III International Congress of International Society of Reconstructive Neurosurgery (ISRN) and the VIth Neurorehabilitation and Reconstructive Neurosurgery (WFNS) in conjunction with the International Conference on Stem Cells and Neurosciences by A.T.E.N.A

Rome, Italy
Auditorium, Catholic University

1 – 3 October 2009

In memoriam of Prof. C.A. Pagni (Italy)

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G.J. Zhang (China)
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Preliminary Scientific Program

October 1st, 2009  Morning sessions

7.00 am  Registration of the participants
8.00 am

8.00 am  Opening ceremony
Special lecture
In memory of C.A. Pagni
M. Fontanella (Turin, Italy)

9.00 am  SPINE AND SPINAL CORD RECONSTRUCTION
1.00 pm  Instrumentation and fusion, bioengineering, transplantation

Chairmen:  V.H.K. Sonntag (Phoenix, USA),
           A. Ducati (Turin, Italy)
Discussant:  C.A. Logroscino (Rome, Italy)

The Chiari disease: what’s new?
C. Di Rocco (Rome, Italy)

Transoral approach: how, when, why?
A. Crockard (London, UK)

Transoral complex extended approaches:
a rule of maxillofacial surgery
R. Almadori (Rome, Italy)

History of spinal instrumentation and reconstruction
V. Denaro (Rome, Italy)

Cranio Vertebral Junction Instrumentation and Fusion
M. Visocchi (Rome, Italy)

Complex cervical spine reconstruction
V.H.K. Sonntag (Phoenix, USA)

How to avoid instrumentation and fusion in cervical spine surgery
B. George (Paris, France)
SPECIAL ISSUE
Spinal cord herniation: an underdiagnosed condition in spine surgery
G. Maira (Rome, Italy)

NEW TRENDS IN MINIMALLY INVASIVE SPINE RECONSTRUCTION

Efficacy and safety of percutaneous pedicle screw instrumentation
C.A. Logroscino (Rome, Italy)

Ozonotherapy
A. Alexandre (Treviso, Italy)

Kyphoplasty and vertebroplasty in spine surgery
J. Zhong (China)

Main Lecture
STEM CELLS AND SPINAL CORD “RECONSTRUCTION”
Bioengineering, research, present and future perspectives
A. Vescovi (Terni, Italy)

9.00 am
1.00 pm

COMMUNICATIONS AND PARALLEL SESSION
chaired by the Section of Spine Surgery of the Italian Society of Neurosurgery

G. Guizzardi (Florence, Italy), Y–H. Chiang (Taipei, Taiwan)
October 1\textsuperscript{st}, 2009  

\textbf{Afternoon sessions}

\begin{tabular}{ll}
\textbf{2.00 pm} & \textbf{CEREBROVASCULAR RECONSTRUCTION} \\
\textbf{6.00 pm} & \textbf{Surgical, radiosurgical, endovascular, neurostimulation} \\
\end{tabular}

\textbf{Chairmen: G. Maira (Rome, Italy), G.J. Zhang (China)}

\textbf{Discussant: A. Santoro (Rome, Italy)}

The history of cerebral revascularization

\textbf{F. Tomasello (Messina, Italy)}

Experience with Excimer Laser Assisted Non – Occlusive Anastomosis (ELANA): Experimental and Clinical Evidences

\textbf{C.A.F. Tulleken (Utrecht, The Netherlands)}

\textbf{G. Russo (Naples, Italy)}

Occlusive Anastomosis for hypoperfusion syndromes: Experimental and Clinical Experiences

\textbf{G. Maira (Rome, Italy)}

Occlusive anastomosis for skull base surgery. Experimental and clinical experiences

\textbf{O. Al-Mefty (Little Rock, USA)}

\textbf{VASCULAR MALFORMATIONS}

Surgical treatment of giant aneurisms

\textbf{G.P. Cantore (Pozzilli, Italy)}

Strategies for brain stem cavernomas surgery

\textbf{L. Shi-Ting (China)}

Therapeutic management of unruptured aneurisms. The results of the Italian muticenter study

\textbf{M. Collice (Milan, Italy)}
RECONSTRUCTION OF CEREBROVASCULAR ANATOMY IN AVM

The role of surgery
G. D’Aliberti (Milan, Italy)

The role of radiosurgery
C. Giorgi (Terni, Italy)

The role of interventional neuroradiology
M. Rollo (Rome, Italy)

2.00 pm

COMMUNICATIONS AND PARALLEL SESSION
chaired by the Section of Cerebral Haemodynamics of the Italian Society of Neurosurgery

