

Tentative Outline

Special Thematic Issue for Recent Patent on Food Nutrition & Agriculture

Title of thematic issue: Recent Development of Microbial Applications for the Production of Safe, High Nutritional Value, and Functional Food.

Lead Guest Editor: Prof. Abd El-Latif Hesham

Co-Guest Editors: Prof. Hesham El Enshasy, Dr. Atef El-Sagheer & Dr. Wael S. Abdel-Mageed.

Aims & Scope

After many decades of extensive use of chemicals in agriculture as fertilizers and biological control agents, many problems have been developed affecting environmental balance, biological systems, animal and human health. Therefore, production of safe food from healthy soil become a great concern in good agriculture practice (GAP) for sustainability in agriculture sector. In addition, extensive use of chemicals as preservatives in post-harvest become a major issue and can cause many diseases for consumers in long term. Therefore, there is extensive demand for using chemical free practice in agriculture and food industries to provide safe and healthy food. In addition, based on the increased awareness of the role of food supplements in both animal and human nutrition to reduce the risk of diseases. The nutraceutical market nowadays become of fastest growing industries. Therefore, the proposed thematic issue aims provide a comprehensive information about the role of microbial cells in healthy soil sustainability, safe food production, and the development of nutraceuticals.

Keywords:

Biological control, microbial fertilizers, post-harvest preservation, functional food, fermented food.

Subtopics:

- Application of microbial cells for good agriculture practice
- Plant-microbes interaction
- Biological control of plant diseases
- Soil rehabilitation and removal of heavy metals
- Bioremediation of soil using microbial cells
- Biological fertilizers
- Control of microbial contamination in post-harvest
- Food processing to decrease food contamination
- Application of microbes for functional food production
- Food preservation using microbial cells
- Fermented food product of high nutritional value
- Prebiotic and probiotic food

Schedule:

- Manuscript Submission deadline: 31 July 2019
- Publication Date: December 2020

Contacts:

Lead Guest Editor:

Prof. Abd El-Latif Hesham

Affiliation: Professor of Microbial Genetics and Environmental Meta-Genome Biotechnology, Genetics Department, Faculty of Agriculture, Beni-Suef University, Beni-Suef City, Egypt.

Email: hesham_egypt5@aun.edu.eg ; hesham_egypt5@yahoo.com

Co-Guest Editors:

Prof. Hesham El Enshasy

Affiliation: Institute of Bioproduct Development (IBD), Universiti Teknologi Malaysia (UTM), Johor Bahru, Johor, Malaysia.

Email: Email: henshasy@ibd.utm.my

Dr. Atef El-Sagheer

Affiliation: Agricultural Zoology and Nematology Department, Faculty of Agriculture, Al-Azhar University, Assiut (71524), Egypt.

Email: atefelsagheer@azhar.edu.eg ; atefelsagher@gmail.com

Dr. Wael S. Abdel-Mageed.

Affiliation: Genetics Department, Faculty of Agriculture, Beni-Suef University, Beni-Suef City, Egypt.

Email: drwael.abdelmageed0@agr.bsu.edu.eg ; drwael.abdelmageed0@googlemail.com