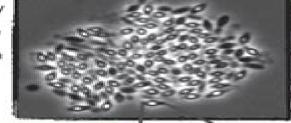
# Pathogenic Bacteria

(the bad 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 disease. 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. auneus* 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 Corymebacterium glutamicum, stained with a purple dye and viewed at 1,000x. It is a close relative of the bacteria that causes Diptheria.



Some pathogenic bacteria, like Clastricium tetani 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 shown above)- 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 Vibrio cholerae produced with a Scanning Electron Microscope (SEM).

the Bacteria	the Disease
Mycobacterium tuberculosis	Tuberculosis
Yersinia pestis	Plague
Clostridium teteni	Tetanus
Borrelia burgdorferi	Lyme Disease
Bordetella pertussis	Whopping Cough
Vibrio cholerae	Cholerae
Bacillus anthracis	Anthrax
Chlamydia trachomatis	Chlamydia
Mycobacterium leprae	Leprosy
Staphylococcus aureus (MRSA or VRSA)	skin infections
Corynebacterium diptheria	Dipthoria
Helicobacter pylori	Ulcers
Neisseria gonorrhoeae	Gonnorhea
Salmonella typhi	Typhoid Fever
Rickettsia rickettsii	Rocky Mountain Spotted Fever
Treponema pallidum	Syphilis
Clostridium botulinum	Botulism

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



\* The red petri 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 resistent to antibiotics- MRSA (Methicillin Resistant Staphylococcus aureus) and VRSA (Vancomycin Resistant Staphylococcus aureus).

# **Pathogenic Microbiology**

**Derek Bullock** 



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