



2018 International Neural Regeneration Symposium
11th Asia Pacific Symposium on Neural Regeneration
2018 International Spinal Cord Injury Treatments and Trials Symposium
The 2nd Annual Meeting of Neural Regeneration and Repair Committee



Joint Symposium of
2018 International Neural Regeneration Symposium (INRS2018)
11th Asia Pacific Symposium on Neural Regeneration (APSNR 2018)
2018 International Spinal Cord Injury Treatments and Trials Symposium (ISCITT2018)
The 2nd Annual Meeting of Neural Regeneration and Repair Committee

July 26-29, 2018
Guangzhou, P.R. China

Program Committee:

Co-Chairs: Kwok-Fai So, Xiao-Ming Xu

Members: Zhigang He, Vance Lemmon, Wise Young, Libing Zhou

Brief Program

Date Time	July 26, 2018 (Thursday)	
8:30-22:30	Registration	
13:00-16:30	Workshop 1: Tissue Clearing and LSFM	
Date Time	July 27, 2018 (Friday)	
08:30-12:00	Workshop 1: Tissue Clearing and LSFM	Workshop 2
13:00-15:30	Session 1: Translation and Clinical Trials 1	Session 2: Neuro-Immune Interaction
16:00-17:30	Session 3: Translation and Clinical Trials 2	Session 4: Large (FAIR) Data Sharing in Neural Regeneration
18:00-19:30	Open Ceremony	
20:00-22:00	Inaugural Meeting of the Sub-groups of Neural Regeneration and Repair Professional Committee - Chinese Research Hospital Association	
Date Time	July 28, 2018 (Saturday)	
08:00-09:00	Keynote Speech: Dr. Michael V. Sofroniew	
09:00-11:00	Session 5: Frontiers in Neural Regeneration	
11:00-11:30	Lunch	
11:30-13:30	Poster Session	
13:30-16:00	Session 6: Stem Cell and Reprogramming of the Damaged CNS	Session 7: Regeneration of damaged CNS
16:30-18:30	Session 8: Innovative discoveries by Rising Star in Neural Regeneration	Session 9: Activity-mediated plasticity and recovery
18:30-20:30	NRR's Night & Award Ceremony	
Date Time	July 29, 2018 (Sunday)	
08:00-09:00	Keynote Speech: Dr. Thomas C. Südhof	
09:30-12:00	Mini-symposium 1-19 (English/Chinese)	



Scientific Program

Time/ Date	July 26, 2018 (Thursday)	Location
8:30-22:30	Registration	Level 1, Lobby
13:00-18:00 Workshop 1: Tissue Clearing and LSFM		Meeting room 2, Level 7
13:00-13:15	1) Introduction: Vance Lemmon	
13:15-13:45	2) Florescence probes: <i>ThermoFisher Molecular Probes</i>	
13:45-14:15	3) Break Out 1	
14:15-14:45	4) Tissue clearing basics <i>Jae Lee (University of Miami, USA)</i>	
14:45-15:15	5) Break Out 2	
15:15-15:30	6) Bio Break	
15:30-16:00	7) Aqueous Clearing / CLARITY: <i>Logos Bio</i>	
16:00-16:30	8) Break Out 3	
16:30-18:00	9) LSFM Social	
18:00	10) LSFM Social concluded	
18:30-20:30	Roundtable Discussion & Dinner	Meeting room 1, Level 7



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Time/ Date	July 27, 2018 (Friday)	Location
8:30-12:00 Workshop 1: Tissue Clearing and LSFM		Meeting room 2, Level 7
8:30-8:40	11) 3D imaging basics <i>Vance Lemmon (University of Miami, USA)</i>	
8:40-9:10	12) Mesoscale imaging: Lavisision / QD	
9:10-9:40	13) Break Out 4	
9:40-10:10	14) Confocal and High Mag Light Sheet / Zeiss	
10:10-10:20	15) Bio Break	
10:20-10:50	16) Break Out 5	
10:50-11:20	17) Image processing and Analysis <i>Andrea Tedeschi (Ohio State University, USA)</i>	
11:20-11:50	18) Break Out 6	
11:20-11:50	19) Wrap Up, Vance Lemmon	
11:50-12:00	20) Course Finished	
8:30-12:00 Workshop 2 (Chinese) SESSION CHAIR: Binhai Zheng		Meeting room 3, Level 7
8:30-9:15	Identification of newly generated neurons in the adult central nervous system <i>Chun-Li Zhang (University of Texas Southwestern Medical Center, USA)</i>	
9:15-10:00	In Vivo 2-Photon Imaging of Axonal Response to Injury in the Mouse Spinal Cord <i>Binhai Zheng (University of California, San Diego, USA)</i>	
10:00-10:30	Coffee break	
10:30-11:15	In vivo optogenetic mapping and calcium imaging in neurotrauma research <i>Xiaoming Jin (Indiana University School of Medicine, USA)</i>	
11:15-12:00	Behavior Analysis in Neuroscience Research <i>Ramona Marie Rodriguiz (Duke University, the Core Facility, USA)</i>	



