Program at a Glance

Time/ Date	September 6, 2014 (Saturday)	Location
8:30-22:30	Registration	Level 1, Lobby
13:00-16:00	International Cooperation Discussion	206
18:30-20:30	Open Ceremony & Welcome Reception	Level 3, Yuhe Ting-Dining Room

Time/ Date	September 7, 2014 (Sunday)	Location
8:15-9:45	Keynote Speech	Level 3, Grand Hall
9:45-10:15	Group Photo	Level 1
10:15-12:00	S01: Development and axonal guidance	307
10:15-12:00	S02: Inflammation, neuronal and glial responses to injury	Level 3, Grand Hall
12:00-13:30	Lunch break	Level 3, Grand Hall
12:30-13:30	Meeting of Preparatory Committee	307
13:30-17:30	S03: Optic nerve regeneration and protection	307
13:30-18:00	S04: Clinical trials and regenerative medicine	308
13:30-16:55	S05: Peripheral nerve regeneration	309
18:00-19:00	Dinner	Level 3, Yuhe Ting-Dining Room
19:00-21:00	Round table discussion 01: Frontier in Neural Regeneration & Poster session	308
19:00-21:00	Round table discussion 02: Translational crosstalk	206
19:00-21:00	Round table discussion 03: 973 Session	203

Time/ Date	September 8, 2014 (Monday)	Location
8:15-9:15	Keynote Speech	307
9:15-9:40	Coffee Break	Level 3
9:40-12:00	S06: Spinal cord protection and regeneration	307
9:40-12:00	S07: Degeneration	308
9:40-12:00	S08: New frontier in stem cell research	309
12:00-13:00	Lunch break	307
13:00-15:50	S09: Oral presentation for outstanding abstract and distinguished guests	206
13:00-14:40	S10: Oral presentation for “Wings for Life” travel award winner	203

Scientific Program: Sept. 7 (Sunday)

8:15-10:15 Keynote Speech **Co-chair:** *Kwok-Fai So, GHM Institute of CNS Regeneration, Jinan University, China* *Xiao-Ming Xu, Indiana University, USA*		**Level 3, Grand Hall**
8:15-9:00	Neural Regeneration- A Retrospective *Albert Aguayo, McGill University, Canada*	
9:00-9:45	Schwann cells to the rescue: Repairing the injured spinal cord *Mary Bartlett Bunge, The Miami University, USA*	
9:45-10:15	**Group Photo**	**Level 1**
10:15-12:00 S01: Development and axonal guidance **Co-chair:** *Yimin Zou, University of California, San Diego, USA* *Libing Zhou, GHM Institute of CNS Regeneration, Jinan University, China*		**307 Conference Room**
10:15-10:50	*In vivo* reprogramming for brain repair *Gong Chen, Pennsylvania State University, USA*	
10:50-11:25	Improving functional recovery by manipulating Wnt signaling after spinal cord injury *Yimin Zou, University of California, San Diego, USA*	
11:25-12:00	Beyond Taxol: Microtubule-based Strategies for Promoting Nerve Regeneration after Injury *Peter W. Baas, Drexel University, USA*	
10:15-12:00 S02: Inflammation, neuronal and glial responses to injury **Co-Chair:** *Jacqueline C. Bresnahan, University of California, San Francisco, USA* *Michael Sofroniew, University of California, Los Angeles, USA*		**Level 3, Grand Hall**
10:15-10:50	Astrocyte roles in spinal cord injury *Michael Sofroniew, University of California, Los Angeles, USA*	
10:50-11:25	Degeneration, repair and inflammation in primate spinal cord injury *Jacqueline C. Bresnahan, University of California, San Francisco, USA*	
11:25-12:00	Role of tumor necrosis factor (TNF) and related pathways in CNS injury and repair *Michael S. Beattie, University of California, San Francisco, USA*	
12:30-13:30	**1st Preparatory Committee Meeting of Neural Regeneration, Chinese Association of Rehabilitation Medicine**	**307 Conference Room**
12:30-13:30	**Lunch**	**Level 3, Grand Hall**
13:30-17:30 S03: Optic nerve regeneration and protection **Co-chair:** *Alan Harvey, The University of Western Australia, Australia* *Shigang He, Shanghai Jiao Tong University, China*		**307 Conference Room**
13:30-14:05	Linking Intrinsic and Extrinsic Modulators of Axon Regeneration *Jeff Goldberg, University of California, San Diego, USA*	
14:05-14:40	What can neural tissue grafts in the visual system tell us about axonal growth and regeneration? *Alan Harvey, The University of Western Australia, Australia*	
14:40-15:15	Molecular basis of immune-mediated axonal regeneration in the injured optic nerve *Roman Giger, University of Michigan, USA*	
15:15-15:45	Coffee Break	
15:45-16:20	Strategies to limit secondary degeneration following neurotrauma *Melinda Fitzgerald, The University of Western Australia, Australia*	
16:20-16:55	Promoting axon regeneration by manipulating intrinsic regenerative ability *Zhigang He, Boston Children's Hospital, Harvard, USA*	
16:55-17:30	Long term rescue of visual functions by AAV mediated BDNF expression in two rodent glaucoma models *Shigang He, Shanghai Jiao Tong University, China*	

