

Artichoke Cynara Scolymus L Leaves And Heads Extracts

Covering fundamentals and new developments in phytotherapy, this book combines pharmaceutical sciences and chemistry with clinical issues. • Helps readers better understand phytotherapy and learn the fundamentals of and how to analyze phytotherapeutic agents • Discusses phytotherapy in modern medicine, chemoprevention of disease, and alternatives to western medicines for specific diseases • Chapters summarizes the uses and applications of phytomedicines, by type like Chinese, Greco-Arab, Indian, European, and Ayurvedic • Includes international regulatory perspectives and discusses emerging regulations for various established and emerging markets

This book addresses the highly relevant and complex subject of research on drugs from natural products, discussing the current hot topics in the field. It also provides a detailed overview of the strategies used to research and develop these drugs. Respected experts explore issues involved in the production chain and when looking for new medicinal agents, including aspects such as therapeutic potential, functional foods, ethnopharmacology, metabolomics, virtual screening and regulatory scenarios. Further, the book describes strategic methods of isolation and characterization of active principles, biological assays, biotechnology of plants, synthesis, clinical trials and the use of tools to identify active principles.

Health professionals are recognizing the major role that nutraceuticals play in health enhancement. As a result, there is a dramatic increase in research aimed at identifying new functional foods and nutraceuticals. There is not, however, a single source that presents this research in a thorough and

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accessible manner. Comprehensive and complete, th
Pathology: Oxidative Stress and Dietary Antioxidants bridges the disciplinary knowledge gap to help advance medical sciences and provide preventative and treatment strategies for pathologists, health care workers, food scientists and nutritionists who have divergent skills. This is important as oxidative stress can be ameliorated with pharmacological, nutraceutical or natural agents. While pathologists and clinical workers understand the processes in disease, they are less conversant in the science of nutrition and dietetics. Conversely, nutritionists and dietitians are less conversant with the detailed clinical background and science of pathology. This book helps to fill those gaps. Saves clinicians and researchers time by helping them to quickly access the very latest details on a broad range of pathologies and oxidation issues Combines the science of oxidative stress and the putative therapeutic usage of natural antioxidants in the diet Includes preclinical, clinical and population studies to help pathologists, nutritionists, dieticians, and clinicians map out key areas for research and further clinical recommendations

"Highlights include: an in-depth review of how analytical methods for dietary supplements are validated, including information on what buyers of analytical services should look for and how they should assess the quality of results. This review is useful to those validating their own in-house methods, as well; 38 monographs on dietary ingredients most commonly used to produce dietary supplements. Each monograph follows a standard format for quick reference; chemical names, formulas, and structures, along with information on solubility and other physical and chemical data; a description of common uses for each dietary supplement and its mode of action; discussion of reference standards and/or marker compounds used; information and

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directions for using various component-specific methods; and chromatography specifications and representative chromatograms, when available."--BOOK JACKET.

The study of cultured human tumor cells is a most obvious approach in experimental human cancer research. For many techniques in virology, immunology, biochemistry, and biophysics, for example, large amounts of cells may be required and such quantities are usually provided only when the cultures develop into established cell lines; when this happens, thorough characterization also becomes possible. The development of cell lines, therefore, is of prime importance. Recent major advances in research with animal cell systems seem to be a prologue for present and future efforts directed toward work with human tumor cells in culture. Conceivably, the most significant results in cancer research may develop from work with such cells, and so the time seemed right to define the present state of our knowledge. This is the first book dedicated exclusively to the subject: human tumor cells in vitro. Although so many of the fundamental aspects in the cultivation of human tumor cells, and the extent to which they represent human cancer in vivo are still unclear, I asked a number of the leading investigators in this area of research to collect and evaluate previous and present contributions, and to offer their thoughts on the questions to which answers are not yet available. Many of the chapters are concerned with techniques of cultivation. Cultures from some types of tumors have grown well; in many cases they have given rise to established cell lines. With over 50,000 distinct species in sub-Saharan Africa alone, the African continent is endowed with an enormous wealth of plant resources. While more than 25 percent of known species have been used for several centuries in traditional African medicine for the prevention and treatment of diseases, Africa remains a minor player in the global