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Time/ Date		July 27, 2018 (Friday)	
13:00-15:30 S01: Translation and Clinical Trials 1 SESSION CHAIR: Wise Young, Hui Zhu, Zhiqi Mao		Meeting room 2, Level 7	13:00-15:30 S02: Neuro-Immue Interaction SESSION CHAIR: Libing Zhou, Guiyun Xu, Yan Liu
13:00-13:30	What is the component of umbilical cord blood that is beneficial for brain and spinal cord injury? <i>Wise Young (Rutgers University, USA)</i>		Robust oligodendrocyte genesis does not overcome chronic axon pathology after spinal cord injury <i>Dana M. McTigue (The Ohio State University, USA)</i>
13:30-14:00	The value of detailed electrophysiology testing in spinal cord injury therapeutics trials <i>James D. Guest (University of Miami, USA)</i>		$\gamma\delta$ T cells and spinal cord injury <i>Libing Zhou (Ji'nan University, China)</i>
14:00-14:30	Regulation of Amyloid-beta Deposition by STAT1-CH25H Axis <i>Xin-Yuan Fu (National University of Singapore, Singapore)</i>		Neuroprotective Approaches for the Treatment of Glaucoma and Other Forms of Optic Nerve Disease <i>Donald J. Zack (Johns Hopkins University, USA)</i>
14:30-15:00	Cell therapy in Chronic stroke patients <i>Shinn-Zong Lin (Tzu Chi Hospital, Hualien, Taiwan, China)</i>		The role of inflammation in neuroplasticity and rehabilitation training following SCI <i>Karim Fouad (University of Alberta, Canada)</i>
15:00-15:30	Novel therapeutic strategies of spinal cord injury <i>Hui Zhu (Kunming Tongren Hospital, China)</i>		The Function and Mechanisms of Autophagy in Spinal Cord Injury <i>Junfang Wu (University of Maryland, USA)</i>
15:30-16:00	Coffee break		
16:00-17:30 S03: Translation and Clinical Trials 2 SESSION CHAIR: Zhengqin Yin, Shiqing Feng, Shibo Tang		Meeting room 2, Level 7	16:00-17:30 S04: Large (FAIR) Data Sharing in Neural Regeneration SESSION CHAIR: Vance P. Lemmon, Hongguang Han, Huaqing Yang
16:00-16:30	Brain function study in clinical procedure: brain-to-text study <i>Xinguang Yu (Chinese PLA General Hospital, China)</i>		Using machine learning to identify targets and anti-targets for axon regeneration <i>Vance P. Lemmon (University of Miami, USA)</i>
16:30-17:00	Human embryonic stem cell - derived RPE transplants as a potential treatment for wet age-related macular degeneration <i>Zhengqin Yin (The First Hospital Affiliated to AMU (Southwest Hospital), China)</i>		Data Sharing to Accelerate Reproducibility and Bench-to-Bedside Translation in Spinal Cord Injury <i>Adam Ferguson (University of California, USA)</i>



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17:00-17:30	The past, present and future of spinal cord injury <i>Shiqing Feng (The General Hospital of Tianjin Medical University, China)</i>	Building a community driven data sharing platform: The Open Data Commons in preclinical spinal cord injury research <i>Karim Fouad (University of Alberta, Canada)</i>	
18:00-19:30	Banquet & Open Ceremony		International Convention Hall, Level 1
20:00-22:00	Inaugural Meeting of the Sub-groups of Neural Regeneration and Repair Professional Committee of Chinese Research Hospital Association		



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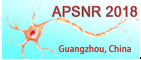
Time/ Date	July 28, 2018 (Saturday)		Location
8:00-9:00	Keynote Speech: Dissecting spinal cord regeneration <i>Michael V. Sofroniew (University of California, USA)</i> SESSION CHAIR: Zhigang He		Meeting room 1, Level 7
9:00-11:00 S05: Frontiers in Neural Regeneration SESSION CHAIR: Kwok-fai So, Xiao-Ming Xu, Liming Cheng			Meeting room 1, Level 7
9:00-9:30	Innovation and translation of tissue engineering <i>Xiao-song Gu (Nantong University, China)</i>		
9:30-10:00	Novel strategies of promoting functional recovery after severe spinal cord injury <i>Zhigang He (Harvard Medical School, USA)</i>		
10:00-10:30	An essential role for microglia in promoting plasticity and repair in the injured spinal cord <i>Philip G. Popovich (The Ohio State University, USA)</i>		
10:30-11:00	Genetically modified large animal models of neurodegenerative diseases <i>Xiao-Jiang Li (Emory University, USA; Jinan University, China)</i>		
11:00-11:30	Lunch break		Meeting room 1, Level 7
11:00-11:15	Lab animal behavior analysis in response to scientific research <i>Dr. Yiqing Liang, Clever Sys Inc., USA</i>		
11:30-13:30	Poster Session Chair: Wutian Wu Evaluators: <i>Bo Chen, Gong Chen, Le-Ping Cheng, Liming Cheng, Shiqing Feng, Adam Ferguson, Karim Fouad, Xin-Yuan Fu, Herbert M. Geller, James D. Guest, Xiaoming Jin, Byung G. Kim, Jae K. Lee, Xiao-Jiang Li, Shinn-Zong (John) Lin, Dana M. McTigue, Zhiping P. Pang, Bo Peng, Philip G. Popovich, John T. Povlishock, Yan Shi, Tao Sun, Shibo Tang, Andrea Tedeschi, Wei Shi, Junfang Wu, Zhengqin Yin, Wise Young, Donald J. Zack, Chun-Li Zhang, Binhai Zheng, Jian Zhong</i>		Level 1, Lobby
13:30-16:00 S06: Stem Cell and Reprogramming of the Damaged CNS	VIP Lounge, Level 1	13:30-16:00 S07: Regeneration of damaged CNS SESSION CHAIR: Byung Gon Kim, Xiaodong Guo, Zhonghai Li	Meeting room 1, Level 7
SESSION CHAIR: Gong Chen, Chun-Li Zhang, Jinghui Huang			



