Nutrition and Metabolism

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Nutritional and Therapeutic Interventions for Diabetes and Metabolic Syndrome: Nutritional and Therapeutic Interventions for Diabetes and Metabolic Syndrome Nutition is a very broad discipline, encompassing biochemistry, physiology, endocrinology, immunology, microbiology and pathology. Presenting the major principles of nutrition of both domestic and wild animals, this book takes a comparative approach, recognising that there are considerable differences in nutrient digestion, metabolism and requirements among various mammalian and avian species. Explaining species differences in food selection, food-seeking and digestive strategies and their significance to nutritional needs, chapters cover a broad range of topics including digestive physiology, metabolic disorders and specific nutrients such as carbohydrates, proteins and lipids, with particular attention being paid to nutritional and metabolic idiosyncrasies. It is an essential text for students of animal and veterinary sciences.

Comparative Animal Nutrition and Metabolism: The explosion of knowledge about satiety and hunger has given new meaning to our understanding of the genetics of obesity. New interest in gene expression as related to nutrition and advances in the field of macronutrients has made the latest nutrition research intriguing. Advanced Nutrition: Macronutrients adopts an integrated approach to the understanding of macronutrient nutrition. It provides scientific foundations of the current findings on energy balance, protein need, gene expression, and carbohydrate and lipid use, and maintains emphasis on the biochemical and physiological basis for nutrient need.

List of Journals Indexed for MEDLINE: Advances in Physiological Sciences, Volume 12: Nutrition, Digestion, Metabolism covers the proceedings of the 28th International Congress of Physiological Sciences, held in Budapest in 1980, which mainly focuses on human nutrition, digestion, and metabolism. This compilation is divided into eight parts. This text first gives an introduction to vitamins and trace elements, including its role, effects, and influences on human biological processes. This book then explains the role of cyclic nucleotides in stimulus—secretion coupling of exocrine glands and the physiological components of the gastric mucosal barrier, along with their role in mucosal defense. Motility in control of gastric emptying; intestinal polypeptides and peptidergic nerves; and molecular changes during metabolic processes of gastrointestinal peptide hormones are also tackled. This text also introduces the factors involved in the integrated mechanism of intestinal absorption. This book concludes by explaining the lipoprotein metabolism, apolipoproteins, and lipid constituents. This publication will be invaluable to those in the field of physiological sciences interested specifically in studying human nutrition, digestion, metabolism, and dietetics.

Nutrition, Digestion, Metabolism: A multidisciplinary analysis of the role of nutrition in generating hierarchical societies and cultivating a global epidemic of chronic diseases.

World Medical Association Declaration of Helsinki: This issue is a dedicated supplement published in addition to the regular issues of Annals of Nutrition and Metabolism focusing on one specific topic. Annals of Nutrition and Metabolism is a well-respected, international peer-reviewed journal in Nutrition. Supplement issues are included in the subscription.

Neonatal Nutrition and Metabolism: Aquaculture Nutrition Manipulation of the microbial gut content of farmed fishes and crustaceans can have a marked effect on their general health, growth, and quality. Expertly covering the science behind the use of prebiotics and probiotics this
landmark book explains how the correct manipulation of the gut flora of farmed fishes and crustaceans can have a positive effect on their health, growth rates, feed utilization, and general wellbeing. Aquaculture Nutrition: Gut Health, Probiotics and Prebiotics provides a comprehensive overview of the current knowledge of the gut microbiomes of fish and their importance with respect to host-fish health and performance, providing in-depth, cutting-edge fundamental and applied information. Written by many of the world’s leading authorities and edited by Dr Daniel Merrifield and Professor Einar Ringø, this important book discusses in detail the common mechanisms for modulating microbiomes, particularly at the gut level (e.g., probiotics, prebiotics, and synbiotics). The book is a key resource for an understanding of the historical development of these products, their known mechanisms of action and their degree of efficacy as presently demonstrated in the literature. The fundamental material provided on the gut microbiota itself and more broad aspects of microbe-live feed interactions, provide essential reading for researchers, academics and students in the areas of aquaculture nutrition, fish veterinary science, microbiology, aquaculture, fish biology and fisheries. Those involved in the development and formulation of aquaculture feeds and those with broader roles within the aquaculture industry will find a huge wealth of commercially important information within the book’s covers. All libraries in universities and research establishments where biological sciences, nutrition and aquaculture are studied and taught, should have copies of this excellent book on their shelves.