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natural products market largely due to lack of practical information. This updated and expanded second edition of the Handbook of African Medicinal Plants provides a comprehensive review of more than 2,000 species of plants employed in indigenous African medicine, with full-color photographs and references from over 1,100 publications. The first part of the book contains a catalog of the plants used as ingredients for the preparation of traditional remedies, including their medicinal uses and the parts of the plant used. This is followed by a pharmacognostical profile of 170 of the major herbs, with a brief description of the diagnostic features of the leaves, flowers, and fruits and monographs with botanical names, common names, synonyms, African names, habitat and distribution, ethnomedicinal uses, chemical constituents, and reported pharmacological activity. The second part of the book provides an introduction to African traditional medicine, outlining African cosmology and beliefs as they relate to healing and the use of herbs, health foods, and medicinal plants. This book presents scientific documentation of the correlation between the observed folk use and demonstrable biological activity, as well as the characterized constituents of the plants.

This book is meant for teaching useful plants under the subject heading of "Economic Botany". The most important useful herbs of the planet earth are explained in terms of their active chemical compounds and relevant properties. All the conventional topics such as Food plants, spices, timber etc have been revamped with the latest research inputs on those plants and the new features of these products. Herbal Cosmetics, Antioxidant therapy, Natural Dyes, perfumery and

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Aromatherapy, Biopesticides, Biofuel and Biofertilisers are added which will increase the acceptance of plant-based courses. In addition, in the beginning of each chapter, relevant chemistry of natural products is added which will explain the said actions in a meaningful way.

The Second Edition of this pocket guide presents the essentials of herbal therapy and nutritional supplements, combining the traditional and scientific worlds. Dr. Kuhn has a PhD in physiology and is author of two pharmacology textbooks; Mr. Winston is a traditional herbalist in practice with a native American heritage. The book covers 115 herbs that are commonly available in the United States and Canada and 15 nutritional supplements. Coverage of each herb includes traditional and current uses, dangers and toxicities, and a bibliography. This edition includes 15 new herbs.

Nonvitamin and Nonmineral Nutritional Supplements compiles comprehensive information and recent findings on supplements found in today's market. The book focuses on non-essential nutrients, animal extracts, yeast and fungi extracts, and plant and algae extracts used as supplements. Readers will find valuable insights on the impact of dietary supplementation on human health, along with an understanding of the positive and negative aspects of each supplement. Provides reliable information on available supplements to inform nutritional practices

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Presents each supplement's sources, availability, health benefits, drawbacks, and possible interactions with other supplements, food or drugs Serves as a guide to non-essential nutrients, plant and algae extracts, animal extracts, including bee products and shark cartilage, and supplements from yeast and fungi

Nutritional Composition and Antioxidant Properties of Fruits and Vegetables provides an overview of the nutritional and anti-nutritional composition, antioxidant potential, and health benefits of a wide range of commonly consumed fruits and vegetables. The book presents a comprehensive overview on a variety of topics, including inflorescence, flowers and flower buds (broccoli, cauliflower, cabbage), bulb, stem and stalk (onion, celery, asparagus, celery), leaves (watercress, lettuce, spinach), fruit and seed (peppers, squash, tomato, eggplant, green beans), roots and tubers (red beet, carrots, radish), and fruits, such as citrus (orange, lemon, grapefruit), berries (blackberry, strawberry, lingonberry, bayberry, blueberry), melons (pumpkin, watermelon), and more. Each chapter, contributed by an international expert in the field, also discusses the factors influencing antioxidant content, such as genotype, environmental variation and agronomic conditions. Contains detailed information on nutritional and anti-nutritional composition for commonly consumed fruits and vegetables Presents

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recent epidemiological information on the health benefits of fresh produce Provides in-depth information about the antioxidant properties of a range of fruits and vegetables

