

Special Issue

Plant Phylogeny and Genome Evolution

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.

Guest Editor

Prof. Dr. Zhonghu Li

Key Laboratory of Resource Biology and Biotechnology in Western China, Ministry of Education, College of Life Sciences, Northwest University, Xi'an, China

Deadline for manuscript submissions

closed (30 July 2024)

G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/121779

Genes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:

JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))