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This book is a printed edition of the Special Issue "Prebiotics and Probiotics" that was published in Nutrients

Reference tool for Rare Books Collection.

Handbook of Molecular Microbial Ecology II

Index Medicus

La Chasse Illustrée

Comprising the Definitions and Derivations of the Scientific Terms in General Use, Together with the History and Descriptions of the Scientific Principles of Nearly Every Branch of Human Knowledge

National Agricultural Library Catalog

Textbook of Natural Medicine - E-Book

Microbiome and Metabolome in Diagnosis, Therapy, and Other Strategic Applications is the first book to simultaneously cover the microbiome and the metabolome in relevant clinical conditions. In a pioneering fashion, it addresses not only the classic intestinal environment, but also the oral, gastric, lung, skin and vaginal microbiome that is in line with the latest investigations. Nonbacterial microbiomes, such as fungi and viruses are not overlooked, and the plasma microbiome is also discussed. As plasma, brain, placenta, tumor cells, and other sterile fluids and tissues, are increasingly recognized to potentially host a microbiome, albeit a limited one, this is a timely resource. The book's editors were fortunate to have the input of renowned collaborators from nearly all continents. This is truly an international effort that brings the latest in the field to students and professionals alike. Provides comprehensive coverage on diagnosis, therapy, pharmacotherapy and disease prevention in context of the microbiome and metabolome Focuses on the proposed physiological or pathological conditions Presents an up-to-date, useful reference

Authors and Subjects. 2nd series

Cumulated Index Medicus

Current Bibliography of Epidemiology

History of the Decline and Fall of the Roman Empire

Monthly Bibliography of Medical Reviews

While functional foods have become a reasonably well-established concept, personalized nutrition is still treated with skepticism by many. The recognition that people would have different nutrient requirements, or perceive foods in different ways, raises several concerns-some real, some not so real. Nutrigenomics and Nutrigenetics in Functional Foo

Polyphenols in Human Health and Disease documents antioxidant actions of polyphenols in protection of cells and cell organelles, critical for understanding their health-promoting actions to help the dietary supplement industry. The book begins by describing the fundamentals of absorption, metabolism and bioavailability of polyphenols, as well as the effect of microbes on polyphenol structure and function and toxicity. It then examines the role of polyphenols in the treatment of chronic disease, including vascular and cardiac health, obesity and diabetes therapy, cancer treatment and prevention, and more. Explores neuronal protection by polyphenol metabolites and their application to medical care Defines modulation of enzyme actions to help researchers see and study polyphenols' mechanisms of action, leading to clinical applications

Includes insights on polyphenols in brain and neurological functions to apply them to the wide range of aging diseases

Selected References on Environmental Quality as it Relates to Health

Microbiome and Metabolome in Diagnosis, Therapy, and other Strategic Applications

Dietary Carbohydrate Digestibility and Metabolic Effects in Human Health

Index Catalogue of the Library of the Surgeon-general's Office, United States Army (-United States Army, Army Medical Library; -National Library of Medicine).

Metagenomics in Different Habitats

"Handbook of Molecular Microbial Ecology I: Metagenomics and Complementary Approaches is the first comprehensive reference covering the various metagenomics in a large variety of habitats, which could not previously have been analysed without metagenomic methodology. This Volume includes topics such as species designations in microbiology, metagenomics, consortia and databases, bioinformatics, microarrays, and other metagenomics applications. This reference is ideal for researchers in metagenomics, microbiology, environmental microbiology, those working on the Human Microbiome Project, microbial geneticists, molecular microbiology, and bioinformatics"--

High-throughput sequencing technologies are widely used to study microbial ecology across species and habitats in order to understand the impacts of microbial communities on host health, metabolism, and the environment. Due to the dynamic nature of microbial communities, longitudinal microbiome analyses play an essential role in these types of investigations. Key questions in microbiome studies aim at

identifying specific microbial taxa, enterotypes, genes, or metabolites associated with specific outcomes, as well as potential factors that influence microbial communities. However, the characteristics of microbiome data, such as sparsity and skewedness, combined with the nature of data collection, reflected often as uneven sampling or missing data, make commonly employed statistical approaches to handle repeated measures in longitudinal studies inadequate. Therefore, many researchers have begun to investigate methods that could improve incorporating these features when studying clinical, host, metabolic, or environmental associations with longitudinal microbiome data. In addition to the inferential aspect, it is also becoming apparent that visualization of high dimensional data in a way which is both intelligible and comprehensive is another difficult challenge that microbiome researchers face. Visualization is crucial in both the analysis and understanding of metagenomic data. Researchers must create clear graphic representations that give biological insight without being overly complicated. Thus, this Research Topic seeks to both review and provide novel approaches that are being developed to integrate microbiome data and complex metadata into meaningful mathematical, statistical and computational models. We believe this topic is fundamental to understanding the importance of microbial communities and provides a useful reference for other investigators approaching the field.

Index-catalogue of the Library of the Surgeon General's Office, United States Army (Armed Forces Medical Library).

