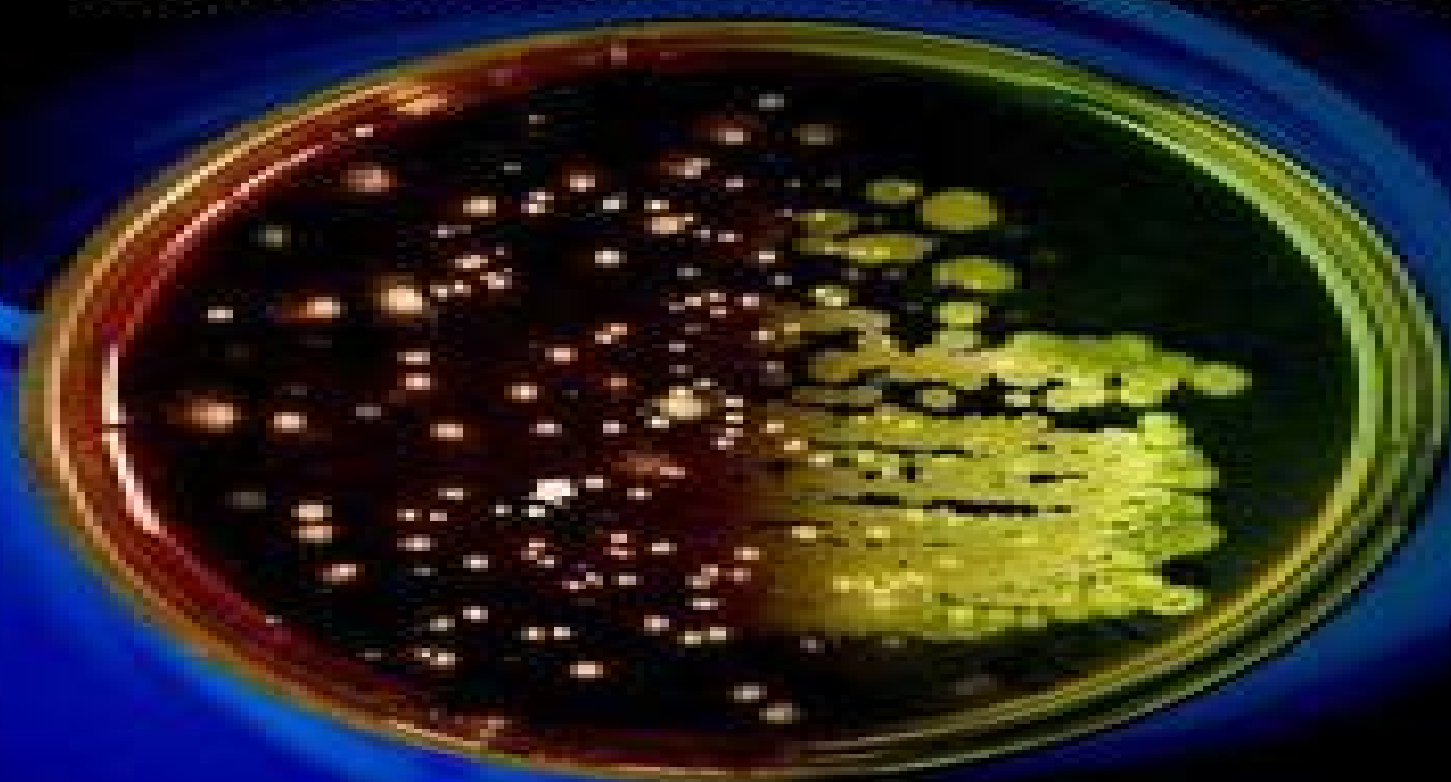


# **MICROBIAL DIVERSITY IN ASIA**

## **TECHNOLOGY AND PROSPECTS**



Edited by

Been Hen Nga, Hai Meng Tan, Ken-ichiro Suzuki

World Scientific

# Microbial Diversity In Asia Technology And Prospects

**Chunbao Li, Qingli Dong, Zhihong  
Sun, Liang Xue, Chong Zhang**



## **Microbial Diversity In Asia Technology And Prospects:**

**Microbial Diversity In Asia: Technology And Prospects** Been Hen Nga, Ken-ichiro Suzuki, Hai Meng Tan, 2001-08-29 Diversity of microbial forms in nature allows the discovery of new microorganisms that produce different types of bioactive compounds including some which may have specific physiological effects in animals Asian countries possess numerous pristine and exotic locations for the isolation of new species of microorganisms Research activities in such sciences have only recently been embarked upon by microbiologists from Asian countries as collaborative ventures The present volume describes the occurrence of diverse and new microorganisms isolated from different sites in countries in Asia This book includes papers written by eminent microbiologists on the following topics microorganisms and metabolites which promote animal and plant growth microbial versatility and its impact on environmental control utilization of microbial functions and microbial diversity isolation systematics and molecular phylogeny of microorganisms This volume also contains a section on the importance of culture collection network The subject material of the chapters has been organized in the context of microbiology in the Asian scene Microbial Diversity in Asia Been Hen Nga, Hai-Meng Tan, Ken-ichiro Suzuki, 2001 This work presents results from five years of research on microbial species in exotic and pristine locations in Asian countries by contributors in food science microbiology and agricultural and environmental sciences in the UK Japan Singapore Malaysia China Korea and Philippines Some microorganisms are described here for the first time Specific topics include lactic acid bacteria in fermented foods in Southeast Asia culture collection networks in Asia high actinomycete diversity in the tropical rainforests of Singapore and engineering biphenyl dioxygenases to acquire wide degradation capabilities of polychlorinated biphenyls and aromatic hydrocarbons The editor is affiliated with the Department of Microbiology at the National University of Singapore c Book News Inc *Seafood Processing* Ioannis S. Bozaris, 2014-02-03 Part of the new IFST Advances in Food Science Series *Seafood Processing Technology Quality and Safety* covers the whole range of current processes which are applied to seafood as well as quality and safety aspects The first part of the book *Processing Technologies* covers primary processing heating chilling freezing irradiation traditional preservation methods salting drying smoking fermentation etc frozen surimi and packaging The subjects of waste management and sustainability issues of fish processing are also covered In the second part *Quality and Safety Issues* quality and safety analysis fish and seafood authenticity and risk assessment are included *Encyclopedia of Food Microbiology* Carl A. Batt, 2014-04-02 Written by the world's leading scientists and spanning over 400 articles in three volumes the *Encyclopedia of Food Microbiology* Second Edition is a complete highly structured guide to current knowledge in the field Fully revised and updated this encyclopedia reflects the key advances in the field since the first edition was published in 1999 The articles in this key work heavily illustrated and fully revised since the first edition in 1999 highlight advances in areas such as genomics and food