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Genetics and Breeding of Grains

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Deadline for manuscript
submissions:

closed (25 April 2024)

Message from the Guest Editors

Dear Colleagues,

Globally, cereal grains account for two-thirds of human caloric consumption. Grain crops are categorized into staple cereals, minor cereals, small grains, pseudocereals and legumes. They are used as major carbohydrate sources, protein nutrients, and edible oils. Given the importance of these grains, researchers with different academic backgrounds and expertise have developed and applied various approaches for grain crop breeding and improvement, for example, mining the key genes and dissecting the genetic basis underlying agronomical performance or grain quality, genomic analysis and QTL mapping for abiotic and biotic stresses, mutagenesis and gene editing technologies for improving particular traits of interest, and high-throughput in-field phenotyping.

In this Special Issue, we welcome submissions of original research articles, review articles, and communications related to various aspects of grain breeding and modern molecular mechanisms and technologies that serve to improve future crops and yields of grains.

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Prof. Dr. Hikmet Budak

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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