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13:30-14:00	Brain Repair through in vivo astrocyte-to-neuron conversion <i>Gong Chen (The Pennsylvania State University, USA; Jinan University, China)</i>	Schwann cell transplantation for spinal cord injury repair: an overview <i>Xiao-Ming Xu (Indiana University, USA)</i>	
14:00-14:30	Reprogramming the resident for neuronal regeneration <i>Chun-Li Zhang (University of Texas Southwestern Medical Center, USA)</i>	Proteoglycan sulfation patterns regulate neural regeneration <i>Herbert M. Geller (Division of Intramural Research National Heart, Lung, and Blood Institute, USA)</i>	
14:30-15:00	Coffee break	Coffee break	
15:00-15:30	Direct reprogramming of astrocytes into neurons and neuronal subtypes <i>Le-Ping Cheng (Chinese Academy of Sciences, China)</i>	Injectable hydrogel for CNS tissue repair <i>Byung Gon Kim (Ajou University, Republic of Korea)</i>	
15:30-16:00	Applications of transcriptomic analyses with single cell resolution to neural injury and repair research <i>Yi Sun (Tongji University, China; University of California, USA)</i>	A Novel Signaling Molecule Regulating Reactive Astrogliosis in the Mammalian CNS <i>Binhai Zheng (University of California, USA)</i>	
16:30-18:30 S08: Innovative discoveries by Rising Star in Neural Regeneration SESSION CHAIR: Wutian Wu, Gang Chen, Jun Liu		VIP Lounge, Level 1	16:30-18:30 S09: Activity-mediated plasticity and recovery SESSION CHAIR: John T. Povlishock, Xuyi Chen, Bin Wang
			Meeting room 1, Level 7
16:30-17:00	Axon regeneration: are the processes of elongation and synapse formation at odds with one another? <i>Andrea Tedeschi (The Ohio State University, USA)</i>	Physical exercise improves motor skill learning via selective activation of mTOR complex 1 to enhance mouse cortical neuron remodeling <i>Kwok-fai So (The University of Hong Kong; Jinan University, China)</i>	
17:00-17:30	Macrophage-mediated wound healing mechanisms after spinal cord injury <i>Jae K. Lee (University of Miami, USA)</i>	Activity enhancement for the treatment of posttraumatic epilepsy and neuropathic pain <i>Xiaoming Jin (Indiana University, USA)</i>	
17:30-18:00	Reactivation of Dormant Relay Pathways in Injured Spinal Cord by KCC2 Manipulations <i>Bo Chen (Harvard Medical School, USA)</i>	Neocortical circuit disruption and reorganization following mild traumatic brain injury: Implications for posttraumatic morbidity and recovery <i>John T. Povlishock (Virginia Commonwealth University, USA)</i>	
18:00-18:30	Deciphering the origins of repopulated microglia in the central nervous system	Utilizing human neurons to study neuropsychiatric disorders <i>Zhiping P. Pang (Rutgers Robert Wood Johnson Medical School, USA)</i>	



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	<i>Bo Peng (Chinese Academy of Sciences, China)</i>	
18:30-20:30	NRR Night & Award Ceremony	International Convention Hall, Level 1



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Time/ Date	July 29, 2018 (Sunday)	Location
8:00-9:00	Keynote Speech: Methods and application of human neurons trans-differentiated from other cell types <i>Thomas C. Südhof (Stanford University, USA)</i> SESSION CHAIR: Vance P. Lemmon	Meeting room 1, Level 7
9:30-12:00	Mini-symposium 1-17 (English/Chinese)	
S01	Neural regeneration and repair basic research (Chinese) <i>Session Chair: Libing Zhou, Jinan University, China</i> <i>Evaluator: Le-Ping Cheng, Zhiping P. Pang</i>	Meeting room 6, Level 7
	Mechanism of neural circuit repair after spinal cord injury <i>Yaobo Liu, Institute of Neuroscience, Soochow University, China</i> The roles and mechanisms of RhoA on Schwann cell proliferation and differentiation <i>Jiasong Guo, School of Basic Medical Science, Southern Medical University, China</i> The role of extracellular matrix for myelin development <i>Hui Fu, Wuhan University School of Basic Medical Sciences, China</i> Mechanism of chitosan degradation products in facilitating peripheral nerve regeneration <i>Yongjun Wang, Key Laboratory of Neuroregeneration, Nantong University, China</i>	Electroacupuncture reinforces the efficacy of stem cell transplantation treating spinal cord injury by improving the microenvironment <i>Ying Ding, Sun Yat-sen University Zhongshan School of Medicine, China</i> An in vivo Drosophila model of axon injury reveals the essential role of the ESCRT component VPS4 in Wallerian degeneration <i>Yanshan Fang, The Interdisciplinary Research Center of Biology and Chemistry, Chinese Academy of Sciences, China</i> Early Detection of Retinal Ganglion Cell Degeneration in Glaucoma <i>Xiaorong Liu, University of Virginia, USA</i> KLF7-transfected Schwann cell graft transplantation promotes sciatic nerve regeneration <i>Ying Wang, Mudanjiang Medical University, China</i>
S02	Spinal cord injury basic and translational research (English) <i>Session Chair: Shiqing Feng, The General Hospital of Tianjin Medical University, China</i> <i>Evaluators: Karim Fouad, Zhigang He, Herbert M. Geller, James D. Guest, Vance P. Lemmon, Dana M. McTigue, Philip G. Popovich, Michael V. Sofroniew, Thomas C. Südhof, Wise Young</i>	Meeting room 1, Level 7
	Welcome and opening addressed <i>Shiqing Feng, The General Hospital of Tianjin Medical University, China</i> Epidemiological study on spinal cord injury in Tianjin <i>Di Zhang, The General Hospital of Tianjin Medical University, China</i> The emerging role of ferroptosis in the pathophysiology of acute spinal cord injury	proBDNF in spinal cord injury <i>Shen Liu, The General Hospital of Tianjin Medical University, China</i> Induction of endogenous neural stem cell to repair spinal cord injury <i>Yan Hao, The General Hospital of Tianjin Medical University, China</i> The Expression of Glutathione Peroxidase 4 after Spinal Cord Injury <i>Baoyou Fan, The General Hospital of Tianjin Medical University, China</i>