Textbook of Natural Medicine - E-Book

Index-catalogue of the Library of the Surgeon-General's Office, United States Army

Authors and Subjects

Transactions

Includes section, "Recent book acquisitions" (varies: Recent United States publications) formerly published separately by the U.S. Army Medical Library.

The future prospects of probiotics lie in the successful application of individual strains with specific beneficial effects on the host. This development implies that not only the most robust strains are selected but also strains with a promising probiotic function with moderate or high sensitivity to processing stresses. This also means an increasing variety of probiotic strains with different functions. Therefore the processing of probiotics becomes an important issue. The strains have to be cultivable and proper growth conditions have to be known. Another very important step in processing is the preservation step. This includes either the freezing and frozen storage or the drying and storage in powder form. The fermentation, drying, and storage processes are highly interrelated. Therefore a holistic approach has to be chosen for the production of highly effective probiotic formulation. The book comprises state-of-the-art knowledge on isolation and characterization of probiotics as well as processing (fermentation, freezing, drying, and storage) and application of probiotics in different food products. This book will serve as a guidebook to researchers, technologists, and industry professionals in the field of probiotics.

Dictionary Catalog of the Rare Book Division

Cumulative listing

The History of the Decline and Fall of the Roman Empire

Advances in Probiotic Technology

Grand Dictionnaire Universel [du XIXe Siecle] Francais: A-Z 1805-76

The molecular age has brought about dramatic changes in medical microbiology, and great leaps in our understanding of the mechanisms of infectious disease. Molecular Medical Microbiology is the first book to synthesise the many new developments in both molecular and clinical research in a single comprehensive resource. This timely and authoritative three-volume work is an invaluable reference source of medical bacteriology. Comprising more than 100 chapters, organized into 17 major sections, the scope of this impressive work is wide-ranging. Written by experts in the field, chapters include cutting-edge information, and clinical overviews for each major bacterial group, in addition to the latest updates on vaccine development, molecular technology and diagnostic technology. Topics covered include bacterial structure, cell function, and genetics; mechanisms of pathogenesis and prevention; antibacterial agents; and infections ranging from gastrointestinal to urinary tract, central nervous system, respiratory tract, and more. The first comprehensive and accessible reference on molecular medical microbiology Full color presentation throughout In-depth discussion of individual pathogenic bacteria in a system-oriented approach Includes a clinical overview for each major bacterial group Presents the latest information on vaccine development, molecular technology, and diagnostic technology More than 100 chapters covering all major groups of bacteria Written by an international panel of authors who are experts in their respective disciplines

The purpose of this Special Issue "Nutrition in Inflammatory Bowel Disease (IBD)" is to increase knowledge regarding the role of dietary composition and effects in IBD, describing the prevalence of malnutrition in IBD and the effect on clinical outcomes, discussing methods of nutrition risk screening and assessment in IBD, and reviewing mechanisms through which diet and dietary components may affect disease severity. The articles focus on the following areas: Dietary Composition/Therapy Interventions in Ulcerative Colitis and effects on outcomes; Dietary Composition/Therapy Interventions in Crohn's Disease and effects on outcomes; Nutrition Risk Screening and Assessment in IBD; Mechanisms of Diet in the pathogenesis of IBD.

Research Grants Index

Authors and subjects

Index-catalogue of the Library of the Surgeon-general's Office, United States Army

Prebiotics and Probiotics

Authors and Subjects ...

The Bifidobacteria and Related Organisms: Biology, Taxonomy, Applications brings together authoritative reviews on all aspects of Bifidobacteria and related genera. The Phylum Actinobacteria is discussed first, and this is followed by descriptions of the genera Bifidobacterium, Alloscardovia, Aeriscardovia, Bombiscardovia, Gardnerella, M, Parascardovia and Scardovia and the currently accredited species within those genera. The increased availability of genome sequences and molecular tools for studying important information about their taxonomy, physiology and interactions with their host. Also considerations about common bifidobacterial core maintenance during the host and its intestinal microbes could be relevant for health claims for the ability of symbiotic gut bacteria to provide health benefits to their host, and for evaluating valid experiments. Chemotaxonomy is important to our understanding of these genera and so is considered along with physiological and biochemical aspects before practical and other practical aspects. The ability to maintain pure cultures and to grow cells in industrial quantities when required for applications requires that the cells' environmental needs are well understood. Some species are important clinically and as animal digestive tract symbionts—and even play a part in honey production—so these matters milk oligosaccharides' roles in gut flora development in neonates. Presents information on all bacteria in this group in one place Provides applications and technological alongside more academic matters such as nomenclature and phylogeny Includes basic information on the beneficial role of bifidobacteria in the human gut, with particular Provides information on genomic and gene modification technologies

Literature Search

Current List of Medical Literature

Guizot's Gibbon

Novel Approaches in Microbiome Analyses and Data Visualization

Nutrition in Inflammatory Bowel Disease (IBD)