

## Journal of Biochemical Engineering & Bioprocess Technology

Editorial A SCITECHNOL JOURNAL

## An advance in Food Biotechnology-Short Commentary

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## Introduction

The journal especially interested in experimental or theoretical research findings that have potential for agri-food industry to improve process efficiency, enhance product quality and extend the shelf-life of fresh and processed agri-food products. Short Commentary on new perspectives to established processes, innovative and emerging technologies, trends and future research in food and bioproducts processing are particularly welcome.

Short commentary for rapidly disseminating preliminary results on food & bioprocess technology provides an effective and timely platform for researchers in universities, research institutions, and industries to publish cutting-edge high quality original papers in engineering and science of all types of processing technologies, involved from beginning of food supply source to dinner table of consumers. Aims to be leading international journal for multidisciplinary agrifood research community.

Scope of journal cover following main topic areas like technologies for ripeness, quality, damage, disease assessment, prediction grading, classification techniques- postharvest treatments, value-addition, traceability- agricultural, horticultural products processing technologies- properties of foods and agricultural products- sensors, sensing technology and process control- mathematical modelling, simulation- design, production of novel foods- product monitoring in supply chain- thermal processing, chilling, freezing- drying technology, dehydration processes- separation, purification processes-non-thermal processing, emerging technologies- preservation, storage, distribution- packaging, labeling- engineering of food biotechnological processes- engineering for food safety and security.

An advance in food biotechnology provides an overview of latest development in food biotechnology as it related to safety, quality and security. Seven sections of book are multidisciplinary and cover following topics:

- GMOs and food security issues
- Applications of enzymes in food processing
- Fermentation technology
- Functional food and nutraceuticals
- Valorization of food waste
- Detection and control of foodborne pathogens
- Emerging techniques in food processing

Bringing together experts drawn from around world, journal is a comprehensive reference in most progressive field of food science and will be of interest to professionals, scientists and academics in food and biotech industries.

Application of biotechnology in food sciences has led to an increase in food production and enhanced the quality and safety of food. Food biotechnology is dynamic field and continual progress and advances have not only dealt effectively with issues related to food security but also augmented nutritional and health aspects of food.

In addition to this for several decades the molecular and genetic techniques, named today as "omics," have brought great changes in foods, such as genetically modified foods. Likewise, industry has been benefited because of transformation of various food by using processing technology, latter being one of centres of high-tech 21st century.

Biotechnology is application of various scientific techniques to modify, improve, and increase value of various foods, animal, plants, and microorganisms of economic interest. This discipline has been developed since ancient times, the Aztecs or tribes of Chad used microorganisms, such as cyanobacteria for nutritional intake. During first and second world war, yeasts were added to satisfy nutritional needs of population because of food shortages.

Within this processing technology, it is found that automation systems have increased quality of products, production and shelf life, reducing costs and material waste by human error, which impacts a better use of natural resources. The progress in use of this science leads us to make decision schemes or real problems, such as what role of intellectual property to reward innovation and allow access to technology developed or which are environmental risks to genetic modification? Thus, it is of great interest to evaluate the benefits and risks of biotechnology application in the agrofood industry.

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