Special Issue

Exercise Science Animal Model

Message from the Guest Editor

Animal models have been used widely in exercise science research in both health and disease conditions. In animals, investigating the mechanistic bases for cellular response and adaptation to exercise, which is limited in human studies, helps to unveil the cause and process of biological phenomena, such as aging, obesity, cancer, and other diseases. This Special Issue aims to address current views of animal models that investigate the muscular, cardiovascular, and metabolic aspects of exercise and scrutinize the underlying mechanisms of sarcopenia, frailty, obesity, diabetes, cancer, and other chronic diseases. Papers are invited that investigate up-to-date exercise protocol, mode, and intervention, focusing on the latest scientific outcomes and their associated mechanisms. Possible topics may include studies on molecular and cellular regulation, muscular structure and function, reactive oxygen species, inflammation, protein synthesis/degradation, and muscle metabolism. Case studies or preliminary studies using novel exercise technologies in rodents or large animals are also very welcome.

Guest Editor

Prof. Dr. Jong-Hee Kim

Department of Physical Education, Hanyang University, Seoul 04763, Korea

Deadline for manuscript submissions

closed (10 June 2022)

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:
JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

MDPI