Current Issues in Sports Nutrition Diabetes mellitus affects approximately 20 million people in the US, or nearly 7% of the population. It is expected to increase by 70% within the next 25 years, and numerous epidemiologic studies have demonstrated that type 2 diabetes increases the risk of cardiovascular morbidity and mortality. It is estimated to cost over $92 billion in health care costs and lost productivity. The increased risk is due to the detrimental vascular effects of prolonged exposure to a hyperglycemic, oxidant-rich environment yielding associated cardiovascular risk factors: atherosclerosis, hypertension and clotting abnormalities. Hypertension and dyslipidemia in diabetic patients produces substantial decreases in cardiovascular and microvascular diseases. Nutritional and Therapeutic Interventions for Diabetest and Metabolic Syndrome provides an overview of the current epidemic, outlines the consequences of this crisis and lays out strategies to forestall and prevent diabetes, obesity and other intricate issues of metabolic syndrome. The contributing experts from around the world give this book relevant and up-to-date global approaches to the critical consequences of metabolic syndrome and make it an important reference for those working with the treatment, evaluation or public health planning for the effects of metabolic syndrome and diabetes. Scientific discussion of the epidemiology and pathophysiology of the relationship between diabetes and metabolic syndrome includes coverage of Pre-diabetes conditions plus both Type I and Type II Diabetes Presents both prevention and treatment options.

Advanced Nutrition The present eBook is the result of the Frontiers Research Topic entitled ‘Nutritional and environmental modulation of the endocrine system: effects on metabolism and growth’. It contains 12 chapters, comprising 7 original research articles, 3 reviews, and 2 minireviews. The objective of the Research Topic was to provide a multidisciplinary approach of cutting-edge research on metabolism and growth aiming to address key questions about the interplay between nutritional, environmental or other external factors (i.e., temperature or pollutants) and signals modulating feed intake with the endocrine system, regulating these processes. Evidences about the molecular principle behind the complex interactions of all these factors on the control of the endocrine and nervous systems regulating the metabolic process are presented. The knowledge provided by this eBook focusing in cells, model organisms and farmed species, have highlighted the importance of dietary and environmental factors, and their interactions with the endocrine system to regulate growth and metabolism.

Energy and protein metabolism and nutrition Nutritional Management of Renal Disease, Fourth Edition, offers in-depth reviews of the metabolic and nutritional disorders prevalent in patients with renal disease and serves as an in-depth reference source concerning nutrition and kidney disease. This classic translational reference provides correct diagnosis - and therefore correct treatment - of renal, metabolic, and nutritional disorders. Nephrologists, diabetologists, endocrinologists, dieticians, and nutritionists depend on a strong understanding of the molecular basis for the disease. This fourth edition includes thorough new case reports, offering expert advice on how to use the latest research and clinical findings in counseling patients about dietary and lifestyle options. Readers gain insight into which treatments, medications, and diets to use based on the history, progression, and genetic make-up of a patient. Includes the latest comprehensive KDQI clinical practice guidelines for the nutritional management of kidney disease from the National Kidney Foundation and the Academy of Nutrition and Dietetics, covering recommendations for each essential nutrient, as well as for some nonessential nutrients. Presents a comprehensive, translational look at all aspects of metabolic and nutritional disorders in one reference. Provides a common language for nephrologists, nutritionists, endocrinologists, and other interested physicians to assimilate information and discuss the underlying research and translation of best practices for the nutritional management and prevention of renal disease. Saves clinicians and researchers time in quickly accessing the very latest details on nutritional practice as opposed to searching through thousands of journal articles.

