</i>	Leprosy
<i>Staphylococcus aureus</i> (MRSA or VRE)	skin infections
<i>Corynebacterium diphtheriae</i>	Diphtheria
<i>Helicobacter pylori</i>	Ulcers
<i>Moraxella gonorrhoeae</i>	Gonorrhea
<i>Salmonella typhi</i>	Typhoid Fever
<i>Rocky Mountain spotted fever</i>	Rocky Mountain Spotted Fever
<i>Neisseria meningitidis</i>	Meningitis
<i>Clostridium botulinum</i>	Botulism

The list above includes pathogenic bacteria and diseases they cause. It is not complete, but includes many common bacterial diseases.

Bacteria Study Guide

Harold Joel Conn



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