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<p><i>Xue Yao, The General Hospital of Tianjin Medical University, China</i> The Effectiveness of Using Neurofeedback in the Treatment of Spinal Cord injury <i>Fujiang Cao, The General Hospital of Tianjin Medical University, China</i> Multifunctional biomimetic spinal cord: New approach to repair spinal cord injuries <i>Yang Liu, The General Hospital of Tianjin Medical University, China</i></p>	<p>Angiopoietin-2 induces neuronal differentiation of mouse embryonic NSCs via phosphatidylinositol 3 kinase-Akt pathway-mediated phosphorylation of mTOR <i>Lu Lu, The General Hospital of Tianjin Medical University, China</i></p>	
<p>S03</p>	<p>Cerebrovascular disease and neural repair (Chinese) <i>Session Chair: Gang Chen, The First Affiliated Hospital of Soochow University, China</i> <i>Evaluators: Shinn-Zong (John) Lin</i></p>	<p>VIP Lounge, Level 7</p>
<p>The progress in intracerebral hemorrhagic stroke <i>Gang Chen, The First Affiliated Hospital of Soochow University, China</i> The application of CTA and CTP in the diagnosis of acute cerebrovascular diseases <i>Yasuo Ding, Jiangsu Taizhou People's Hospital, China</i> The application of endoscopy in the surgical treatment of intracerebral hemorrhage <i>Haiping Zhu, Changshu No.1 People's Hospital, China</i></p>	<p>Endoscope-assisted keyhole technique for the surgical treatment of intraventricular hemorrhage <i>Xiaojun Wang, Suzhou Xiangcheng People's Hospital, China</i> The prognostic factors in patients with massive cerebral infarction <i>Baoqi Dang, Zhangjiagang Hospital of Traditional Chinese Medicine, China</i> Experience in the surgical treatment of meningioma <i>Genlai Jia, The People's Hospital of Rugao, China</i> Microsurgical treatment of intracranial aneurysms <i>Jiang Wu, The First Affiliated Hospital of Soochow University, China</i></p>	
<p>S04</p>	<p>Emotional disorders and neural regeneration (Chinese) <i>Session Chair: Guiyun Xu, Guangzhou Huiai Hospital, China</i> <i>Evaluator: Bo Peng</i></p>	<p>Meeting room 7, Level 7</p>
<p>The boundaries of bipolar disorder <i>Guiyun Xu, Guangzhou Huiai Hospital, China</i> Non-pharmaceutical treatment of bipolar disorder <i>Weimin Dang, Peking University Sixth Hospital, China</i> Antidepressants treatment of of BD: a follow-up study <i>Yantao Ma, Peking University Sixth Hospital, China</i> Bipolar disorder and atypical symptoms <i>Daihui Peng, Shanghai Mental Health Center, China</i> Cognitive deficits in adult major depressive disorder patients <i>Yan Zhang, The Second Xiangya Hospital of Central South University, China</i></p>	<p>Mood disorders and gut microbiota <i>Han Rong, Shenzhen Kangning Hospital, China</i> The effects of omega-3 in prevention and treatment in MDD patients <i>Huanxing Su, Institute of Chinese Medical Sciences, University of Macau, China</i> Brain reconfiguration analysis for depression treatment <i>Qing Lu, Southeast University, China</i> Defining biotypes for major depressive disorder based on structural and functional connectivity <i>Zhijian Yao, Nanjing Brain Hospital, China</i></p>	
<p>S05</p>	<p>Brain injury and neural repair (Chinese) <i>Session Chair: Xuyi Chen, Affiliated Hospital of Logistics University of PAP, China</i></p>	<p>Meeting room 15, Level 7</p>



<i>Evaluator: Xiao-Jiang Li, Tao Sun</i>		
<p>Construction and evaluation for a new precise brain injury model of beagle <i>Xuyi Chen, Affiliated Hospital of Logistics University of PAP, China</i></p> <p>Resting and Reactive Astrocytes <i>Song Qin, Fudan University, China</i></p> <p>Brain Controlled Rehabilitation Robot <i>Feng Duan, Nankai University, China</i></p> <p>Wake-promoting and inflammatory modulatory action of bloodletting puncture at hand twelve Jing-Well points in traumatic brain injury rats <i>Zhifang Xu, Tianjin University of Traditional Chinese Medicine, China</i></p>	<p>Negative regulation of miR-122-5p on T-box brain 1 in differentiation of mouse bone marrow mesenchymal stem cells <i>Yunsheng Ma, Jinzhou Medical University, China</i></p> <p>Treatment of deep brain stimulation with DBS under general anesthesia and BIS monitoring <i>Qian Zhou, Xiangya Hospital Central South University, China</i></p> <p>MSCs based on the regulation of Th17/Treg immune homeostasis to promote TBI nerve repair: a clinical and experimental study <i>Xiaohong Li, Key Laboratory of Neural Trauma Repair of Tianjin, China</i></p>	
S06	<p>Brain cognition and neuromodulation (Chinese) <i>Session Chair: Zhiqi Mao, Chinese PLA General Hospital, China</i> <i>Evaluator: Xiaoming Jin</i></p>	Meeting room 16, Level 7
<p>Section 1: Research on DBS Targets and Mechanisms <i>Moderator: Chao-Gan Yan, Haitao Wu, Zhiqi Mao</i></p> <p>Notch1 signaling is essential for the DBS-induced neuromodulation effects in mice <i>Haitao Wu, Institute of Military Cognition and Brain Sciences, Academy of Military Medical Sciences (AMMS), China</i></p> <p>Deep Brain Stimulation in patients with Alzheimer's disease <i>Zhiqi Mao, Chinese PLA General Hospital, China</i></p> <p>Resting-state fMRI in identifying the neuromodulation target of major depressive disorder <i>Chao-Gan Yan, Institute of Psychology, Chinese Academy of Sciences, China</i></p> <p>Diffusion Tensor imaging study of cortico-subthalamic hyperdirect pathway in deep brain stimulation for Parkinson's disease <i>Nan Li, Tangdu Hospital, Fourth Military Medical University, China</i></p> <p>Human Brainnetome Atlas and its Applications</p>	<p>Section 2: Electrical stimulation mechanism and innovative technology <i>Moderator: Li Hu, Yuguang Guan, Zhiqi Mao</i></p> <p>Research on analgesia based on peripheral neuromodulation <i>Li Hu, Institute of Psychology, Chinese Academy of Sciences, China</i></p> <p>Vagus Nerve Stimulation and Recognition <i>Yuguang Guan, Sanbo Brain Hospital of Capital Medical University, China</i></p> <p>Neuromodulation of Spinal cord stimulation in disorders of consciousness <i>Yi Yang, PLA Army General Hospital, China</i></p> <p>Application of spinal cord stimulation in lock-in syndrome <i>Feng Qin, Third Affiliated Hospital of Sun Yat-Sen University, China</i></p> <p>Progress of neuromodulation technology based on medical engineering cooperation <i>Hongwei Hao, Tsinghua University, China</i></p>	<p>Section 3: EEG signal processing <i>Moderator: Nai Ding, Fengyu Cong, Zhiqi Mao</i></p> <p>Neural processing of the hierarchical structure of language <i>Nai Ding, College of Biomedical Engineering and Instrument Science of Zhejiang University, China</i></p> <p>Linking Brain Responses to Naturalistic and Continuous Music through Analysis of Ongoing EEG and Stimulus Features <i>Fengyu Cong, School of Biomedical Engineering, Dalian University of Technology, China</i></p> <p>What is the role of the left and right temporal in the Chinese verbal memory? <i>Xianghong Meng, Shenzhen Second People's Hospital, China</i></p>