Nutrient Metabolism

Stable Isotopic Tracers in Nutrition and Metabolism This issue is a dedicated supplement published in addition to the regular issues of ‘Annals of Nutrition and Metabolism’ focussing on one specific topic. ‘Annals of Nutrition and Metabolism’ is a well-respected, international peer-reviewed journal in Nutrition. Supplement issues are included in the subscription.

Nutrition and Brain

International Journal of Sport Nutrition & Exercise Metabolism

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Energy and Protein Metabolism and Nutrition This volume provides a survey of the links between nutrition and the brain. It examines many of the mechanisms by which diet and individual nutrients are known to modify brain development, biochemistry and function, and evaluates current practices in the use of the diet for the prevention and treatment of disorders affecting brain function. It also highlights the need to consider issues related to brain function in the development and evolution of national policies for treating nutritional deficiencies and excesses. Written by leading investigators and clinicians, this publication will help practitioners, clinical investigators and scientists appreciate the broad opportunities awaiting investigation, and ultimately, clinical applications, in this dynamic and expanding area of investigation.

Nutrient Metabolism It has become increasingly difficult to keep up with the growing body of literature on the genetics, metabolic phenotype and treatment of obesity. This volume brings together an array of chapters from many of the foremost authorities and researchers in this area. Key advances in the genetics of obesity are summarized and the effects of obesity in pregnancy, childhood and old age explored. By scrutinizing the hormones and enzymes most recently implicated in the development, maintenance and consequences of obesity, the biochemical and physiological background of the abnormal metabolism of obesity is mapped out. Furthermore, a practical update on clinical approaches and treatment of obesity is offered. Finally, the social aspects of obesity and the view of the obese body in art throughout the centuries are reflected. A valuable overview of causes, metabolic disturbances and treatment options, this volume will appeal to those with an interest in clinical as well as pathophysiological and genetic aspects of obesity. Furthermore, it will provide useful reading for scientists and students who would like to broaden and update their knowledge in this area.

Dietary Sugars and Health

The Metabolic Ghetto A key determinant of successful athletic performance is the high-level energy transformation which begins with combustion of the food that we eat. By developing a sound understanding of good nutrition we can improve athletic performance, help maintain good health and prevent disease. This clear and comprehensive introduction to nutrition in sport, exercise and health goes further than any other textbook in integrating key nutritional facts, concepts and dietary guidelines with a thorough discussion of the fundamental biological science underpinning our physiological and metabolic processes. By clearly explaining how nutrients function within our biological system, the book helps students to develop a better understanding of the underlying mechanisms, which, in turn, will help the student to apply their knowledge in practice. The book includes in depth discussion of key contemporary topics within nutrition including: nutrient bioenergetics nutrition and metabolic disease nutritional ergogenic aids nutrition for special populations nutritional assessment. Each chapter includes useful pedagogical features, including case studies, review questions, definitions of key terms, and practical laboratory exercises—such as techniques for assessing nutritional status, body composition and physical activity patterns. A companion website offers additional teaching and learning features, such as PowerPoint slides, multiple-choice question banks and web links. As the most up-to-date introduction to sport and exercise nutrition currently available, this book is essential reading for all students of sport and exercise science, kinesiology, physical therapy, nutrition, dietetics or health sciences. Visit the companion website at www.routledge.com/cw/kang

Nutrition and Metabolism in Sports, Exercise and Health Sugar consumption is suspected to play an important role in the pathogenesis of diabetes, cardiovascular disorders, fatty liver disease, and some forms of cancers. Dietary sugars—from fructose in particular—also have a potential role in obesity and metabolic diseases. Dietary Sugars and Health presents all aspects of dietary sugars as they relate to health and disease. It provides a review of the current science related to dietary sugars, ranging from historical and cultural perspectives to food science and production to basic research, animal trials, human pathophysiology, epidemiology, and public health policy implications. Each chapter features a concise, thorough summary of the current knowledge, including an overview of cutting-edge research, controversies, and future perspectives. The book provides a balanced approach through global and multidisciplinary contributions as well as input from various sectors, from academia to the food and beverage industry. The overall collection provides readers with a balanced and complete view of the science related to dietary sugars and health. This book is an invaluable reference for food scientists, nutrition scientists, clinical and translational researchers, obesity researchers, physiologists, public health scientists, and policy makers.

