

Perm State Medical University named after  
Academician E. A. Wagner  
of the Ministry of Healthcare of the Russian  
Federation

# PATHOLOGIC AND NON PATHOLOGIC GERMS IN HUMAN ORGANISM

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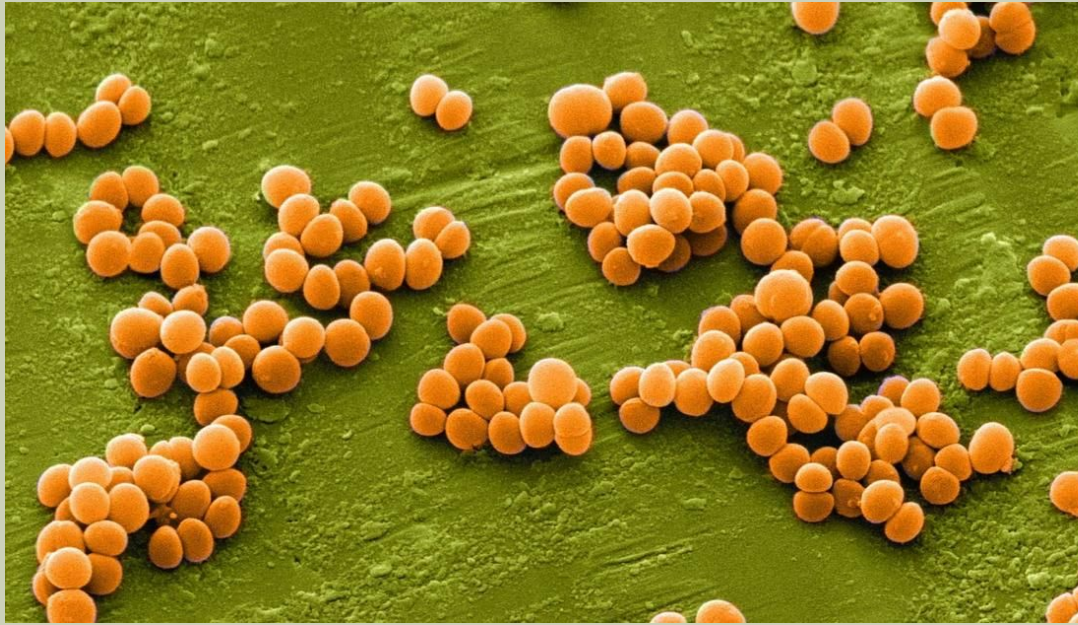
# CONTENT

1. Types of harmful bacteria
2. Staphylococcus aureus
3. Salmonella typhi
4. Clostridium tetan
5. Mycobacterium tuberculosis
6. Beneficial bacteria
7. Lactobacillus acidophilus
8. Acidophilus bifidus
9. Escherichia coli

# TYPES OF HARMFUL BACTERIA

<b>Titles</b>	<b>Habitat</b>	<b>Harm</b>
<b>Mycobacteria</b>	food, water	tuberculosis, leprosy, ulcer
<b>Tetanus rod</b>	soil, skin, digestive tract	tetanus, muscle spasms, respiratory failure
<b>Plague wand</b> (considered by experts as a biological weapon)	only in humans, rodents and mammals	bubonic plague, pneumonia, skin infections
<b>Helicobacter pylori</b>	human gastric mucosa	gastritis, peptic ulcer, produces cytotoxins, ammonia
<b>Anthrax sticks</b>	the soil	anthrax
<b>Botulism stick</b>	food, contaminated utensils	poisoning

