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Skeletal Muscle Differentiation and Epigenetics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Rossella Maione
Guest Editor



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Special Issue