Nutrition and Metabolism Neonatal nutrition has a pivotal role in normal child development and is of even greater importance in the sick or premature neonate. This 2006 edition includes a comprehensive account of the basic science, metabolism and nutritional requirements of the neonate, and a greatly expanded number of chapters dealing in depth with clinical issues ranging from IUGR, intravenous feeding, nutritional therapies for inborn errors of metabolism, and care of the neonatal surgical patient. Evolving from these scientific and clinical aspects, the volume highlights the important long-term effects of fetal and neonatal growth on health in later life. In addition, there are very practical chapters on methods and techniques for assessing nutritional status, body composition, and evaluating metabolic function.

Nutrition and Functional Foods in Boosting Digestion, Metabolism and Immune Health Nutrient Metabolism, Second Edition, provides a comprehensive overview of the supply and use of nutrients in the human body and how the body regulates intake. Chapters detail the principles determining digestion and absorption of food ingredients and how these compounds and their metabolites get into the brain, cross the placenta and pass through the kidneys. Each nutrient's coverage contains a nutritional summary that describes its function, its food sources, dietary requirements, potential health risks if deficient, and impact of excessive intake. This handbook contains the latest information on the scope of structures, processes, genes and cofactors involved in maintaining a healthy balance of nutrient supplies. Of interest to a wide range of professionals because nutrient issues connect to so many audiences, the book contains a useful link to dietary supplements. Latest research findings on health and clinical effects of nutrients and of interventions affecting nutrient supply or metabolism Each nutrient covered contains a nutritional summary describing its function, food sources, dietary requirements, potential health
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risks if deficient, and impact of excessive intake. Nutrient information immediately accessible—from source to effect—in one volume

Obesity and Metabolism Development in agricultural sciences, particularly in farm animal sciences, resulted in the increased productivity to meet the demand for high quality and relatively cheap protein sources for human nutrition. In parallel, this increased productivity challenges the adequate supply of nutrients, including protein and energy, needed to cover not only high performances, but also ensure animal health and welfare, reproduction and quality of products in a sustainable environment. The precise understanding of the animal biology is crucial for animal health and welfare, sustainable animal production, and health of animal product consumers. This book focuses on combining basic and applied research and its practical applications. To achieve these goals, many important topics are presented and discussed in detail. The most important issues in this book are: physiological aspects of protein and energy metabolism and nutrition; animal health and welfare metabolic related issues; effect of feeds and feed processing on energy and protein digestion and metabolism; methodological aspects of research on protein and energy metabolism; environment protection and enhancement of the quality and health-promoting features of animal products. This book constitutes a good source of knowledge for those who like to be up to date with the newest trends and findings in energy and protein metabolism in farm animals.

Annals of Nutrition and Metabolism (majalah) Nutrition in the Prevention and Treatment of Disease, Fourth Edition, is a compilation of current knowledge in clinical nutrition and an overview of the rationale and science base of its application to practice in the prevention and treatment of disease. In its fourth edition, this text continues the tradition of incorporating new discoveries and methods related to this important area of research Generating and analyzing data that summarize dietary intake and its association with disease are valuable tasks in treating disease and developing disease prevention strategies. Well-founded medical nutrition therapies can minimize disease development and related complications. Providing scientifically sound, creative, and effective nutrition interventions is both challenging and rewarding. Two new chapters on metabolomics and translational research, which have come to be used in nutrition research in recent years. The new areas of study are discussed with the perspective that the application of the scientific method is by definition an evolutionary process. A new chapter on Genetics and Diabetes which reviews the latest research on causal genetic variants and biological mechanisms responsible for the disease, and explores potential interactions with environmental factors such as diet and lifestyle. Includes all major “omics” – the exposome, metabolomics, genomics, and the gut microbiome. Expands the microbiota portions to reflect complexity of diet on gut microbial ecology, metabolism and health

