

Bio 63. MICROBIAL PHYSIOLOGY

2nd Semester, S/Y 2021-2022

Assignment 1. Introduction to Microbial Physiology

- A. Scope of Microbial Physiology
- B. Review of Microbial Classification and Nomenclature
- C. Review of Microbial Structures

DIRECTION: Answer the following questions briefly yet concisely. **NB.** Use another sheet for your answers.

1. What is Microbial Physiology?

- **Microbial Physiology** is the study of the relationship of microbial structures and their respective functions. It also explains the different mechanisms used by microorganisms for growth, survival, and the like.

2. A) What are the domains into which all living organisms are classified?

- **Eukarya, Bacteria, Archaea**

B) What is the main criterion used for this classification?

- The main criterion used in domain classification is the differences in the nucleotide sequences of the cell's ribosomal RNA (rRNA) as rRNA's structure undergoes very minimal changes over time but still plays the same function.

C) Describe briefly the main features of the members belonging to each domain.

Main Features of Organisms under Each of the Three Domains		
EUKARYA	BACTERIA	ARCHAEA
<p>Eukaryotes are usually multicellular and the only ones that possess a nucleus and membrane-bound organelles. Some have cell walls (e.g. plants and fungi) but such do not have peptidoglycan, unlike bacterial cells.</p> <p>In addition, they have 80S ribosomes, histones, ester-linked, unbranched fatty acids in their membrane lipids and their chromosomes are linear in shape.</p>	<p>Bacteria are unicellular and do not have a true nucleus and membrane-bound organelles. Instead, they have a nucleoid region where their singular circular chromosome resides, and inclusion bodies.</p> <p>Their cell walls are made of peptidoglycan and their ribosomes are 70S in size. Moreover, they don't have histones and their membrane lipids are made of ester-linked, unbranched fatty</p>	<p>Archaea, just like bacteria, are unicellular, do not have a nucleus and membrane-bound organelles. Their chromosomes are also circular and they also have plasmids.</p> <p>In addition, their ribosomes are 70S and they also express histones. The cell wall of archaea is composed of S-layers and lacks peptidoglycan but some especially methanogens, have pseudopeptidoglycan (pseudomurein) in them.</p>

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Cambridge Checkpoints VCE Biology Units 1 and 2 Third Edition Harry Leather, Jan Leather, 2016-02-29 A
Guide to Asking about Life for Teachers and TAs Donald L. Cronkite, 2001 **Biology/science Materials** Carolina
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Table of Contents Nd Semester Inquiry Review Answers Bio

1. Understanding the eBook Nd Semester Inquiry Review Answers Bio
 - The Rise of Digital Reading Nd Semester Inquiry Review Answers Bio
 - Advantages of eBooks Over Traditional Books
2. Identifying Nd Semester Inquiry Review Answers Bio
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nd Semester Inquiry Review Answers Bio
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nd Semester Inquiry Review Answers Bio
 - Personalized Recommendations
 - Nd Semester Inquiry Review Answers Bio User Reviews and Ratings

- Nd Semester Inquiry Review Answers Bio and Bestseller Lists
- 5. Accessing Nd Semester Inquiry Review Answers Bio Free and Paid eBooks
 - Nd Semester Inquiry Review Answers Bio Public Domain eBooks
 - Nd Semester Inquiry Review Answers Bio eBook Subscription Services
 - Nd Semester Inquiry Review Answers Bio Budget-Friendly Options
- 6. Navigating Nd Semester Inquiry Review Answers Bio eBook Formats
 - ePub, PDF, MOBI, and More
 - Nd Semester Inquiry Review Answers Bio Compatibility with Devices
 - Nd Semester Inquiry Review Answers Bio Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nd Semester Inquiry Review Answers Bio
 - Highlighting and Note-Taking Nd Semester Inquiry Review Answers Bio
 - Interactive Elements Nd Semester Inquiry Review Answers Bio
- 8. Staying Engaged with Nd Semester Inquiry Review Answers Bio
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nd Semester Inquiry Review Answers Bio
- 9. Balancing eBooks and Physical Books Nd Semester Inquiry Review Answers Bio
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nd Semester Inquiry Review Answers Bio
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nd Semester Inquiry Review Answers Bio
 - Setting Reading Goals Nd Semester Inquiry Review Answers Bio
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nd Semester Inquiry Review Answers Bio
 - Fact-Checking eBook Content of Nd Semester Inquiry Review Answers Bio
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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