

Special Issue

Translational Myology: Cellular, Genetic, Molecular Aspects

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.

Guest Editors

Prof. Dr. Giorgio Fanò-Illic

Interuniversity Institute of Myology (IIM) 66100 Chieti (Italy), A&C M-C Foundation for Translational Myology, 35100 Padova (Italy), Free University of Alcatraz, 06024 Gubbio, Italy

Dr. Rosa Mancinelli

Department of Neuroscience, Imaging and Clinical Sciences, University “G. d’Annunzio” Chieti-Pescara, 66100 Chieti, Italy

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Prof. Dr. José L. Quiles
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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