Dyslipidemias: Pathophysiology, Evaluation and Management provides a wealth of general and detailed guidelines for the clinical evaluation and management of lipid disorders in adults and children. Covering the full range of common through rare lipid disorders, this timely resource offers targeted, practical information for all clinicians who care for patients with dyslipidemias, including general internists, pediatric and adult endocrinologists, pediatricians, lipidologists, cardiologists, internists, and geneticists. For the last twenty years, there has been a growing recognition worldwide of the importance of managing dyslipidemia for the primary and secondary prevention of atherosclerotic vascular disease, especially coronary heart disease. This has been mainly due to the publication of the guidelines of National Cholesterol Education Program's Adult Treatment Panel and Pediatric Panel from the United States. These guidelines have stimulated generation of similar recommendations from all over the world, particularly Europe, Canada, Australia and Asia. Developed by a renowned group of leading international experts, the book offers state-of-the-art chapters that are peer-reviewed and represent a comprehensive assessment of the field. A major

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addition to the literature, *Dyslipidemias: Pathophysiology, Evaluation and Management* is a gold-standard level reference for all clinicians who are challenged to provide the best care and new opportunities for patients with dyslipidemias. Drawing on the latest scientific research, a practical manual brings together the most up-to-date health and nutrition information available in the thoroughly revised twenty-first-century edition of this comprehensive guide to good health. Original. This book is a printed edition of the Special Issue "Nutrition and Liver Disease" that was published in *Nutrients*

Medicinal Plants in Asia for Metabolic Syndrome: Natural Products and Molecular Basis offers an in-depth view into the metabolic syndrome pharmacology of natural products with an emphasis on their molecular basis, cellular pathways, metabolic organs, and endocrine regulations. This sensational volume provides the scientific names, botanical classifications, botanical descriptions, medicinal uses, chemical constituents, and pharmacological activities of more than 100 Asian plants, with high quality original botanical plates, chemical structures, and pharmacological diagrams. It also lists hundreds of carefully selected bibliographical references, constituents on insulin resistance, obesity, atherosclerosis, atherogenic dyslipidemia, and endothelial dysfunction.

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This major work has but one aim: to provide breeders and researchers from the public and private sectors with all the latest information on the breeding of crops of economic relevance. Also, it serves as a major reference book for post-graduate courses and PhD courses on breeding vegetable crops, as well a one-stop-shop for horticulturists and extension agents interested in current advancements in the development of new vegetable crops varieties. Each chapter incorporates the most up-to-date information on the crops examined, and an important novelty is that, in comparison to other books already published on this subject this one contains the most cutting-edge information on molecular breeding techniques.

This book presents the latest information on the genetics and genomics of the globe artichoke. It focuses on the latest findings, tools and strategies employed in genome sequencing, physical map development and QTL analyses, as well as genomic resources. The re-sequencing of four globe artichoke genotypes, representative of the core varietal types in cultivation, as well as the genotype of cultivated cardoon, has recently been completed. Here, the five genomes are reconstructed at the chromosome scale and annotated. Moreover, functional SNP analyses highlight numerous genetic variants, which represent key tools for dissecting the path from sequence variation to phenotype, as well as for

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designing effective diagnostic markers. The wealth of information provided here offers a valuable asset for scientists, plant breeders and students alike. Reviews scientific and technological information about the world's major food plants and their culinary uses. This title features a chapter that discusses nutritional and other fundamental scientific aspects of plant foods. It covers various categories of food plants such as cereals, oilseeds, fruits, nuts, vegetables, legumes, herbs, and spices.

Sixty ESCOP monographs were published during the late 1990s. All have been updated and expanded, and this second edition includes a further twenty monographs. The text constitutes an up-to-date review of scientific information on the therapeutic uses of herbal medicines.

