Special Issue

Cardiac and Skeletal Muscle Physiology and Diseases: Cellular Mechanism

Message from the Guest Editors

In patients with striated muscle diseases, such as muscular dystrophy, sarcopenia, and cancer-induced cachexia, the integrity of muscles and intrinsic repair and regenerative capacity are greatly reduced. These patients often experience higher injury susceptibility and reduced repair and stem cell activity, which ultimately lead to organ failure. Thus, studying and understanding the cellular and molecular events that contribute to striated muscle injury, repair, and regeneration are critical for the development of effective therapies to treat striated muscle diseases. In this Special Issue, we will collect studies focused on the following topics:

- Novel cellular and molecular mechanisms of cardiac and skeletal muscle injuries, repair, and regeneration;
- Regulation of myocardium regeneration in physiological and pathophysiological conditions;
- Regulation of satellite cells (skeletal muscle stem cell) in healthy and diseased muscles;
- Novel therapeutic treatments for striated muscle diseases;
- Novel techniques, instruments, and software to study striated muscle functions

Guest Editors

Prof. Dr. Hua Zhu

Dr. Prabhakara Nagareddy

Dr. Mona M. El-Refaey

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

mdpi.com/journal/cells

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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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).