

Special Issue

Plant Genomics and Epigenomics for Trait Improvement

Message from the Guest Editors

Our understanding of plant traits and biological mechanisms has been enormously improved over the past decade. Recent plant breeding programs have taken into account available genomic information, e.g., for (1) dissecting the genetic architecture of agronomic traits; (2) unlocking the hidden favorable genetic diversity from genetic resources; or (3) discovering, validating and characterizing economically important genes. Evidence has been accumulating that heritable variation of a trait is not solely determined by DNA sequence polymorphism but involves epigenetic processes that impact chromatin structure and gene expression. Especially, with the rapid development of CRISPR-Cas technology, it is believed that the promise of novel and improved crops with greater yield and tolerance to the stresses of climate change and extreme weather is around the corner. The aim of this issue is to publish original research, review articles addressing recent advances on plant genomics and epigenomics as emerging approaches for plant breeding.

Guest Editors

Prof. Dr. Klaus Humbeck

Dr. Vladimir Brukhin

Dr. Cao Xuan Hieu

Dr. Sowjanya Sree Kandregula

Dr. Vu Thi Ha Giang

Dr. Wenqin Wang

Deadline for manuscript submissions

closed (30 November 2017)

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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

genes@mdpi.com

mdpi.com/journal/

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham,
1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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