

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)

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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

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