# STAPHYLOCOCCUS AUREUS



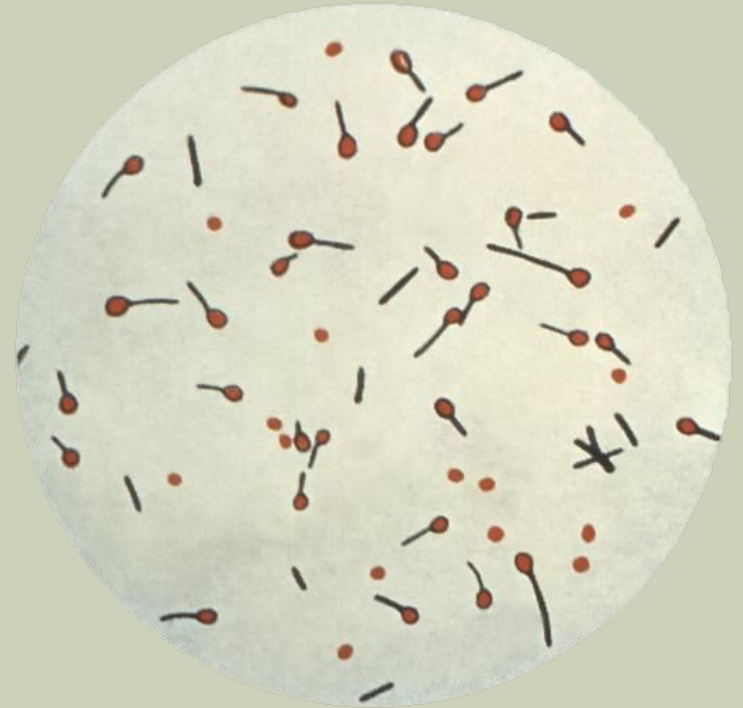
One of the most resistant bacteria is methicillin. This microorganism can cause not one, but several infectious diseases. Some types of these bacteria are resistant to powerful antibiotics and antiseptics.

# SALMONELLA TYPHI



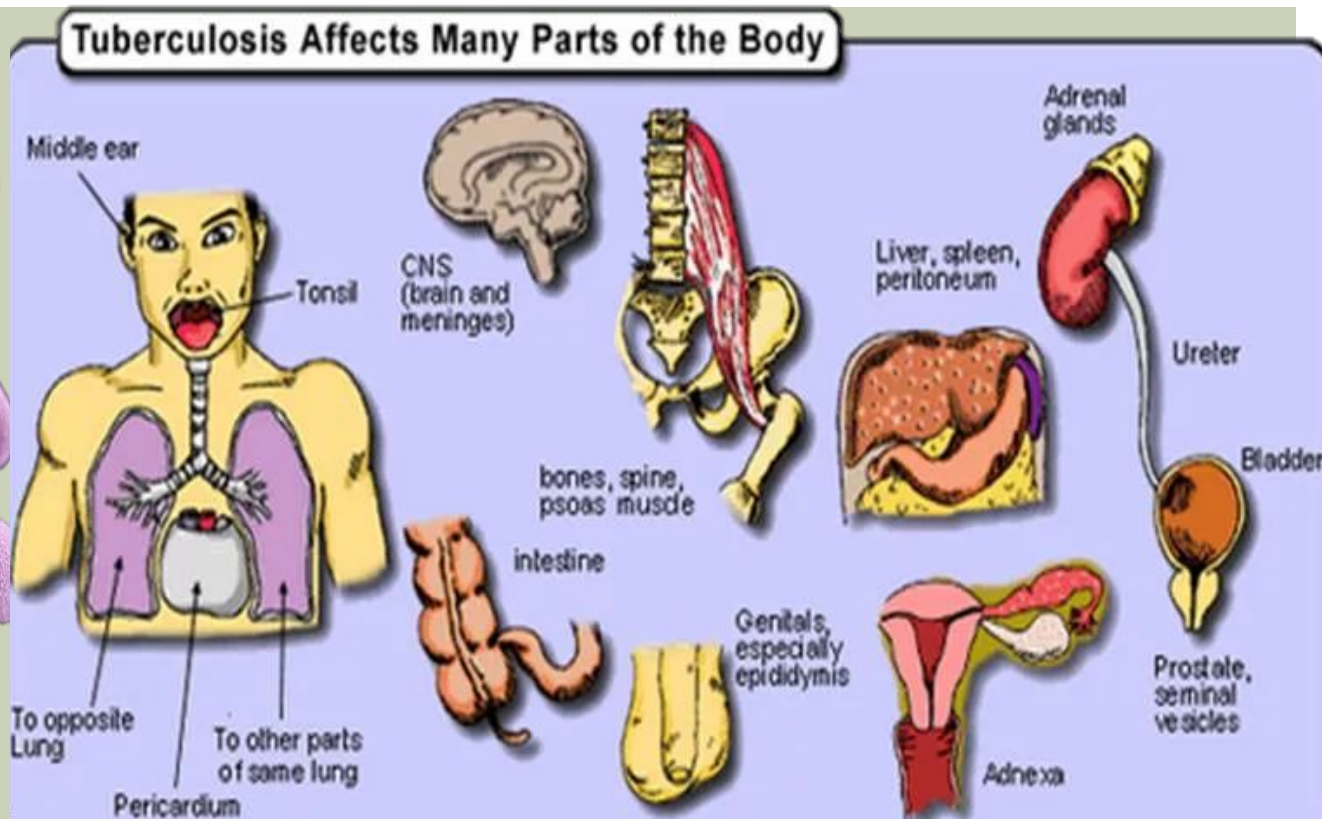
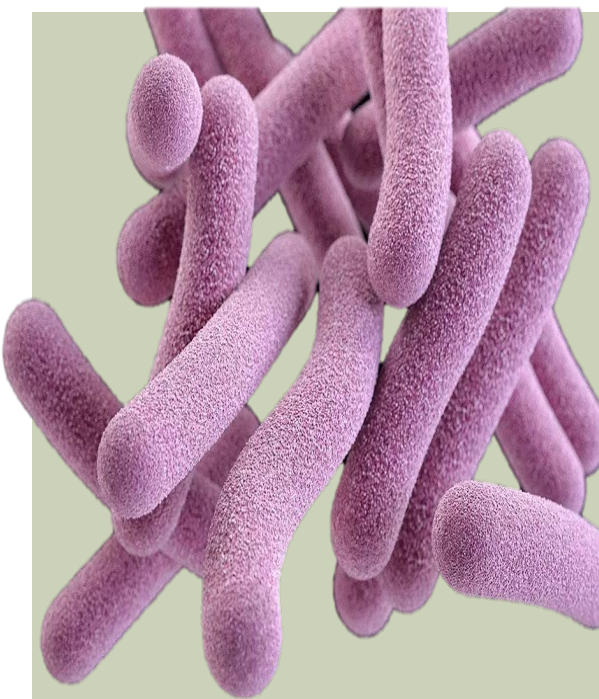
They cause an acute intestinal infections and typhoid fever. The bacterium is very resistant to various external influences. It lives well in water, on vegetables, fruits and reproduces well in milk products.

