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Peanut Genetics and Omics

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Message from the Guest Editors

Dear Colleagues,

Peanut (also known as groundnut) is one of the most important economic oil crops in the world, supplying oils and proteins for human nutrition. The annual world production of peanut is approximately 50 million tons, which was affected by several important diseases, during the growing stage and also after harvest. The utilization of resistant varieties is the most cost-efficient measure to control these diseases. The availability of several reference genomes for peanut and its wild relatives in genus *Arachis* is now helping researchers to unpack genetic basis of the resistance to these diseases, which would accelerate the development of advanced resistant varieties.

This Special Issue aims to document the cutting edge of applied and basic research on genetics of peanut resistance to major diseases globally, bringing together research developments that make use of the peanut reference genome and related technologies. We seek papers using population genomics, molecular genetics, and other omics, particularly those discovering new resistant loci/genes and those addressing the underlying molecular and evolutionary mechanisms of resistance.

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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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