Examining the Development, Regulation, and Consumption of Functional Foods

Part of the Advances in Environmental Engineering and Green Technologies Book Series

Sailas Benjamin (University of Calicut, India)

Description:

The promotion of proper nutrition can assist in disease prevention and help to ensure an overall healthy lifestyle. Certain natural or processed foods are particularly useful in achieving and maintaining these goals.

Examining the Development, Regulation, and Consumption of Functional Foods is an authoritative reference source for the latest scholarly material on the consumption and use of specific foods to prevent, manage, and treat diseases. Highlights critical issues relating to the development, preparation, regulation, and overall benefits of functional foods.

Readers:

This book is ideally designed for medical practitioners, nutritionists, upper-level students, researchers, and academicians.


Topics Covered:

- Antioxidants
- Biofortification
- Biogenesis
- Dietary Fibers
- Essential Oils
- Food Allergies
- Phytonutrients

Hardcover + Free E-Access: $185.00
E-Access + Free Hardcover: $185.00

Order Information
Phone: 717-533-8845 x100
Toll Free: 1-866-342-6657
Fax: 717-533-8661 or 717-533-7115
Online Bookstore: www.igi-global.com
Table of Contents

Chapter 1
Biogenesis of conjugated linoleic acids
Sailas Benjamin, Kizhakepowathil Nair Unni, Prakasan Priji and Wright Andre-Denis Girard

Chapter 2
Dietary fibers and their role as functional food for human health: Food fibers and human health
Murudhhar Meghwal Ravi-Kumar Kadeppagari

Chapter 3
Phytonutrients of nutraceutical importance: exploring antimicrobial, antiproliferative and antioxidant activities
Marcus Vinicius Dias-Souza
Renan Martins dos Santos

Chapter 4
Millets as an integral part of nutritional diet in India
T.K.Hrideek* Kuk Nampoothiri

Chapter 5
Bioactive compound analysis of coriandrum sativum L. Against microbial keratitis
Dr.v.Nithya

Chapter 6
Breeding for improving human nutrition and grain quality through biofortification of traditional land races and improved cultivars in rice (oryza sativa L.)
P. Savitha
R. Usha kumara

Chapter 7
Antioxidants as functional foods in metabolic syndrome
Abishek b. Santhakumar
Indu Singh

Chapter 8
Exploring the potentials of antioxidants in retarding ageing
Minu Kosheri Swarna Kanchan Rajeshwar P. Sinha

Chapter 9
Food allergy and food poisoning: Toxicology on culinary sciences
Jose Ifaki Alava Marquez Miguel Angel Lopez

Chapter 10
Perspective uses of essential oils in functional foods and antimicrobial packaging material
Tripli Malik

Sailas Benjamin, a renowned industrial and environmental biotechnologist, has served University of Calicut as the Director of Research. Being a leader of several research projects, Prof. Benjamin has published several research papers in international and national journals of high repute, and several industrially-significant novel strains of bacteria/fungi were discovered and characterized; apart from 5 patents and 1 book to his credit. He is one of the pioneering researchers pertaining to the bioremediation of hazardous phthalates. Having completed his M.Sc. Degree (University of Kerala), he secured his M.Phil Degree (Cytogenetics) from the same University. In 1998, he secured his Ph.D. Degree (Biotechnology, Cochin University of Science and Technology, Kerala; CUSAT) under the supervision of the world renowned biotechnologist, Prof. Ashok PANDEY at National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram. In between, Prof. Benjamin also secured Post-graduate Diploma in Public Relations and Journalism (PGDPRJ), from the Public Relations Society of India. He is the recipient of many national and international awards/fellowships, serving as Member of Editorial Board of prestigious International Journals such as Advances in Enzyme Research, SM Journal of Nutrition and metabolism, and also the recipient of prestigious PDFs from Japan (JST, worked at National Food Research Institute under renowned scientist Dr. Chikafusa FUKAZAWA); Germany (DFG worked at University of Muenster under renowned Professor Dr. Friedrich SPENER); Research Fellowship from India (CSIR), Fellow of the International Society of Biotechnology (FIBST), Invitation Fellowship from JSPS, Government Japan, etc.