safety to bring users up to date on microorganisms in foods Topics such as DNA sequencing and E coli are particularly well covered With lists of further reading

to help users explore topics in depth this resource will enrich scientists at every level in academia and industry providing fundamental information as well as explaining state of the art scientific discoveries This book is designed to allow disparate approaches from farmers to processors to food handlers and consumers and interests to access accurate and objective information about the microbiology of foods Microbiology impacts the safe presentation of food From harvest and storage to determination of shelf life to presentation and consumption This work highlights the risks of microbial contamination and is an invaluable go to guide for anyone working in Food Health and Safety Has a two fold industry appeal 1 those developing new functional food products and 2 to all corporations concerned about the potential hazards of microbes in their food products

**Microbial Oxidative Enzymes** Arti Gupta,Pankaj Kumar,2023-12-31 Microbial oxidative enzymes are in need of today and in the future also Several microbial oxidative enzymes are being used by various sectors like food agriculture medicine detergents leather paper etc Microbial oxidative enzymes are a natural product hence the application of these enzymes is eco friendly Oxidative enzymes from microbes like bacteria and fungi will be helpful in numerous applications including plant soil health management and waste treatments This book will be more informative as well as useful for related industries and end users and will be of great value to those interested in present day research on oxidation reduction enzymes In the coming years this book will be a game changer for the field of oxidative enzyme development and its applications

*Handbook of Fermented Functional Foods* Edward R.(Ted) Farnworth,2008-05-28 For centuries people around the world have used fermentation to preserve and enhance the flavor of a wide variety of foods Today complex interactions of microbiota in the digestive tract are found to influence proper digestion metabolism and disease resistance With greater emphasis on natural products and the role of food in health and wellbe

Environmental Health Perspectives,1993

Microbial Diversity T. Satyanarayana,2005 Microbial Diversity Current Perspectives and Potential Applications is woven around the recent global perceptions of microbial diversity Diverse perspectives are discussed in the context of ecosystem dynamics taking into consideration environments that are rather unique to microorganisms Considerable focus is placed on the role that microorganisms play in sustainable production systems The microbe plant interaction dynamic is highlighted in the discussion of mycorrhizal partners on which depends not only the plant community structure but also abatement of abiotic and biotic stresses Another mutualist rhizobia gets its due coverage whereas the plant disease component carries examples from both the perspective of fungal and viral diseases Considerable emphasis is placed on a discussion of the environmental issues such as the approaches that will lead to newer bioremediation technologies No discussion of microbial diversity is complete without their implications in animal and human health Discussed in this context are L arginases in cancer therapy as well as bioactives from cyanobacteria Genomics and pathogenicity of two groups of viruses viz blue tongue and flaviviruses is highlighted whereas keratinophilic fungal forms are discussed in the context of dermatophytic infections This volume also carries a fair number of articles on commercial microbiology