A must-have health companion for herbalists, naturopaths, complementary medicine practitioners and students Herbs and Natural Supplements, 3rd Edition: An evidence-based guide presents evidence-based information on the 130 most popular herbs, nutrients and food supplements used across Australia and New Zealand. This exhaustive textbook is organised alphabetically by each herb or nutrient's common name. Herbs and nutrients are then accompanied by critical information such as daily intake, main actions and indications, adverse reactions, contraindications and precautions, safety in pregnancy and more. This new edition of Herbs

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and Natural Supplements has been expanded with new chapters on pregnancy and wellness. It also features 10 new monographs for Arginine, Dunaliella, Elde, Goji, Pelargonium, Prebiotics, Red Yeast Rice, Rhodiola, Shatavari and Taurine. • provides current, evidence-based information on herbal, nutritional and food supplements used in Australia and New Zealand • is user-friendly and easily organised by easy-to-find A-Z herbal monographs • appendices offering important additional information for the safe use of herbal and nutritional supplements, including a list of poison information centres, associations, manufacturers and more • offers clear, comprehensive tables including herb/natural supplement - drug interactions • lists the pharmacological actions of all herbs and natural supplements • a glossary of terms relevant to herbs and natural supplements • two comprehensive new chapters: Herbs and Natural Supplements in Pregnancy and Introduction to Wellness • all chapters completely updated and expanded • ten new monographs taking the total to 130 • now also available as an eBook! A code inside Herbs and Natural Supplements, 3rd Edition: An evidence-based guide enables a full text download, allowing you to browse and search electronically, make notes and bookmarks in the electronic files and highlight material

The twenty-first century edition of this

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groundbreaking work presents authoritative health and nutrition information available in an easy-to-use format and a friendly, engaging tone. “An excellent guide for those wishing to make smarter dietary choices.”—Andrew Weil, M.D., author of *Healthy Aging Decades* of practical experience and scientific research from Dr. Elson Haas and Dr. Buck Levin are compiled into one encyclopedic volume that features newly expanded chapters on special supplements, lifestage programs, and breakthrough medical treatment protocols for fatigue, viruses, weight management, and mental and mood disorders such as anxiety, ADHD, and depression. Part One gives a detailed analysis of the building blocks of nutrition: water, carbohydrates, proteins, fats and oils, vitamins, minerals, and other nutrients. Part Two evaluates food and diets, discussing every food group and most diets around the world. A special chapter on the environment and nutrition raises awareness and offers guidance about food additives, industrial chemicals, food irradiation, electro-pollution, and other health and ecological issues. Part Three brings all of this nutritional information together, showing readers how to make wise and commonsense choices while building a healthy diet. A personalized eating plan for the year, the Ideal Diet is both seasonally and naturally based, and a healthy lifelong diet. Part Four contains specific nutritional and life-style therapies for

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enhancing all stages of life and suggests treatments for common conditions and diseases such as aging, menopause, bone loss, weight loss, and cancer by focusing on nutritional applications: thirty-two special diet and supplemental programs. Anyone interested in enhancing wellness, eating right, treating illness naturally, and living in harmony with nature will find *Staying Healthy with Nutrition* to be the ultimate handbook for optimal health and vitality.

The book discusses and covers all the basics of vegetable production in a precise manner. The latest area, production and recent scenario of vegetables in the world market are also detailed. It covers nearly all the aspects of vegetables starting from the classification, nitty-gritty, detailed agronomic practices to the harvest, storage and value addition. The role of various nutrients along with their deficiency symptoms is included in the book. The major weeds, pests and diseases as well as their management is described in the book. The book can be very useful for the students of graduate level, post graduate level, doctorate level and for preparing various competitive examinations. It also contains question bank which could be extremely helpful for the students.

