

# Program of the 2<sup>nd</sup> International Association of Neurorestoratology Annual Conference (IANRAC)

24 April—26 April, 2009

## 24 April 2009 (Friday) :

**Pre-conference, Neurorestoratology Youth Forum, Council Meeting**

### **09:00–16:00 Pre-conference: Spinal Cord Outcome Assessment Workshop**

China SCI Net research cooperation team and University of Hong Kong SCI fund holding SCI clinical evaluation workshop

#### **Detail of the workshop:**

This workshop will train attendee on those following spinal cord injury evaluation methods: Walking Index for Spinal Cord Injury, WISCI and SCIM.

#### **Time: 09:00–16:00**

##### **Session chair: Wise Young**

09:00–10:00 Wise Young (USA): China SCI Net investigator meeting – clinical trial planning

10:00–12:00 Malka Itzkovich (Israel): Spinal Cord Independence Measure (SCIM)

12:00–13:00 Lunch

13:00–13:30 John Chen (Hong Kong): ChinaSCINet Observational Trial Summary

13:30–15:30 Mary Schmidt Read (USA): Walking Index for Spinal Cord Injury (WISCI)

15:30–16:00 Discussion & Summary

### **15:40–18:10 Neurorestoratology Youth Forum**

#### **Session Chair: Enzhong Liu, Weiping Wu, Lingsong Li**

15:40–15:50 Zhicheng Zhang (Beijing): The study of vaccination of NogoA combined with olfactory ensheathing glia implantation in treatment of acute spinal cord injury

15:50–16:00 Weipeng Liu (Beijing): Treatment of newborns with severe injured brain with transplantation of human neural precursor cells

16:00–16:10 Ruofei Li (Shanxi): Construction of recombinant adeno-associated virus vector co-expressing nogo66-sirna AND hngfβ genes

16:10–16:20 Guanhua Xu (Jiangsu): Research on biocompatibility of fibrin glue and olfactory ensheathing cells in vitro

16:20–16:30 Xiaoming Gong (Beijing): Olig1 is downregulated in oligodendrocyte progenitor cell differentiation

16:30–16:40 Di Chen (Beijing): Clinical study of combination neurorestoratology therapy for cerebral palsy

16:40–16:50 Yat-Ping Tsui (Hong Kong): *In vitro* derivation of myelinating Schwann cells from bone marrow stromal cells for transplantation

16:50–17:00 Chao Liu (Shandong): Observation of the olfactory ensheathing cells transplantation for old spinal injury by approach of multi-targets implantation

17:00–17:10 Jianling Bao (Beijing): Olfactory ensheathing cells transplantation delay the worsen progression in ALS rats by possible neuroprotective effect

17:10–17:20 Gan Wang (Beijing): Repair of adult rat spinal cord injury by co-transplantation of olfactory ensheathing cells and neural stem cells

17:20–17:30 Na Liu (Hubei): Compatibility of olfactory ensheathing cells with collagen-heparan sulfate biological scaffolds in vitro

17:30–17:40 Hui Yang (Heilongjiang): The effect of Fuzhisan(FZS) on cell proliferation in hippocampus in rat brain with Alzheimer's disease(AD)

17:40–17:50 Kai Cao (Shanxi): Primary culture of olfactory ensheathing cells and study of olfactory mucosa olfactory ensheathing cells transplantation in therapy of spinal cord injury

17:50–18:00 Guibin Zhong (Shanghai): Experimental and clinical study on the artificial bladder reflex arc established in therapy of flaccid bladder after spinal cord injury

18:00–18:10 Dexiang Ban (Tianjin): Treatment of rat's spinal cord injury with autologous activated Schwann cells via different grafting routes

18:10–19:00 Dinner

### **19:00–21:00 Council and invited experts meeting of IANR**

1. Chairman's presentation on "2008-2009 IANR Council Annual Work Report" will be deliberated by council members and invited experts. Invited experts and council members will provide different views as well as suggestions for IANR of 2009-2010.
2. Announce Cell Committee members of IANR;
3. Discuss the " Beijing Declaration of IANR ";
4. Discuss next year's 3<sup>rd</sup> IANRAC schedule, time and place the conference to be held, list the name of organization council members and scientific council members, and formulate the qualification and selection process of "Biggest Contribution Award to Neurorestoratology ";
5. Form the Editorial Board of the book "*CNS Neurorestoratology*" (1<sup>st</sup> edition in English), discuss the outline and distribute the task;
6. Cell Committee members will discuss and make "*IANR's principal of cell research and treatment*"