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<p>Lingzhong Fan, Institute of Automation, Chinese Academy of Sciences, China The combined stimulation technique and application of intracranial bifunctional area in DBS Yihua Ning, Suzhou SceneRay Co., China</p>		
<p>S07</p>	<p>Brain protection in Cardiac ICU (Chinese) <i>Session Chair: Hongguang Han, The General Hospital of Shenyang Military, China</i> <i>Evaluator: Gong Chen</i></p>	<p>Meeting room 3, Level 7</p>
<p>Spinal cord protection in aortic surgery Haitao Zhang, Fuwai Hospital, China Academy of Medical Sciences, China Advances in brain injury and protection in adult cardiac surgery Bo Ning, Air Force General Hospital, China How to do clinical research in the big data age Yinping Li, Chinese Critical Care Medicine / Chinese Journal of Integrated Traditional and Western Medicine in Intensive and Critical Care Current status and future of critically ill cardio patients with cardiopulmonary bypass Hongguang Han, The General Hospital of Shenyang Military, China Early warning and management of central nervous system complications after cardiac surgery Bailing Li, Changhai Hospital Affiliated to the Second Military Medical University, China</p>	<p>The immune mechanism and treatment of patients with sepsis Jianfeng Wu, The First Affiliated Hospital, Sun Yat-sen University, China Sleep apnea(SA) and cardiovascular disease Bo Xie, Renji Hospital Shanghai Jiaotong University School of Medicine, China Remote transport of patients with ECMO Xiaomin Hu, Tianjin Third Central Hospital, China Analgesic and sedation score and treatment progress in patients with sever heart disease Yang Bai, The First Bethune Hospital of Jilin University, China Cardiac surgery and cerebral apoplexy Yu Du, Fuwai Hospital, China Academy of Medical Sciences, China</p>	
<p>S08</p>	<p>Spinal cord injury (Chinese) <i>Session Chair: Hui Zhu, Kunming Tongren Hospital, China</i> <i>Evaluators: Binhai Zheng</i></p>	<p>VIP Lounge: A Level 1</p>
<p>The surgical protocol and therapeutic effects of stem cell transplantation in treating spinal cord injury Hui Zhu, Kunming Tongren Hospital, China The relationship between expression of acid phosphatase and apoptosis of hippocampal neurons in Single-prolonged stress animal model Zhiyu Zhang, The Fourth Affiliated Hospital of China Medical University, China A new idea in the therapy of central nervous system injury-activate endogenous neurogenesis to repair brain and spinal cord injury Xiaoguang Li, Capital Medical University/Beihang University, China Low level laser therapy modulates macrophage polarization in spinal cord</p>	<p>The philosophical thinking of neural repair in spinal cord injury Liangjie Du, China Rehabilitation Research Center, China Injectable electroactive thermosensitive hydrogel containing nerve growth factor as a scaffold coordinating electro-stimulant therapy for repairing spinal cord injury Changfeng Fu, The First Bethune Hospital of Jilin University, China The application of transcranial magnetic stimulation in rehabilitation in people with incomplete spinal cord injury Hao Liu, Yixing Jiuru Rehabilitation Hospital, China</p>	



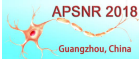
injury and its related mechanisms <i>Zhe Wang, Xijing Hospital, China</i>		
S09	Spine injury and functional reconstruction (Chinese) <i>Session Chair: Xiaodong Guo, Wuhan Union Hospital, China</i> <i>Evaluators: Xiao-Ming Xu, Junfang Wu</i>	Meeting room 2, Level 7
<p>Section 1: Moderators: Xiaojian Cao, Kai Lian, Jie Hao The new advances in treatment of cervical spinal cord injury <i>Tiansheng Sun, the Military General Hospital of Beijing PLA, China</i> The applied research for the functional reconstruction of bladder after spinal cord injury <i>Chunlin Hou, Shanghai Changzheng Hospital, China</i> Xiao Procedure: mechanisms and current status of clinical applications <i>Chuanguo Xiao, Shenzhen Xiaochuanguo Hospital, China</i> The research advances of Xiao Procedure <i>Xiaojian Cao, Jiangsu Provincial Hospital, China</i></p>		<p>Section 2: Moderators: Xiaodong Guo, Hongjian Liu, Meihua Li A new strategy for the treatment of cervical spinal cord injury <i>Yaping Feng, Kunming General Hospital of PLA, China</i> Cases collection of Spinal Cord Compartment Syndrome treated by durotomy and myelotomy <i>Xiaodong Guo, Wuhan Union Hospital, China</i> The directional distribution porous hydrogel of collagen-bFGF for the repair of spinal cord <i>Qiang Zhou, The First Hospital Affiliated to AMU (Southwest University), China</i></p>
S10	Spine degeneration and neuroprotection (Chinese) <i>Session Chair: Zhonghai Li, The First Affiliated Hospital of Dalian Medical University, China</i> <i>Evaluators: Liming Cheng</i>	Meeting room 17, Level 7
<p>Section 1 (Moderators: Guangzhi Ning, Xueyu Hu, Bin Meng) Current status, problems and considerations of lumbar fusion, non-fusion and Topping-off Technology <i>Zhonghai Li, The First Affiliated Hospital of Dalian Medical University, China</i> Spinal cord injury, what should we focus on? <i>Zhicheng Zhang, The Military General Hospital of Beijing PLA, China</i> The Study on Promoting Axon Regeneration of Cortical Neurons by Schwann Cell Exosomes <i>Guangzhi Ning, The General Hospital of Tianjin Medical University, China</i> Low level laser therapy modulates macrophage polarization in spinal cord injury and its related mechanisms <i>Xueyu Hu, Xijing Hospital, China</i> The Application of ERAS for Minimally Invasive Spinal Surgery <i>Bin Meng, The First Affiliated Hospital of Soochow University, China</i> The application of Delta endoscope in treatment of degenerative disease of spine <i>Feng Wang, The First Hospital of China Medical University, China</i></p>		<p>Section 2 (Moderators: Zhicheng Zhang, Feng Wang, Hailong Zhang) Multiple-rods construct for lumbar degenerative deformity <i>Jidong Guo, The First Affiliated Hospital of PLA General Hospital, China</i> The evaluation of neurological function and management of pulmonary and cardiovascular function after acute spinal cord injury <i>Xiang Li, China Rehabilitation Research Center, China</i> MR imaging diagnosis and differential diagnosis of routine non-neoplastic lesions in the spinal cord <i>Tao Jiang, Changhai Hospital Affiliated to the Second Military Medical University, China</i> Brief review about the research and development of bone substitutes <i>Yantao Zhao, The First Affiliated Hospital of PLA General Hospital, China</i> Application of three-dimensional printing technology in spine surgery <i>Fengning Li, The Third Hospital Affiliated to the Second Military Medical University, China</i></p>