13:30-18:00	**S04: Clinical trials and regenerative medicine** **Co-chair:** Wise Young, *China Spinal Cord Injury Network, Hong Kong, China* Shinn-Zong Lin, *Chair of Asia Pacific Symposium on Neural Regeneration* Jianjun Li, *China Rehabilitation Research Center, China*	**308 Conference Room**
13:30-14:00	Translational industry of adipose tissue derived stem cells in regenerative medicine *Shinn-Zong Lin, Chair of Asia Pacific Symposium on Neural Regeneration*	
14:00-14:30	Phase II trials of cethrin: selecting meaningful endpoints for cervical spinal cord injury *Lisa M. Bond, BioAxone BioSciences, Inc., USA*	
14:30-15:00	Development and clinical translation of biomaterial technologies for spinal cord injury *Rick Layer, InVivo Therapeutics Corp., USA*	
15:00-15:30	Can lithium relieve neuropathic pain after spinal cord injury? *Mingliang Yang, China Rehabilitation Research Center, China*	
15:30-16:00	Coffee Break	
16:00-16:30	Biomarkers of human spinal cord injury - progress and perspectives *Brian Kwon, University of British Columbia, Canada*	
16:30-17:00	A preliminary evaluation of surgery to reconstruct thoracic breathing in patients with high level cervical spinal cord injury *Jianjun Li, China Rehabilitation Research Center, China*	
17:00-17:30	A preliminary study on spinal cord injury by diffusion tensor imaging *Xijing He, The Second Affiliated Hospital of Xi'an Jiaotong University, China*	
17:30-18:00	Umbilical cord blood mononuclear cell therapy of chronic spinal cord injury *Wise Young, China Spinal Cord Injury Network, Hong Kong, China*	
13:30-16:55	**S05: Peripheral nerve regeneration** **Chair:** Yudong Gu, Chinese Academy of Engineering, Huashan Hospital affiliated to Fudan University, China *Baoguo Jiang, Peking University, China*	**309 Conference Room**
13:30-14:05	Research on the mechanism of nerve regeneration and CNS remodeling after peripheral nerve injury (PNI) and renovation (PNR) *Baoguo Jiang, Peking University, China*	
14:05-14:40	Tissue engineered nerve: current and prospective *Xiaosong Gu, Nantong University, China*	
14:40-15:15	Therapeutic strategies for motoneuron regeneration after spinal root avulsion *Wutian Wu, The University of Hong Kong, China*	
15:15-15:45	Coffee Break	
15:45-16:20	Stem cell therapy for muscular atrophy *Jianguang Xu, Shanghai University of Traditional Chinese Medicine, China*	
16:20-16:55	The role and change of brain plasticity in peripheral nerve regeneration *Wendong Xu, Huashan Hospital affiliated to Fudan University, China*	
18:00-19:00	**Dinner**	**Yuhe Ting Dining Room**
19:00-21:00	**Round table discussion 01: New directions in Neural Regeneration /Poster session** **Co-chair:** *Kwok-Fai So, GHM Institute of CNS Regeneration, Jinan University, China* *Xiao-Ming Xu, Indiana University, USA*	**308 Conference Room**
19:00-21:00	**Round table discussion 02: Translational crosstalk** **Co-chair:** *Wise Young, China Spinal Cord Injury Network, Hong Kong, China* *Shinn-Zong Lin, Chair of Asia Pacific Symposium on Neural Regeneration* *Chunren Wang, National Institute for Food and Drug Control, China*	**206 Conference Room**
19:00-21:00	**Round table discussion 03: 973 Session** **Co-chair:** Yudong Gu, Chinese Academy of Engineering, Huashan Hospital affiliated to Fudan University, China *Baoguo Jiang, Peking University, China*	**203 Conference Room**

