

Special Issue

Genetic and Epigenetic Modulation of Cell Functions by Physical Exercise

Message from the Guest Editor

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.

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)

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

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/21889

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

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 5.5
Indexed in PubMed



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



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

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))