# CLOSTRIDIUM TETAN



Clostridium tetan is also one of the most dangerous bacteria. It produces a poison called tetanus exotoxin. Every year 60 thousands of people die from this disease.

# MYCOBACTERIUM TUBERCULOSIS

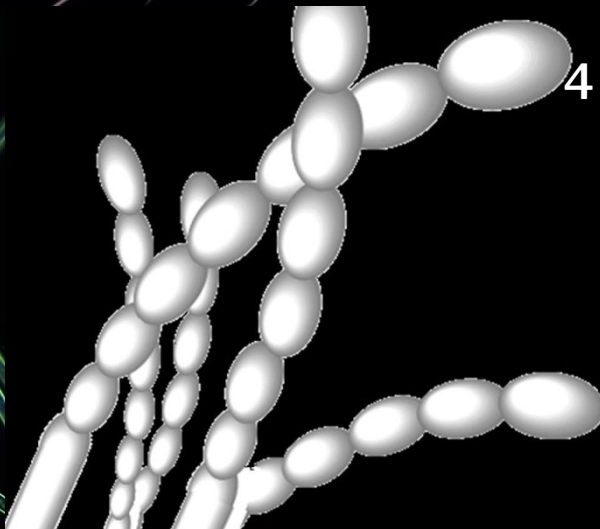
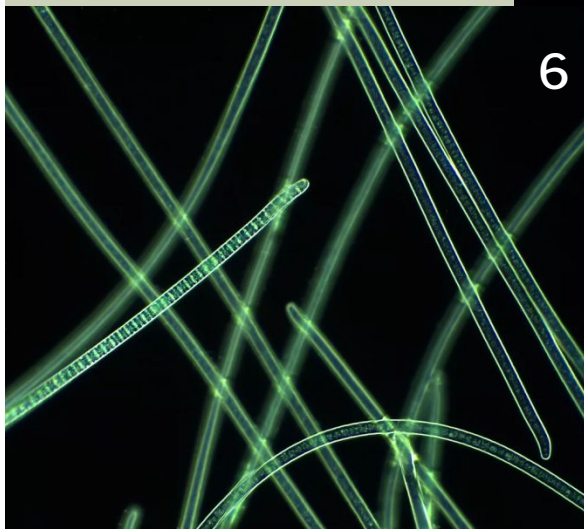
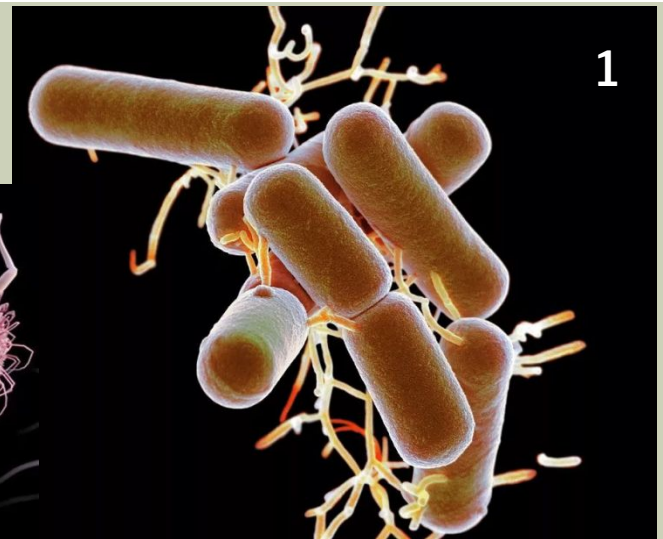


