

1. Record Nr.	UNINA9910353343403321
Autore	Naritomi Hiroaki
Titolo	Clinical recovery from CNS damage // volume editors, H. Naritomi, D. W. Krieger
Pubbl/distr/stampa	Karger, 2013 Basel : , : Karger, , [2013] ©2013
ISBN	3-318-02309-4
Descrizione fisica	1 online resource (162 p.)
Collana	Frontiers of neurology and neuroscience, , 1660-4431 : ; ; volume 32
Altri autori (Persone)	NaritomiHiroaki <1944-> KriegerD. W (Derk W.)
Disciplina	616.8/106
Soggetti	Cerebrovascular disease - Treatment Brain - Physiology Rehabilitation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Mechanisms of functional recovery after stroke / Ko, S.-B.; Yoon, B.-W -- Diagnostic approach to functional recovery : functional magnetic resonance imaging in stroke / Havsteen, I. ... [et al.] -- Diagnostic approach to functional recovery : diffusion-weighted imaging and tractography / Raffin, E.; Dyrby, T -- Compensatory development of the contralateral pyramidal tract after experimental cerebral ischemia / Takatsuru, Y.; Nakamura, K.; Nabekura, J -- Compensatory contribution of the contralateral pyramidal tract after stroke / Otsuka, N. ... [et al.] -- Regeneration of neuronal cells following cerebral injury / Dailey, T. ... [et al.] -- Translational challenge for cell therapy following stroke / Kuroda, S.; Houkin, K. -- Experimental and clinical challenge for neuroregeneration following stroke / Kasahara, Y.; Ihara, M.; Taguchi, M. -- Therapeutic drug approach to stimulate clinical recovery after brain injury / Krieger, D.W. -- Rehabilitation and plasticity / Luft, A.R. -- A brain-computer interface to support functional recovery / Kjaer, T. W.; Sorensen, H.B. -- Novel methods to study aphasia recovery after stroke / Hartwigsen, G.; Siebner, H.R. -- Role of repetitive transcranial magnetic stimulation in stroke rehabilitation / Pinter, M.M.; Brainin, M.

-- Influence of therapeutic hypothermia on regeneration after cerebral ischemia / Yenari, M.A.; Han, H.S. -- Reasonable suppression of body weight with high-voltage electric potential therapy in humans: a translational study to increase brain-derived neurotrophic factor levels in the brain / Hiroji, Y. ... [et al.] -- Prevention of post-stroke disuse muscle atrophy with a free radical scavenger / Naritomi, H.

---

## Sommario/riassunto

After decades of focusing on how to alleviate and prevent recurrence of acute CNS injuries, the emphasis has finally shifted towards repairing such devastating events and rehabilitation. This development has been made possible by substantial progress in understanding the scientific underpinnings of recovery as well as by novel diagnostic tools, and most importantly, by emerging therapies awaiting clinical trials. In this publication, several international experts introduce novel areas of neurological reorganization and repair following CNS damage. Principles and methods to monitor and augment neuroplasticity are explored in depth and supplemented by a critical appraisal of neurological repair mechanisms and possibilities to curtail disability using computer or robotic interfaces. Rather than providing a textbook approach of CNS restoration, the editors selected topics where progress is most imminent in this labyrinthine domain of medicine.

---