

MICROBIOLOGY

Organisms & Evolution

- Microbiology: The study of living things too small to see with the naked eye
- The three main divisions of life are Bacteria, Archaea, eukaryotes and viruses
- Most Bacteria's ability to move enables them to move through any of the three domains



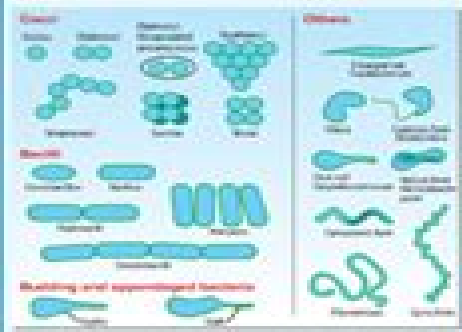
Characteristics	Bacteria	Archaea	Eukarya	Viruses
Cell	Yes	Yes	Yes	No
Protein	Yes	Yes	Yes	No
Carbohydrate	Yes	Yes	Yes	No
Lipids	Yes	Yes	Yes	No
Nucleic acid	Yes	Yes	Yes	No
Reproduction	Binary fission	Binary fission	Mitosis/Meiosis	Binary fission
Genetic material	Circular	Circular	Linear	Linear
Antibiotic resistance	Yes	Yes	Yes	No
Size	0.5 - 10 micrometers	0.5 - 10 micrometers	10 - 100 micrometers	0.1 - 0.5 micrometers
Metabolism	Autotrophic	Autotrophic	Heterotrophic	Autotrophic
Cell wall	Yes	Yes	No	No
Flagella	Yes	Yes	Yes	No
Spores	Yes	Yes	Yes	No
Pathogenicity	Yes	Yes	Yes	No
Evolution	Fast	Fast	Slow	Fast

- ### Bacteria
- Most are first cells on Earth
 - 0.5 micrometers to 10 micrometers in size
 - Can live in most environments from cold to hot
 - Flagella help move bacteria through water
 - Reproduction: binary
 - Most are autotrophic, but some are heterotrophic
 - Some are pathogenic, including viruses, in the shape of a cell and sub-cellular
 - Some are symbiotic with other bacteria species
 - Some are symbiotic with other organisms (e.g., they can live in the gut of a human)
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- ### Eukarya
- Most are single cells (e.g., yeast, algae, and protozoa) and multicellular (e.g., plants, animals, and fungi)
 - Most are eukaryotic, but some are prokaryotic
 - Most are eukaryotic, but some are prokaryotic
 - Most are eukaryotic, but some are prokaryotic
- ### Viruses
- Many are viruses, but some are not
 - Most are viruses, but some are not
 - Most are viruses, but some are not
 - Most are viruses, but some are not

Shapes & Types

Bacterial & Archaeal Cell Shapes

- Cocci: spherical
- Bacilli: rod-shaped
- Spirilli: spiral-shaped
- Phenotypes: multiple shapes in prokaryotes



- ### Growth Characteristics
- Single: single-celled organism
 - Paired: two-celled organism
 - Chain: a series of cells
 - Cluster: a group of cells
 - Spore: a reproductive cell
 - Flagella: a whip-like structure
 - Cell wall: a protective layer
 - Cell membrane: a barrier
 - Nucleus: a central organelle
 - Mitochondria: energy-producing organelles
 - Chloroplasts: photosynthetic organelles
 - Vacuoles: storage organelles
 - Lysosomes: digestive organelles
 - Golgi apparatus: a series of membranes
 - Endoplasmic reticulum: a network of membranes
 - Cytoplasm: the fluid inside the cell
 - Centrioles: organelles that divide the cell
 - Spindle fibers: structures that pull chromosomes apart
 - Chromosomes: structures that carry genetic information
 - DNA: the genetic material
 - RNA: the genetic material
 - Proteins: the building blocks of life
 - Lipids: the building blocks of life
 - Carbohydrates: the building blocks of life
 - Nucleic acids: the building blocks of life

- ### Eukaryotic Types
- Ciliates: small, single-celled organisms
 - Flagellates: single-celled organisms
 - Amoebae: single-celled organisms
 - Paramecia: single-celled organisms
 - Slime molds: single-celled organisms
 - Protozoa: single-celled organisms
 - Fungi: multicellular organisms
 - Plants: multicellular organisms
 - Animals: multicellular organisms
 - Humans: multicellular organisms



