

Handbook On Sourdough Biotechnology

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Handbook On Sourdough Biotechnology

This book aims at defining and highlighting the microbiological, technological, nutritional, and chemical aspects of sourdough biotechnology. The book will be the first reference guide on this topic for the worldwide scientific, teaching and students communities, also opening a way of communication and transferring the main results to a more productive industrial application.

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Though sourdough has been and will remain a unique fermentation process, this is the first book dedicated completely to sourdough biotechnology. It reviews the history of sourdough and the potential of sourdough fermentation in the production of bread and baked goods.

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Handbook On Sourdough Biotechnology

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In the last few decades, many efforts have been made to exploit sourdough's potential for making baked goods. Through the biotechnology of this traditional baking method, many sensory, rheological, nutritional, and shelf-life properties have been discovered and/or rediscovered. Bakery industries are greatly attracted by the potentials that sourdough presents, and new industrial protocols are being developed. To the best of our knowledge, there has been no single book dedicated to sourdough biotechnology, and which clearly demonstrate its potential. This book aims at defining and highlighting the microbiological, technological, nutritional, and chemical aspects of sourdough biotechnology. The book will be the first reference guide on this topic for the worldwide scientific, teaching and students communities, also opening a way of communication and transferring the main results to a more productive industrial application.

Handbook of Molecular Gastronomy: Scientific Foundations and Culinary Applications presents a unique overview of molecular gastronomy, the scientific discipline dedicated to the study of phenomena that occur during the preparation and consumption of dishes. It deals with the chemistry, biology and physics of food preparation, along with the physiology of food consumption. As such, it represents the first attempt at a comprehensive reference in molecular gastronomy, along with a practical guide, through selected examples, to molecular cuisine and the more recent applications named note by note cuisine.

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While several books already exist for a general audience, either addressing food science in general in a "light" way and/or dealing with modern cooking techniques and recipes, no book exists so far that encompasses the whole molecular gastronomy field, providing a strong interdisciplinary background in the physics, biology and chemistry of food and food preparation, along with good discussions on creativity and the art of cooking. Features: Gives A-Z coverage to the underlying science (physics, chemistry and biology) and technology, as well as all the key cooking issues (ingredients, tools and methods). Encompasses the science and practice of molecular gastronomy in the most accessible and up-to-date reference available. Contains a final section with unique recipes by famous chefs. The book is organized in three parts. The first and main part is about the scientific discipline of molecular and physical gastronomy; it is organized as an encyclopedia, with entries in alphabetical order, gathering the contributions of more than 100 authors, all leading scientists in food sciences, providing a broad overview of the most recent research in molecular gastronomy. The second part addresses educational applications of molecular gastronomy, from primary schools to universities. The third part provides some innovative recipes by chefs from various parts of the world. The authors have made a particular pedagogical effort in proposing several educational levels, from elementary introduction to deep scientific formalism, in order to satisfy the broadest possible audience (scientists and non-scientists). This new resource should be very useful to food scientists and chefs, as well as food and culinary science students and all lay people interested in gastronomy.

Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet, especially in rural households and village communities worldwide. Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest among scientists and food processors. Handbook of Plant-Based Fermented Food and Beverage Technology, Second Edition is an up-to-date reference exploring the history, microorganisms, quality assurance, and manufacture of fermented food products derived from plant sources. The book begins by describing fermented food flavors, manufacturing, and biopreservation. It then supplies a detailed exploration of a range of topics, including: Soy beverages and sauce, soymilk, and tofu Fruits and fruit products, including wine, capers, apple cider and juice, mangos, olive fruit, and noni fruits Vegetables and vegetable products, including red beet juice, eggplant, olives, pickles, sauerkraut, and jalapeño peppers Cereals and cereal products, including fermented bread, sourdough bread, rice noodles, boza, Chinese steamed buns, whiskey, and beer Specialty products such as balsamic vinegar, palm wine, cachaça, brick tea, shalgam, coconut milk and oil, coffee, and probiotic nondairy beverages Ingredients such as proteolytic bacteria, enzymes, and probiotics Fermented food products play a critical role in cultural identity, local economy, and

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gastronomical delight. With contributions from over 60 experts from more than 20 countries, the book is an essential reference distilling the most critical information on this food sector.

