

Special Issue

Epigenetics and Cell-to-Cell Communication

Message from the Guest Editor

One of the most amazing properties of the cells of eukaryotic organisms is their ability to acquire very different phenotypes, both in development and in response to environmental cues, even if they all rely on the same genetic patrimony. This is possible because DNA is condensed with a number of proteins, thus forming a nucleoprotein complex known as chromatin. The post-translational modification of proteins, as well as DNA methylation, can regulate the overall structure of chromatin as well as the structural organization of specific genes, thus allowing differential gene expression in different cells. Notably, extracellular signals can induce modifications of chromatin arrangements. Most important, acquired chromatin structures and, consequently, cell phenotypes can be transmitted across cell generations. The aim of this Special Issue is to analyze and discuss the role of these epigenetic events in physiological conditions as well as in pathologies such as cancer and neurodegeneration.

Guest Editor

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closed (25 February 2023)

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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

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