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MIS-TLIF for lumbar spondylolisthesis with expandable tube <i>Hailong Zhang, Putuo People's Hospital Affiliated to Tongji University, China</i>		
S11	Peripheral nerve injury and repair (Chinese) <i>Session Chair: Jinghui Huang, Xijing Hospital, China</i> <i>Evaluator: Yi Sun</i>	Meeting room 10, Level 7
Non-coding RNA and nerve regeneration <i>Bin Yu, Key Laboratory of Neuroregeneration, Nantong University, China</i> Biological manufacturing of peripheral nerve repair materials <i>Qingtang Zhu, The First Affiliated Hospital, Sun Yat-sen University, China</i> Clinical and basic research progress of peripheral nerve compression <i>Jianghai Chen, Wuhan Union Hospital, China</i> The functional and morphological changes of neuromuscular junction in the peripheral nerve injury <i>Na Han, Peking University People's Hospital, China</i>		The development and regulation of GABA neurons and its role in pain circuits <i>Jiang Huang, The Fourth Military Medical University, China</i> Tissue engineering nerve sourced from extracellular matrix repair peripheral nerve defect <i>Yu Wang, Chinese PLA General Hospital, China</i> Peripheral nerve injury repair: Thinking and Enlightenment <i>Jinghui Huang, Xijing Hospital, China</i>
S12	Neuroimaging and neural regeneration (Chinese) <i>Session Chair: Jun Liu, The Second Xiangya Hospital of Central South University, China</i> <i>Evaluator: Yan Shi</i>	Meeting room 5, Level 7
Clinical application value of SWI in brain metastasis of lung cancer <i>Jun Liu, The Second Xiangya Hospital of Central South University, China</i> Simultaneous PET/fMRI in Neurodisease <i>Jie Lu, Xuanwu Hospital Capital Medical University, China</i> Preliminary study on injury mechanism of mild brain trauma based on magnetic resonance imaging <i>Lijun Bai, Xi'an Jiaotong University, China</i> Imaging characteristic of NMOSD <i>Zeng'ai Chen, Renji Hospital Shanghai Jiaotong University School of Medicine, China</i>		Clinical translation of brain imaging, challenge and breakout <i>Zhiqiang Zhang, Nanjing General Hospital, China</i> Neuroimage study of chronic ketamine users <i>Jinsong Tang, the Second Xiangya Hospital of Central South University, China</i> Magnetic resonance imaging of epilepsy <i>Xinhua Wei, Guangzhou First People's Hospital, China</i>
S13	Stem cell translational research (Chinese) <i>Session Chair: Bin Wang, Nanjing Drum Tower Hospital, China</i> <i>Evaluators: Chun-Li Zhang</i>	VIP Lounge: B Level 1
Stem cell clinical trials and supervision in China <i>Bin Wang, Nanjing Drum Tower Hospital, China</i> Using Brain EEG Analytics to Unlock Brain Function Complexity <i>Dachuan Liao, 6Connex Information Technology, China</i>		Legal issues in the industrialization of stem cells <i>Miao Cheng, Cheng&Peng Intellectual Property Law Office, China</i> Domestic and foreign stem cell automated culture method <i>Hao Zhang, Suzhou Oufei Nano Technology Co., Ltd., China</i>



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Stem cell products in foreign stem cell companies <i>Yijia Li, Stem Cell Center of Yunnan, China</i>		
S14	Chronic neurological diseases and big data management (Chinese) <i>Session Chair: Yajun Tian, Hangzhou Sanatorium, China</i> <i>Evaluators: Huaqing Yang, Zhengqin Yin</i>	International Convention Hall: Front, Level 1
Peripheral nerve balancing procedure for spastic paralysis after stroke <i>Huaqing Yang, Beijing Rehabilitation Hospital of Capital Medical University, China</i> Big data and chronic disease rehabilitation <i>Enda Zhang, Anshan Tanggangzi Hospital, China</i> Study on presuming the involved supplying arteries according to cerebral infarction <i>Yuxian Liu, Gansu Second Provincial People's Hospital, China</i> The road of neural rehabilitation in sanitarium <i>Kefeng Zhao, The 117th Hospital of PLA, China</i>		Spinal Cord Injury and Rehabilitation <i>Wending Huang, Fudan University Shanghai Cancer Center, China</i> The development of insurance and medical integration in China <i>Xuening Zheng, Shankang Henuo Insurance Brokers Co., Ltd., China</i> Health management of nervous system diseases from the perspective of data <i>Xuwei Zhang, Xiangya Hospital Central South University, China</i>
S15	Neurological intensive care and rehabilitation (Chinese) <i>Session Chair: Yan Liu, The First Hospital of China Medical University, China</i> <i>Evaluator: Xin-Yuan Fu</i>	International Convention Hall: Back, Level 1
Nursing of enteral nutrition with patients in neurological intensive care unit <i>Yan Liu, The First Hospital of China Medical University, China</i> Research advances of optimized rehabilitation nursing for patients with craniocerebral trauma during hospitalization <i>Hong Qu, The General Hospital of Shenyang Military, China</i> Multi mode monitoring of hypertensive intracerebral hemorrhage <i>Jishu Xian, The First Hospital Affiliated to AMU (Southwest University), China</i> New progress in assessment of severity of cerebrovascular disease in critically ill patients <i>Chaoli Chen, The First Hospital of Fujian Medical University, China</i>		The application of AI in therehabilitation of neurogenic bladder after stroke <i>Hongyan Zhang, The First Affiliated Hospital of Harbin Medical University, China</i> The developing prevention and management of VTE in neurosurgical intensive care <i>Shihong Zhao, The Second Affiliated Hospital of Harbin Medical University, China</i> The analysis of situation and hot fields of articles among neurological intensive nursing <i>Xiujie Zhang, The First Affiliated Hospital of Dalian Medical University, China</i>
S16	Young scientists forum 1 (Chinese) <i>Session Chair: Saijilafu, The First Affiliated Hospital of Soochow University, China</i> <i>Evaluator: Wutian Wu</i>	VIP Lounge 10/11 Level 5
Innovative ideas for rehabilitation of spinal cord injury <i>Zuncheng Zheng, Taian City Central Hospital, China</i>		Epothilone B impairs functional recovery after spinal cord injury by increasing secretion of macrophage colony-stimulating factor <i>Liang Mao, Jinzhou Medical University, China</i>



