

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

Deadline for manuscript submissions

closed (15 October 2023)



International Journal of Molecular Sciences

an Open Access Journal
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Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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