# Special Issue

# Advances in Genomics and Genetic Breeding of Food Crops: Objectives and Strategies

# Message from the Guest Editor

Climate change and the need to feed a population that by 2050 will reach the 10 billion mark raise concerns about global food security. Plant breeding and other agricultural technologies have contributed considerably to the reduction in hunger during the last few decades. However, improving crops through conventional breeding approaches is time-consuming and lacks in ability to cope with global food needs. Therefore, current research efforts in crop improvement have advanced in the use of technologies such as genomics, phenomics, and proteomics to increase efficiency and accuracy in plant breeding. In fact, the number of crop breeding programs using OMIC-assisted breeding principles has increased considerably in recent years. Exploiting the advantages of high-throughput techniques can generate advances in the genetic improvement of crops based on OMIC-assisted breeding. Based on these, in this issue, we will publish reviews and original research papers that focus on advances in the "Genomics and Genetic Breeding of Food Crops".

#### **Guest Editor**

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# Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. Agriculture is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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