Special Issue

Causes and Consequences of Chromosomal Aberrations

Message from the Guest Editor

The maintenance of a proper chromosome structure is important for the functions of cells. It has been revealed that chromosomal aberrations in eukaryotic organisms may lead to changes in metabolism, secretory phenotype, lifespan, and/or fitness. Furthermore, the chromosomal aberrations may also promote cellular heterogenization, leading to premature senescence, cancer development, and/or drug resistance. In this Special Issue of *Genes*, we welcome reviews, mini-reviews, new methods, original research articles, and short communications that advance our understanding of the causes and consequences of chromosomal aberrations in eukaryotic microorganisms, plants, animals, and humans using current and emerging high-throughput approaches. While the mechanisms involved in the maintenance of telomere, rDNA, centromere, and heterochromatin will be of special interest, we will also be open to any advancement exploring the chromosomal instability or genome plasticity and consequences of chromosomal aberrations on a cellular, organism, or population level.

Guest Editor

Dr. Maciej Wnuk

Department of Biotechnology, University of Rzeszow, Pigonia 1 A0, 35-310 Rzeszow, Poland

Deadline for manuscript submissions

closed (20 November 2020)

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

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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

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