### **25 April 2009 (Saturday):**

**08:00–08:30 Opening Ceremony, Representatives' Collective Photo**

**08:30–12:10 Discipline introduction/ Cell and tissue transplantation (I)**

**Session Chair: Wise Young, Geoffrey Raisman, Ying Li**

08:30–08:45 Hongyun Huang (China): Introduction on establishment of neurorestoratology and related discussion on the subject

08:45–09:10 Almudena Ramón-Cueto (Spain): Repair of chronic spinal cord injuries by olfactory bulb ensheathing glia and feasibility of autologous therapy

09:10–09:50 Geoffrey Raisman & Ying Li (UK): Functional/Anatomical repair of spinal roots by olfactory ensheathing cells

9:50–10:00 Daqing Li (UK): Obtain OECs from Human Olfactory Mucosa

10:00–10:20 Discussion

10:20–10:30 Coffee Break

**Session Chair: Almudena Ramon-Cueto, Zaid M. Al Zoubi, Shiqing Feng**

10:30–10:55 Chernykh ER (Russia): Autologous bone-marrow cell transplantation for treatment of spinal cord injury

10:55–11:20 Lin Chen (China): Establishment of a clinical neurorestoratologic strategy based on olfactory ensheathing cell intracranial/intraspinal transplant: evidence from 1255 patients with CNS diseases

11:20–11:45 Albert Bohbot: (France): OECs and Laserponcture® from 2005 to today: follow-up and progress

11:45–11:55 Xijing He (China): Observation of perioperative skin sweat test of the SCI patients treated with the human OECs transplantation

11:55–12:10 Discussion

12:10–13:00 Lunch

### **13:00–15:35 Cell and tissue transplantation (II)**

**Session Chair: Patricia E. Phelps, Tiansheng Sun, Dajue Wang**

13:00–13:25 Yoon Ha (Korea): Multimodality approach for spinal cord injury cell therapy

13:25–14:10 Ziad .M. Al Zoubi & Adeeb Al-Zoubi & Mohammed Jamoos (Jordan): Treatment of Spinal Cord Injuries Using Purified Stem Cells — A Jordanian Experience

14:10–14:35 Harry S. Goldsmith (USA): Omentum transposition for Alzheimer Disease and Spinal Cord Injury

14:35–15:00 Patricia E. Phelps (USA): Transplantation of olfactory ensheathing glia enhance recovery of hindlimb stepping in adult spinal transected rats

15:00–15:25 Discussion

15:25–15:35 Coffee Break

### **15:35–16:45 Medicine, neural restoration and protection**

**Session Chair: Michael Chopp, Kwok-Fai So, Qunyuan Xu**

15:35–16:00 Kwok-Fai So (Hong Kong, China): Neuroprotective therapies for CNS injuries

16:00–16:15 Hua Feng (China): Suppressing acid-sensing ion channel 1a promotes functional recovery in traumatic spinal cord injury

16:15–16:25 Debora R Fior-Chadi (Brazil): Effects of nicotine on neuronal plasticity and neurorestoration

16:25–16:35 Jiming Wang (China): Effect of Gui-lu Marrow-benefiting capsule on behavior, porosis and mortality of experimental rabbit model with syringomyelia

16:35–16:45 Discussion

### **16:45–18:00 Tissue engineering and bioengineering**

**Session Chair: Huanzong Zuo, Changman Zhou, Xijin He**

16:45–17:10 Eva Syková (Czech Republic): Treatment of spinal cord injury using autologous stem cells and biomaterials

17:10–17:20 Peng Liang (China): BMSC-DHAM matrix promotes axonal regeneration and functional recovery after spinal cord injury in adult rats

17:20–17:45 Qunyuan Xu (China): A study on experimental therapy of rat model of stroke by tissue engineering with hyaluronic acid based scaffold

17:45–18:00 Discussion

18:00–19:00 Dinner

### **19:00–21:40 Cell and tissue transplantation (III)**

**Session Chair: Enzhong Liu, Gustavo Maviglia, Shaocheng Zhang**

19:00–19:10 Ming Lu (China): Advances in olfactory ensheathing cells combination with neural stem cells

19:10–19:25 Shiqing Feng (China): Effects of the repairs on Schwann cells after spinal cord injury

19:25–19:35 Yaojian Rao (China): Clinical application of transplantation of olfactory ensheathing cells for the treatment of spine core injury

19:35–19:45 Chengyuan Wu (China): Intracerebral transplantation of neural cells and genetically modified cells for disorders of central nervous system: a basic and clinical study

19:45–19:55 Chaoqun Ye (China): The repair of rats with spinal cord injury with walking training and cell mixing transplantation of OEG and Schwann cell