The determination of food authenticity is a vital component of quality control. Its importance has been highlighted in recent years by high-profile cases in the global supply chain such as the European horsemeat and the Chinese melamine scandals, the latter of which led to six fatalities and the hospitalization of thousands of infants. As well as being a safety concern, authenticity is also a quality criterion for food and food ingredients. Consumers and retailers demand that the products they purchase and sell are what they purport to be. This book covers the most advanced techniques used for

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the authentication of a vast number of products around the world. The reader will be informed about the latest pertinent analytical techniques. Chapters focus on the novel techniques and markers that have emerged in recent years. An introductory section presents the concepts of food authentication, while the second section examines in detail the analytical techniques for the detection of fraud relating to geographical, botanical, species, and processing origin and production methods of food materials and ingredients. Finally, the third section looks at consumer attitudes towards food authenticity, the application of bioinformatics to this field, and the Editor's conclusions and future outlook. Beyond being a reference for researchers working in food authentication, this book will serve as an essential resource for analytical scientists interested in the field and food scientists aiming to appreciate analytical approaches. This book will be a companion to under- and postgraduate students in their studies in food authentication, and will be useful to researchers in universities and research institutions. Features more than five hundred plants and herbs of North America providing information on their location and medicinal uses.

A bitters-making handbook with a beautiful, botanical difference; three scientists present the back-stories and exciting flavours of plants from around the globe, in a range of tasty, healthy tinctures.

Technological innovations, customer expectations, and economical situations have been forcing the dairy industry to adapt to changes in technologies and products. The goal of this book is to present some new approaches on dairy processing. It will provide several applications on the use of some novel technologies in various dairy products, the improvement of functionalities and quality systems of dairy products, and the advances in dairy wastewater treatment.

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The book will be useful for both practicing professionals and researchers in the dairy field. I would like to send my sincere thanks to all the authors for their hard work and contributions. Edible Medicinal And Non-Medicinal Plants Volume 7, Flowers Springer Science & Business Media

Our lives and well being intimately depend on the exploitation of the plant genetic resources available to our breeding programs. Therefore, more extensive exploration and effective exploitation of plant genetic resources are essential prerequisites for the release of improved cultivars. Accordingly, the remarkable progress in genomics approaches and more recently in sequencing and bioinformatics offers unprecedented opportunities for mining germplasm collections, mapping and cloning loci of interest, identifying novel alleles and deploying them for breeding purposes. This book collects 48 highly interdisciplinary articles describing how genomics improves our capacity to characterize and harness natural and artificially induced variation in order to boost crop productivity and provide consumers with high-quality food. This book will be an invaluable reference for all those interested in managing, mining and harnessing the genetic richness of plant genetic resources.

This book is a comprehensive overview of invited contributions on Helicobacter pylori infection in gastritis and gastric carcinogenesis. The first part of the book covers topics related to the pathophysiology of gastric mucosal defense system and gastritis including the gastroprotective function of the mucus, the capsaicin-sensitive afferent nerves and the oxidative stress pathway involved in inflammation, apoptosis and autophagy in H. pylori related gastritis. The next chapters deal with molecular pathogenesis and treatment, which consider the role of neuroendocrine cells in gastric disease, DNA methylation in H. pylori infection, the role of antioxidants

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and phytotherapy in gastric disease. The final part presents the effects of cancer risk factors associated with *H. pylori* infection. These chapters discuss the serum pepsinogen test, K-ras mutations, cell kinetics, and *H. pylori* lipopolysaccharide, as well as the roles of several bacterial genes (*cagA*, *cagT*, *vacA* and *dupA*) as virulence factors in gastric cancer, and the gastrokine-1 protein in cancer progression.

This book continues as volume 7 of a multi-compendium on Edible Medicinal and Non-Medicinal Plants. It covers plant species with edible flowers from families Acanthaceae to Facaceae in a tabular form and seventy five selected species from Amaryllidaceae, Apocynaceae, Asclepiadaceae, Asparagaceae, Asteraceae, Balsaminaceae, Begoniaceae, Bignoniaceae, Brassicaceae, Cactaceae, Calophyllaceae, Caprifoliaceae, Caryophyllaceae, Combretaceae, Convolvulaceae, Costaceae, Doryanthaceae and Fabaceae in detail. This work will be of significant interest to scientists, medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, botanists, agriculturists, conservationists, lecturers, students and the general public. Topics covered include: taxonomy; common/English and vernacular names; origin and distribution; agroecology; edible plant parts and uses; botany; nutritive/pharmacological properties, medicinal uses, nonedible uses; and selected references.

