



**Kazakh – Russian Medical University**

# Microorganisms

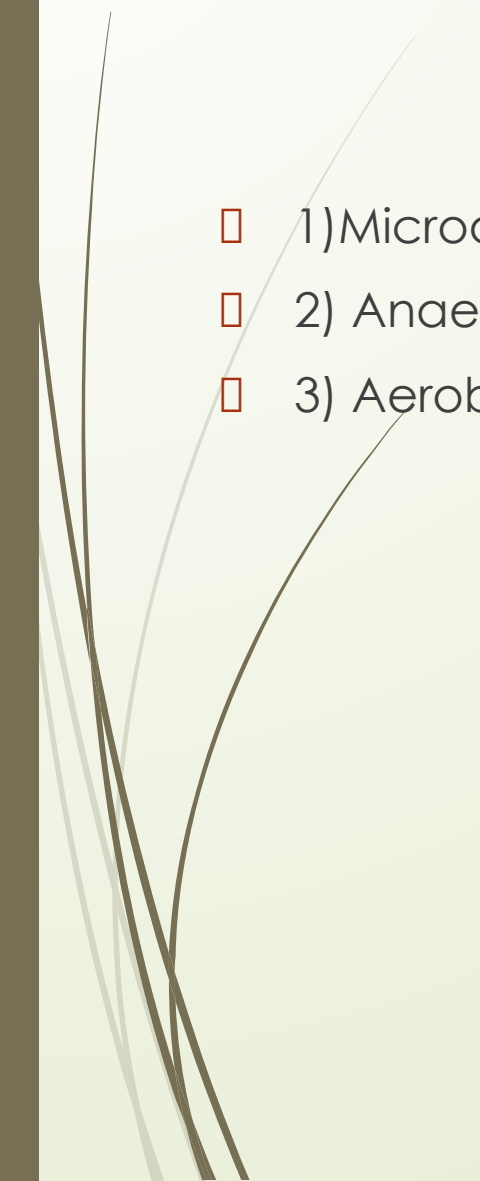
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# Plan

- 1) Microorganisms
  - 2) Anaerobic microorganisms
  - 3) Aerobic bacteria
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# Microorganisms.






# Microorganisms

- Microorganisms having a variety of different structures and biological properties. The study of the structure of organisms and their morphology and physiology, life cycles and taxonomy, heredity and variation, the relationship of microorganisms with the environment and the human body or the animal is engaged in microbiology.





□ Microorganisms having the cellular organization may apply to eukaryotes and prokaryotes. The first group includes mushrooms (Fungi parasitic) and Elementary, the second - The bacteria. Micro-organisms can be classified as non-cellular life forms - viruses, viroids and prions.

# Anaerobic bacteria

- These microorganisms may act without the presence of oxygen. The medium in which the bacteria are anaerobic, septic carrying waste rot. Bacteria are as follows: solid residues fall on the bottom, where they are slow decay is thus clarified and purified water from organic substances. After sewage sludge large amount remains in the chamber. For this reason, often anaerobic septic tank is treated using assenizatorskaya equipment. As a fertilizer, the solid residue in any case can not be used since it contains harmful bacteria to human health. Anaerobic bacteria produce methane during cleaning, so septic tank, which is used only for such purification method, characterized by an unpleasant odor. septic tank cleaning method allows to clear drains to 60-70%.



# Aerobic microorganisms

The second type of bacteria used to clean septic tanks. Work this type of bacteria is able only in the presence of oxygen environment. For this reason they are widely used on special biofilters, in the fields of filtration or in the aeration tanks. When using this kind of treatment, the septic tank is installed a special compressor which supplies oxygen wherever made aerobic bacteria. This method of cleaning maximizes remove water contaminants. And, compared with anaerobic bacteria, aerobic purification method leaves much less harmful solid deposits, so septic tank can be cleaned less frequently, and without the aid of scavengers.





Thank you