

Special Issue

Skeletal Muscle Molecular Signalling in Various Models of Disuse and Unloading

Message from the Guest Editors

Skeletal muscle disuse is followed by four basic events: muscle atrophy (loss of muscle mass), muscle atonia (drop of muscle tone/stiffness), slow-to-fast myosin transition, and mitochondria remodeling. These events result in impaired posture and locomotion and dramatic decrease of physical performance. IJMS announces the Special Issue “Skeletal Muscle Molecular Signalling in Various Models of Disuse and Unloading.” The journal will accept research and review articles covering:

Various forms of disuse (extreme sedentary life style, denervation, cast immobilization, spinal transection and isolation, bed rest, dry immersion, hindlimb unloading, space flight, tenotomy, confinement and others):

- Molecular intracellular and intercellular signaling pathways controlling proteostasis, regulation of gene expression (including myosin phenotype), adaptation of cytoskeletal proteins, changes in mitochondrial structure and function
- Postural, locomotor and other skeletal muscles
- Experimental studies with various animal species and humans
- Countermeasures preventing functional impairment

Guest Editors

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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