Issues in Chemical, Biological, and Medical Engineering: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Chemical, Biological, and Medical Engineering. The editors have built Issues in Chemical, Biological, and Medical Engineering: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chemical, Biological, and Medical Engineering in this eBook

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to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Chemical, Biological, and Medical Engineering: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Herbs and Natural Supplements, 4th Edition: An evidence-based guide is an authoritative, evidence-based reference. This two-volume resource is essential to the safe and effective use of herbal, nutritional and food supplements. The second volume provides current, evidence-based monographs on the 132 most popular herbs, nutrients and food supplements. Organised alphabetically, each monograph includes daily intake, main actions and indications, adverse reactions, contraindications and precautions, safety in pregnancy and more. Recommended by the Pharmacy Board of Australia as an evidence-based reference works (print) that pharmacists are meant to have access to when dispensing Contributed content from naturopaths, GPs, pharmacists, and herbalists Useful in a clinical setting as well as a reference book. It provides up-to-date evidence on the latest research impacting on herbal and natural medicine by top leaders in Australia within the fields of Pharmacy, Herbal Medicine and Natural Medicine

This important volume provides a comprehensive overview of hepatotoxicity and medicinal plants used for protecting the liver and for curing liver toxicity and liver diseases. To date, there has been no extensive resource on the plants that are used in this capacity, both in traditional medicine and in

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modern medicine. This book fills that gap. It presents information on the medicinal plants used in traditional medicine (both codified and noncodified) and in ethnomedicine, including the plant parts used and methods of use and dosages. The phytochemicals extracted from medicinal plants, screened and used in modern medicine for liver protection and curing liver problems, are given in detail, and the methods of screening are given as well. Methods of assay for screening the medicinal plants are also presented. Key features:

- Provides complete information on plants that show hepatoprotective properties
- Lists and discusses the phytochemicals useful for liver protection and cures
- Considers traditional uses and ethnomedicinal plants for liver protection
- Details the plant parts and the extracts that have protection properties and the active principles showing hepatoprotection

While the gastrointestinal tract ingests, digests, and absorbs nutrients, the liver transforms nutrients, synthesizes plasma proteins, and detoxifies bacteria and toxins absorbed from the gut. It is therefore not surprising that gastrointestinal and hepatic diseases have a major impact on the nutritional state of the individual. Integrating nutrition and the gastrointestinal system, the Gastrointestinal and Liver Disease Nutrition Desk Reference brings together experts in the field of nutrition, gastroenterology, and hepatology to offer dietary, nutritional, and natural therapies for gastrointestinal and hepatic ailments in order to improve overall health. Providing a review of the digestive tract, liver, and core concepts, this important reference presents the nutritional consequences and considerations of digestive disorders. Contributors examine the role of nutrition in gastrointestinal and liver disease, including alcoholic and nonalcoholic liver disease, viral hepatitis, cirrhosis, malabsorption, colorectal disease, transplantation, pancreatitis, and inflammatory bowel disease.

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Of special interest to the practitioner are chapters on food allergy and intolerance, the effects of medicinal plants, and the role of fiber in the gastrointestinal tract. The reference also addresses the challenges of managing nutritional issues for hospitalized patients and covers eating disorders and ethical issues. Other key topics include: Obesity Clinical applications of probiotics The impact of micronutrient deficiencies Genomic applications for gastrointestinal care Drug-drug and drug-nutrient interactions Guidelines for performing a nutrition assessment This comprehensive reference offers a toolbox of key concepts, charts, tables, algorithms, and practical therapeutic strategies for practitioners involved in gastrointestinal and hepatic nutrition care. Dr. Mullin maintains a website discussing the integration of both Eastern and Western (conventional) medicines to help patients overcome their digestive illnesses.

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