Current Developments in Biotechnology and Bioengineering: Food and Beverages Industry provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends compiled from the latest ideas across the entire arena of biotechnology and bioengineering. This volume reviews current developments in the application of food biotechnology and engineering for food and beverage production. As there have been significant advances in the areas of food fermentation, processing, and beverage production, this title highlights the advances in specific transformation processes, including those used for alcoholic beverage and fermented food production. Taking a food process and engineering point-of-view, the book also aims to select important bioengineering principles, highlighting how they can be quantitatively applied in the food and beverages industry. Contains comprehensive coverage of food and beverage production Covers all types of fermentation processes and their application in various food products Includes unique coverage of the biochemical processes involved in beverages production

The revised and expanded text on food fermentation microbiology With this second edition of Microbiology and Technology of Fermented Foods, Robert Hutkins brings fresh perspectives and updated content to his exhaustive and engaging text on food fermentations. The text covers all major fermented foods, devoting chapters to fermented dairy, meat, and vegetable products, as well breads, beers, wines, vinegars, and soy foods. These insights are enhanced by detailed explanations of the microbiological and biochemical processes that underpin fermentation, while an account of its fascinating history provides readers with richly contextualizing background knowledge. New to this edition are two additional chapters. One discusses the role that fermentation plays in the production of spirits and other distilled beverages, whereas another focuses on cocoa, coffee, and fermented cereal products. Furthermore, key chapters on microorganisms and metabolism have been expanded and elaborated upon, and are complemented by other relevant revisions and additions made throughout the book, ensuring that it is as up-to-date and applicable as possible. This essential text includes: Discussions of major fermented foods from across the globe Background information on the science and history behind food fermentation Information on relevant industrial processes, technologies, and scientific discoveries Two new chapters covering distilled spirits and cocoa, coffee, and cereal products Expanded chapters on microorganisms and metabolism Microbiology and Technology of Fermented Foods, Second Edition is a definitive reference tool that will be of great interest and use to industry professionals, academics, established or aspiring food scientists, and anyone else working with fermented foods.

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Innovations in Traditional Foods addresses the most relevant topics of traditional foods while placing emphasis on the introduction of innovations and consumer preferences. Certain food categories, such as fruits, grains, nuts, seeds, grains and legumes, vegetables, mushrooms, roots and tubers, table olives and olive oil, wine, fermented foods and beverages, fish, meat, milk and dairy products are addressed. Intended for food scientists, technologists, engineers and chemists working in food science, product developers, SMEs, researchers, academics and professionals, this book provides a reference supporting technological advances, product development improvements and potential positioning in the traditional food market. Addresses the most relevant topics of traditional foods while placing emphasis on the introduction of innovations and consumer preferences Provides a reference supporting technological advances, product development improvements, and potential positioning in the traditional food market Contains coverage of various food categories, including fruits, grains, nuts, seeds, grains and legumes, vegetables, mushrooms, roots and tubers, table olives and olive oil, wine, fermented foods and beverages, fish, meat, and milk and dairy products

Encyclopedia of Food Chemistry is the ideal primer for food scientists, researchers, students and young professionals who want to acquaint themselves with food chemistry. Well-organized, clearly written, and abundantly referenced, the book provides a foundation for readers to understand the principles, concepts, and techniques used in food chemistry applications. Articles are written by international experts and cover a wide range of topics, including food chemistry, food components and their interactions, properties (flavor, aroma, texture) the structure of food, functional foods, processing, storage, nanoparticles for food use, antioxidants, the Maillard and Strecker reactions, process derived contaminants, and the detection of economically-motivated food adulteration. The encyclopedia will provide readers with an introduction to specific topics within the wider context of food chemistry, as well as helping them identify the links between the various sub-topics. Offers readers a comprehensive understanding of food chemistry and the various connections between the sub-topics Provides an authoritative introduction for non-specialists and readers from undergraduate levels and upwards Meticulously organized, with articles structured logically based on the various elements of food chemistry

This book introduces readers to basic studies on and applied techniques involving lactic acid bacteria, including their bioengineering and industrial applications. It summarizes recent biotechnological advances in lactic acid bacteria for food and health, and provides detailed information on the applications of these bacteria in fermented foods. Accordingly, it offers a valuable resource for researchers and graduate students in the fields of food microbiology, bioengineering, fermentation engineering, food science, nutrition and health.

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Baking is a process that has been practiced for centuries, and bakery products range in complexity from the simple ingredients of a plain pastry to the numerous components of a cake. While currently there are many books available aimed at food service operators, culinary art instruction and consumers, relatively few professional publications exist that cover the science and technology of baking. In this book, professionals from industry, government and academia contribute their perspectives on the state of industrial baking today. The second edition of this successful and comprehensive overview of bakery science is revised and expanded, featuring chapters on various bread and non-bread products from around the world, as well as nutrition and packaging, processing, quality control, global bread varieties and other popular bakery products. The book is structured to follow the baking process, from the basics, flour and other ingredients, to mixing, proofing and baking. Blending the technical aspects of baking with the latest scientific research, Bakery Products Science and Technology, Second Edition has all the finest ingredients to serve the most demanding appetites of food science professionals, researchers, and students.

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