

MICROBIOLOGY PHYSIOLOGY

NRG 107- Microbiology and Parasitology

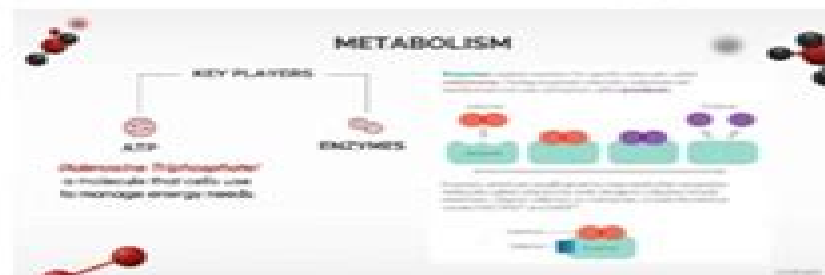
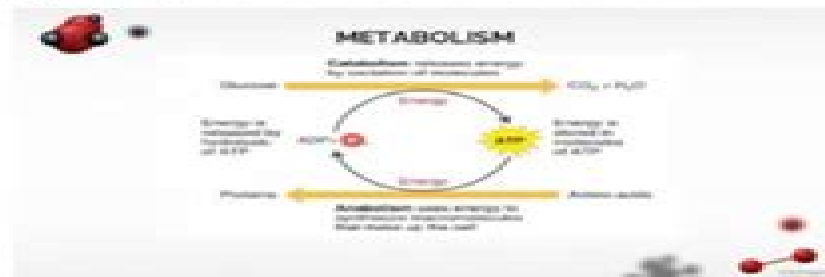
LEARNING TARGETS:

1. **PHYSIOLOGY.** The study of how microbial structures, growth and metabolism function in living organisms.
2. **NUTRITION.** Substances that are acquired from the environment and are used for growth and metabolism.
3. **GROWTH AND CONTROL.** Involves sterilization, disinfection, antisepsis, sanitation, or degerming.

PHYSIOLOGY

INTRODUCTION

Microbial Physiology has traditionally played a very important role in both fundamental research and in industrial applications of microorganism. The classical approach in microbial physiology has been to analyze the role of individual components (genes or proteins) in the overall cell function.



IMPORTANT PROCESSES

- **CARBOHYDRATE METABOLISM**
 - **CELL RESPIRATION**
 - Aerobic
 - Glycolysis
 - Krebs Cycle
 - Electron Transport Chain (*1 glucose mol. – 38 ATP*)
 - **FERMENTATION**
 - Anaerobic
 - Glycolysis
 - End products are Lactic or Ethanol (*1 glucose mol. – 2 ATP*)
- **LIPID METABOLISM**
 - Lipids are first broken down into components fatty acids and glycerol by *lipases*.
 - Each component can then enter the Krebs Cycle.
- **PROTEIN METABOLISM**
 - *Proteases* and *peptidases* break down protein into Amino Acids.
 - Amino acids must undergo enzymatic conversion into substances that can enter Krebs Cycle.

METABOLIC DIVERSITY

- **PHOTOTROPHS-** Light as energy source
- **CHEMOTROPHS-** Oxidation reduction of inorganic and organic compounds
- **AUTOTROPHS-** self-feeders; capable of producing its own food.
- **HETEROTROPHS-** Consumers; organisms that eats other plants or animals for energy and nutrients.

