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Plant Phylogeny and Genome Evolution

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Message from the Guest Editor

Green plants, representing an important photosynthetic autotrophic taxon, provide oxygen, food, and other raw materials necessary for human life. Chloroplasts, vital organelles found in green plants, play key roles in photosynthesis and carbohydrate metabolism. Cytoplasmic genomes (including chloroplast and mitochondrial genomes) are ring-shaped DNA molecule structures in land plants with features, such as uniparental inheritance and being recombination-free, which make them unique model systems in the studies of phylogeny, genome evolution, origin and divergence of species, etc.

This Special Issue focuses on the molecular evolution of various plant genomes, including, but not limited to, that of chloroplasts and mitochondrial genomes. We aim to address structural variations (including tRNA structural variations of chloroplast genomes), copy number variations, mutations, selection, intracellular gene transfer, and molecular evolution of plant genomes. The phylogenetic relationships, origin and divergence, and genome evolution of plants are also of interest.



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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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