



Metabolic Regulation: A Human Perspective

Keith N. Frayn

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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 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 'This is an excellent textbook': Trends in Endocrinology and Metabolism 'The coverage is excellent for students following courses such as nutrition and human biology': Biologist 'This book is ideal for medical students': Australian Society for Biochemistry and Molecular Biology



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