



BioMed Research International

Special Issue on

Neurorestoratalogic Strategies and Mechanisms in the Nervous System

CALL FOR PAPERS

Neurorestoratology is an interdisciplinary and frontier discipline that studies neural regeneration, repair and replacement of damaged components of the nervous system, neuroplasticity, neuroprotection, neuromodulation, neurogenesis, angiogenesis, immunomodulation, and their mechanisms to cause improvement or recovery. Neurorestoratology research is becoming one of the most promising neuroscience fields and a core aspect of translational neuroscience. Neurorestorative therapies include the transplantation of tissue, cells, biomaterials and bioengineering, neuromodulation by electromagnetic stimulation, and pharmaceutical or chemical therapies. Research advancements in the area have been increased tremendously over the past few years, extending from the laboratories to animal experiments and, more recently, to clinical trials.

We invite investigators to contribute original research as well as review articles that address this field. We encourage manuscripts that will stimulate continuing efforts to understand the mechanisms underlying interaction between environment stressors and neurorestoration in neural trauma, stroke, and neurodegenerative diseases.

Papers describing how these pathways underlie neurorestoration response to neural environment *in vivo* will be of great interest. Particular importance will be given to manuscripts that address the development of novel strategies for therapeutic intervention of these diseases.

Potential topics include, but are not limited to:

- ▶ Neurorestoration in neurotrauma: brain, spinal cord, and peripheral nervous system
- ▶ Neurorestoration in stroke: cerebral hemorrhage and cerebral ischemia
- ▶ Neurorestoration in neurodegenerative impairments: multiple sclerosis, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, and so on
- ▶ Modulating the levels of neurochemical entities to enhance and control neurorestoration
- ▶ Novel strategies to enhance neurorestoration: cell transplantation, novel compound or growth factor and medicine, biological and tissue engineering, nanotechnology, and neurorehabilitation
- ▶ Novel technologies to monitor neurorestoration *in vivo*
- ▶ Clinical and translational research related to neurorestoration

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/neurology/ncpns/>.

Lead Guest Editor

Lin Chen, Tsinghua University, Beijing, China
chenlin_china@163.com

Guest Editors

Qiang Ao, Tsinghua University, Beijing, China
aoqiang00@163.com

Hari Shanker Sharma, Uppsala University, Uppsala, Sweden
sharma@surgsci.uu.se

Aijun Wang, University of California, Sacramento, USA
aawang@ucdavis.edu

Shiqing Feng, Tianjin Medical University, Tianjin, China
fengsq321@gmail.com

Manuscript Due

Friday, 8 May 2015

First Round of Reviews

Friday, 31 July 2015

Publication Date

Friday, 25 September 2015