

Fourth Edition

Biochemistry Primer for Exercise Science



Peter M. Tildus
A. Russell Tupling
Michael E. Houston

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Ron J. Maughan, Michael Gleeson



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Biochemistry Primer for Exercise Science Michael E. Houston, 2006 The latest edition of *Biochemistry Primer for Exercise Science* provides upper level undergraduate and graduate students with an understanding of the essential concepts of biochemistry molecular biology basic chemistry metabolism and transcription regulation in an easy to understand format This text builds on the success of the previous edition by offering new topics new organization of chapters greater interpretation and integration of key concepts and new and improved illustrations that clarify the content *Biochemistry Primer for Exercise Science Third Edition* is the first volume in *Human Kinetics Primers in Exercise Science Series* With its updated information based on new research and ideas from exercise science and molecular biology and its greater interpretation of biochemistry in the context of the active human this volume is the only text of its kind in this field Students trained in traditional exercise physiology can understand basic concepts of energy but without the knowledge gained from this book they might lack the ability to apply these principles to everyday life New information and approaches in this book include the following

Reorganized chapters give greater attention to the mechanism behind the concepts Basic metabolic pathways and mechanisms are outlined and the role of exercise in modulating those pathways and mechanisms is addressed A deeper and more thorough integration of the topics adds context and aids in comprehension New review questions with answers are provided A section on oxidative stress and its implications to lifestyle and health are included A new section covers signal transduction that leads to changes in the expression of genes and in the amounts of specific proteins A thoroughly revamped chapter covers bioenergetics with an overview of energy systems and their role in exercise This is followed by the more rigorous thermodynamics concepts In addition each chapter addresses the newest most sophisticated information discusses future research directions and contains key points to reinforce understanding The book also provides a list of abbreviations conveniently located on the inside front cover to help the reader become familiar with commonly used biochemistry terms chapter summaries a glossary and a comprehensive reference list to help students absorb and apply the content This new edition fully integrates the concepts of biochemistry and physiology of exercise and provides critical information on how genes are controlled In doing so it melds the fields of human nutrition physiology and biochemistry into a more unifying science and it presents students with the biochemistry content they need in order to understand the molecular aspects of human physical activity The text helps prepare students for what lies ahead and it is a great tool for professionals in related fields who want to learn about the biochemistry of exercise Each volume in *Human Kinetics Primers in Exercise Science Series* provides students and professionals alike with a non intimidating basic understanding of the science behind each topic in the series and where appropriate how that science is applied These books are written by leading researchers and teachers in their respective areas of expertise to present in an easy to understand manner essential concepts in dynamic complex areas of scientific knowledge The books in the series are ideal for researchers and professionals that need to obtain

background in an unfamiliar scientific area or as an accessible basic reference for those that will be returning to the material often

Biochemistry Primer for Exercise Science Peter M. Tiidus, A. Russell Tupling, Michael E. Houston, 2012-05-01

Students trained in traditional exercise physiology have learned the basic concepts of energy but often don't fully understand human energy consumption at the molecular level. *Biochemistry Primer for Exercise Science* Fourth Edition provides an introduction to biochemistry that will give readers greater insight into the molecular aspects of human physical activity. Reflecting the rapid development of the field, this classic text continues to present the essentials of biochemistry: molecular biology, basic chemistry, metabolism, and transcription regulation in an easy-to-understand format. The fourth edition features the most recent research in exercise biochemistry plus new and revised content including the following:

- All new coverage of the control of biochemistry and biochemical and muscular adaptations to exercise and training via signaling pathways, an area of study that has received much attention in recent years.
- Added information on the regulation of gene expression, which highlights the need for students to comprehend the basics of molecular biology.
- Next Stage sections in each chapter which lead students toward emerging areas of knowledge in the field by examining new or controversial areas of research.
- An integration of the chapters on DNA, RNA, and the regulation of protein synthesis to provide a more focused and effective presentation of these key concepts.

