



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

Guest Editor:

Dr. Antônio Teixeira do Amaral Junior

Laboratory of Genetics and Plant Breeding, Center of Agricultural Science and Technology, Universidade Estadual do Norte Fluminense Darcy Ribeiro, Av. Alberto Lamego, 2000, Campos dos Goytacazes 28013-602, RJ, Brazil

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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”.





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Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
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