Scientific Program: Sept. 8 (Monday)

8:15-9:15 Keynote speech **Co-chair:** *Xiao-song Gu, Nantong University, China* *Zhigang He, Boston Children's Hospital, Harvard, USA*		**307 Conference Room**
8:15-8:45	Regulation of polarization of macrophage after spinal cord injury *Gong Ju, Member, Chinese Academy of Sciences, Fourth Military Medical University, China*	
8:45-9:15	Wolfberry and Neuroprotection *Kwok-fai So, Member, Chinese Academy of Sciences, GHM Institute of CNS Regeneration, Jinan University, The University of Hong Kong, China*	
9:15-9:40	Coffee Break	
9:40-12:00 S06: Spinal cord protection and regeneration **Co-chair:** *Oswald Steward, University of California, Irvine, USA* *Jan Schwab, Charité – Universitätsmedizin Berlin, Germany*		**307 Conference Room**
9:40-10:15	Spinal cord injury-induced immune deficiency syndrome (SCI-IDS) reduces host defence and facilitates infections - Deciphering underlying mechanisms of a prevalent risk factor for poor neurological recovery (disease modifying factor) *Jan Schwab, Charité – Universitätsmedizin Berlin, Germany*	
10:15-10:50	Promoting axon regeneration by manipulating intrinsic regenerative ability *Oswald Steward, University of California, Irvine, USA*	
10:50-11:25	Promote regrowth of the corticospinal tract axons after chronic spinal cord injury *Kai Liu, The Hong Kong University of Science and Technology, China*	
11:25-12:00	Functional regeneration of descending propriospinal axons beyond a spinal cord injury *Xiao-ming Xu, Indiana University, USA*	
9:40-12:00 S07: Degeneration **Co-chair:** *Khalid Iqbal, New York State Institute for Basic Research in Developmental Disabilities, USA* *Xiaomin Wang, Capital Medical University, China*		**308 Conference Room**
9:40-10:15	Traditional Chinese Medicine may treat neurodegenerative disorders *Xiaomin Wang, Capital Medical University, China*	
10:15-10:50	Role of Microtubule-associated Protein Tau in Neurodegeneration and Regeneration *Jian-Zhi Wang, Tongji Medical College of Huazhong University of Science and Technology, China*	
10:50-11:25	Role of Lower Brain Glucose Metabolism on the Pathogenesis of Alzheimer's Disease *Fei Liu, Nantong University, China*	
11:25-12:00	Shifting balance from neurodegeneration to regeneration of the brain: a novel therapeutic approach to Alzheimer disease and related neurodegenerative conditions *Khalid Iqbal, New York State Institute for Basic Research in Developmental Disabilities, USA*	
9:40-12:00 S08: New frontier in stem cell research **Co-chair:** *Itzhak Fischer, Drexel University, USA* *Shanping Yu, Emory University, USA*		**309 Conference Room**
9:40-10:15	Transplanting Neural Progenitors to Build a Neuronal Relay across the Injured Spinal Cord *Itzhak Fischer, Drexel University, USA*	
10:15-10:50	Endogenous regeneration via adult neurogenesis *Hongjun Song, Johns Hopkins University, USA*	
10:50-11:25	Combination stem cell therapy for ischemic stroke *Shanping Yu, Emory University, USA*	
11:25-12:00	Normal and aberrant integration of adult generated neurons *Guoli Ming, Johns Hopkins University, USA*	
12:00-13:00	**Lunch Break**	**307 Conference Room**