<p>PBAE nanoparticle-mediated the transduction of proneural transcription factors ASCL1 and NGN2 enhances spinal cord regeneration through melting astroglial scar <i>Hao Yang, Hong Hui Hospital, Xi'an Jiaotong University, China</i></p> <p>The role of myosin light chain kinase in the regulation of axon regeneration and its related mechanisms <i>Saijilafu, The First Affiliated Hospital of Soochow University, China</i></p> <p>A rapid Micro-MRI nerve scanning method for three-dimensional reconstruction of peripheral nerve fascicles <i>Zhi Yao, The First Affiliated Hospital of Sun Yat-sen University, China</i></p> <p>Therapeutic effect of acute thoracolumbar spinal cord injury <i>Zhi Li, Central Hospital Affiliated to Shenyang Medical College, China</i></p> <p>Anatomical feasibility of extradural transferring S2 and S3 ventral roots to S1 ventral root for restoring neurogenic bladder in spinal cord injury <i>Tao Sui, Jiangsu Province Hospital, China</i></p> <p>Low-intensity Pulsed Ultrasound Protects Retinal Ganglion Cell from Optic Nerve Injury Induced Apoptosis via Yes Associated Protein <i>Sen Lin, Daping Hospital, Army Medical University, China</i></p> <p>Designing Bioactive Hydrogels for Nerve Regeneration <i>Jiaju Lu, Tsinghua University, China</i></p>	<p>Fibroblast growth factor 21 facilitates injured peripheral nerve remyelination and functional recovery through suppressing oxidative stress via ERK/Nrf2 signaling pathway <i>Yingfeng Lu, The First Affiliated Hospital of Wenzhou Medical University, China</i></p> <p>The polypyrrole/biodegradable composite micro/nano fibrous scaffold for neural application <i>Qiaozhen Yu, Jiaxing University, China</i></p> <p>Activation of Schwann Cells in vitro by Magnetic Nanocomposites via Applied Magnetic Field <i>Zhongyang Liu, Xijing Hospital, Fourth Military Medical University, China</i></p> <p>The BAF45D protein is expressed in adult neural stem cells and involved in traumatic spinal cord injury <i>Chao Liu, Anhui Medical University, China</i></p> <p>Study on composite drug-loaded nerve conduit with electrical stimulation <i>Haixing Xu, School of Chemistry, Chemical Engineering and Life Sciences, China</i></p> <p>Embryonic spinal cord "foster" distal nerve promotes axonal regeneration after delayed nerve repair <i>Xinyu Fang, First Affiliated Hospital of Fujian Medical University, China</i></p> <p>Construction and empirical study of bladder function rehabilitation training program for patients with traumatic spinal cord injury <i>Yan Zhang, Gansu Province Hospital Rehabilitation Center</i></p>	
<p>S17</p>	<p>Young scientists forum 2 (Chinese) <i>Session Chair: Yibo Qu, GHM Institute of CNS Regeneration, Jinan University, China</i> <i>Evaluator: Shibo Tang</i></p>	<p>VIP Lounge 16/17 Level 5</p>
<p>Neuromodulation treatment for disorders of consciousness, report of 120 cases <i>Yi Yang, Bayi Brain Hospital Affiliated to Chinese PLA General Hospital, China</i></p> <p>Regulation of brain microvascular network: an important mechanism of traditional Chinese medicine in the treatment of neuroprotection after traumatic brain injury</p>	<p>Age-dependent neurodegeneration and symptoms in a transgenic pig model of SCA3 <i>Sen Yan, GHM Institute of CNS Regeneration, Jinan University, China</i></p> <p>SHANK3 deficient monkeys reveal the critical function of SHANK3 and autism-like symptoms <i>Zhuchi Tu, GHM Institute of CNS Regeneration, Jinan University, China</i></p>	



