Early rehabilitation of higher cortical brain functioning in neurosurgery, humanizing the restoration of human skills after acute brain lesions p. 3
Deep brain stimulation as a functional scalpel p. 13
Feed-forward control of post-stroke movement disorders by on-demand type stimulation of the thalamus and motor cortex p. 21
Palidal high-frequency deep brain stimulation for camptocormia: an experience of three cases p. 25
Multimodal neurosurgical strategies for the management of dystonias p. 29
Detection of boundaries of subthalamic nucleus by multiple-cell spike density analysis in deep brain stimulation for Parkinson's disease p. 33
Microelectrode recording: lead point in STN-DBS surgery p. 37
Follow-up of bilateral subthalamic deep brain stimulation for Parkinson's disease p. 43
Rapid subthalamic nucleus deep brain stimulation lead placement utilising CT/MRI fusion, microelectrode recording and test stimulation p. 49
FDG-PET study of the bilateral subthalamic nucleus stimulation effects on the regional cerebral metabolism in advanced Parkinson disease p. 51
Stimulation of primary motor cortex for intractable deafferentation pain p. 57
Fifteen year experience of intrathecal baclofen treatment in Japan p. 61
Electrical stimulation of the anterior cingulate cortex in a rat neuropathic pain model p. 65
Long term follow-up results of dorsal root entry zone lesions for intractable pain after brachial plexus avulsion injuries p. 73
Endogenous and exogenous modulators of potentials evoked by a painful cutaneous laser (LEPs) p. 77
Long term results from percutaneous radiofrequency neurotomy on posterior primary ramus in patients with chronic low back pain p. 81
Chronic deep brain stimulation of subthalamic and anterior thalamic nuclei for controlling refractory partial epilepsy p. 87
Vagus nerve stimulation in pediatric intractable epilepsy: a Korean bicentric study p. 93
Seizure control of Gamma Knife radiosurgery for non-hemorrhagic arteriovenous malformations p. 97
Surgical resection of cavernous angiomas located in eloquent areas - clinical research p. 103
Spinal cord stimulation and cerebral haemodynamics p. 111
Idiopathic syringomyelia: case report and review of the literature p. 117
Migration of bone marrow stem cells in ischaemic brain p. 123
The behavioral effect of human mesenchymal stem cell transplantation in cold brain injured rats p. 125
Effect of human mesenchymal stem cell transplantation combined with growth factor infusion in the repair of injured spinal cord p. 133
Stem cell therapy in stroke: strategies in basic study and clinical application p. 137
Neural prosthesis in the wake of nanotechnology: controlled growth of neurons using surface nanostructures p. 141
A new and simple transection knife for study of neurodegeneration and neuroregeneration in animal model p. 145