

Microbiology Study Guide

Cellular vs. Acellular Microorganisms

- Cellular microorganisms have a cell membrane, while acellular microorganisms do not.
- All living organisms have a cell membrane.
- Cellular microorganisms can be divided into prokaryotes (bacteria and archaea) and eukaryotes (fungi, protists, etc.).
- Prokaryotes lack a true nucleus, while eukaryotes have a nucleus.

Domains of Life

- The three domains of life are Bacteria, Archaea, and Eukarya.
- Bacteria and Archaea are both prokaryotes, while Eukarya are eukaryotes.
- The tree of life is based on the sequence of the 16S rRNA (prokaryotes) and 18S rRNA (eukaryotes) in the small subunit of the ribosome.

Acellular Microorganisms

- **Viruses:** Consist of nucleic acid (DNA or RNA) and a protein coat, but no cell membrane.
- **Viroids:** Consist of only single-stranded circular RNA, no protein coat.
- **Prions:** Consist of only misfolded proteins, no nucleic acid.

Evolution of Microorganisms

- Mutations can lead to positive, negative, or neutral changes.
- Horizontal gene transfer allows bacteria and archaea to share genetic information, leading to adaptation and evolution.
- Strains are slightly different variants of the same species, which can differ in biochemistry, morphology, or surface antigens.

Endosymbiosis

- Mitochondria and chloroplasts are believed to have originated from endosymbiotic relationships with bacteria.
- Mitochondria provide energy to the cell, while chloroplasts are responsible for photosynthesis in eukaryotic cells.

Key Concepts

- Microbes are found everywhere on Earth, and they play crucial roles in recycling elements and supporting life.
- Only about 3% of microbes are pathogens, while the majority are beneficial or neutral.
- Caution is needed when using absolute terms like "always" and "never" in science, as exceptions often exist.
- Microbes can evolve rapidly through mechanisms like horizontal gene transfer, posing challenges for disease treatment and prevention.

Cellular Microorganisms

- **Prokaryotes (Bacteria and Archaea):**
- Lack a true nucleus
- Transcription and translation occur in the same location (the cytoplasm)
- **Eukaryotes:**
- Have a true nucleus
- Transcription occurs in the nucleus, while translation occurs in the cytoplasm

Strains and Species

- Strains are slightly different variants of the same species
- Differences can be in:
- Biochemical properties (biobars)
- Morphology (morphobars)
- Surface antigens (serobars)
- Type strain is the first identified strain of a species

Exam Question Example

Q: Which of the following is true? A. Viruses are part of the acellular domain. B. Bacteria and archaea are both prokaryotes. C. All eukaryotes are multicellular. D. Prokaryotes are unicellular. E. All of the above are true.

The correct answer is B. Bacteria and archaea are both prokaryotes.

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web chapter 2 pressure and fluid statics pressure for a static fluid the only stress is the normal stress since by definition a fluid subjected to a shear stress must deform and undergo motion normal stresses are referred to as pressure p for the

general case the stress on a fluid element or at a point is a tensor for a static fluid

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web a water manometer used to measure pressure in the spinal fluid the height of the fluid in the manometer is measured relative to the spinal column and the manometer is open to the atmosphere the measured pressure will be considerably greater if the person sits up solution a 13 6 m water b 76 5 cm water 115

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web describe the characteristics of flow calculate flow rate describe the relationship between flow rate and velocity explain the consequences of the equation of continuity to the conservation of mass the first part of this chapter dealt with fluid statics the study of

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web what exactly is a fluid can we understand fluids with the laws already presented or will new laws emerge from their study the physical characteristics of static or stationary fluids and some of the laws that govern their behavior are the topics of this chapter

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web some points to remember when solving fluid pressure problems the pressure due to the fluid always acts perpendicular the surface a particle underwater will feel the same pressure from all directions pressure increases linearly with depth $p = \rho g h$ $p = \rho g h$ assumes a constant density and thus is valid only for incompressible

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web these concepts are key to the solution of problems in fluid statics and lead to the following two points at the same depth in a static fluid have the same pressure the orientation of a surface has no bearing on the pressure at a point in a static fluid vertical depth is a key dimension in determining pressure change in a static fluid

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web apr 9 2018 fluid statics fluid statics is the field of physics that involves the study of fluids at rest because these fluids are not in motion that means they have achieved a stable equilibrium state so fluid statics is largely about understanding these fluid equilibrium conditions when focusing on incompressible fluids such as liquids as