M. Visocchi (Rome, Italy), M. Fontanella (Turin, Italy)
October 2\textsuperscript{nd}, 2009 \hspace{2cm} \textbf{Morning sessions}

\begin{center}
\begin{tabular}{ll}
9.00 am & \textbf{NEUROSTIMULATION} \\
1.00 pm & \multicolumn{1}{l}{Cortex, deep brain, spinal cord} \\

Chairmen: & \textbf{M. Scerrati} (Ancona, Italy), \textbf{Y. Katayama} (Tokyo, Japan) \\
Discussant: & \textbf{J.W. Chang} (Seoul, Korea) \\

Motor cortex stimulation & \textbf{C. Fukaya} (Japan) \\
Deep brain stimulation for Parkinson’s Disease & \textbf{Y. Katayama} (Tokyo, Japan) \\
Pallidotomy: is there still a role in Parkinson disease surgery? & \textbf{D.G. Iacopino} (Palermo, Italy) \\
Deep stimulation for epilepsy & \textbf{M. Scerrati} (Ancona, Italy) \\
Vagal nerve stimulation for epilepsy & \textbf{G. Colicchio} (Rome, Italy) \\
Deep Brain Stimulation for dystonia & \textbf{G. Broggi} (Milan, Italy) \\
Deep brain stimulation for behavoiur disorders & \textbf{A. Franzini} (Milan, Italy) \\
Developing portable deep brain stimulation systems for small animal & \textbf{J.W. Chang} (Seoul, Korea) \\
Spinal cord stimulation & \textbf{T. Yamamoto} (Tokyo, Japan) \\
Functional neuroaugmentative revascularization of the brain: & \textbf{M. Visocchi} (Rome, Italy) \\
the role of SCS. State of art & \textbf{Evaluation and modulation of brain plasticity} \\
& \textbf{V. Di Lazzaro} (Rome, Italy) \\

\end{tabular}
\end{center}

\textbf{MEETING OF THE BOARD OF THE ISRN}

Programma scientifico aggiornato al 13 maggio 2009
9.00 am
COMMUNICATIONS AND PARALLEL SESSION
chaired by the Section of Functional Neurosurgery of the Italian Society of Neurosurgery

A. Lavano (Catanzaro, Italy), Y-H. Chiang (Taipei, Taiwan)
October 2\textsuperscript{nd}, 2009  
\textbf{Afternoon sessions}

\textbf{2.00 pm}  \quad \textbf{NEUROSTIMULATION, PERIPHERAL NERVES AND FUNCTIONAL NEUROSURGERY}

Chairmen: \textbf{R. Proietti (Rome, Italy), V. Esposito (Pozzilli, Italy)}  
Discussant: \textbf{K. Von Wild (Münster, Germany)}

Coma and neurostimulation  
\textbf{T. Yamamoto (Tokyo, Japan)}

Bowel, bladder dysfunctions: functional neurosurgery  
\textbf{A. Lavano (Catanzaro, Italy)}

Psychosurgery for mental illness  
\textbf{A.R. Rezai (Cleveland, USA)}

Neurotransplantation in Huntington Disease: the Italian Clinical Trial at the University of Florence  
\textbf{P. Gallina (Florence, Italy)}

Robotics and new trends in DBS  
\textbf{P. Mazzone (Rome, Italy)}

\textbf{PERIPHERAL NERVES}  
\textbf{Special lecture}  
New trends in peripheral nerve repair  
\textbf{E. Fernandez (Rome, Italy)}

Brachial plexus surgery  
\textbf{A. Alexandre (Treviso, Italy)}

Treatment of chronic pain by peripheral nerve lesioning  
\textbf{P. Nardi (Rome, Italy)}

Nerve Decompression in patients with neuropathy  
\textbf{W. Zhang (China)}
FUNCTIONAL IMAGING AND NEUROPHYSIOLOGY

Chairmen:  
S.M. Gaini (Milan, Italy), P. Tonali (Rome, Italy)

Discussant:  
N. Di Lorenzo (Florence, Italy)

Perioperative and intraoperative brain stimulation in eloquent area surgery  
V. Esposito (Pozzilli, Italy)

Awake craniotomy  
L. Bello (Milan, Italy)

Intraoperative MRI  
R. Fahlbusch (Hannover, Germany)

Awake craniotomy and intraoperative MRI  
M. Mehdorn (Kiel, Germany)

MRI guided capsulotomy for major psychiatric diseases  
B. Sun (China)

Brain imaging during functional activation  
C. Colosimo (Rome, Italy)
October 3rd, 2009  Morning sessions

9.00 am  NEUROTRAUMA
1.00 pm  NEUROTRAUMA

New trends in diagnosis, therapy and rehabilitation

Chairmen:  J.T. Povlishock (Richmond, USA), T. Yamamoto (Tokyo, Japan)
Discussant:  Wen – Ta Chiu (Taipei, Taiwan)

