

Special Issue

From the Neuromuscular Junction to the Single Fiber: Muscle Plasticity in Metabolic Disorders and Aging

Message from the Guest Editors

Skeletal muscle represents the largest human organ (> 40% of body mass), responsible for a myriad of functions spanning from locomotion, metabolic regulation, heat transfer and endocrine functions, just to name a few. It goes without saying that any alteration in this organ will impact the health and the quality of life of the affected individual. Aging, for instance is characterised by a decline in muscle mass and function (sarcopenia) which in some individuals could become extreme, which is a condition known as frailty and is associated with a variety of health problems and reduced life expectancy. Interestingly, the metabolic disorder Diabetes mellitus (DM) can induce specific damage at the level of skeletal muscle. This Special Issue will integrate new knowledge about muscle regulation in response to aging and DM, considering, transcription, RNA processing and translation, cytokine signalling and exercise responses. For further reading, please visit the [Special Issue website](#).

Guest Editors

Prof. Dr. Giuseppe De Vito

Neuromuscular Physiology Laboratory, Department of Biomedical Sciences, Università di Padova, Padova, Italy

Prof. Dr. Marco Vincenzo Narici

1. Department of Biomedical Sciences, University of Padua, Padua, Italy
2. Myology Center (CIR-Myo), University of Padua, Padua, Italy

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

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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.

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

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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).