

Biology 313: Physiology Lab & Recitation
Final Exam Study Guide

Lab Week 2: Cyanide and Electron Transport

Measure effects of cyanide on the electron transport train

- Spectrophotometer: optical instrument to measure intensity of light relative to wavelength
 - Transmittance vs. absorbance
 - (T), amount of light that is transmitted, passes through to the other side
 - (A), amount of light that is absorbed
 - Blanks are used to calibrate the spectrophotometer readings, zeroes out scale
- DCIP: a dye to measure redox reactions
 - Dye will change from blue to clear when reduced
 - Redox reactions occur when electrons are transferred from compounds with more negative redox potentials (E_o) to more positive
 - Donor is oxidized (negative)
 - Recipient is reduced (positive)
 - Electrons transferred from (negative) $\rightarrow$ (positive)

Compound	E_o (V)
Succinate	-0.67
FAD	-0.180
Cytochrome C	+0.22
O_2	+0.82

- Compounds above greater than E_o indicated cannot reduce
- Results
 - $Y = -0.033x + 0.675$, $r^2 = 0.88$
 - $Y = mx + b$
 - $Y =$ absorbance
 - $x =$ time
 - $m =$ slope $= \Delta \text{absorbance} / \Delta \text{time}$
 - $b =$ initial value of absorbance
 - $r^2 =$ correlation coefficient, measures the goodness of fit
- Succinate $\rightarrow$ FADH $\rightarrow$ Cytochrome C $\rightarrow$ O_2
 - Cyanide inhibits transfer of electron from cytochrome C to oxygen
 - DCIP gets electrons from FADH
- Cyanide and electron transport
 - Cyanide blocks transfer of electrons from Cytochrome C to O_2
 - Decreases rate of absorbance
 - Increases rate of electron flow to DCIP
 - When electrons flow to O_2 , electrons move away from upstream reagents thus becoming less reduced
 - When electron flow to O_2 is inhibited by cyanide, electrons moves towards upstream reagents ("back-up") thus becoming more reduced— more electrons are available to DCIP

Lab Final Exam Physiology Ucf Study Guide

M Walker



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Principles of Human Physiology Lab Manual Geoffrey Goellner,Penny Knoblich,Rachel Cohen,2014-12-23 A Laboratory Manual and Study Guide for Anatomy and Physiology Kenneth G. Neal,Barbara H. Kalbus,1976 Anatomy and Physiology II Lab Manual Christopher Hardy,Megan Hardy,Alison McDelan,Mary McDade,2015-08-18 This lab manual is designed for the second semester of a two semester Anatomy and Physiology sequence and like its counterpart in the Anatomy and Physiology I Lab Manual it is specifically tailored for students planning to enter health related or athletically related professions Topics include the nervous system reflexes the cardiovascular system muscle physiology general and special senses the respiratory system sexually transmitted infections and basic genetics Numerous full color photos throughout the manual assist students in identification of laboratory specimens and completion of various laboratory exercises A unique aspect to this Anatomy and Physiology lab manual is the integration of Clinical Applications in each chapter which apply content under study to real life situations Clinical application topics include pathophysiology as well as other non pathology related topics which still have clinical significance These sections often provide the answers to the So What Who Cares or Why is this important questions students often ask when learning the concepts and details of anatomy Additionally a number of personal stories are included in the clinical applications or the introductory sections of various chapters All of