- Algae: photosynthetic organisms
- Fungi: multicellular organisms
- Plants: multicellular organisms
- Animals: multicellular organisms
- Humans: multicellular organisms

8.5 in x 11 in
21.6cm x 28cm

Microbiology Lab Study Guide Answers

SA Adler



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and nasopharyngeal specimen collections Laboratory Experiments in Microbiology Christine L. Case, Ted R. Johnson, 1984

Microbiology Jacquelyn G. Black, 1996 This text follows a body systems approach to microbiology paying attention to real life connections and covering such topics as the characteristics of microbial metabolism growth and genetics

Practical Microbiology Vasanthakumari, 2009 Teaching and Learning Through Inquiry Virginia S. Lee, 2023-07-03

Inquiry guided learning IGL refers to an array of classroom practices that promote student learning through guided and increasingly independent investigation of complex questions and problems Rather than teaching the results of others investigations which students learn passively instructors assist students in mastering and learning through the process of active investigation itself IGL develops critical thinking independent inquiry students responsibility for their own learning and intellectual growth and maturity The 1999 Boyer Commission Report emphasized the importance of establishing a firm grounding in inquiry based learning and communication of information and ideas While this approach capitalizes on one of the key strengths of research universities the expertise of its faculty in research it is one that can be fruitfully adopted throughout higher education North Carolina State University is at the forefront of the development and implementation of IGL both at the course level and as part of a successful faculty led process of reform of undergraduate education in a complex research institution This book documents and explores NCSU s IGL initiative from a variety of perspectives how faculty arrived at their current understanding of inquiry guided learning and how they have interpreted it at various levels the individual course the major the college the university wide program and the undergraduate curriculum as a whole The contributors show how IGL has been dovetailed with other complementary efforts and programs and how they have assessed its impact The book is divided into four parts the first briefly summarizing the history of the initiative Part Two the largest section describes how various instructors departments and colleges in a range of disciplines have interpreted inquiry guided learning It provides examples from disciplines as varied as ecology engineering foreign language learning history music microbiology physics and psychology It also outlines the potential for even broader dissemination of inquiry guided learning in the undergraduate curriculum as a whole Part Three describes two inquiry guided learning programs for first year students and the interesting ways in which NCSU s university wide writing and speaking program and growing service learning program support inquiry guided learning Part Four documents how the institution has supported instructors and how they have supported themselves as well as the methods used to assess the impact of inquiry guided learning on students faculty and the institution as a whole The book has been written with three audiences in mind instructors who want to use inquiry guided learning in their classrooms faculty developers considering supporting comparable efforts on their campuses and administrators interested in managing similar undergraduate reform efforts It will also appeal to instructors of courses in the administration of higher education who are looking for relevant case studies of reform While this is a model successfully implemented at a research university it is one that is relevant for all institutions of higher education

Biology/science Materials Carolina Biological Supply Company,1991 **The Publishers' Trade List Annual** ,1977
Lab World ,1976 *Books in Print Supplement* ,1985 Microbiology Black,Jacquelyn G. Black,1993 *Basic Medical Lab Techniques-Iml 4e* Estridge,Ruth Reynolds,2000-05 **Laboratory Experiments in Microbiology** Ted R. Johnson,Christine L. Case,2004 Newly revised to accompany Microbiology An Introduction Eighth Edition by Tortora Funke and Case this lab manual includes 57 experiments that demonstrate the broad spectrum of microbiology Intended as a manual of basic microbiological techniques this popular lab manual features applications for undergraduate students in diverse areas including the biological sciences the allied health sciences agriculture environmental science nutrition pharmacy and various pre professional programs Experiments have been refined in this new edition to encourage students to develop critical thinking skills as well as learn basic facts and technical skills Material with direct application to clinical and commercial labs is included wherever possible and increased emphasis is placed on lab safety Medical and Health Care Books and Serials in Print ,1997 *Books in Print* ,1994 Using Learning Logs, Laboratory Exercises and the Theme of Agricultural Science to Teach Basic Environmental Concepts Elizabeth Meyers Schanhals,1997 *Archives of Pathology & Laboratory Medicine* ,1996 *Chemistry and Industry Review* ,1957 **'American Book Publishing Record'**
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