

Metabolic Regulation A Human Perspective

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These include those studying medicine, nutrition, exercise physiology, and many others. For those 'Metabolic Regulation' will provide a new and interesting perspective. I thought the section on pancreatic function and its function within human physiology and healthcare was particularly well constructed.

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Metabolic Regulation looks in detail at how molecules, cells and tissues operate collectively in human health and disease, using an approach that has become known as 'integrative physiology'. Since the publication of the first edition of this extremely well received book, the understanding of how metabolism is regulated has developed substantially in several ways, for example with the discovery of the hormone leptin, and also in the continuing advances in the understanding of gene ...

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Key Method. List of Abbreviations. 1 The Underlying Principles of Human Metabolism. 2 Cellular Mechanisms Involved in Metabolic Regulation. 3 Digestion and Intestinal Absorption. 4 Longer-Term Regulation of Metabolism. 5 Organs and Tissues. 6 Important Endocrine Organs and Hormones. 7 Integration of Carbohydrate, Fat, and Protein Metabolism in Normal Daily Life. 8 The Nervous System and Metabolism. 9 Coping with Some Extreme Situations. 10 Lipoprotein Metabolism. 11 Diabetes Mellitus. 12 ...

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Metabolic regulation: a human perspective Frayn, K. N. (Keith N.) Metabolic Regulation looks in detail at how molecules, cells and tissues operate collectively in human health and disease, using an approach that has become known as 'integrative physiology'.

The updated bestselling guide to human metabolism and metabolic regulation The revised and comprehensively updated new edition of Human Metabolism (formerly Metabolic Regulation \u2013 A Human Perspective) offers a current and integrated review of metabolism and metabolic regulation. The authors explain difficult concepts in clear and concise terms in order to provide an accessible and essential guide to the topic. This comprehensive text covers a wide range of topics such as energy balance, body weight regulation, exercise, and how the body copes with extreme situations, and illustrates how metabolic regulation allows the human body to adapt to many different conditions. This fourth edition has been revised with a new full colour text design and helpful illustrations that illuminate the regulatory mechanisms by which all cells control the metabolic processes necessary for life. The text includes chapter summaries and additional explanatory text that help to clarify the information presented. In addition, the newly revised edition includes more content on metabolic pathways and metabolic diseases. This important resource: Is a valuable tool for scientists, practitioners and students across a broad range of health sciences including medicine, biochemistry, nutrition, dietetics, sports science and nursing Includes a full colour text filled with illustrations and additional diagrams to aid understanding Offers a companion website with additional learning and teaching resources. Written for students of medicine, biochemistry, nutrition, dietetics, sports science and nursing. Human Metabolism has been revised and updated to provide a comprehensive review of metabolism and metabolic regulation.

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The important Third Edition of this successful book conveys a modern and integrated picture of metabolism and metabolic regulation. Explaining difficult concepts with unequalled clarity, author Keith Frayn provides the reader with an essential guide to the subject. Covering topics such as energy balance, body weight regulation and how the body copes with extreme situations, this book illustrates how metabolic regulation allows the human body to adapt to many different conditions. Changes throughout the new edition include: Extensive chapter updates Clear and accessible 2-color diagrams Q&A sections online at www.wiley.com/go/frayn to facilitate learning Frayn has written a book which will continue to be an extremely valuable tool for scientists, practitioners and students working and studying across a broad range of allied health sciences including medicine, biochemistry, nutrition, dietetics, sports science and nursing.

Metabolic Regulation in Mammals presents the basic principles of metabolic control, based on investigations conducted during the past twenty years. It explains the impact of recent advances in cell biology, molecular biology and genetics on the field. Beginning with the basic concepts, this text covers all angles of metabolic regulation, including blood caloric homeostasis, cardiac and skeletal muscle, adipose tissue, and liver metabolism. Review questions, summary sections and worked examples help break down the complexity of the subject and allow the reader to review the principles and concepts presented. Details of metabolic pathways are provided for each body system, with accompanying charts to provide the reader with an overall perspective. This text is ideal for undergraduates across a range of biological and health science disciplines, particularly those taking one or two semester courses in metabolic regulation.

