

Don MacLaren • James Morton

Biochemistry for Sport and Exercise Metabolism



Second Edition

WILEY

Biochemistry For Sport And Exercise Science

Sebastian Brünink



Biochemistry For Sport And Exercise Science:

Biochemistry for Sport and Exercise Metabolism Donald MacLaren, James Morton, 2011-12-12 How do our muscles produce energy for exercise and what are the 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 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 programmes to maximise athletic performance *Biochemistry for Sport and Exercise Metabolism* Donald MacLaren, James Morton, 2024-09-30 All new edition of an introductory textbook on sport and exercise biochemistry and muscle metabolism Biochemistry for Sport and Exercise Metabolism initially examines the essence of the biochemistry of the macronutrients before exploring how exercise mode intensity and duration training status and nutritional status affects the regulation of energy producing pathways enabling readers to apply this understanding to develop training and nutrition programs that maximize athletic performance This textbook includes an overview of energy metabolism skeletal muscle structure and function and related biochemical concepts carbohydrates lipids and proteins metabolism regulation of metabolism and factors that can influence metabolism and fatigue This revised and updated second edition reflects some of the latest advances in the field with new content on metabolic regulation as well as adaptations to high intensity and strength exercise endurance exercise and intermittent exercise Furthermore there is a new chapter on biochemical techniques to provide some pertinent background on how reported metabolic changes during exercise are achieved This textbook features learning objectives keywords and key points in each chapter to aid in reader comprehension and reinforce information retention Written by two highly qualified authors Biochemistry for Sport and Exercise Metabolism discusses sample topics including

How the energy supply for muscle contraction is achieved from carbohydrates lipids and protein Muscle contraction covering propagation of the action potential excitation contraction coupling and the sliding filament mechanism Regulation of the energy systems providing energy for exercise Techniques for exercise metabolism including respiratory analysis ergometry blood sampling metabolomics a v differences muscle biopsy and isotopes Exploration of the metabolic events occurring during high intensity endurance and high intensity intermittent forms of exercise Clearly written and completely comprehensive the second edition of Biochemistry for Sport and Exercise Metabolism continues to be an invaluable learning resource for students across a wide range of sport related courses Exercise Biochemistry Vassilis Mougios,2019-02-04

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

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 of Exercise and Training** Ron J. 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 The Biochemical Basis of Sports Performance Ronald J Maughan, Michael Gleeson, 2010-05-20 I think the book is an essential text for anyone wishing to study exercise physiology Mark Glaister Saint Mary's College Surrey **Sports Science Handbook: A-H** Simon P. R. Jenkins, 2005 A valuable reference source for professionals and academics in this field this is an encyclopaedia dictionary of the many scientific and technical terms now encountered in kinesiology and exercise science *Biochemistry of Exercise VII* Albert W. Taylor, 1990 *Biochemistry of Exercise X* Mark Hargreaves, 1999 Twenty five papers from the July 1997 conference whose theme was membranes muscles and exercise Topics include signaling metabolism and adaptation with such chapters as neuroendocrine regulation during exercise skeletal muscle amino acid transport and metabolism and stress proteins and the adaptive response to muscle loading No index Annotation copyrighted by Book News Inc Portland OR **Introduction to Exercise Science** Stanley P. Brown, 2001 The emphasis in this new book is on providing students with a foundation of all areas of Exercise Science It provides a broad description of the field as well as an introduction of some basic science that the field relies upon Career potentials in these fields are also discussed Connection Website connection LWW com go brown British Qualifications 2020 Kogan Page Editorial, 2019-12-03 Now in its 50th edition British Qualifications 2020 is the definitive one volume guide to every recognized qualification on offer in the United Kingdom With an equal focus on both academic and professional vocational studies this indispensable guide has full details of all institutions and organizations involved in the provision of further and higher education making it the essential reference source for careers advisers students and employers It also contains a comprehensive and up to date description of the structure of further and higher education in the UK including an explanation of the most recent education reforms providing essential context for the qualifications listed British Qualifications 2020 is compiled and checked annually to ensure the highest currency and accuracy of this valuable information Containing details on the professional vocational qualifications available from over 350 professional institutions and accrediting bodies informative entries for all UK academic universities and colleges and a full description of the current structural and legislative framework of academic and vocational education it is the complete reference for lifelong learning and continuing professional development in the UK *The Olympic Textbook of Science in Sport* Ronald J. Maughan, 2008-12-15 This new volume in the Encyclopaedia of Sports Medicine series published under the auspices of the International Olympic Committee delivers an up to date state of the art presentation of the scientific aspects of conditioning injury prevention and competition The book covers the key areas of

scientific knowledge in sport and is divided into physiology and biochemistry nutrition anthropometry immunology cell biology biomechanics engineering and ergonomics psychology pharmacology limitations to performance special populations and exercise and health Presented in a clear style and format The Olympic Textbook of Science in Sport draws on the expertise of an international collection of contributors who are recognized as leaders in their respective fields It will be indispensable for all sport scientists and medical doctors who serve athletes and sports teams and is an invaluable reference for students of sport and exercise science

