

Special Issue on **The Impact of Movement on Adult Neurogenesis and Other Forms of Neuroplasticity**

CALL FOR PAPERS

The positive role of exercise in the brain of a healthy individual has been known for centuries. Recently, it was also described that individuals affected by neurological pathologies could be positively affected, in terms of their brain capabilities, by the appropriate and controlled physical training.

We summon investigators to contribute original research as well as review articles that will highlight recent accomplishment and encourage ongoing endeavours to depict the effects of movement towards neurogenesis in various areas of the adult brain, such as the hippocampus, the subventricular zone, and the spinal cord.

The topic includes the role of movement not only in a positive fashion (training) but also in a negative trend, namely, the condition that is present in astronauts, bed rest patients, patients with neurological pathologies with impaired movement capabilities, and patients with a reduction of movement present due to other pathologies such as obesity. We encourage researchers to apply to study either the animal models or the human subjects.

Potential topics include but are not limited to the following:

- ▶ Progress in elucidating the signaling pathways mediating the effect of muscle activity/inactivity on the brain and spinal cord
- ▶ Advances in understanding the cellular responses to neural stem cells during the exercise or the motor deprivation
- ▶ Progress of comprehension of the regulation of progenitor cells in the spinal cord after spinal cord injury or other motor neuron diseases
- ▶ Development of the understanding of plastic changes in the neuromuscular junction during alteration of motor activity
- ▶ Development of strategies for counteracting the effect of muscle inactivity in the brain and spinal cord: effect of rehabilitation and pharmacological approaches

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/np/nimn/>.

Lead Guest Editor

Daniele Bottai, University of Milan,
Milan, Italy
daniele.bottai@unimi.it

Guest Editors

Antal Nógrádi, University of Szeged,
Szeged, Hungary
nogradi.antal@med.u-szeged.hu

Stefano F. Vecchioli, Consiglio
Nazionale delle Ricerche, Rome, Italy
stefarioli@hotmail.com

Sama F. Sleiman, Lebanese American
University, Byblos, Lebanon
sama.sleiman01@lau.edu.lb

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First Round of Reviews

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