# Special Issue

# Advances in Understanding Skeletal Muscle Metabolism and Regeneration: From Mechanisms to Therapeutics

## Message from the Guest Editor

Skeletal muscle, which accounts for 40% of total body weight, has diverse functions, including maintaining body posture and producing mobility and movement. Skeletal muscle is also essential for maintaining whole-body energy homeostasis, as it is involved in glucose and fatty acid metabolisms. Moreover, muscle mass can significantly impact the effects of various treatments, particularly in scenarios like cachexia, where a higher muscle mass often leads to better tolerance of treatment side effects and improved overall outcomes. In contrast, significant muscle loss (muscle wasting) can indicate poorer prognosis and increased toxicity due to reduced ability to withstand treatment stress; essentially, more muscle mass generally means better ability to cope with treatment demands. Therefore, maintaining muscle mass is important for whole-body metabolic homeostasis. Similarly, proper muscle regeneration is a key to maintaining muscle mass because it has been shown that muscle regeneration is significantly reduced in many disease and disorder conditions. We are looking for any kind of research manuscript that shows the data related to muscle metabolisms and regeneration.

## Guest Editor

Dr. Junaith S. Mohamed

Department of Diagnostic and Health Sciences, College of Health Professions, The University of Tennessee Health Science Center, Memphis, TN, USA

## Deadline for manuscript submissions

closed (31 July 2025)

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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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*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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