Dear Friends and Colleagues,

It is a great pleasure and honour for me to host the 18th Meeting of the European Society for Stereotactic and Functional Neurosurgery and to welcome all of you to Rimini. I am proud as well that the Society’s congress returns to Italy for the third time, after Milan in 1996 (under the chairmanship of Prof. Giovanni Broggi) and prior to that Rome in 1983 (under the chairmanship of Prof. Gianfranco Rossi). All Prof. Rossi’s pupils who helped him to organise the 1983 meeting, Gabriella Colicchio, Mario Meglio and myself, have in the meantime developed their neurosurgical activity in different fields of functional neurosurgery, with enthusiasm and dedication, following the example and the lessons of their teacher. And now I am sure to echo my friend’s thoughts in saying we will dedicate our efforts at this meeting to him.

The scientific program reflects altogether the impressive evolution of our discipline, which today plays an even more rising and relevant role in neurosurgery. Neuronavigation, brain mapping and radiosurgery are standards in current neurosurgical practice. From basic research to new technologies, functional and stereotactic neurosurgery has always encompassed several fields, thus boosting the co-operation of scientists of different disciplines. The main goal of our congress is to give a further opportunity to meet and to share new knowledge, personal experiences and future projects. Besides, the charming atmosphere of Rimini, with its mixture of history, art and entertainments, will definitely favour personal as well as scientific contacts.

I cannot close this welcome without mentioning the invaluable help of the Board of the Society, which has continuously assisted me in the preparation of this congress, the generous support of our sponsors and the excellent work of our Organizing Secretariat CSR congressi.

Massimo Scerrati
Chair, Organizing Committee
Sunday, October 5

12:00  **Registrations opening**

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**SYMPOSIA**

**SYMPOSIUM**

DBS: THE PAST, THE PRESENT AND THE FUTURE

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**SESSION I - DBS for PD: Past, Present and Future**

Chairmen: **G. Broggi** (Milan, Italy), **M. Hariz** (London, UK)

- **13:45**  Introduction and welcome address  
  **G. Broggi** (Milan, Italy)

- **13:50**  DBS for PD. Where have we been, where are we, and where are we heading?  
  **P. Limousin** (London, UK), **P. Krack** (Grenoble, France)

- **14:30**  DBS in PPN. Indications, technique and results  
  **A. Lozano** (Toronto, Canada)

- **14:45**  General discussion on DBS for PD

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**SESSION II - DBS State of the art, future directions for psycho affective disorders**

Chairmen: **D. Sakas** (Athens, Greece), **M. Hariz** (London, UK)

- **15:00**  DBS for psychiatric illness: the pendulum of history  
  **M. Hariz** (London, UK)

- **15:15**  DBS in anterior internal capsule for OCD  
  **B. Nuttin** (Leuven, Belgium)

- **15:30**  DBS in nucleus accumbens for OCD  
  **R. Schuurman** (Amsterdam, The Netherlands)

- **15:45**  STN DBS for OCD  
  **P. Krack** (Grenoble, France)

- **16:00**  DBS for Tourette syndrome; the Italian experience  
  **M. Porta** (Milan, Italy)

- **16:15**  DBS for Tourette syndrome; the French experience  
  **J. Houeto** (Poitiers, France)

- **16:30**  **Coffee break** (EXHIBIT HALL and VERANDA RESTAURANT)

**POSTERS VIEWING - VERDE ROOM**

- **17:00**  DBS for depression  
  **A. Lozano** (Toronto, Canada)

- **17:20**  DBS in ventral capsule/ventral striatum for depression  
  **D. Malone** (Cleveland, USA)

- **17:40**  General discussion on DBS in psychiatry

- **18:00**  End of Session

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**19:00**  **Welcome Reception with Danilo Rea**
SYMPOSIUM
LOCO-REGIONAL THERAPY OF MALIGNANT BRAIN GLIOMAS

Chairmen: M. Scerrati (Ancona, Italy), J. Voges (Köl, Germany)

14,00 Lecture
Perspectives on malignant glioma therapy
C.M. Carapella (Rome, Italy)

LOCO REGIONAL CHEMOTHERAPY
14,30 Rationale and indications
F. DiMeco (Milan, Italy)

14,50 Clinical application and results
M. Mehdorn (Kiel, Germany)

