Special Issue

Transposable Elements in Plant Genomes

Message from the Guest Editor

Plant transposable elements occupy a significant portion of genomes and, upon mobilization, are capable of driving dynamic changes through the formation of novel structural variants ranging from simple insertional polymorphisms to complex rearrangements resulting in phenotypic diversity. Even though TEs are essentially considered as parasitic to the host and their activity is mostly deleterious at the individual organism level, they may provide useful genetic variability at the population level, constituting a basis for natural or human-driven selection. Rapid progress in high-throughput sequencing technologies allows more precise identification of TE-associated structural variants (TEASVs) and their functional impact. Novel tools facilitating identification of TEASVs and their association with phenotypes are being developed. In this Special Issue, we invite research papers, reviews, and concept papers exploring the interplay between TEs and plant genomes, from the development of methods and tools to characterization of the impact of TEs on host genomes' structure to examples of the functional impact of TEs on host genes.

Guest Editor

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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?

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