

## Special Issue

# Postural Control in Neurological and Musculoskeletal Disorders

### Message from the Guest Editor

Balance maintenance is necessary during all motor activity. It requires central processing of vestibular, visual, proprioceptive and exteroceptive information. All these inputs converge in the brainstem (vestibular nuclei) and are integrated, allowing the motor responses to be organized. This enables compensatory movements of the eyes, head and body, in order to stabilize gaze and posture. All motor responses must be adapted to the environmental conditions and the task to be performed. Posture and balance are designed to enable orientation in three-dimensional space to orchestrate a motor activity. The weight and hierarchy of sensory afferences, and therefore balancing strategies, vary according to the subject, age, experience, pathologies and specific circumstances (environment, etc.). This Special Issue will focus on the study of postural control performance, balance and motor function related to age, physical activity or sport, neurootological and osteoarticular pathologies, handicaps, rehabilitation programmes, the management of dual-task situations, and susceptibility to motion sickness.

### Guest Editor

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### Deadline for manuscript submissions

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