



Skeletal Muscle Molecular Signalling in Various Models of Disuse and Unloading

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Deadline for manuscript
submissions:

closed (27 May 2022)

Message from the Guest Editors

Dear Colleagues,

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



mdpi.com/si/87311

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Special Issue



an Open Access Journal by MDPI

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Message from the Editor-in-Chief

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