International Journal of Sport Nutrition and Exercise Metabolism The field of clinical nutrition as a whole seeks to consider the nutrition of patients within the healthcare system, paying attention to the interactions between diet, nutrition, and disease. To that end, this book discusses nutrition as both a contributing and managing factor in relation to diseases such as obesity and diabetes. It also presents malnutrition as a contributing factor to such diseases and considers the efficacy of micronutrient supplementation. It ends by looking at some of the recent developments and future trends in the field of clinical nutrition.

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research Animals are biological transformers of dietary matter and energy to produce high-quality foods and foods for human consumption and use. Mammals, birds, fish, and shrimp require nutrients to survive, grow, develop, and reproduce. As an interesting, dynamic, and challenging discipline in biological sciences, animal nutrition spans an immense range from chemistry, biochemistry, anatomy and physiology to reproduction, immunology, pathology, and cell biology. Thus, nutrition is a foundational subject in livestock, poultry and fish production, as well as the rearing and health of companion animals. This book entitled Principles of Animal Nutrition consists of 13 chapters. Recent advances in biochemistry, physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non-ruminants. The text begins with an overview of the physiological and biochemical bases of animal nutrition, followed by a detailed description of chemical properties of carbohydrates, lipids, protein, and amino acids. It advances to the coverage of the digestion, absorption, transport, and metabolism of macronutrients, energy, vitamins, and minerals in animals. To integrate the basic knowledge of nutrition with practical animal feeding, the book continues with discussion on nutritional requirements of animals for maintenance and production, as well as the regulation of food intake by animals. Finally, the book closes with feed additives, including those used to enhance animal growth and survival, improve feed efficiency for protein production, and replace feed antibiotics. While the classical and modern concepts of animal nutrition are emphasized throughout the book, every effort has been made to include the most recent progress in this ever-expanding field, so that readers in various biological disciplines can integrate biochemistry and physiology with nutrition, health, and disease in mammals, birds, and other animal species (e.g., fish and shrimp). All chapters clearly provide the essential literature related to the principles of animal nutrition, which should be useful for academic researchers, practitioners, beginners, and government policy makers. This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science, biochemistry, biomedicine, biology, food science, nutrition, veterinary medicine, and related fields.

Nutrition in the Prevention and Treatment of Disease In this second edition of second title in the acclaimed Nutrition Society Textbook Series, Nutrition and Metabolism has been revised and updated to meet the needs of the contemporary student.

Cancer as a Metabolic Disease Nutrition and Functional Foods in Boosting Digestion, Metabolism and Immune Health explores the role of appropriate nutrition and digestive enzymes in healthy digestion. The book addresses salient gastrointestinal features involved in healthy digestion pathophysiology, including coverage of the enzyme-microbiome connection and linkage, features of indigestion problems, roles of traditional and conventional ethnic foods, structurally diverse digestive enzymes, drugs, nutraceuticals and novel digestive formulations. In addition, the book addresses
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technological breakthroughs that have led to recent, novel discoveries and outlines nutritional guidelines and recommendations to achieve healthy digestion. This book is a useful resource for nutrition researchers, nutritionists, physicians working in the field of digestive health, pharmacists, food experts, health professionals, nurses and general practitioners, public health officials and those teaching or studying related fields. Provides coverage of digestion, human physiology and the enzyme-microbiome linkage. Covers indigestion problems, including gut dysbiosis and its role in chronic disease. Addresses traditional and conventional ethnic foods. Discusses digestive enzymes, as well as digestive drugs, enzymes, nutraceuticals and novel formulations.

Nutritional Management of Renal Disease This book compiles the scientific content of the International Symposium on Energy & Protein Metabolism and Nutrition, 2003. Specialists from all over the world working in energy and protein metabolism research discussed scientific matters of physiology, nutrition, immunology and genetics.

