



genes



an Open Access Journal by MDPI

Genetic and Epigenetic Modulation of Cell Functions by Physical Exercise

Guest Editor:

Prof. Dr. Italia Di Liegro

Department Biomedicine,
Neurosciences and Advanced
Diagnostics (Bi.N.D.), Università
degli Studi di Palermo, Palermo,
Italy

Deadline for manuscript
submissions:

closed (31 July 2019)

Message from the Guest Editor

Dear Colleagues,

In the last twenty years, it has become increasingly clear from scientific research that our ancient survival principle has beneficial effects not only on the cells and organs involved in physical activities but on the metabolism of the entire organism, influencing the homeostasis and integration of all bodily functions, likely stimulating the production of hormones and other regulatory molecules, with each affecting vital signalling pathways. Lately, the chromatin structure and epigenetic marks (and thus gene expression) have been reported to be modulated upon physical activity and help in the treatment of pathologies as different as Alzheimer's disease, diabetes, and multiple sclerosis.

Such complexity requires a multifaceted approach to shed light on the molecular interactions that occur between physical activity and its outcome at a cellular level. For this reason, we decided to bring together a collection of research articles and reviews from which new ideas could be obtained and shared.



mdpi.com/si/21889

Special Issue



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 & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](https://twitter.com/Genes_MDPI)