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Students trained in traditional exercise physiology have learned the basic concepts of energy but often don't fully understand human

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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

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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.

The latest edition of Biochemistry Primer for Exercise Science provides upper-level undergraduate and graduate students

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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

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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

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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

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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.

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"More in-depth than cursory discussions found in exercise physiology texts and more practical and accessible than dedicated bioenergetics texts, Bioenergetics Primer for Exercise Science encompasses all the up-to-date research and information regarding human bioenergetics and energy metabolism. It offers both students and professionals a depth of knowledge that will inform their further study, research, and profession."--Page [4 de la couv.].

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What a journey writing this text has been. The lengthy voyage started well before the idea hatched of authoring a text that contained the word “thermodynamics”! I was informed by my good friend and sometimes colleague Dr. Jose Antonio that by including that word in the title, nutritionists and exercise physiologists might avoid the subject. But almost every step of my expedition was taken on a rather solid foundation of thermodynamics and as such the topic could not possibly be omitted from the title or the text of a book about bioenergetics and energy expenditure. I am not a physicist. In fact I first went to college to become a football coach. That vocational choice began to deteriorate when taking the mandatory anatomy and physiology courses required of all physical education majors. This information was exciting; my interest in

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physical education began to wane. During sophomore year, I answered an advertisement in the school newspaper requesting research subjects.

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

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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.

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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

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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.

This text addresses the primary environmental factors affecting people when they are exercising and competing in sport and provides evidence-based information with numerous references.

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Sports performance is all about skill, strength, speed, power, and endurance; but what governs these attributes, what limits them, and how can they be improved? Heredity, appropriate training, and diet each contribute to overall performance, but optimizing those attributes most important in a given sport requires an understanding of the processes occurring at the molecular and cellular level. To develop this understanding, the book describes how the biochemical processes underpinning energy provision relate to performance in different sports events, and how, in turn, they can be affected by diet and adaptation in response to training.

How do our muscles produce energy for exercise and what are the

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underlying biochemical principles involved? These are questions that students need to be able to answer when studying for a number of sport related degrees. This can prove to be a difficult task for those with a relatively limited scientific background. Biochemistry for Sport and Exercise Metabolism addresses this problem by placing the primary emphasis on sport, and describing the relevant biochemistry within this context. The book opens with some basic information on the subject, including an overview of energy metabolism, some key aspects of skeletal muscle structure and function, and some simple biochemical concepts. It continues by looking at the three macromolecules which provide energy and structure to skeletal muscle - carbohydrates, lipids, and protein. The last section moves beyond biochemistry to examine key aspects of metabolism - the regulation of energy production and storage.

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Beginning with a chapter on basic principles of regulation of metabolism it continues by exploring how metabolism is influenced during high-intensity, prolonged, and intermittent exercise by intensity, duration, and nutrition. Key Features: A clearly written, well presented introduction to the biochemistry of muscle metabolism. Focuses on sport to describe the relevant biochemistry within this context. In full colour throughout, it includes numerous illustrations, together with learning objectives and key points to reinforce learning. Biochemistry for Sport and Exercise Metabolism will prove invaluable to students across a range of sport-related courses, who need to get to grips with how exercise mode, intensity, duration, training status and nutritional status can all affect the regulation of energy producing pathways and, more important, apply this understanding to develop training and nutrition

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