Biochemistry Primer for Exercise Science Fourth Edition combines information from nutrition, physiology, and biochemistry to provide a clear explanation of the working of metabolism and the human body's response to physical activity. Special elements throughout the text help to demystify this complex and dynamic field of study. Key points reinforce essential concepts and aid readers in relating them to sport and exercise. Chapter summaries outline important information to take away and review questions with answers allow readers to test their knowledge of each chapter's content. A comprehensive glossary and the list of abbreviations found on the inside front and back covers help readers become familiar with commonly used biochemistry terms, and a reference list provides a starting point for exploring areas of interest in more detail. With its combination of essential topics, new findings, and future directions in research, *Biochemistry Primer for Exercise Science* Fourth Edition is a perfect resource for anyone looking to build an understanding of exercise biochemistry. Both students and professionals alike will find the information they need to begin their exploration of this fascinating field of study.

Biochemistry Primer for Exercise Science 4th Edition Michael E. Houston, 2006

Exercise Biochemistry Vassilis Mougios, 2019-01-03

Exercise Biochemistry brings an admittedly difficult and technical subject to life. Extremely user and student friendly, it is written in conversational style by Vassilis Mougios, who poses and then answers questions as if in conversation with a student. Mougios does an excellent job of making the information interesting by using simple language without compromising scientific accuracy and content. He also uses ample analogies, related works of art, and numerous illustrations to drive home his points for readers. The result is that *Exercise Biochemistry* is a highly informative and illuminating text on the effects of exercise on molecular level functioning. It presents the basics of

biochemistry as well as in depth coverage of exercise biochemistry The book uses key terms sidebars and questions and problems posed at the end of each chapter to facilitate learning It also covers metabolism endocrinology and assessment all in one volume unlike other exercise biochemistry books In exploring all of these topics Exercise Biochemistry makes the case for exercise biochemistry to have a stand alone textbook In fact this book will encourage more universities to introduce exercise biochemistry courses to their curricula Having the necessary topics of basic biochemistry in a single volume will facilitate the work of both instructors and students Exercise Biochemistry will also be useful to graduate students in sport science who have not been formally introduced to exercise biochemistry during their undergraduate programs Additionally it can supplement exercise physiology textbooks with its coverage of the molecular basis of physiological processes This book is also for physical education and sport professionals who have an interest in how the human body functions during and after exercise And this book is addressed to health scientists who are interested in the transformations in human metabolism brought about by physical activity The book is organized in four parts Part I introduces readers to biochemistry basics including chapters on metabolism proteins nucleic acids and gene expression and carbohydrates and lipids Part II consists of two chapters that explore neural control of movement and muscle contraction The essence of the book is found in part III which details exercise metabolism in its six chapters Included are chapters on carbohydrate lipid and protein metabolism in exercise compounds of high phosphoryl transfer potential effects of exercise on gene expression and integration of exercise metabolism In part IV the author focuses on biochemical assessment of people who exercise with chapters on iron status metabolites and enzymes and hormones Simple biochemical tests are provided to assess an athlete s health and performance Exercise Biochemistry is a highly readable book that serves as a source for understanding how exercise changes bodily functions The text is useful for both students and practitioners alike

Biochemistry of Exercise and Training Ron J.

Maughan, Ron Maughan, Michael Gleeson, Paul L. Greenhaff, 1997 Sports Science is a rapidly expanding area with student numbers on University courses increasing faster than for many other academic subjects While there are a large number of suitable texts on exercise physiology there has of yet been no such text for the area of exercise biochemistry Biochemistry is also an area that students taking these courses usually have the greatest difficulty in understanding The Biochemistry of exercise and training provides a broadly based introduction to those aspects of biochemistry relevant to exercise science For students of biochemistry physiology and sports science the book will enable them to develop a solid understanding of the fundamentals of biochemistry Throughout the focus is on physiological chemistry dealing with those biochemical processes that determine the metabolic response to exercise and the way in which these responses are influenced by training The authors have taken account of the rapid advances being made in the field of physiological chemistry and by providing the reader with a broad understanding of the fundamental concepts they should then be able to integrate these future developments with their existing knowledge of the area

Physiology and Biochemistry of Exercise Roy J.

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