



Plants

an Open Access Journal by MDPI

CiteScore: 7.6

Indexed in PubMed

Impact Factor: 4.1

Special Issue Reprint

Crop Functional Genomics and Biological Breeding

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Crop breeders currently focus on improving the yield, resistance and quality of crops through biological breeding. The study of the functional genomics of crops is a crucial approach in biological breeding. Understanding the functional genomics of crops would provide insight into the genetic mechanisms that govern crucial traits such as yield, resistance to diseases and pests, tolerance to environmental stresses, and quality. This knowledge is instrumental in developing improved crop varieties with enhanced productivity and resilience, contributing to global efforts that aim to ensure an adequate and stable food supply. The aim of this Special Issue of *Plants*, entitled “Crop Functional Genomics and Biological Breeding”, is to provide an overview of recent research and discoveries regarding the functional genomics of crops, including the mapping and cloning of novel genes related to the yield, resistance, germination and quality of crops. This research can encompass the functional analysis of these genes and the investigation of their applications in biological breeding.

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