

Thematic Issue for CURRENT NUTRITION AND FOOD SCIENCE

Food Science and Technology: Bridging Conventional Practices to Industry 4.0

Guest Editors: Pau Loke Show, Kit Wayne Chew, Hui Yi Leong

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Aims & Scope: The global food security challenge is straightforward: by 2050, the world must feed 9 billion people. The demand for food will be 60% greater than it is today. The United Nations has set ending hunger, achieving food security and improved nutrition, and promoting sustainable agriculture as the second of its 17 Sustainable Development Goals (SDGs) for the year 2030. To achieve these objectives, it is important to have advancement in food science and technology. The current Industry 4.0, which is also called a “smart industry”, aims to integrate cyber and physical systems to minimize the waste and maximize the productivity. Therefore, food science and technology can be identified as key components in Industry 4.0 to overcome the food security issue. The scope of this special issue is to address how the conventional food science and technology can be part in smart industries by minimizing the waste, maximizing the productivity, optimizing the supply chain, or by additive manufacturing (e.g., 3D printing).

Subtopics:

The subtopics to be covered within this issue are listed below:

- ❖ Advances in food science
- ❖ Chemistry, microbiology and biotechnology aspects of food
- ❖ Food security issues
- ❖ Food and material engineering
- ❖ Physical / chemical / sensory properties of food
- ❖ Food quality and safety
- ❖ Biophysical analysis of food or processing operations
- ❖ Applied research related to food nanotechnology
- ❖ 3D printing in food
- ❖ Advances in food technologies

Schedule:

- ✓ Manuscript submission deadline: **December 31, 2019**
- ✓ Peer review due: **March 31, 2020**
- ✓ Announcement of acceptance by the Guest Editors: **June 15, 2020**
- ✓ Final manuscripts due: **June 30, 2020**

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