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Functional Genomics and Molecular Breeding of Crops

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Deadline for manuscript submissions:
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Message from the Guest Editors

The functional genomics involved in model development link between genotype to phenotype. The aim of functional genomics is to understand the expression pattern of genes, gene expression regulation, the interaction of genes and their products, changes in gene expression during the onset of various stress responses, and the functional roles of different genes in cellular processes, and thus to resolve how genes work together to produce a particular phenotype.

The molecular breeding of crops is a technique using DNA markers tightly linked to phenotypic traits to assist in a selection scheme for a particular crop-breeding objective. The molecular breeding of crops is involved in the identification and characterization of suitable genetic markers, and is thus used to improve crops.

The focus of this Special Issue is on functional genomics and the molecular breeding of crops. Examples of topics of interest for this Special Issue include developmental processes, stress responses, functional genomics, comparative genomics and the molecular breeding of crops. The formats suitable for submission include original research reports, reviews, perspectives/opinions, and methodology articles.

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Message from the Editor-in-Chief

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We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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