Chapter 14 Glycolysis, Gluconeogenesis, and the Pentose Phosphate Pathway

Multiple Choice Questions

1. Glycolysis

Page: 522 Difficulty: 2 Ans: D

Glycolysis is the name given to a metabolic pathway occurring in many different cell types. It consists of 11 enzymatic steps that convert glucose to lactic acid. Glycolysis is an example of:

- A) aerobic metabolism.
- B) anabolic metabolism.
- C) a net reductive process.
- D) fermentation.
- E) oxidative phosphorylation.

2. Glycolysis

Page: 523 Difficulty: 1 Ans: C

The anaerobic conversion of 1 mol of glucose to 2 mol of lactate by fermentation is accompanied by a net gain of:

- A) I mol of ATP.
- B) I mol of NADH.
- C) 2 mol of ATP.
- D) 2 mol of NADH.
- E) none of the above.

3. Fates of pyruvate under anaerobic conditions: fermentation

Page: 523 Difficulty: 1 Ans: E

During strenuous exercise, the NADH formed in the glyceraldehyde 3-phosphate dehydrogenase reaction in skeletal muscle must be reoxidized to NAD* if glycolysis is to continue. The most important reaction involved in the reoxidation of NADH is:

- A) dihydroxyacetone phosphate -> glycerol 3-phosphate
- B) glucose 6-phosphate → fructose 6-phosphate
- C) isocitrate → α-ketoglutarate
- D) oxaloacetate → malate
- E) pyruvate → lactate

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E. Doll, D. Keppler, J. Keul

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The Absolute, Ultimate Guide to Lehninger Principles of Biochemistry 4e Marcy Osgood, Karen Ocorr, 2005 This undergraduate textbook describes the structure and function of the major classes of cellular constituents and explains the physical chemical and biological context in which each biomolecule reaction and pathway operates The fourth edition adds a chapter on the regulation of metabolism reflects recent advances and incorporates new experimental methodologies and an expanded and redesigned treatment of reaction mechanisms Annotation 2004 Book News Inc Portland OR booknews com

Lehninger Principles of Biochemistry David L. Nelson, Albert L. Lehninger, Michael M. Cox, 2008-02 Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom introducing exciting new developments while communicating basic principles of biochemistry The Absolute, Ultimate Guide to Lehninger Principles of Biochemistry Marcy Osgood, Karen A. Ocorr, 2008-04-04 The Absolute Ultimate Guide combines an innovative study guide with a reliable solutions manual in one convenient printed volume Lehninger Principles of Biochemistry Albert L. Lehninger, David L. Nelson, Michael M. Cox, 2005 CD ROM includes animations living graphs biochemistry in 3D structure tutorials Biology Bulletin of the Academy of Sciences of the USSR. Akademii □a□ nauk SSSR.,1976 V5 R Whitcomb, 2012-12-02 The Mycoplasmas Volume V Spiroplasmas Acholeplasmas and Mycoplasmas of Plants and Arthropods focuses on existing knowledge and recent development in research on spiroplasmas acholeplasmas and other mollicutes of plants and arthropods Organized into 11 chapters this volume discusses the nutrition cultivation ecology and molecular and cellular biology of spiroplasmas Because the occurrence of other mollicutes mycoplasma and acholeplasma in plant and arthropod environments is not extensively discussed in other volumes this volume shows the rapid progress in describing the new mollicutes from arthropods and plant surface that they contaminate Molecular studies of mollicute phylogeny and plant infections incited by the so called mycoplasma like organisms are also presented This book will provide a comprehensive reference source for all mycoplasmologists and a relevant and exhaustive summary of recent advances in the study of spiroplasmas acholeplasmas and mycoplasmas in plant and arthropod hosts for microbiologists cellular and molecular biologists plant pathologists and entomologists **Regulation of Cell Metabolism** G. E. W. Wolstenholme, Cecilia M. O'Connor, 2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world *Organic geochemistry of natural waters* E.M. Thurman, 2012-12-06 This book is written as a reference on organic substances in natural waters and as a supplementary text for graduate students in water chemistry. The chapters address five topics amount origin nature geochemistry and characterization of organic carbon Of these topics the main themes are the amount and nature of dissolved organic carbon in

