



## Hypoxia and Exercise: Effects on Health and Performance

Guest Editors:

**Dr. Domingo Jesús Ramos  
Campo**

Sports Science Faculty,  
Universidad Católica San Antonio  
de Murcia, Av. de los Jerónimos,  
135, 30107 Guadalupe, Murcia,  
Spain

**Prof. Dr. Jacobo A. Rubio-Arias**

LFE Research Group, Department  
of Health and Human  
Performance, School of Physical  
Activity and Sport Sciences-INEF,  
Universidad Politécnica de  
Madrid, 28040 Madrid, Spain

Deadline for manuscript  
submissions:

**closed (31 December 2020)**

### Message from the Guest Editors

Dear Colleagues,

It is well-established that exercise training under O<sub>2</sub>-deprived environments can improve physical fitness due to erythropoiesis stimulation that provokes the improvement of oxygen transport. In addition, exercise in hypoxia that activates the hypoxia-inducible factor may play an essential role in effective metabolism regulation improving glucose intake and transport, glycolysis, lactate production to provide ATP, and oxygen transport and satiety, among others. Additionally, lipid metabolism can be further enhanced when exercise training is conducted in O<sub>2</sub>-deprived environments. For these reasons, several recent studies have used hypoxic training as a new therapeutic strategy to improve the symptoms of a range of cardiovascular, metabolic, and pulmonary diseases such as hypertension, chronic obstructive pulmonary disease, obesity, sarcopenia, coronary artery disease or multiple sclerosis. Therefore, in this





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Paul B. Tchounwou**

RCMI Center for Urban Health  
Disparities Research and  
Innovation, Richard Dixon  
Research Center, Morgan State  
University, 1700 E. Cold Spring  
Lane, Baltimore, MD 21251, USA

## Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Public Health, Environmental and Occupational Health*)

## Contact Us

---

International Journal of  
*Environmental Research and Public  
Health* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/ijerph](http://mdpi.com/journal/ijerph)  
[ijerph@mdpi.com](mailto:ijerph@mdpi.com)  
[X@IJERPH\\_MDPI](https://twitter.com/IJERPH_MDPI)