



an Open Access Journal by MDPI

## Cytonuclear Interactions in Polyploid Species

Guest Editors:

**Prof. France Dufresne**

Universite du Quebec a  
Rimouski, Department of Biology,  
Rimouski, QC G5L 3A1, Canada

**Dr. Jennifer Tate**

Institute of Fundamental  
Sciences, Massey University,  
Palmerston North 4442, New  
Zealand

**Dr. Daniel Sloan**

Department of Biology, Colorado  
State University, Fort Collins, CO  
80523, USA

Deadline for manuscript  
submissions:

**closed (31 December 2019)**

### Message from the Guest Editors

Dear Colleagues,

Polyploidy is widespread in plants and less frequent in animals but serves as an important speciation mechanism in both groups. Polyploidy is accompanied by drastic changes in genome organization including differential patterns of gene loss, gene silencing, genome-wide expression dominance, and epigenetic reprogramming. One underexplored dimension of polyploid evolution is cytonuclear interactions.

As polyploidy allows new interactions between highly divergent cytoplasmic and nuclear genomes, cytonuclear interactions may be more challenging in allopolyploids than in diploid hybrids.

This Special Issue aims to explore and contrast coordination and coevolution between cytoplasmic and nuclear genomes in both plant and animal polyploids.

Prof. France Dufresne  
Dr. Jennifer Tate  
Dr. Daniel Sloan  
*Guest Editors*



[mdpi.com/si/21185](https://mdpi.com/si/21185)



*genes*



an Open Access Journal by MDPI

## 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

## 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.

Why not consider *Genes* for your next genetics paper?

## 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)*)

## Contact Us

---

*Genes* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/genes](http://mdpi.com/journal/genes)  
[genes@mdpi.com](mailto:genes@mdpi.com)  
[X@Genes\\_MDPI](#)