International

Journal of Systematic and Evolutionary Microbiology, 2008

**Advances in Soil Microbiology: Recent Trends and Future Prospects** Tapan Kumar Adhya, Banwari Lal, Balaram Mohapatra, Dhiraj Paul, Subhasis Das, 2018-02-28 This book presents a comprehensive collection of articles illustrating the importance of microbial community structure and function for ecosystem sustainability and environmental reclamation. It addresses a diverse range of topics including microbial diversity, physiology, genomics, ecosystem function, interaction, metabolism, and the fruitful use of microbial communities for crop productivity and environmental remediation. In addition, the book explores issues ranging from general concepts on the diversity of microorganisms in soil and ecosystem function to the evolution and taxonomy of soil microbiota with future prospects. It covers cutting edge methods in soil microbial ecological studies, rhizosphere microflora, the role of organic matter in plant productivity, biological nitrogen fixation and its genetics, microbial transformation of plant nutrients in soil, plant growth promoting rhizobacteria and organic matter transformation. The book also discusses the application of microbes in biodegradation of xenobiotic contaminants. It covers bio fertilizers and their role in sustainable agriculture and soil health, biological control of insect pests and plant pathogens, and the latest tools of omics in soil microbiology i.e. genomics, proteomics, transcriptomics, and metabolomics, which offer pioneering approaches to the exploration of microbial structure and function.

Indigenous Fermented Foods of South Asia V.K. Joshi, 2016-01-05 Indigenous Fermented Foods of South Asia covers the foods of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan, Maldives, and Afghanistan. For each type of food, its microbiology, biochemistry, biotechnology, quality, and nutritional value is covered in depth. The book discusses numerous topics including various types of fermented foods, their o

**Ethnic Fermented Foods and Alcoholic Beverages of Asia** Jyoti Prakash Tamang, 2016-08-05 Asia has a long history of preparation and consumption of various types of ethnic fermented foods and alcoholic beverages based on available raw substrates of plant or animal sources and also depending on agro climatic conditions of the regions. Diversity of functional microorganisms in Asian ethnic fermented foods and alcoholic beverages consists of bacteria, Lactic acid bacteria, and Bacillus species, micrococci, etc., amylolytic and alcohol producing yeasts, and filamentous moulds. Though there are hundreds of research articles, review papers, and limited books on fermented foods and beverages, the present book, Ethnic Fermented Foods and Alcoholic Beverages of Asia, is the first of this kind on compilation of various ethnic fermented foods and alcoholic beverages of Asia. This book has fifteen chapters covering different types of ethnic fermented foods and alcoholic beverages of Asia. Some of the authors are well known scientists and researchers with vast experiences in the field of fermented foods and beverages who include Prof. Tek Chand Bhalla, Dr. Namrata Thapa, India; Prof. Yearul Kabir and Dr. Mahmud Hossain, Bangladesh; Prof. Tika Karki, Nepal; Dr. Saeed Akhtar, Pakistan; Prof. Sagarika Ekanayake, Sri Lanka; Dr. Werasinghe Sanpamangkolkhai, Thailand; Prof. Sh. Demberel, Mongolia; Dr. Yoshiaki Kitamura, Dr. Ken Ichi Kusumoto, Dr. Yukio Magariyama, Dr. Tetsuya Oguma, Dr. Toshiro Nagai, Dr. Soichi Furukawa, Dr. Chise Suzuki, Dr. Masataka Satomi, Dr. Kazunori Takamine, Dr. Naonori Tamaki, and Dr. Sota Yamamoto, Japan; Prof. Dong Hwa Shin,

Prof Cheryl Ho Lee Dr Young Myoung Kim Dr Wan Soo Park Dr Jae Ho Kim South Korea Dr Maryam Tajabadi Ebrahimi Iran Dr Francisco B Elegado Philippines Prof Ingrid Suryanti Suroso Indonesia Dr Vu Nguyen Thanh Vietnam Researchers students teachers nutritionists dieticians food entrepreneurs agriculturalist government policy makers ethnologists sociologists and electronic media persons may read this book who keep interest on biological importance of Asian fermented foods and beverages **American Book Publishing Record** ,2002 **Grassland conservation in asia: Sustainability under climate change** Jianshuang Wu,Jian Sun,Yun Jäschke,Bayartungalag Batsaikhan,Mesenbet Yibeltal,2023-06-08