natural waters mainly fresh water although seawater is briefly discussed It is hoped that the reader is familiar with organic chemistry but it is not necessary. The first part of the book is a general overview of the amount and general nature of dissolved organic carbon Over the past 10 years there has been an exponential increase in knowledge on organic substances in water which is the result of money directed toward the research of organic compounds of new methods of analysis such as gas chromatography and mass spectrometry and most importantly the result of more people working in this field Because of this exponential increase in knowledge there is a need to pull together and summarize the data that has accumulated from many disciplines over the last decade Photoassimilate Distribution Plants and Crops Source-Sink Relationships Eli Zamski, Arthur A. Schaffer, 2017-09-29 Adopting an interdisciplinary approach to the study of photoassimilate partitioning and source sink relationhips this work details the major aspects of source sink physiology and metabolism the integration of individual components and photoassimilate partitioning and the whole plant source sink relationships in 16 agriculturally important crops The work examines in detail the components of carbon partitioning such as ecology photosynthesis loading transport and anatomy and discusses the impact of genetic environmental and agrotechnical factors on the parts of whole plant source link physiology Horizons of Bioenergetics Anthony San Pietro, Howard Gest, 2014-06-28 Horizons of Bioenergetics provides information pertinent to the fundamental aspects of bioenergetics This book covers a variety of topics including oxidative phosphorylation energy conservation ATP formation metabolic regulation glycolysis and photosynthesis efficiency Organized into five sessions encompassing 23 chapters this book begins with an overview of the major landmarks in biochemical evolution that are most relevant to the discussion on bioenergetics. This text then reviews the knowledge about ATP generation by substrate level phosphorylation by anaerobic bacteria that ferment organic compounds Other chapters consider the resolution and reconstitution of oxidative phosphorylation This book discusses as well another energy requiring activity associated with electron transport in mitochondria that may take primacy over oxidative phosphorylation The final chapter deals with the possibility that conformational change can induce major shifts in electro chemical potential and provide a mechanism for energy storage and conversion This book is a valuable resource for biochemists scientists and Basic Exercise Physiology Moran S. Saghiv, Michael S. Sagiv, 2020-08-26 This book reviews the research workers assessment of human performance and the role of different exercise modes both in a laboratory and clinical setting Details of how to successfully perform basic laboratory procedures for exercise training in health and disease as well as how to apply non invasive measurements in exercise physiology are provided Chapters cover how to appropriately use a range of measures in assessing pulmonary function anaerobic function and oxygen uptake Techniques for cardiopulmonary rehabilitation and the mechanisms associated with thermoregulation are also described Interactive exercises enable readers to easily assimilate key concepts and develop a thorough understanding of the topic Basic Exercise Physiology provides both trainees and professional healthcare staff interested in exercise physiology with a detailed and practically applicable resource on the topic

Systems Biology in Cancer Research and Drug Discovery Asfar S Azmi, 2012-09-29 Systems Biology in Cancer Research and Drug Discovery provides a unique collection of chapters by world class researchers describing the use of integrated systems biology and network modeling in the cancer field where traditional tools have failed to deliver expected promise This book touches four applications aspects of systems biology i in understanding aberrant signaling in cancer ii in identifying biomarkers and prognostic markers especially focused on angiogenesis pathways iii in unwinding microRNAs complexity and iv in anticancer drug discovery and in clinical trial design This book reviews the state of the art knowledge and touches upon cutting edge newer and improved applications especially in the area of network modeling It is aimed at an audience ranging from students academics basic researcher and clinicians in cancer research This book is expected to benefit the field of translational cancer medicine by bridging the gap between basic researchers computational biologists and clinicians who have one ultimate goal and that is to defeat cancer The Health Benefits of Ribose Paul Addis, 2007-07-01 Discusses the importance of ribose a naturally occurring sugar produced in the body from glucose **Proceedings of the** International Symposium on Theoretical Biophysics and Biomathematics ,1997 Invertebrate Biology P. Calow, 2012-12-06 Courses on the invertebrates have two principal aims 1 to introduce students to the diversity of animal life and 2 to make them aware that organisms are marvellously integrated systems with evolutionary pasts and ecological presents This text is concerned exclusively with the second aim and assumes that the reader will already know something about the diversity and classification of invertebrates Concepts of whole organism function metabolism and adaptation form the core of the subject matter and this is also considered in an ecological setting Hence the approach is multi disciplinary drawing from principles normally restricted to comparative morphology and physiology ecology and evolutionary biology Invertebrate courses as with all others in a science curriculum also have another aim to make students aware of the general methods of science And these I take to be associated with the so called hypothetico deductive programme Here therefore I make a conscious effort to formulate simple some might say naive hypotheses and to confront them with quantitative data from the real world There are for example as many graphs in the book as illustrations of animals My aim though has not been to test out the principles of Darwinism but rather to sharpen our focus on physiological adaptations given the assumption that Darwinism is approximately correct Whether or not I succeed remains for the reader to decide **Energy Metabolism** of Human Muscle E. Doll, D. Keppler, J. Keul, 1972-06-29 Host Bibliographic Record for Boundwith Item Barcode Research Bulletin Walter Ford Williams, 1956 30112088706624,2013 **Environmental Physiology and Shelter** Engineering with Special Reference to Domestic Animals Edward Ernest Pickett, F. J. Grunfeld, Frederick Griffith Teubner, Henry E. Bredeck, Robert Emmet McDermott, Robert Gilbert Yeck, Samuel Brody, 1955 Research Bulletin University of Missouri--Columbia. Agricultural Experiment Station, 1956

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