

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>

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McGraw-Hill's SAT Subject Test Biology E/M, 3rd Edition Stephanie Zinn, 2012-02-03 Expert guidance on the Biology E M exam Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects McGraw Hill s SAT Subject Test Biology E M is written by experts in the field and gives you the guidance you need perform at your best This book includes 4 full length sample tests updated for the latest test formats two practice Biology E exams and two practice Biology M exams 30 top tips to remember for test day Glossary of tested biology terms How to decide whether to take Biology E or Biology M Diagnostic test to pinpoint strengths and weaknesses Sample exams exercises and problems designed to match the real tests in content and level of difficulty Step by step review of all topics covered on the two exams In depth coverage of the laboratory experiment questions that are a major part of the test

Integrating Conservation Biology and Paleobiology to Manage Biodiversity and Ecosystems in a Changing World G. Lynn Wingard, Chris Schneider, Gregory P. Dietl, Damien Fordham, Policy makers and resource managers must make decisions that affect the resilience and sustainability of natural resources including biodiversity and ecosystem services However these decisions are often based on evidence or theory derived from highly altered systems and over short time periods of low magnitude environmental and climatic change Because natural systems change and evolve across multiple timescales from instantaneous to millennial long term understanding of how past life has responded to perturbations can inform resource managers By using these natural laboratories of the past conservation paleobiology and paleoecology provide the framework necessary to anticipate and plan for future changes The goal of this Research Topic is to heighten awareness among conservation and restoration practitioners to the value and applications of long term perspectives provided by conservation paleobiology and paleoecology Most conservation studies focus on systems already impacted by anthropogenic change these studies would benefit from paleontological data through expanded temporal scales identification of baselines and an understanding of how organisms have responded to past changes However resource management decisions rarely include input from paleontologists and paleoecological research is rarely incorporated into conservation decision making We seek to bridge this research implementation gap by highlighting the application of paleoecological data to issues such as biodiversity dynamics extinction risks and resilience to perturbations among other topics We hope to foster new cross disciplinary synergies by encouraging conservation scientists and managers to collaborate with paleontologists to improve conservation decision making and by increasing awareness among paleontologists to the needs of the resource management community This Research Topic will provide a forum for both the paleontological and resource management communities to exchange ideas that will enhance restoration and conservation decision making We invite papers on conceptual advances reviews of specific topics to guide efforts in research or practice case studies of successful applications articles describing datasets with applied value and perspective papers summarizing a body of paleontological research with relevance to the resource

management community Topics can include but are not limited to Responses of species communities and ecosystems to perturbations Strategies to achieve the direct integration of paleobiology and paleoecology into on ground resource management Identifying baselines and reference conditions Increasing the robustness of forecasting models through the incorporation of paleontological data Identifying key species interactions and other phenomena as indicators of impending change New methodologies analytical tools and or proxies in the application of paleontological data to conservation and restoration practice Lynn Wingard Damien Fordham and Greg Dietl have no conflicts of interest Chris Schneider has a potential conflict of interest where manuscripts pertain to stakeholders in the petroleum industry as she is an independent contractor in the Alberta Oil Sands mining area *AEC Authorizing Legislation, Fiscal Year 1968: Space nuclear systems; raw materials; biology and medicine; isotopes development; special nuclear materials; training, education, and information; program direction and administration; community; Plowshare; security; weapons; and general* United States. Congress. Joint Committee on Atomic Energy,1967 Toxicology Research Projects Directory ,1979 **House documents** ,1891

Cornell University Courses of Study Cornell University,2007 **Research in Education** ,1973-12 **Lay Sermons, Addresses, and Reviews** Thomas Henry Huxley,1888 *Inquiry in Education* Bruce M. Shore,Mark W. Aulls,2008 **The American Catholic Quarterly Review** James Andrew Corcoran,Patrick John Ryan,Edmond Francis Prendergast,1899

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