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Translational Myology: Cellular, Genetic, Molecular Aspects

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Message from the Guest Editors

The aim of translational research is to quicken the transition of the results achieved in basic research, derived from different approaches, to possible applications aimed at improving human health.

Skeletal muscle act both in an autocrine and paracrine way, on the tissue that produced them and on distant tissue and/or organs.

For this reason, it is important to define muscular metabolic patterns as they change depending on the different physiopathological conditions of the whole body. Knowledge of the mechanisms that control protein synthesis, the removal of degradation products and fiber regeneration plays a fundamental role in the maintenance of muscle functions.

Furthermore, mechanisms that controls energy production and mitochondrial activity have a key role in the translational approach to muscular activity, as their alteration leads to the establishment of oxidative stress status.

The aim of the present Special Issue is to highlight the cellular, genetic and molecular aspects of the complex machine represented by skeletal muscle, specifically, in its role as a "general regulator", able to mediate beneficial effects throughout the body.



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Special Issue



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Message from the Editor-in-Chief

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