This is another bacterium that can lead to death. It causes tuberculosis, which is resistant to drugs.

# BENEFICIAL BACTERIA

There are many beneficial bacteria in human organism. For example:

1. Lactic acid,
2. Bifidobacteria,
3. Esherichia coli,
4. Streptomyces,
5. Mycorrhiza,
6. Cyanobacteria.



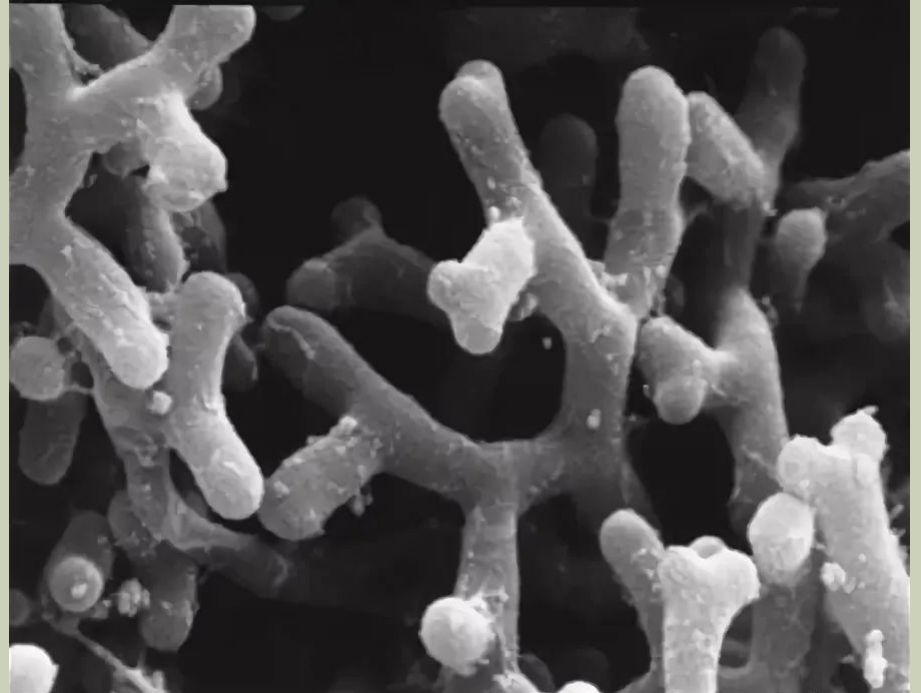
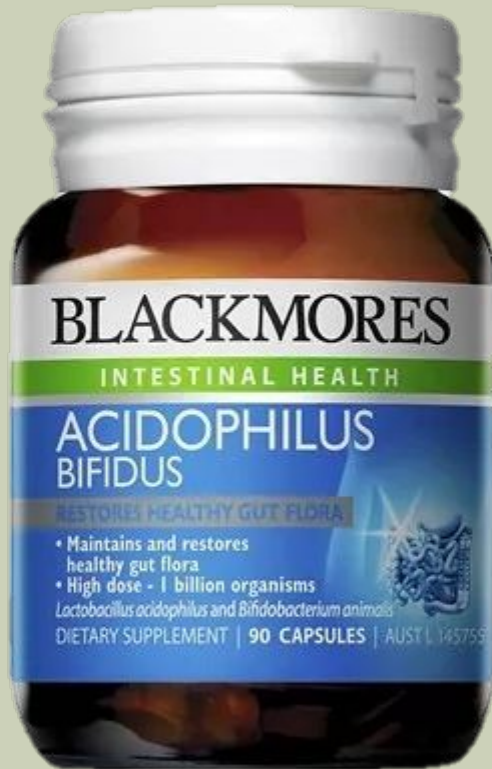


