Endogenous bioelectric fields: a putative regulator of wound repair and regeneration in the central nervous system
Matthew L. Baer, Raymond J. Colello

Neuroprotection and antioxidants
Maria Lalkovicová, Viera Danielisová

The intricacies of neurotrophic factor therapy for retinal ganglion cell rescue in glaucoma: a case for gene therapy
Marianna Foldvari, Ding Wen Chen

Discovery of nigral dopaminergic neurogenesis in adult mice
Brad E. Morrison

Methylprednisolone for acute spinal cord injury: an increasingly philosophical debate
Christian A. Bowers, Bornali Kundu, Gregory W. J. Hawryluk

Oligodendrocyte ablation as a tool to study demyelinating diseases
Ahdeah Pajoohesh-Ganji, Robert H. Miller

Role of myelin auto-antigens in pain: a female connection
Veronica I. Shubayev, Alex Y. Strongin, Tony L. Yaksh

Bursting the unfolded protein response accelerates axonal regeneration
Maritza Oñate, Felipe A. Court, Claudio Hetz

Graphene platform for neural regenerative medicine
Tasneem Bouzid, Alexander Sinitskii, Jung Yul Lim

Neuroprotective role of galectin-1 in central nervous system pathophysiology
Ravikumar Aalinkeel, Supriya D. Mahajan

A shape shifting organelle: unusual mitochondrial phenotype determined with three-dimensional electron microscopy reconstruction
Eugenia Trushina

N-acetyl proline-glycine-proline: implications for neurological disorders
Jeff W. Hill, Edwin M. Nemoto

Role of granulocyte macrophage colony stimulating factor in regeneration of the central nervous system
Ushananthini Shannumgalingam, Nafisa M. Jadavji, Patrice D. Smith

Neuroprotective properties of extracellular vesicles derived from mesenchymal stem cells
Akvilė Jarmalavičiūtė, Augustas Pivorūnas

The role of postsynaptic density proteins in neural degeneration and regeneration
Yukti Vyas, Johanna M. Montgomery

Modification of ubiquitin C-terminal hydrolase L1 by reactive lipid species: role in neural regeneration and diseases of aging
Steven H. Graham

Targeting BPOZ-2 in Lewy body disease
Avik Roy

ARBs improve stroke outcome through an AT2-dependent, BDNF-induced proangiogenic and prorcovery response
Ahmed Alhusban, Abdelrahman Y. Fouda, Susan C. Fagan

The implication of neurovascular unit signaling in controlling the subtle balance between injury and repair following ischemic stroke
Ayman ElAli

Natural product based novel small molecules with promising neurotrophic, neurogenic and anti-neuroinflammatory actions can be developed as stroke therapeutics
Priya Jhelum, R. Gajendra Reddy, Arvind Kumar, Sumana Chakravarty

Time dependent differences in gray matter volume post mild traumatic brain injury
Prabhjyot Singh, William D. S. Killgore

Retinal ganglion cell neuroprotection induced by activation of alpha7 nicotinic acetylcholine receptors
Cindy L. Linn

Decorin treatment for reversing trabecular meshwork fibrosis in open-angle glaucoma
Lisa J Hill, Zubair Ahmed, Ann Logan

Brain Injury and Neural Regeneration

Time- and cell-type specific changes in iron, ferritin, and transferrin in the gerbil hippocampal CA1 region after transient forebrain ischemia
Dae Young Yoo, Ki-Yeon Yoo, Joon Ha Park, Hyun Jung Kwon, Hye Young Jung, Jong Whi Kim, Goang-Min Choi, Seung Myung Moon, Dae Won Kim, Yeo Sung Yoon, Moo-Ho Won, In Koo Hwang
ROCK inhibition enhances neurite outgrowth in neural stem cells by upregulating YAP expression in vitro
Xu-feng Jia, Fei Ye, Yan-bo Wang, Da-xiong Feng

Indirubin-3′-monoxime suppresses amyloid-beta-induced apoptosis by inhibiting tau hyperphosphorylation
Shu-gang Zhang, Xiao-shan Wang, Ying-dong Zhang, Qing Di, Jing-ping Shi, Min Qian, Li-gang Xu, Xing-jian Lin, Jie Lu

Peripheral Nerve Injury and Neural Regeneration

Transplantation of human adipose tissue-derived stem cells for repair of injured spiral ganglion neurons in deaf guinea pigs
Sujeong Jang, Hyong-Ho Cho, Song-Hee Kim, Kyung-Hwa Lee, Yong-Bum Cho, Jong-Seong Park, Han-Seong Jeong

miR-148b-3p promotes migration of Schwann cells by targeting cullin-associated and neddylation-dissociated 1
Tian-mei Qian, Li-li Zhao, Jing Wang, Ping Li, Xiao-song Gu, Song-lin Zhou

Optic Nerve Injury and Neural Regeneration

Synergetic effects of ciliary neurotrophic factor and olfactory ensheathing cells on optic nerve reparation (complete translation)
Dan-ping Yin, Qing-ying Chen, Lin Liu

Bone marrow mesenchymal stem cell therapy in ischemic stroke: mechanisms of action and treatment optimization strategies
Guihong Li, Fengbo Yu, Ting Lei, Haijun Gao, Peiwen Li, Yuxue Sun, Haiyan Huang, Qingchun Mu

Optic Radiation injury in a patient with intraventricular hemorrhage: a diffusion tensor tractography study
Sung Ho Jang, Jeong Pyo Seo