

Special Issue

Investigations on Nuclear DNA Content and DNA Synthesis in Plants and Fungi Using Flow Cytometry and Fluorescence Microscopy

Message from the Guest Editors

The aim of this Special Issue is to provide insights into current research involving flow cytometry (including nuclei and chromosome sorting) and/or fluorescence microscopy to evaluate plant systematics, evolution, genome stability in in vitro cultures, responses to environmental stresses, and DNA synthesis during plant growth and development. Additionally, contributions on nucleoplasmic ratio and the relationship between nuclear and organellar genomes are welcome. Papers on applications of fungi flow cytometry and confocal microscopy in medical mycology, plant pathology, fermentation industry and environmental sciences as well as in fundamental studies on fungal biology and physiology will also be accepted. In this Special Issue, we would like to include original articles, short communications, and reviews of recent applications of nuclear flow cytometry and fluorescence microscopy in fundamental plant research, as well as in agricultural and horticultural practices.

Guest Editors

Prof. Elwira Sliwinska

Dr. Monika Rewers

Dr. Iwona Jedrzejczyk

Deadline for manuscript submissions

closed (15 May 2021)

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

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/61015

Genes
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 5.2
Indexed in PubMed



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



About the Journal

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?

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))