# LACTOBACILLUS ACIDOPHILUS



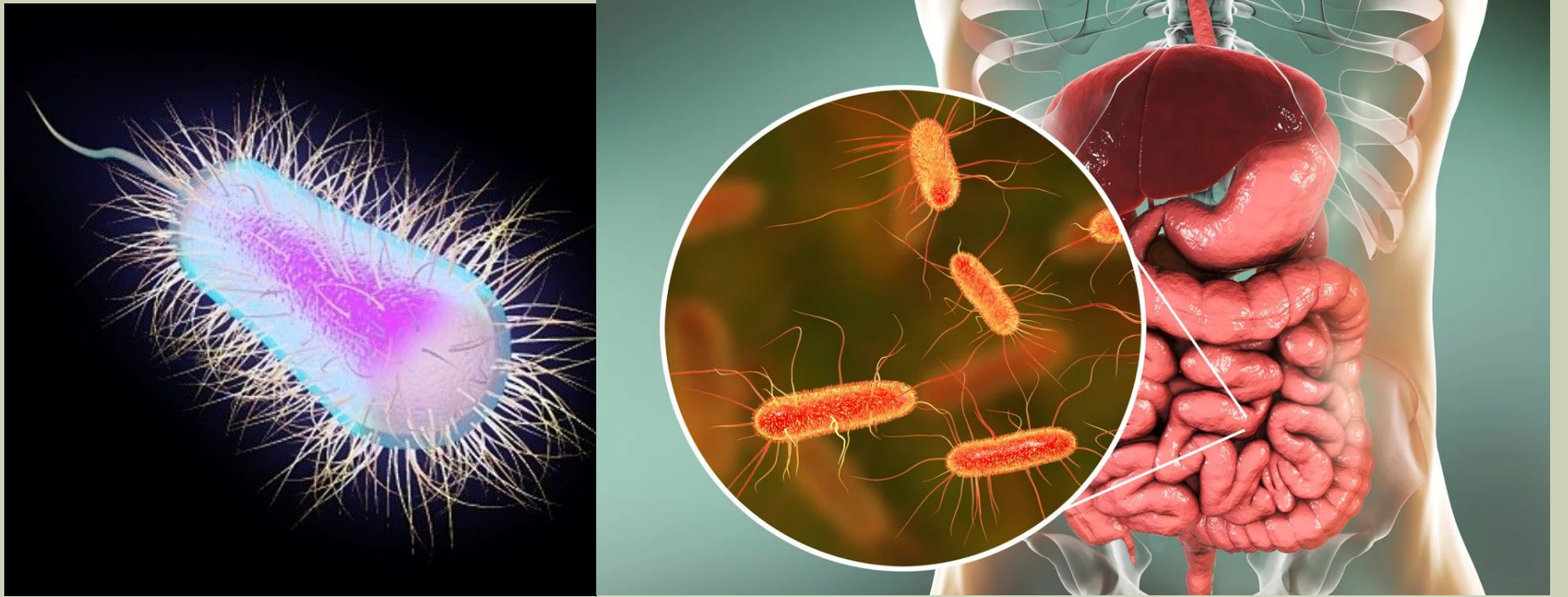
These are the most friendly bacteria. They are found in milk products, also they are added to meat, yogurt, and other dietary supplements for better results. In the human body, they are found in the oral cavity, intestine, vagina, etc.

# ACIDOPHILUS BIFIDUS



- They also help reduce the growth of pathogenic bacteria
- They help reduce cholesterol levels
- They clean the bloodstream and boost the immune system

# ESCHERICHIA COLI



Enterobacteria (colibacillus) produce substances that inhibit the growth of pathogenic viruses, bacteria, staphylococci, fungi, promote the improvement of the microflora after antibiotic treatment.

**Thank you  
for  
attention**