Special Issue

Recent Research on Muscle Homeostasis and Regeneration

Message from the Guest Editor

The capacity of adult muscle to regenerate in response to injury stimuli represents an important homeostatic process. Muscle regeneration is crucial for adult skeletal muscle, which, after development, retains the capacity to regenerate in response to appropriate stimuli, activating the muscle compartment of satellite cells. The myogenic program must be highly coordinated to favor the birth of new fibers. The initial phase of muscle repair is characterized by necrosis of the damaged tissue and activation of an inflammatory response. This phase is followed by the activation of myogenic cells to proliferate, differentiate, and fuse, leading to new myofiber. This Special Issue aims to provide original research addressing the theme of the "Muscle Homeostasis and Regeneration", including, but not limited to: cellular and molecular players involved in muscle homeostasis and regeneration, new evidence on the physiological and pathological conditions related to muscle regenerations, and new information about potential therapeutic approaches for degenerating muscle diseases.

Guest Editor

Dr. Giulia Maria Camerino
Department of Pharmacy-Drug Sciences, University of Bari Aldo Moro, 70125 Bari, Italy

Deadline for manuscript submissions

closed (31 October 2023)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/129361

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

MDPI

About the Journal

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).