



Molecular and Cellular Exercise Physiology in Metabolism

Guest Editor:

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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 β/δ , 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.





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Message from the Editor-in-Chief

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