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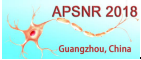
<p><i>Xiaoxuan Fan, Affiliated Hospital of Shanxi University of Chinese Medicine, China</i></p> <p>Guiding significance of Cerebral oxygen saturation monitoring in aortic dissection</p> <p><i>Li Deng, The First Affiliated Hospital of Harbin Medical University, China</i></p> <p>Cognitive Function Improve and Infarct Volume Diffusion Restraint Effects of MK-801 for Acute Brain Injury in Rat: A Meta-Analysis and Systematic Review</p> <p><i>Nanxing Yi, Longhua Hospital Shanghai University of Traditional Chinese Medicine, China</i></p> <p>The role of poly-L-ornithine in determining neural stem cell fate</p> <p><i>Kaiyuan Zhang, Southwest Hospital, Third Military Medical University, China</i></p> <p>The mechanism and functional reconstruction effect of Intraorbital electro stimulation on ocular motor nerve palsy</p> <p><i>Lingyun Zhou, The First Affiliated Hospital of Harbin Medical University, China</i></p> <p>Neuroprotective effect of lithium carbonate</p> <p><i>Hui Li, Shantou University Mental Health Center, China</i></p>	<p>The role of hippocampal Rac1 activity in the scene fear, memory forgetting and regression</p> <p><i>Lizhu Jiang, Dali University, China</i></p> <p>Early brain protection of pramipexole in rats with subarachnoid hemorrhage</p> <p><i>Junwei Ma, The Affiliated Hospital of Qingdao University, China</i></p> <p>Experimental study on the regulation of central cartilage growth to treat early onset scoliosis</p> <p><i>Xu Sun, Nanjing Drum Tower Hospital, China</i></p> <p>Remote limb ischemic postconditioning protects against cerebral ischemiareperfusion injury by activating AMPK-dependent autophagy</p> <p><i>Hao Bai, Tangdu Hospital, China</i></p> <p>Adiponectin attenuates NADPH oxidase-mediated oxidative stress and neuronal damage induced by cerebral ischemia-reperfusion injury</p> <p><i>Haixiao Liu, Tangdu Hospital, China</i></p> <p>Pterostilbene attenuates early brain injury following subarachnoid hemorrhage via inhibition of the NLRP3 inflammasome and Nox2-related oxidative stress</p> <p><i>Xunyuan Liu, Tangdu Hospital, China</i></p>	
<p>S18</p>	<p>Young scientists forum 1 (English)</p> <p><i>Session Chair: Jinhui Chen, Indiana University School of Medicine, USA</i></p> <p><i>Evaluators: Bo Chen, Byung Gon Kim, John T. Povlishock</i></p>	<p>VIP Lounge 18/19</p> <p>Level 5</p>
<p>Optogenetic-mediated corticospinal plasticity promotes forelimb functional recovery after SCI</p> <p><i>Wei Wu, Indiana University School of Medicine, USA</i></p> <p>In vivo imaging of vascular injury following spinal cord injury</p> <p><i>Chen Chen, Indiana University School of Medicine, USA</i></p> <p>Mechanistic target of rapamycin signaling pathway activates quiescent neural stem cells and promotes neuroregeneration after traumatic brain injury</p> <p><i>Xiaoting Wang, Indiana University School of Medicine, USA</i></p>	<p>Neurological Function Recovery and Tissue Damage Limitation Effects of Riluzole for Spinal Cord Injury in Rat A Meta-Analysis and Systematic Review</p> <p><i>Longyun Zhou, Longhua Hospital Shanghai University of Traditional Chinese Medicine, China</i></p> <p>Delivery of LINGO-1 shRNA in hydrogel promotes axonal regeneration and function recovery after brachial plexus avulsion</p> <p><i>Lu Ding, Guangdong Medical University, China</i></p> <p>Effects of DHA on the Motor Function of Spinal Cord Injury in Rats: a Systematic Review and Meta-analysis</p>	



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<p>Induced PDGFR α expression is selectively required for reactive astrocytes proliferation and confines brain damage following traumatic brain injury <i>Jinhui Chen, Indiana University School of Medicine, USA</i></p> <p>A clinical trial of allogeneic umbilical cord-derived mesenchymal stem cells intrathecal injection for patients with chronic spinal cord injury— preliminary clinical efficacy analysis with 32 cases <i>Mao Pang, The Third Affiliated Hospital of Sun Yat-sen University, China</i></p> <p>Triggering of autophagy by Baicalein in response to apoptosis after spinal cord injury: possible involvement of the PI3K activation <i>Yuanlong Li, The First Affiliated Hospital of Jinzhou Medical University, China</i></p>		<p><i>Zirui Tian, Longhua Hospital Shanghai University of Traditional Chinese Medicine, China</i></p> <p>Neuroprotective and Antioxidant effects of Resveratrol in Rats with Spinal Cord Injury: A Systematic Review and Meta-analysis <i>Baoping Xu, Longhua Hospital Shanghai University of Traditional Chinese Medicine, China</i></p> <p>Function and repair of corticospinal system <i>Xuhua Wang, Children's Hospital Boston, USA</i></p> <p>Neuroprotective effects of combined exogenous ketogenic diet and ketone supplementation (KD + KS) following acute spinal cord injury <i>Botao Tan, Blusson Spinal Cord Center, Canada</i></p>
<p>S19</p>	<p>Young scientists forum 2 (English) <i>Session Chair: Yike Li, Vanderbilt University Medical Center, USA; Jian Zhong, Weill Cornell Medicine, USA</i> <i>Evaluators: Jae K. Lee, Andrea Tedeschi, Donald J. Zack</i></p>	<p>VIP Lounge 12 Level 5</p>
<p>Cathepsin B activates NLRP3 inflammasome by regulating oxidative stress <i>Hua Bai, The Third Affiliated Hospital of Guizhou Medical University, China</i></p> <p>The mechanism and functional reconstruction effect of intraorbital electro stimulation on ocular motor nerve palsy <i>Tiejuan Liu, The First Affiliated Hospital of Harbin Medical University, China</i></p> <p>Rapid generation of neural network and cerebral organoid from human pluripotent stem cells for Parkinson's disease therapy and Western Pacific Parkinsonism-Dementia Complex disease modeling <i>Yiling Hong, Western University of Health Sciences, USA</i></p> <p>PDGF-BB protected penumbra cells from apoptosis and improved the neurological function recovery after permanent focal cerebral ischemia may associate with MicroRNA 29a, b or c <i>Na Lin, Kunming Lin Ming Biological Technology Co., Ltd, China</i></p> <p>MicroRNA-483 and IGF2 may affect on Learning and Memory Function in Rats after Different Intensity Treadmill Exercise <i>Xiu-Juan Dong, Sports institute of Hainan Normal University, China</i></p>		<p>Matrine ameliorates cognitive deficits in an Alzheimer's disease mouse model via inhibition of neuroinflammation <i>Juan Li, Ningxia Medical University, China</i></p> <p>Saikosaponin a ameliorate learning and memory impairment via inhibition of microglial activation in an AD mouse model <i>Yao Yao, Ningxia Medical University, China</i></p> <p>Peripheral nerve injury <i>Yike Li, Vanderbilt University Medical Center, USA</i></p> <p>Activation of cell-intrinsic RAF kinase signaling to promote CNS axon regeneration <i>Jian Zhong, Burke Neurological Institute, Brain and Mind Research Institute, Weill Cornell Medicine, USA</i></p> <p>Temporally delimited MET receptor tyrosine kinase signaling controls the ontogeny of developing forebrain circuits <i>Shenfeng Qiu, University of Arizona College of Medicine-Phoenix, USA</i></p> <p>The role of Slit/Robo signaling in peripheral nerve regeneration</p>



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SVCT2 promotes neural stem cell migration through inhibiting RhoA activation after ischemic injury in mice

Yang Yang, The First Hospital Affiliated to AMU (Southwest Hospital), China

Xinpeng Dun, Hubei University of Science and Technology, China

Percutaneous endoscopic bilateral decompression via unilateral approach for the treatment of lumbar spinal stenosis

Zhiqiang Jia, The Second Affiliated Hospital of Henan University of Science and Technology, China