

Special Issue on
Gait and Postural Control: From Physiological to Pathological Mechanisms

CALL FOR PAPERS

Gait and postural control are affected by dementia, aging, neurological, and orthopedic conditions. Poor gait and postural control are associated with disability, falls, and increased mortality. As such, they represent major public health issues. Understanding the patho-psychophysiological mechanisms affecting gait and postural control helps to prevent these poor clinical outcomes. Current literature emphasizes that these poor clinical outcomes might be contributing factors rather than simple markers of neurological diseases and, therefore, represent relevant therapeutic targets.

We invite authors to submit original research and review articles that promote a better understanding of the patho-psychophysiological mechanisms affecting gait and postural control in order to aid the development of effective rehabilitative strategies. We are interested in articles that investigate the physiological and neuroimaging changes that affect gait and postural control in aging, dementia, and neurological/orthopedic conditions. Physiology is herein considered in its broad meaning. Studies using techniques and concepts of neurophysiology and biomechanics thus fall within the scope of this special issue. Studies investigating the influence of psychological factors (e.g., emotion or fear of falling) on gait and postural control are also welcomed.

Potential topics include but are not limited to the following:

- ▶ Physiological changes of gait and postural control in aging, dementia, and neurological/orthopedic conditions
- ▶ Neuroimaging changes of gait and postural control in aging, dementia, and neurological/orthopedic conditions
- ▶ Influence of psychological factors on gait and postural control in aging, dementia, and neurological/orthopedic conditions
- ▶ Rehabilitative intervention aiming to improve gait and postural control in aging, dementia, and neurological/orthopedic conditions
- ▶ Relationship between gait and postural changes and falls in aging, dementia, and neurological/orthopedic conditions
- ▶ Epidemiology of gait and postural changes in aging, dementia, and neurological/orthopedic conditions

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/bmri/physiology/gpcp/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Eric Yiou, Université Paris-Sud, Orsay
Cedex, France
eric.yiou@u-psud.fr

Guest Editors

Gilles Allali, Hôpitaux Universitaires de Genève, Geneva, Switzerland
gilles.allali@hcuge.ch

Helena Blumen, Albert Einstein College of Medicine, New York, USA
helena.blumen@einstein.yu.edu

Alain Hamaoui, Institut National Universitaire JF Champollion, Albi, France
alain.hamaoui@univ-jfc.fr

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