RNA-based Regulation in Human Health and Disease offers an in-depth exploration of RNA mediated genome regulation at different hierarchies. Beginning with multitude of canonical and non-canonical RNA populations, especially noncoding RNA in human physiology and evolution, further sections examine the various classes of RNAs (from small to large noncoding and extracellular RNAs), functional categories of RNA regulation (RNA-binding proteins, alternative splicing, RNA editing, antisense transcripts and RNA G-quadruplexes), dynamic aspects of RNA regulation modulating physiological homeostasis (aging), role of RNA beyond humans, tools and technologies for RNA research (wet lab and computational) and future prospects for RNA-based diagnostics and therapeutics. One of the core strengths of the book includes spectrum of disease-specific chapters from experts in the field highlighting RNA-based regulation in metabolic & neurodegenerative disorders, cancer, inflammatory disease, viral and bacterial infections. We hope the book helps researchers, students and clinicians appreciate the role of RNA-based regulation in genome regulation, aiding the development of useful biomarkers for prognosis, diagnosis, and novel RNA-based therapeutics. Comprehensive information of non-canonical RNA-based genome regulation modulating human health and disease Defines RNA classes with special emphasis on unexplored world of noncoding RNA at different hierarchies Disease specific role of RNA - causal, prognostic, diagnostic and therapeutic Features contributions from leading experts in the field

When an excessive proportion of the human energy requirement is derived from fat, the likelihood of obesity increases. Any such individual is at risk for diabetes and cardiovascular disease- grave and costly health hazards. The selective control of fat ingestion is a promising solution to these concerns. Existing data suggests that macronutrient intake can be manipulated. Further research is working to create pharmacological tools that will suppress fat consumption. It will also be possible to fight obesity, heart disease and diabetes. Neural and Metabolic Control of Macronutrient Intake systematically discusses the known physiological mechanisms involved in macronutrientselection, including their molecular, genetic and neurochemical aspects. The book is also a critical review of the hypothesis that ingestion of the three nutrients is regulated by separate neural control mechanisms, leaving open the possibility that strategies could be devised to intervene in bodily control systems and alter the proportion of fat in the diet. This reference provides three types of information: First, the basic background of the biochemical and physiological systems as they relate to macronutrient selection. Second, opinions and data concerning to what degree animals and humans show evidence of macronutrient selection. And, third, evidence about how the central nervous system might be involved in the choices animals make among macronutrients.

This "real-world" approach allows students to come away with a realistically informed view of the basis for much of our understanding of nutritional biochemistry.

A valuable reference tool for professionals involved in the industry, Drug Metabolism in Pharmaceuticals covers new tools such as LC-MS and LC-MS-NMR along with experimental aspects of drug metabolism. This work fills a gap in the literature by covering the concepts and applications of pharmaceutical research, development, and assessment from the point of view of drug metabolism. By providing both a solid conceptual understanding of the drug metabolism system, and a well illustrated, detailed demonstration and explanation of cutting edge tools and techniques, this book serves as a valuable reference tool for bench scientists, medical students, and students of general health sciences.

Metabolic Regulation looks in detail at how molecules, cells and tissues operate collectively in human health and disease, using an approach that has become known as 'integrative physiology'. Since the publication of the first edition of this extremely well received book, the understanding of how metabolism is regulated has developed substantially in several ways, for example with the discovery of the hormone leptin, and also in the continuing advances in the understanding of gene expression. Full details of these and other new advances are included in this fully updated edition. Carefully laid out with relevant and clearly explained examples, and containing much new material, this new edition covers in an integrated way: concepts and mechanisms, digestion and intestinal absorption, organs and tissues, endocrine organs and hormones, the integration of carbohydrate, fat and protein metabolism, the nervous system and metabolism, lipoprotein metabolism, diabetes mellitus, energy balance and body weight regulation and how the body copes with some extreme situations. The author, Keith Frayn, who has many years' experience teaching and researching in this subject, has written a book of great clarity, which is an extremely valuable tool for scientists, practitioners and students working and studying across a broad range of allied health sciences including nutrition, dietetics, sports science and nursing. Students of medicine, physiology, biochemistry and biological sciences will also find much of great use and interest in this book. All libraries in research establishments, universities and medical schools where these subjects are studied and taught should have multiple copies of this excellent book on their shelves. Keith Frayn is Professor of Human Metabolism at the University of Oxford, UK.Reviews of the First Edition \u2013This is an excellent textbook\u2013: Trends in Endocrinology and Metabolism \u2013The coverage is excellent for students following courses such as nutrition and human biology\u2013:Biologist \u2013This book is ideal for medical students\u2013:Australian Society for Biochemistry and Molecular Biology

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