19:55–20:10 Discussion

20:10–20:20 Coffee Break

**Session Chair: Hua Feng, Yoon Ha, Chenyuan Wu**

20:30–20:35 Yihua An (China): Clinical trial: stem cells transplantation to repair central nervous system dysfunction

20:35–20:45 Krystyna Domanska-Janik (Poland): Cord blood derived neural stem/progenitors for regenerative neurology

20:45–21:10 Wise Young (USA): Subdural decompression study for acute or subacute spinal cord injury in rats

21:10–21:20 Jie Ma (China) Experimental study on embryonic stem cell transplantation to repair hypoxic-ischemic

encephalopathy

21:20–21:40 Discussion

**26 April 2009 (Sunday):**

**8:00-12:45 Neuromodulation and neural stimulation**

**Session Chair: Klaus R.H. von Wild, Guoming Luan, Reggie Edgerton**

08:00–08:15 Vedran Deletis (USA): "SPINAL CORD INJURY REPAIR. Where we are today and where we could be?"

08:15–08:40 Vedran Deletis (USA): Intraoperative neurophysiology of the spinal cord Injured patients

08:40–09:05 Larry Jordan (Canada): Brainstem and spinal neural systems for the initiation of locomotion

09:05–09:30 Russell J Andrews (USA): Neuromodulation for neurorestoration

09:30–09:45 Xiaomei Zhai (China) : Ethics & Governance in Stem Cell Research

09:45–10:05 Discussion

10:05–10:15 Coffee Break

**Session Chair: Vedran Deletis, Russell J Andrews, Larry Jordan**

10:15–10:40 Gerson Chadi (Brazil): Neuronal stimulation in CNS for neurorestoration

10:40–11:05 Guoming Luan (China): Clinical application of neuromodulation in China

11:05–11:30 Carmelo Sidoti (Italy): Cortical neuromodulation for ALS. What we learned

11:30–11:55 Reggie Edgerton (USA): Regaining stepping with epidural stimulation and pharmacological modulation

11:55–12:20 Klaus R.H. Von Wild (Germany): Making paraplegics walk again by neuromodulation

12:20–12:45 Discussion

12:45–13:40 Lunch

**13:40–15:30 Neural rehabilitation and neural restoration**

**Session Chair: Wagih Shafik El Masri, Albert Bohbot, Jianjun Li, Xinglin Wang**

13:40–14:05 Gitendra Uswatte (USA): Constraint-induced movement therapy: remodeling neural structures and restoring function

14:05–14:30 Wagih Shafik El Masri (UK): Quantitative Temporal Motor Recovery in Frankel ASIA A& B traumatic Spinal Cord Injury Patients

14:30–14:40 Zhenhuan Liu (China): Exploratory development of combined rehabilitation treatment for children with cerebral palsy

14:40–15:05 Serge Rossignol (Canada): The importance of the spinal CPG in the recovery of locomotion after partial spinal cord lesions

15:05–15:20 Discussion

15:20–15:30 Coffee Break

**15:30--16:30 Neural plasticity**

**Session Chair: Gitendra Uswatte, Gerson Chadi, Carlos Lima**

15:30–15:55 Michael Chopp (USA): Plasticity and Remodeling of Brain

15:55–16:20 Carlos Lima (Portugal): Beyond brain cell therapies: the neuroplasticity issue

16:20–16:30 Discussion

**16:30–18:20 Peripheral nerve and others**

**Session Chair: Yan Wang, Jianxing Song, Zuo Luan**

16:30–16:45 Gustavo Moviglia (Argentina): Protective Autoimmunity as a epigenetic influence for the recovery of early Adreno Leuko Dystrophy Cerebral Childhood patients

16:45–17:10 Yan Wang (China): Progress of research and treatment on peripheral neurorestoration

17:10–17:25 Shaocheng Zhang (China): Microsurgical treatment in neuralgia caused by spinal cord or peripheral nerve injury

17:25–17:40 Dajue Wang (UK): Reticular formation and repair of the spinal cord

17:40–18:00 Jianxing Song (Singapore): Targeting Nogo-NgR and Eph-eprin signalling for Enhancing Regeneration of the Injured CNS Axons

18:00–18:20 Discussion

**18:40–21:00 Closing ceremony**

18:40–18:55 Neurorestoratology Youth Forum Award

18:55–19:10 Closing speech – Chairman, Academic Committee of the 2<sup>nd</sup> IANRAC–Geoffrey Raisman

19:10–19:40 Entertainment Performance

19:40–21:00 Dinner