

Special Issue

Strategies for Enhancing Skeletal Muscle Recovery and Regeneration in Health and Disease Conditions

Message from the Guest Editors

The skeletal muscle is the most abundant organ in the human body, accounting for approximately 40% of the body mass, and is fundamental for locomotion, body posture, and organism metabolism. Considering that the skeletal muscle is the primary producer of substrates of immune cells, the maintenance of muscle mass is crucial for preserving the integrity of immune system function. Therefore, the amount of muscle mass directly influences the quality of life. In many conditions associated with muscle wasting, such as chronic heart failure, sepsis, chronic kidney failure, cancer, and sarcopenia during aging, an increase in morbidity with a consequent decline in quality of life and increased mortality have been observed. In addition, the skeletal muscle has an outstanding capacity to regenerate after injury due to the presence of muscle stem cells, the main players of the muscle regenerative process. This Special Issue is aimed at a better understanding of molecular mechanisms and a discussion of the recent advances in nutritional and molecular strategies for enhancing skeletal muscle recovery and regeneration in healthy, aged, and diseased conditions.

Guest Editors

Dr. Elen Miyabara

Department of Anatomy, Institute of Biomedical Sciences, University of Sao Paulo, Sao Paulo 05508000, Brazil

Dr. Atsushi Asakura

Stem Cell Institute, Greg Marzolf Jr. Muscular Dystrophy Center, Department of Neurology, University of Minnesota Medical School, Minneapolis, MN 55455, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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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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