these personal stories are true most were written by the individual who experienced the events described and they generally put a more personal spin on the disorders described Each chapter has clearly written lab activities including step by step instructions diagrams and photos and background content needed to allow students to fully understand the concepts explored in lab Activities encourage hands on exploration and active learning Each chapter includes integrated tear out pre lab activities to prepare students for lab as well as review pages to be completed following the lab Many of these assignments require application of content to various clinical situations and are designed to stimulate critical thinking skills and creative problem solving The design of this lab manual incorporates the authors beliefs that the use of many senses when learning hearing seeing touching etc engages more areas of the brain increasing brain activity and enhancing learning Thus all lab activities involve using a variety of senses to enhance learning for all types of learners 442 pages *Anatomy and Physiology II Lab Manual* C. Evans,M. Lizz,A. McDelan,M. McDade,2019-06-20 This lab manual is designed for the second semester of a two semester Anatomy and Physiology sequence and like its counterpart in the Anatomy and Physiology I Lab Manual it is specifically tailored for students planning to enter health related or athletically related professions Topics include the nervous system reflexes the cardiovascular system muscle physiology general and special senses the respiratory system sexually transmitted infections and basic genetics Numerous full color photos through out the manual assist students in identification of laboratory specimens and completion of various laboratory exercises A unique aspect to this Anatomy and Physiology lab manual is the integration of Clinical Applications in each chapter which apply content under study to real life situations Clinical application topics include pathophysiology as well as other non pathology related topics which still have clinical significance These sections often provide the answers to the So What Who Cares or Why is this important questions students often ask when learning the concepts and details of anatomy Additionally a number of personal stories are included in the clinical applications or the introductory sections of various chapters All of these personal stories are true most were written by the individual who experienced the events described and they generally put a more personal spin on the disorders described Each chapter has clearly written lab activities including step by step instructions diagrams and photos and background content needed to allow students to fully understand the concepts explored in lab Activities encourage hands on exploration and active learning Each chapter includes integrated tear out pre lab activities to prepare students for lab as well as review pages to be completed following the lab Many of these assignments require application of content to various clinical situations and are designed to stimulate critical thinking skills and creative problem solving The design of this lab manual incorporates the authors beliefs that the use of many senses when learning hearing seeing touching etc engages more areas of the brain increasing brain activity and enhancing learning Thus all lab activities involve using a variety of senses to enhance learning for all types of learners 442 pages *Essentials of Anatomy & Physiology* Michael G. Wood,1997 Developed for use in conjunction with Martini s *Essentials of Anatomy and Physiology* and other standard anatomy and

physiology texts this laboratory manual contains descriptive text an art programme and laboratory procedures that guide students through traditional lab activities It follows a body systems approach with an emphasis on student activities and laboratory safety

Basic Study Guide and Laboratory Manual for Anatomy and Physiology Kenneth G. Neal,Barbara H. Kalbus,1978 *Laboratory Manual in Physiology and Anatomy* Ellen E. Chaffee,1963 A Study and Laboratory Guide for Anatomy and Physiology Edward A. DeSchuytner,H. Kenrick Holden,1976 Anatomy and Physiology Laboratory Manual and Study Guide, Etc Barry Griffith KING (and ROSER (Helen Maria)),Helen Maria ROSER,1939 **Laboratory Guide to accompany Human Physiology** Stuart Fox,2008-10-22

A Laboratory Guide to Human Physiology 13th Edition is a stand alone human physiology manual that can be used in conjunction with any human physiology textbook It includes a wide variety of exercises that support most areas covered in a human physiology course allowing instructors the flexibility to choose those exercises best suited to meet their particular instructional goals Background information that is needed to understand the principles and significance of each exercise is presented in a concise manner so that little or no support is needed from the lecture text

Student Study Guide Anatomy & Physiology Cinnamon VanPutte,2010-06-08 The Study Guide written by the text authors provides chapter summaries detailed illustrations and a wide variety of self study questions exercises and multiple choice problems with solutions

Ganong's Physiology Examination and Board Review Jane F. Reckelhoff,Dr Kim E. Barrett, PhD,Susan M. Barman,Scott Boitano,2017-08-31

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Anatomy and Physiology. Laboratory Manual and

Study Guide, Etc Mary Jane C. Showers, Edwin Dale, 1966 **Anatomy and Physiology. Laboratory Manual and Study Guide** Irene MACKEAN, 1958 **Laboratory Manual in Physiology and Anatomy, with Study Guide Questions and Practicl Applications** Ellen E. Chaffee, 1963

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