NOTE: most medical important organisms are the **CHEMOTOTROPHS**, because typically, infectious

Microbiology Physiology And Metabolism

Rani Gupta, Namita Gupta



Microbiology Physiology And Metabolism:

Microbial Physiology & Metabolism Daniel R. Caldwell,1995 This new textbook offers an introduction to microbial physiology for students with a background in microbiology physiology and biochemistry **Fundamentals of Bacterial Physiology and Metabolism** Rani Gupta,Namita Gupta,2021-04-20 This book provides useful information on microbial physiology and metabolism The key aspects covered are prokaryotic diversity growth physiology basic metabolic pathways and their regulation metabolic diversity with details of various unique pathways Another focus area is stress physiology with details on varying environmental stresses signal transduction adaptation and survival For instructional purposes the book provides case studies interesting facts techniques etc which help in showcasing the inter disciplinary nature and bridge the gap between various aspects of applied microbiology Microbial Physiology and Metabolism Daniel R. Caldwell,1995-01-01

Microbial Physiology and Metabolism Vikas Chaudhary,2008-01-01 Bacterial Physiology and Metabolism Byung Hong Kim,Geoffrey Michael Gadd,2008-02-21 Recent determination of genome sequences for a wide range of bacteria has made in depth knowledge of prokaryotic metabolic function essential in order to give biochemical physiological and ecological meaning to the genomic information Clearly describing the important metabolic processes that occur in prokaryotes under different conditions and in different environments this advanced text provides an overview of the key cellular processes that determine bacterial roles in the environment biotechnology and human health Prokaryotic structure is described as well as the means by which nutrients are transported into cells across membranes Glucose metabolism through glycolysis and the TCA cycle are discussed as well as other trophic variations found in prokaryotes including the use of organic compounds anaerobic fermentation anaerobic respiratory processes and photosynthesis The regulation of metabolism through control of gene expression and control of the activity of enzymes is also covered as well as survival mechanisms used under starvation conditions **Microbial Physiology** Albert G. Moat,John W. Foster,Michael P. Spector,2002-07-19 The Fourth Edition of Microbial Physiology retains the logical easy to follow organization of the previous editions An introduction to cell structure and synthesis of cell components is provided followed by detailed discussions of genetics metabolism growth and regulation for anyone wishing to understand the mechanisms underlying cell survival and growth This comprehensive reference approaches the subject from a modern molecular genetic perspective incorporating new insights gained from various genome projects Microbial Physiology and Metabolism Mr. Rohit Manglik,2024-07-30 Offers a detailed examination of microbial life processes metabolic pathways and physiological mechanisms crucial for microbiology students and researchers

Fundamentals of Bacterial Physiology and Metabolism Rani Gupta,Namita Gupta,2021 This book provides useful information on microbial physiology and metabolism The key aspects covered are prokaryotic diversity growth physiology basic metabolic pathways and their regulation metabolic diversity with details of various unique pathways Another focus area is stress physiology with details on varying environmental stresses signal transduction adaptation and survival For

instructional purposes the book provides case studies interesting facts techniques etc which help in showcasing the interdisciplinary nature and bridge the gap between various aspects of applied microbiology **Microbial Sulfur Metabolism**

Christiane Dahl, Cornelius G. Friedrich, 2007-09-09 In nature sulfur occurs in many different oxidation states and is one of the most versatile elements in life It is an integral part of many important cell constituents such as the amino acids cysteine and methionine and many sulfur compounds serve as the basis for energy related processes in prokaryotes In recent years new methods have been applied to study the biochemistry and molecular biology of reactions of the global sulfur cycle the microorganisms involved and their physiology metabolism and ecology These activities have uncovered fascinating new insights for the understanding of aerobic and anaerobic sulfur metabolism *Chemical Microbiology* A. H. Rose, 2014-05-20

Chemical Microbiology An Introduction to Microbial Physiology Third Edition covers aspects of the chemical activities of microorganisms The book describes the molecular architecture of microorganisms the methods used in studying this molecular architecture and the ways by which microorganisms can respond to and modify their environment The text also discusses the various environmental factors that influence microbial activity The book tackles the principles the strategies employed and the methods used in the studies of microbial metabolism The transport of compounds into and out of microorganisms by the solute transport processes and endocytosis the principles of bioenergetics and biosynthesis and the regulation of metabolism are also considered The book tackles as well the growth survival and differentiation of microorganisms Biologists microbiologists chemical microbiologists geneticists and biochemists will find this book invaluable

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