Head and Spine Injury Prevention Programs
G. Rosseau (Chicago, USA)

The impact of time, legislation and geography on the epidemiology of traumatic brain injury
Wen – Ta Chiu (Taipei, Taiwan)

New insights into the pathophysiology and pathobiology of traumatic brain injury and their potential therapeutic modulation
J.T. Povlishock (Richmond, USA)

World Federation trends on brain injury
F. Servadei (Parma, Italy)

Experimental and clinical neuroimaging in neurotrauma
A. Germanò (Messina, Italy)

Experimental models of intracranial hypertension
C. Anile (Rome, Italy)

Neurotransplantation in brain injury models
B. Sun (China)

Neurorehabilitation in brain injury
K. Von Wild (Münster, Germany)

Alternative medicine in neurorehabilitation
W.S. Poon (Hong Kong)

FOCUS ON
Craniofacial traumas: state of art
G. Paludetti (Rome, Italy)
9.00 am

COMMUNICATIONS AND PARALLEL SESSION

chaired by The Section of Neurotrauma of the
Italian Society of Neurosurgery

L. Benvenuti (Livorno, Italy), W.S. Poon (Hong Kong)
2nd HANDS – ON COURSE ON INSTRUMENTATION AND FUSION OF CRANIOVERTEBRAL JUNCTION AND SPINE

Catholic University of Rome, 30 September 2009

Course coordinator: M. Visocchi MD

9:00 – 11:00 Didactic Lectures

Anatomy and Physiology

Craniovertebral junction anatomy and physiology
M. Visocchi (Rome, Italy)

Spine (cervical toracic lumbosacral) anatomy
L.A. Lattanzi (Termoli CB, Italy)

Spine (cervical thoracic lumbosacral) physiology
M. Bortoluzzi (Brescia, Italy)

Surgical indication and principles of bone fusion and instrumentation techniques
G. Innocenzi (Pozzilli IS, Italy)

Instrumentation and fusion techniques

Transoral decompression and principles of anterior instrumentation techniques
N. Di Lorenzo (Florence, Italy)

Craniocervical junction
C.A. Logroscino (Rome, Italy)

Cervical spine
M. Neroni (Rome, Italy)

Thoracic spine
V. Denaro (Rome, Italy)

Lumbar spine
A. Maleci (Cagliari, Italy)
**Disk prosthesis**

**V. D’Angelo** *(S. Giovanni Rotondo, Italy)*

**Minimally Invasive**

**G. Guizzardi** *(Florence, Italy)*, **A. Raco** *(Rome, Italy)*

**HANDS ON**

Instrumentation and fusion techniques on spines with or without neuronavigation

11:00 – 13:00  *lunch*

14:00 - 18:00

**Instructors all the teachers and**

**R. Gazzeri** *(Rome, Italy)*
**G. Esposito** *(Rome, Italy)*
**G. M. Della Pepa** *(Rome, Italy)*
**L. Proietti** *(Rome, Italy)*
**F.C. Tamburrelli** *(Rome, Italy)*

**Tuition Fees: 400 euros**
**The course is limited for an attendance of 12 people**
2\textsuperscript{nd} HANDS-ON COURSE ON LASER-ASSISTED MICROVASCULAR NEUROSURGERY

Catholic University of Rome, 30\textsuperscript{th} September 2009

Course coordinator: A. Puca, MD

Scientific board: A. Albanese MD, G. Esposito MD

8.45 -10.30  \textbf{Didactic Lectures}

Microvascular by-pass and its clinical applications  
\textbf{A. Albanese (Rome, Italy)}

Principles of laser-assisted welding of biological tissues  
\textbf{G. Pini (Rome, Italy)}

The ‘MOLVA’ technique (minimally occlusive laser vascular anastomosis)  
\textbf{G. Esposito (Rome, Italy)}

The ‘ELANA’ technique  
\textbf{G. Russo (Naples, Italy)}

Assessment of Cerebral blood flow  
\textbf{E. Marchese (Rome, Italy)}
10.45-13.00
Microvascular anastomosis laboratory session
Part I

Demonstration of diode-laser assisted microvascular bypass
A. Albanese (Rome, Italy)

Demonstration of microvascular anastomosis with the Elana technique
G. Russo (Naples, Italy)

14.00-18.00
Microvascular anastomosis laboratory session
Part II

Hands-on session: laser-assisted microvascular by-pass
A. Puca (Rome, Italy), A. Albanese (Rome, Italy), G. Esposito (Rome, Italy), G.M. Della Pepa (Rome, Italy)

Tuition Fees: 400 euros
The course is limited for an attendance of 12 people