Neural Regeneration Research

WWW.NRRONLINE.ORG

January 2017, Volume 12, Number 1

Edited by Prof. Kwok-fai So and Prof. Xiao-Ming Xu
Supported by Chinese Rehabilitation Medical Association
Science Citation Index Expanded, PubMed, PubMed Central Indexed
Celebration of the 10th Anniversary of Neural Regeneration Research
Kwok-fai So, Xiao-Ming Xu

Therapeutic potential of brain-derived neurotrophic factor (BDNF) and a small molecular mimics of BDNF for traumatic brain injury
Mary Wurzelmann, Jennifer Romeika, Dong Sun

Blood microRNAs as potential diagnostic markers for hemorrhagic stroke
Bridget Martinez, Philip V. Peplow

Emerging potential of exosomes for treatment of traumatic brain injury
Ye Xiong, Asim Mahmood, Michael Chopp

A new computational approach for modeling diffusion tractography in the brain
Harsha T. Garimella, Reuben H. Kraft

Restoring axonal localization and transport of transmembrane receptors to promote repair within the injured CNS: a critical step in CNS regeneration
Lindsey H. Forbes, Melissa R. Andrews

Glial kon/NG2 gene network for central nervous system repair
Maria Losada-Perez, Neale Harrison, Alicia Hidalgo

Endoplasmic reticulum-mitochondrial crosstalk: a novel role for the mitochondrial peptide humanin
Parameswaran G. Sreekumar, David R. Hinton, Ram Kannan

Kynurenine pathway metabolism and neuroinflammatory disease
Nady Braidy, Ross Grant

The prospects of regenerative medicine combined with rehabilitative approaches for chronic spinal cord injury animal models
Syoichi Tashiro, Masaya Nakamura, Hideyuki Okano

Platelet-rich plasma, an adjuvant biological therapy to assist peripheral nerve repair
Mikel Sánchez, Ane Garate, Diego Delgado, Sabino Padilla

Three-dimensional histology: new visual approaches to morphological changes during neural regeneration
Hei Ming Lai, Ho Man Ng, Wutian Wu

A revisit of rod microglia in preclinical studies
Yanxia Rao, Yu-Xiang Liang, Bo Peng

Past, present and future of preserving and restoring function in the visual system: removing galectin-3 as a promising treatment
Silmara de Lima, Henrique Rocha Mendonça, Camila Oliveira Goulart, Ana M. Blanco Martinez

Advancing mesenchymal stem/stromal cells-based therapies for neurologic disease
Donald G. Phinney

Tauroursodeoxycholic acid: more than just a neuroprotective bile conjugate
Lorenzo Romero-Ramírez, Manuel Nieto-Sampedro, Natalia Yanguas-Casás

Insights into the protective role of immunity in neurodegenerative disease
Cristoforo Comi, Giacomo Tondo

Intracerebral interplay and neurotransmitter systems involvement in animal models of neurodegenerative disorders: EEG approach expectations
Vasily Vorobyov, Natalia Bobkova

Neural regeneration after spinal cord injury treatment by lavandula angustifolia and human umbilical mesenchymal stem cell transplantation
Kayvan Yaghoobi

Neuroprotective effects of vascular endothelial growth factor A in the experimental autoimmune encephalomyelitis model of multiple sclerosis
Wensheng Lin

Challenges and opportunities identifying therapeutic targets for chemotherapy-induced peripheral neuropathy resulting from oxidative DNA damage
Mark R. Kelley, Jill C. Fehrenbacher

State-of-art modelling of inflammatory astrocyte-synapse interactions in injury and amyotrophic lateral sclerosis
András Lakatos
Spinal Cord Injury and Neural Regeneration

Propofol protects against blood-spinal cord barrier disruption induced by ischemia/reperfusion injury
Li-jie Xie, Jin-xiu Huang, Jian Yang, Fen Yuan, Shuang-shuang Zhang, Qi-jing Yu, Ji Hu

Real-time and wearable functional electrical stimulation system for volitional hand motor function control using the electromyography bridge method

Peripheral Nerve Injury and Neural Regeneration

Transfer of the extensor indicis proprius branch of posterior interosseous nerve to reconstruct ulnar nerve and median nerve injured proximally: an anatomical study
Pei-ji Wang, Yong Zhang, Jia-ju Zhao, Ju-pu Zhou, Zhi-cheng Zuo, Bing-bing Wu

Molecular chaperones and hypoxic-ischemic encephalopathy
Cong Hua, Wei-na Ju, Hang Jin, Xin Sun, Gang Zhao

Breviscapine reduces neuronal injury caused by traumatic brain injury insult: partly associated with suppression of interleukin-6 expression
Ling Jiang, Yue Hu, Xiang He, Qiang Lv, Ting-hua Wang, Qing-jie Xia

Inhibition of cerebral ischemia/reperfusion injury-induced apoptosis: nicotiflorin and JAK2/STAT3 pathway
Guang-qiang Hu, Xi Du, Yong-jie Li, Xiao-qing Gao, Bi-qiong Chen, Lu Yu

Computed tomography perfusion and computed tomography angiography for prediction of clinical outcomes in ischemic stroke patients after thrombolysis
Jia-wei Pan, Xiang-rong Yu, Shu-qi Zhou, Jian-hong Wang, Jun Zhang, Dao-yong Geng, Tian-qi Zhang, Xin Cheng, Yi-jie Feng, Qiang Dong

Evidence of cortical reorganization of language networks after stroke with subacute Broca's aphasia: a blood oxygenation level dependent-functional magnetic resonance imaging study
Wei-hong Qiu, Hui-xiang Wu, Qing-lu Yang, Zhuang Kang, Zhao-cong Chen, Kui Li, Guo-rong Qiu, Chun-qing Xie, Gui-jian Wang, Shao-qiong Chen

Immunohistochemical evidence of axonal regrowth across polyethylene glycol-fused cervical cords in mice
C-Yoon Kim, Hanseul Oh, Xiaoping Ren, Sergio Canavero

Correction: Multi-site spinal stimulation strategies to enhance locomotion after paralysis
Zhu-ran Zhao, Wei-dong Yu, Cheng Shi, Rong Liang, Xi Chen, Xiao Feng, Xue Zhang, Qing Mu, Huan Shen, Jing-zhu Guo