Topical Collection

Skeletal Muscle Differentiation and Epigenetics

Message from the Collection Editor

Skeletal myogenesis is a well-characterized process, both as regards the developmental phases of muscle formation and the adult phase of muscle regeneration. The commitment of mesodermal precursors to the myogenic lineage and the terminal differentiation of myoblasts into myofibers are regulated at multiple levels, ranging from pre-transcriptional to post-translational mechanisms.

This Special Issue will present a collection of recent original research papers and review articles in all areas of this field. Potential subjects include, but are not limited to, the identification and characterization of novel epigenetic players as well as of novel functional interactions of myogenic factors with chromatin-modifying enzymes, chromatin remodelers, regulatory noncoding RNAs, and chromatin architectural proteins. Additional topics of interest are the roles of extracellular and intracellular signaling in the modulation of chromatin function and the dysregulation of epigenetic networks in skeletal muscle pathologies, with a view to developing new therapeutic approaches based on the manipulation of specific regulatory pathways.

Collection Editor

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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).