

Special Issue

Molecular and Cellular Exercise Physiology in Metabolism

Message from the Guest Editor

People perform various exercise types, leading to numerous molecular and cellular alterations. These changes enhance cellular metabolism and functions in tissues including skeletal muscle, liver, heart, brain, and others. Exercise also enhances the interplay between cells, tissues, organs, and systems. Numerous molecules are involved in the interaction, and their crosstalk can facilitate metabolic rate and function to support energy in contracting muscle. In addition, the exercise-induced molecular pathway can be targeted to prevent and treat metabolic disease patients who are unable to perform exercise training regularly. We are interested in metabolic molecules, such as PPAR α , PGC-1 α , AMPK, and any other molecules that are linked to metabolic function. We are also interested in not only mitochondrial function that is induced by a specific molecule with exercise but also certain metabolites, anti-inflammatory peptides, and RNA species, termed as exerkins. Thus, this Special Issue will discuss the recent advances in metabolic molecular mechanisms that are induced by exercise to understand exercise physiology and treat a health problem.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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