

CHAPTER 1: INTRO TO MICROBIOLOGY

Overview of Microorganisms

- Importance
 - Most populous & diverse group of organisms
 - Found everywhere on the planet
 - Role in recycling of essential elements
 - Source of nutrients & some carry out photosynthesis
 - Benefit society
 - Food production
 - Beverages
 - Antibiotics
 - Vitamins
 - Some are disease-causing in people, plants, or animals
- Characteristics
 - Generally < 1mm & too small to be seen with the naked eye
 - Simple in construction
 - Lack differentiated tissues
 - Unicellular (typically)
- Divisions
 - Cellular
 - Fungi
 - Yeast: unicellular
 - Molds & mushrooms: multicellular
 - Protoists
 - Algae: photosynthetic
 - Protozoa: may be motile, hunters & grazers
 - Slime molds: 2 life cycle stages
 - Water molds: devastating disease in plants
 - Bacteria
 - Don't reproduce sexually
 - Referred to as "strains" = descendants of a single, pure microbial culture
 - Archaea
 - Don't reproduce sexually
 - Referred to as "strains" = descendants of a single, pure microbial culture
 - Acellular = at some point, they are not the form of a cell & cannot replicate
 - Viruses
 - Smallest microbes
 - Require a host
 - Cause range of diseases, cancers
 - Viroids
 - Infectious agents composed of RNA
 - Satellite
 - Nucleic acid enclosed by protein shell
 - Coinfects host with a virus to complete life cycle
 - Prions
 - Infectious proteins
- Types of microbial cells
 - Prokaryotic cells
 - Lack true membrane-bound nucleus
 - Eukaryotic cells
 - Membrane-enclosed nucleus
 - Complexity

Microbiology Exam 1 Study Guide

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USMLE Step 1 Qbook Kaplan Medical, 2022-04-05 Kaplan Medical's USMLE Step 1 Qbook provides high yield exam style practice and effective test taking strategies to help you master all Step 1 topics Our experts regularly review content to make sure you have the most up to date prep realistic practice materials and current test information so you can face the USMLE with confidence The Best Review 850 exam like practice questions you won't find anywhere else Explanations for each correct and incorrect answer choice 17 high yield exam relevant practice sets in Anatomy Physiology Biochemistry Microbiology Immunology Pathology Pathophysiology Pharmacology and Behavioral Science Biostatistics Test taking strategies for every question type Study techniques to maximize your limited preparation time

REHS/RS Study Guide: A Guide for Environmental Health Responsibilities and Competencies (5th edition) National Environmental Health Association (NEHA), 2024-01-01 The REHS RS Study Guide reflects the most recent changes and advancements in environmental health technologies and theories Incorporating the insights of 29 subject matter experts from across academia industry and the regulatory community paired with references from over 30 scholarly resources this essential reference is intended to help those seeking to obtain the NEHA Registered Environmental Health Specialist Registered Sanitarian Credential Table of Contents General Environmental Health Statutes and Regulations Food Protection Potable Water Wastewater Solid and Hazardous Waste Hazardous Materials Zoonoses Vectors Pests and Poisonous Plants Radiation Protection Occupational Safety and Health Air Quality and Environmental Noise Housing Sanitation and Safety Institutions and Licensed Establishments Swimming Pools and Recreational Facilities Emergency Preparedness

Preventing Occupational Exposures to Infectious Disease in Health Care Amber Hogan Mitchell, 2020-09-22 This book is a practical guide for preventing occupational exposures to bloodborne and infectious disease in health care It is a timely and essential resource given that people working in healthcare settings sustain a higher incidence of occupational illness than any other industry sector and at the time of publication of this book we are in the midst of a global pandemic of COVID 19 While the guide is focused on health care primarily it would be useful for preventing exposures to essential workers in many other industries as well The guide offers easy to follow instruction all in one place for creating implementing and evaluating occupational health and safety programs Readers have practical information that they can use now to either build a new program or expand an existing one that protects workers from occupationally associated illness and infection With a focus on the public health significance of building better safer programs in health care the book provides not just the evidence based or data driven reasoning behind building successful programs but also includes sample programs plans checklists campaigns and record keeping and surveillance tools Topics explored among the chapters include Occupational Safety and Health Administration OSHA Regulatory Compliance Other Regulatory Requirements National Standards and Accreditation Performing a Hazard Assessment and Building an Exposure Control Plan Engineering Controls and Safer Medical Devices

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