Nutrition and metabolism

Health Ageing: the Role of Food, Nutrition and Lifestyle. Nutrient Metabolism defines the molecular fate of nutrients and other dietary compounds in humans, as well as outlining the molecular basis of processes supporting nutrition, such as

Clinical Nutrition The International Journal of Sport Nutrition and Exercise Metabolism (IJ SNEM) is dedicated to providing original research in the fields of sport nutrition and exercise metabolism. Because it is the only journal devoted solely to the publication of findings in these areas, IJ SNEM is both an important outlet for international research and a vital resource for professionals in the many fields related to nutrition and metabolism. Recent articles appearing in IJ SNEM have presented critical findings pertaining to calcium supplementation, eating patterns of elite athletes, disorders of the female athlete triad, and effects of carbohydrate ingestion during exercise. In future issues, IJ SNEM will continue to publish significant research on topics such as the effects of a carbohydrate mixture on muscle protein balance after resistance exercise, influence of carbohydrate and age on lymphocyte function after a marathon, and effects of antioxidant therapy in females exposed to eccentric exercise. Also available is the online format of IJ SNEM that offers the same authoritative content available in the print edition, but with the additional advantages of electronically formatted material including the potential to search journals in seconds, access to five years of back issues, and the ability to examine the online version weeks before the print version arrives. Online subscribers are also sent each issue's table of contents by e-mail to announce that a new issue has been published. IJ SNEM is the official journal of the International Society of Sport Nutrition.

Progress in Research on Energy and Protein Metabolism The book addresses controversies related to the origins of cancer and provides solutions to cancer management and prevention. It expands upon Otto Warburg's well-known theory that all cancer is a disease of energy metabolism. However, Warburg did not link his theory to the “hallmarks of cancer” and thus his theory was discredited. This book aims to provide evidence, through case studies, that cancer is primarily a metabolic disease requiring metabolic solutions for its management and prevention. Support for this position is derived from critical assessment of current cancer theories. Brain cancer case studies are presented as a proof of principle for metabolic solutions to disease management, but similarities are drawn to other types of cancer, including breast and colon, due to the same cellular mutations that they demonstrate.

Clinical Nutrition

Metabolic Shifting: Nutrition, Exercise and Timing The increasing human population, growing income and urbanization worldwide creates a rapidly growing demand for livestock products. Not only quantity matters, sustainable production is getting increasingly important. To maximize efficiency and minimize the environmental footprint of livestock products, one needs to deeply understand animal biology. Knowledge in animal sciences, particularly in farm animal nutrition, is vital to meet those demands, and that is where this book can help. This book focuses on combining basic and applied research and its implications on energy and protein nutrition and metabolism. Relevant topics are presented and discussed in detail. The most important issues are: sustainable use of energy and protein in animal nutrition, new feeds, dietary additives, feed processing methods, mitochondrial and amino acids kinetics. Effects of heat stress, sanitary challenges, and feeding behaviour on energy metabolism, and methods and modelling approaches applied to animal nutrition are also part of the book. This makes 'Energy and protein metabolism and nutrition' an excellent source of knowledge for those who would like to take animal nutrition into the future.

Healthy Ageing: the Role of Food, Nutrition and Lifestyle. Nutrient Metabolism defines the molecular fate of nutrients and other dietary compounds in humans, as well as outlining the molecular basis of processes supporting nutrition, such as
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chemical sensing and appetite control. It focuses on the presentation of nutritional biochemistry; and the reader is given a clear and specific perspective on the events that control utilization of dietary compounds. Slightly over 100 self-contained chapters cover all essential and important nutrients as well as many other dietary compounds with relevance for human health. An essential read for healthcare professionals and researchers in all areas of health and nutrition who want to access the wealth of nutrition knowledge available today in one single source. Key Features * Highly illustrated with relevant chemical structures and metabolic pathways * Foreword by Steven Zeisel, Editor-in-chief of the Journal of Nutritional Biochemistry * First comprehensive work on the subject

Principles of Animal Nutrition

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