

## Bio 63. MICROBIAL PHYSIOLOGY

2 nd Semester, SY 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>

# Nd Semester Inquiry Review Bio 1

**University of Chicago**

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Congress,2008 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **The Journal of Cetacean Research and Management** ,2001 **Recombinant DNA research. v. 9 |SE/MA publ 1986 MY, 1984/85** ,1986 **Quarterly Calendar** University of Chicago,1894 *Abstracts in Biocommerce* ,1991 **Sessional Papers Printed by Order of the House of Lords: Minutes of Proceedings ... Public Bills ... Reports from Committees ... Miscellaneous** Great Britain. Parliament. House of Lords,1988 Includes lists of orders rules bills etc *Alcohol Health and Research World* ,1990

**Characterization of the Physical, Chemical, and Biological Conditions and Trends in Three South Carolina Estuaries, 1970-1985: Winah Bay and North Inlet estuaries** ,1992 **Science** John Michels (Journalist),2007 A weekly record of scientific progress **AMSTAT News** American Statistical Association,2004 **Biological Reviews** Cambridge Philosophical Society,1930 **The ... Catalogue of the State University of Iowa** State University of Iowa,1963

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