

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>

Nd Semester Inquiry Review Bio 1

Marcel A. Müller



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Columbia Accident Investigation Board Report United States. Columbia Accident Investigation Board, 2003 Vols 2 6 of the CAIB's Final Report contain appendices that provide the supporting documentation for the main text of the Final Report contained in Vol 1 which was released on Aug 26 2003 These appendix materials were working documents They contain a number of conclusions and proposed recommendations several of which were adopted by the CAIB in Vol 1 The other conclusions and proposed recommendations drawn in Vols 2 6 do not necessarily reflect the views of the CAIB but are included for the record When there is conflict Vol 1 takes precedence It alone is the CAIB's official statement Columbia Accident Investigation Board: (issued with CD-ROM) United States. Columbia Accident Investigation Board, 2003

Columbia Accident Investigation Board, Report Volume 2, October 2003, * (NOTE: DISTRIBUTION LIMITED TO REGIONAL LIBRARIES ONLY). ,2004 *The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education, 1984 **Trends in Teaching Experimentation in the Life Sciences** Nancy J. Pelaez, Stephanie M. Gardner, Trevor R. Anderson, 2022-05-11 This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army* American Council on Education, 1980 **General Bulletin** University of Santo Tomás, 1971 *Calendar* Bryn Mawr College, 1896 **Bulletin** University of Northern Colorado, 1994 **The Science of Biological Specimen Preparation for Microscopy and Microanalysis, 1985** Martin Müller, Sudha A. Bhatt, 1986 *Annual Catalogue of the Officers and Students* University of Rochester, 1941 American Universities and Colleges ,2006 *Catalog* University of Colorado Boulder, 2009 Biology Teaching Methods Doris F. Falk, 1980 **Cornell University Courses of Study** Cornell University, 2007 **Science Tests and Reviews** Buros Center, 1975 Science Tests and Reviews consisting of science sections of the first seven MMYs and Tests in Print II includes

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