Basic and Applied Sciences for Sports Medicine Ron J. Maughan,1999 Basic and applied sciences for sports medicine encompasses the various disciplines of sports science including biochemistry and biomechanics It will be useful to medical practitioners sports scientists students and sports coaches

Foundations of Exercise Science Gary Kamen,2001 This entry level text provides an overview of the human movement sciences combining basic science principles with applications in exercise science Topics covered include physiology of exercise sports medicine prevention and rehabilitation

Physical Activity Sciences Claude Bouchard,Barry D. McPherson,Albert W. Taylor,1992 This text provides a detailed overview of the Canadian physical activity sciences covering the subfields of both research and professional practice areas Featuring contributions from Canadian scientists and professional leaders in 23 subfields of research and professions this text aims to stimulate interest among Canadian undergraduates in physical education the outdoors leisure studies fitness coaching health education and exercise and sport sciences

Physical Education, Exercise Science and Sport Liam Owens,2021-11-16 The study of the working of a healthy human body during exercise is known as sports and exercise science It also studies the impact of sport and physical activity on improving health and performance from cellular to whole body perspectives This field draws from several other disciplines such as anatomy exercise physiology sport psychology biochemistry biomechanics and biokinetics A major application of sport and exercise science is designing monitoring and evaluating training programs for athletes and coaches to enable them to reach their maximum potential This book attempts to understand the multiple branches that fall under the discipline of sport and exercise science and how such concepts have practical applications The topics included in this book on sports and exercise science are of utmost significance and bound to provide incredible insights to readers Those in search of information to further their knowledge will be greatly assisted by this book

Canadian Journal of Applied Sport Sciences ,1984 *Principles of Exercise Biochemistry* J. R. Poortmans,1988-09-27

Exercise, Sport, and Bioanalytical Chemistry Anthony C. Hackney,2016-03-14 A new volume in the Emerging Issues in Analytical Chemistry series Exercise Sport and Bioanalytical Chemistry Principles and Practice focuses on the basic and applied aspects of energy metabolism in humans Concise and scientific yet intelligible to the nonscientist the book consists of two parts Part I Introduction Basics and Background provides the biochemistry necessary to understand the rest of the book and describes analytical processes and results as an aid to grasping the science Part II Applications Knowledge into Practice explores measurement techniques for metabolism

energy expenditure of various activities techniques that enhance expenditure metabolic adaptation foods and drugs that enhance expenditure and the role of bioanalytical chemistry in future research in exercise and sport Discussion of the benefits of exercise and practices for improving the capacity to perform exercise is illustrated by many useful and entertaining examples This volume allows readers to come away with a grasp of the scientific concepts how they are manifested in research techniques and how the results of research can be applied in the real world of public health and personal development The Emerging Issues in Analytical Chemistry series is published in partnership with RTI International and edited by Brian F Thomas Please be sure to check out our other featured volumes Thomas Brian F and ElSohly Mahmoud The Analytical Chemistry of Cannabis Quality Assessment Assurance and Regulation of Medicinal Marijuana and Cannabinoid Preparations 9780128046463 December 2015 Tanna Sangeeta and Lawson Graham Analytical Chemistry for Assessing Medication Adherence 9780128054635 April 2016 Rao Vikram Knight Rob and Stoner Brian Sustainable Shale Oil and Gas Analytical Chemistry Biochemistry and Geochemistry Methods 9780128103890 forthcoming September 2016 Farsalinos Konstantinos et al Analytical Assessment of e Cigarettes From Contents to Chemical and Particle Exposure Profiles 9780128112410 forthcoming November 2016 Provides readers with the fundamental biochemistry and some elements of the physiology behind physical activity exercise and describes the analytical techniques used to elucidate the science Written in clear concise compelling prose that is neither simplistic to scientists nor too sophisticated for a large diverse global audience A one page Close Up in each chapter illustrates key topics to catch engage entertain and create a novel synthesis of thought

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