

Special Issue

Myostatin in Aging and Disease

Message from the Guest Editor

Myostatin is primarily expressed in skeletal muscle, where it acts as a negative regulator of muscle growth and development, and has long been linked to muscle wasting disorders. Elevations in myostatin expression have been suggested to participate in muscle wasting during disuse, cancer, ageing, liver disease, end stage renal disease, COPD, and numerous other acute and chronic catabolic conditions. More recent work has also begun to dissect many of the molecular mechanisms whereby myostatin alters neighbouring tissues as a myokine. These include but are not limited to osteoblastic differentiation, obesity development, insulin resistance, fibrotic processes, and local and systemic inflammation. This Special Issue of *Cells* will improve our understanding of how myostatin contributes to skeletal muscle metabolism; ageing; and, ultimately, disease pathology. Given the conservation of the myostatin gene across several animal species, including vertebrate and invertebrate, submissions are welcome from those studying model organisms. We are looking forward to your contributions to this Special Issue.

Guest Editor

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Deadline for manuscript submissions

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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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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).