*Routledge Handbook of Global Public Health in Asia* Siân M. Griffiths,Jin Ling Tang,Eng Kiong Yeoh,2014-04-16 Global public health is of growing concern to most governments and populations nowhere more so than in Asia the world's largest and most populous continent Whilst major advances have been made in controlling infectious diseases through public health measures as well as clinical medical treatments the world now faces other challenges including ageing populations and the epidemic crisis of obesity and non communicable diseases New emerging infections continue to develop and the growing threats to health due to environmental pollution and climate change increase the need for resilience and sustainability These threats to health are global in nature and this Handbook will explore perspectives on current public health issues in South Southeast and East Asia informing global as well as regional debate Whilst many books cite Western examples of the development of global public health this Handbook brings together both Western and Eastern scholarship creating a new global public health perspective suitable to face modern challenges in promoting the population's health This Handbook is essential reading not only for students professionals and scholars of global public health and related fields but is also written to be accessible to those with a general interest in the health of Asia Climate Resilience and Environmental Sustainability Approaches Anubha Kaushik,C. P. Kaushik,S. D. Attri,2021-09-07 The book is about climate resilience and environmental sustainability approaches discussing knowledge at global level and the local challenges presented by authors from various countries Environmental sustainability is at stake and implications of climate change are clearly visible in most parts of the world In the times of the prevailing global environmental crisis this book discusses key issues of climate change and sustainable energy alternatives waste management and development It discusses climate change scenario using simulation models in various Asian countries signatures of climate change in Antarctica implications in the Indian Ocean and the Indian scenario of REDD A special focus has been given on building climate resilience in our agricultural ecosystems and sustainable agriculture It discusses the prospects and challenges of renewable energy options including biofuels and energy from wastewaters explores the technical aspects of eco friendly bioremediation of pollutants sustainable solid waste management practices and challenges carbon footprints of industry and emphasizes on the significance of combining traditional knowledge with modern technology with novel approaches including involvement of social enterprises and corporate social responsibility to achieve the Sustainable Development Goals This is an important document for researchers

and policy makers working in multidisciplinary fields of sustainability sciences     Emerging Technologies to Benefit Farmers in Sub-Saharan Africa and South Asia National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on a Study of Technologies to Benefit Farmers in Africa and South Asia, 2009-01-21 Increased agricultural productivity is a major stepping stone on the path out of poverty in sub Saharan Africa and South Asia but farmers there face tremendous challenges improving production Poor soil inefficient water use and a lack of access to plant breeding resources nutritious animal feed high quality seed and fuel and electricity combined with some of the most extreme environmental conditions on Earth have made yields in crop and animal production far lower in these regions than world averages Emerging Technologies to Benefit Farmers in Sub Saharan Africa and South Asia identifies sixty emerging technologies with the potential to significantly improve agricultural productivity in sub Saharan Africa and South Asia Eighteen technologies are recommended for immediate development or further exploration Scientists from all backgrounds have an opportunity to become involved in bringing these and other technologies to fruition The opportunities suggested in this book offer new approaches that can synergize with each other and with many other activities to transform agriculture in sub Saharan Africa and South Asia     **New Knowledge of Food Microbiology in Asia, Volume II** Chunbao Li, Qingli Dong, Zhihong Sun, Liang Xue, Chong Zhang, 2022-11-30     Socio-Ecological Dimensions of Infectious Diseases in Southeast Asia Serge Morand, Jean-Pierre Dujardin, Régine Lefait-Robin, Chamnarn

Apiwathnasorn, 2015-07-07 This book pursues a multidisciplinary approach in order to evaluate the socio ecological dimensions of infectious diseases in Southeast Asia It includes 18 chapters written by respected researchers in the fields of history sociology ecology epidemiology veterinary sciences medicine and the environmental sciences on six major topics 1 Infectious diseases and societies 2 Health infectious diseases and socio ecosystems 3 Global changes land use changes and vector borne diseases 4 Monitoring and data acquisition 5 Managing health risks and 6 Developing strategies The book offers a valuable guide for students and researchers in the fields of development and environmental studies animal and human health veterinarians physicians ecology and conservation biology especially those with a focus on Southeast Asia

**Handbook of Metal-Microbe Interactions and Bioremediation** Surajit Das, Hirak Ranjan Dash, 2017-04-07 Around the World metal pollution is a major problem Conventional practices of toxic metal removal can be ineffective and or expensive delaying and exacerbating the crisis Those communities dealing with contamination must be aware of the fundamentals advances of microbe mediated metal removal practices because these methods can be easily used and require less remedial intervention This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates

## Embracing the Song of Appearance: An Emotional Symphony within **Microbial Diversity In Asia Technology And Prospects**

In a world taken by screens and the ceaseless chatter of fast conversation, the melodic beauty and mental symphony created by the prepared term usually disappear into the background, eclipsed by the relentless noise and distractions that permeate our lives. Nevertheless, set within the pages of **Microbial Diversity In Asia Technology And Prospects** a wonderful fictional value brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that fascinating masterpiece conducts visitors on a mental trip, well unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths with this touching assessment, we can discover the book is key harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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he was also an editor at ravan press

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