13:00-15:50 S09: Oral presentation for distinguished guests and outstanding abstract **Co-chair:** *Wutian Wu, The University of Hong Kong, China* *Jianzhong Zhang, Ningxia Medical University, China* *Ronghua Zhang, Jinan University, China*	**206 Conference Room**
13:00-13:20	The prevention of neurological complications and neuroprotection in orthopedic spine surgery *Yong Qiu, Nanjing Drum Tower Hospital The Affiliated Hospital of Nanjing Univeristy Medical School, China*
13:20-13:40	Aging Related Nuerodegeneration of the Lumbosacral Spinal cord and ameliorate by Sexual hormone replacement *Huibing Tan, Liaoning Medical College, China*
13:40-14:00	Molecular role of cPLA2 activation in spinal cord injury *Nai-Kui Liu, Indiana University, USA*
14:00-14:10	Systemic PTEN antagonist peptides promoted axon regeneration and functional recovery after CNS injury *Shuxin Li, Temple University School of Medicine, USA*
14:10-14:20	Impaired motor axon development in Spinal Muscular Atrophy *Lingling Kong, Johns Hopkins School of Medicine, USA*
14:20-14:30	*In Vivo* Two-Photon Imaging of Axonal Dynamics, Blood Flow and Calcium Influx with Methylprednisolone Therapy in a Mouse Spinal Cord Injury Model *Yiling Zhang, The General Hospital of Chinese People's Liberation Army, China*
14:30-14:40	Transplantation of embryonic spinal cord derived cells into transected peripheral nerve to prevent muscular atrophy *Carolin Ruven, The University of Hong Kong, China*
14:40-14:50	Physical exercise-triggered adiponectin increase mitigates impairment of hippocampal neurogenesis and behavioral despairs in a corticosterone-induced stress model *Ang Li, The University of Hong Kong, China*
14:50-15:00	Effects of PRGD/PDLLA/β-TCP conduit on peripheral nerve regeneration and neuroma formation *Yixia Yin, Wuhan University of Technology, China*
15:00-15:10	Expression of neuronal marker Hu C/Din matrixareas of the brain of trout Oncorhynchusmykiss after mechanical injury of optic nerve *Evgeniya V. Pushchina, Russian Academy of Sciences, Russia*
15:10-15:20	Dopaminergic neurogenesis is selectively compromised in the olfactory bulb of female mice lacking cholecystokinin 1 receptors *Yi Sui, Shenyang First People's Hospital, China*
15:20-15:30	Pax3 and Pax7 reversely interact and similarly regulate the expression of their target genes in the developing chicken spinal cord *Juntang Lin, Jena University Hospital/Xinxiang Medical University, Germany/China*
15:30-15:40	Effects of physostigmine on cell proliferation in the telencephalon of adult zebrafish *Chang-Joong Lee, Inha University, South Korea*
15:40-15:50	Effect of Bone Marrow Mesenchymal Stem Cells on Stress induced neural degeneration in CA1 Hippocampal region of Rats *Saravana Kumar, Saveetha Dental College, India*

13:00-14:40 S10: Oral presentation for "Wings for Life" travel award winner **Co-chair:** *Yiwen Ruan, Jinan University, China* *Verena May, Wings for Life Spinal Cord Research Foundation, Austria*	**203 Conference Room**
13:00-13:10	Lentivirus-mediated RNA interference targeting RhoA slacks the migration and proliferation of Schwann Cells in culture *Changhui Qian, Southern Medical University, China*
13:10-13:20	The role of mitochondrial fission/fusion in CNS axon regeneration *Alexander Kreymerman, University of California San Diego, USA*
13:20-13:30	Enhancement of functional recovery after peripheral nerve injury by intervention with peptide mimetics of protein tyrosine phosphatase-σ wedge motif *Heng Li, The University of Hong Kong, China*
13:30-13:40	Adiponectin mediates beneficial effects of running on depression-like behaviors and hippocampal neurogenesis *Suk-Yu Yau, University of Victoria, Canada*
13:40-13:50	The regulation mechanisms of miRNAs in peripheral nerve regeneration *Songlin Zhou, Nantong University, China*
13:50-14:00	A Compact Blast Brain Injury Device Produces Graded Injury Severities, Neuronal Degeneration and

	Functional Deficits *Hongxing Wang, Indiana University/First Affiliated Hospital of Nanjing Medical University, USA/China*
14:00-14:10	Oligodendrocyte in zebrafish retina: Development, Origin, behavior and function *Chen Tian, University of Science and Technology of China, China*
14:10-14:20	Microarray profiles comparing gene expression changes during primary versus secondary degeneration in the visual system *Wissam Chiha, The University of Western Australia, Australia*
14:20-14:30	Specific targeting of the entire motor end plates in the rat hindlimb enhances retrograde transport in the spinal cord motor neurons *Rahul Mohan, University of New South Wales, Australia*
14:30-14:40	Reparative neurogenesis in adult trout (Oncorhynchus mykiss): in vitro and in vivo investigation of CNS response after optic nerve injury *Sachin Shukla, L. V. Prasad Eye Institute, India*