



Biotechnology of Lactic Acid Bacteria: Novel Applications

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Lactic acid bacteria (LAB) have historically been used as starter cultures for the production of fermented foods, especially dairy products. Over recent years, new areas have had a strong impact on LAB studies: the application of 'omics' tools; the study of complex microbial ecosystems; the discovery of new LAB species; and the use of LAB as powerhouses in the food and medical industries.

This second edition of *Biotechnology of Lactic Acid Bacteria: Novel Applications* addresses the major advances in the fields over the last five years. Thoroughly revised and updated, the book includes new chapters. Among them:

- The current status of LAB systematics;
- The role of LAB in the human intestinal microbiome and the intestinal tract of animals and its impact on the health and disease state of the host;
- The involvement of LAB in fruit and vegetable fermentations;
- The production of nutraceuticals and aroma compounds by LAB; and
- The formation of biofilms by LAB.

This book is an essential reference for established researchers and scientists, clinical and advanced students, university professors and instructors, nutritionists and food technologists working on food microbiology, physiology and biotechnology of lactic acid bacteria.

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K Balamurugan, Prithika Udayakumar



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Microbial Biotechnology

Yuan Kun Lee,2006 In the second edition of this bestselling textbook new materials have been added including a new chapter on real time polymerase chain reaction RTPCR and a chapter on fungal solid state cultivation There already exist a number of excellent general textbooks on microbiology and biotechnology that deal with the basic principles of microbial biotechnology To complement them this book focuses on the various applications of microbial biotechnological principles A teaching based format is adopted whereby working problems as well as answers to frequently asked questions supplement the main text The book also includes real life examples of how the application of microbial biotechnological principles has achieved breakthroughs in both research and industrial production Although written for polytechnic students and undergraduates the book contains sufficient information to be used as a reference for postgraduate students and lecturers It may also serve as a resource book for corporate planners managers and applied research personnel

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Sustainable 3D Printing for Innovative Biopolymer Production and Applications Bhasha Sharma, Balaram Pani, Shashank Shekhar, Jude A. Okolie, 2025-02-19 This book highlights 3D printed biopolymers advancements and sustainability exploring cutting edge research and real world applications Biopolymers have garnered global interest due to environmental concerns and are widely utilized in applications such as biomedicine food textiles and cosmetics Techniques like 3D printing have been extensively studied to fabricate reliable and efficient products particularly in tissue engineering These techniques enable the production of materials with complex structures and diverse functional groups The book provides a comprehensive account of contemporary advancements in 3D printed biopolymers emphasizing their role in promoting sustainability and supporting the circular economy Featuring meticulously curated chapters by leading scientists it integrates diverse disciplines including green biopolymers nanotechnology functionalization techniques and material synthesis offering a holistic understanding of the field Several chapters delve into 3D printing processing techniques and their applications in areas such as water purification energy storage and biomedical advancements Additionally the book addresses progress in biopolymer technology exploring its challenges and future prospects Audience This book is ideal for industrial manufacturers environmental chemists materials and biopolymer scientists and researchers in industries such as biomedicine food textiles packaging and cosmetics

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Nutrients in Dairy and Their Implications for Health and Disease Ronald Ross Watson, Robert J Collier, Victor R Preedy, 2017-06-19 Nutrients in Dairy and Their Implications for Health and Disease addresses various dairy products and their impact on health This comprehensive book is divided into three sections and presents a balanced overview of the health benefits of milk and milk products Summaries capture the most salient points of each chapter and the importance of milk and its products as functional foods is addressed throughout Presents various dairy products and their impact on health Provides information on dairy milk as an important source of micro and macronutrients that impact body functions Addresses dietary supplements and their incorporation into dairy products

Lactic Acid Bacteria Wei Chen, 2019-08-08 This book discusses the latest research and new techniques in the field of lactic acid bacteria including comparative genomics transcriptomics proteomics and metabolomics It also introduces the omics and functional evaluation in detail and shows the links between lactic acid bacteria and gut health and host immunity Summarizing the biotechnological advances in lactic acid bacteria for food and health it is a valuable resource for researchers and graduate students in the fields of food microbiology

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Pocket Guide to Bacterial Infections K Balamurugan,Prithika Udayakumar,2019-02-07 *Pocket Guide to Bacterial Infections* provides information pertinent to the behaviour of bacterial cells during their interactions with different cell types of multiple host systems This book will present the role of various bacterial pathogens affecting the host system The book is to be organized flexibly so that chapters and topics are arranged with continuity from the former chapters Each chapter has been made as self contained as possible to promote this flexibility This book will discuss each of the virulence properties of the bacteria with reference to their interacting hosts in a larger perspective Kwey selling features Summarizes the role various bacterial pathogens affect the host system Reviews recent advances for combating different types of bacterial infections that infect different body parts Designed as an effective teaching and research tool providing up to date information on bacterial infections Defines important terms Written in a readable and direct writing style

Bacilli and Agrobiotechnology M. Tofazzal Islam,Mahfuz Rahman,Piyush Pandey,Chaitanya Kumar Jha,Abhinav Aeron,2017-01-24 This volume of comprehensive reviews updates our knowledge of research and commercialization of Bacillus based products in agriculture and the environmental sector The last couple of decades have witnessed tremendous growth of research on Bacillus species Many of these species can produce industrial enzymes and can act simultaneously as biofertilizers and as biopesticides inhibiting important phytopathogens This biocontrol activity is now elucidated by a number of genomic and metabolomic studies Bacillus formulations are being patented and commercialized on a regular basis Understanding the biology ecology and mechanism of action of these bacteria will play a role in the promotion of Bacillus based products to support green technology in agriculture and agro based industries

Lactic Acid Bacteria: Microbial Metabolism and Expanding Applications Jian-Ming Liu,Fuping

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