



*cells*



an Open Access Journal by MDPI

## Skeletal Muscle Atrophy: Mechanisms at a Cellular Level

Guest Editors:

**Dr. Maria Pennuto**

Department of Biomedical Sciences, University of Padova, Padova, Italy

**Dr. Marco Pirazzini**

Department of Biomedical Sciences, University of Padova, Padova, Italy

Deadline for manuscript submissions:

**closed (15 June 2022)**

### Message from the Guest Editors

Dear Colleagues,

Skeletal muscles constitute the largest body organ, making up about half of a mammal's bodyweight. Several conditions, including neuromuscular disorders, aging, cancer, and those associated with toxins, can lead to losses in muscle mass and function. This acquired condition, referred to as muscle atrophy, is an emerging health concern and a burden for human health. The cellular and molecular factors involved in muscle atrophy are still relatively unknown, despite great effort being made over the last two decades to decipher the pathophysiological bases underlying muscle loss. A wide range of cellular and subcellular compartments, organelles, degradation pathways, molecular signaling networks and genes have been identified as critical players in the regulation of muscle mass and atrophy.

This Special Issue of *Cells* aims to provide a general overview of the cellular and molecular mechanisms responsible for muscle atrophy and to stimulate the identification of novel strategies to tackle conditions or disorders associated with muscle loss.

Dr. Maria Pennuto  
Dr. Marco Pirazzini  
*Guest Editors*



[mdpi.com/si/46376](https://mdpi.com/si/46376)

**Special Issue**



*cells*



an Open Access Journal by MDPI

## Editors-in-Chief

**Prof. Dr. Alexander E. Kalyuzhny**

Neuroscience, UMN Twin Cities,  
6-145 Jackson Hall, 321 Church St  
SE, Minneapolis, MN 55455, USA

**Prof. Dr. Cord Brakebusch**

Biotech Research & Innovation  
Centre, The University of  
Copenhagen, Copenhagen,  
Denmark

## Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

## Contact Us

---

*Cells* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/cells](http://mdpi.com/journal/cells)  
[cells@mdpi.com](mailto:cells@mdpi.com)  
[X@Cells\\_MDPI](#)