Neural Plasticity

Special Issue on

Imaging Neural Plasticity following Brain Injury

CALL FOR PAPERS

The human brain possesses a superior capacity of reorganization and profound plasticity after focal lesions following brain injury such as trauma, ischemia, and degenerative disorders.

The concept of plasticity describes the mechanisms that rearrange cerebral organization following a brain injury. The development of sophisticated noninvasive neuroimaging techniques over the past decade provides a unique opportunity to examine brain plasticity in humans and invaluable insights into the mechanisms underlying neuroplasticity. Unifying pathogenesis of brain injury by neuroimaging techniques can be beneficial to develop therapeutic strategies with broad applicability for disease prevention and an opportunity to decrease morbidity and mortality from these disorders in human beings.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts in understanding and promoting the neuroimaging mechanisms underlying brain injury from different research areas in both human and animals. The topics on the latest innovative methods that underline further enhancement of understanding neural plasticity are especially welcome.

Potential topics include, but are not limited to:

- Unifying pathogenesis of brain injury by neuroimaging techniques
- Recent applications of neuroimaging techniques in facilitating prevention and treatment of brain injury
- Advances in revealing therapeutic targets for treating brain injury
- Methodological and technical approaches to quantify or monitor progress and recovery from brain injury
- Brain connectomics following brain injury
- Current neuroproteomic analysis, as well as its prospective, of neuroplasticity after brain injury
- Neuroimaging methods to study neurodegeneration, neurorepair, and neuroplasticity following brain injury in animal models (including in vivo transcranial near-infrared fluorescence, MRI, microscopic magnetic resonance elastography (MRE), and other related methods)

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/np/inp/.

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