INTRACAVITARY BRACHYTHERAPY
15,10 Rationale and indications
M. Collice (Milan, Italy)

15,20 Clinical application and results
M. Mondani, M. Skrap (Udine, Italy)

15,30 Concluding remarks
S.M. Gaini (Milan, Italy)

Discussion

16,00 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS VIEWING - VERDE ROOM

SYMPOSIUM
VAGAL STIMULATION FOR EPILEPSY AND DEPRESSION

Chairmen: M. Scerrati (Ancona, Italy), G. Broggi (Milan, Italy)

16,15 Rationale and Mechanism of Action
K. Vonck (Gent, Belgium)

16,35 EPILEPSY: experience in adults
P. Boon (Gent, Belgium)

16,50 EPILEPSY: experience in children
F. Rychlicki (Ancona, Italy)

17,10 Depression
M. Savino (Milan, Italy)

17,30 Discussion
SYMPOSIUM
SO-CALLED "FAILED BACK SURGERY SYNDROME"
Chairmen: J.K. Krauss (Hannover, Germany), M. Meglio (Rome, Italy)
14,00 FBSS: what’s behind a label? J.K. Krauss (Hannover, Germany)
14,30 NON-FUSION TECHNIQUES N. Specchia (Ancona, Italy)
15,00 FUSION TECHNIQUES M.V. Gabl (Innsbruck, Austria)
15,30 SPINAL CORD STIMULATION S. Blond (Lille, France)
16,00 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS VIEWING - VERDE ROOM

SYMPOSIUM
CONTROVERSIES IN RADIOSURGERY
Chairmen: Y. Lazorthes (Toulouse, France), M. Levivier (Bruxelles, Belgium)
16,15 Surgeon’s opinion F. Calbucci (Bologna, Italy)
16,20 Radiosurgery J. Regis (Marseille, France)
16,35 Surgeon’s opinion R. Delfini (Rome, Italy)
16,40 Radiosurgery L. Fariselli (Milan, Italy)
16,55 Surgeon’s opinion M. Meglio (Rome, Italy)
17,00 Radiosurgery A. DeSalles (Los Angeles, USA)
17,15 Surgeon’s opinion G. Maira (Rome, Italy)
17,20 Radiosurgery F. Colombo (Vicenza, Italy)
17,35 Surgeon’s opinion G. Broggi (Milan, Italy)
17,40 Radiosurgery M. Gerosa (Verona, Italy)
17,55 Conclusions F. Tomasello (Messina, Italy)
Monday, October 6

08,30 Opening Ceremony of the XVIII European Congress of the EUROPEAN SOCIETY FOR STEREOTACTIC NEUROSURGERY

Yves Lazorthes, ESSFN President
Massimo Scerrati, Meeting Chairman

“Jean Talairach: experience from the past for the future”
S. Blond (Lille, France)

Plenary Session I

Chairmen: Y. Lazorthes (Toulouse, France), M. Scerrati (Ancona, Italy)

Invited Lectures

09,00 The history of deep brain stimulation: when the past meets the future
M. Hariz (London, UK)

09,30 Oscillatory activity in the basal ganglia
A. Kühn (Berlin, Germany)

10,00 The Future of Epilepsy Surgery
J. Schramm (Bonn, Germany)

10,30 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS VIEWING - VERDE ROOM

11,00 Oral Presentations and Oral Posters Session

MOVEMENT DISORDERS I

Chairmen: F. Alesch (Vienna, Austria), M. Staal (Groningen, The Netherlands)

Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)

Long-term follow-up after bilateral subthalamic DBS in a series of 73 consecutive parkinsonian patients
A. Landi, F. Vergani, R. Cilia, D. Pirillo, A. Antonini, E.P. Sganzerla (Milan, Italy)

Long term follow-up in patients treated with subthalamic DBS for Parkinson Disease: a target localization study
S. Sarubbo, M.C. Sensi, R. Quatrale, R. Eleopra, E. Fainardi, M.A. Cavallo (Mestre VE, Italy)

Bilateral subthalamic nucleus stimulation in advanced Parkinson’s disease: five years follow-up
M. Capecchi, R.A. Ricciuti, V.G. Bombace, L. Provinciali, M. Scerrati, M.G. Ceravolo (Ancona, Italy)

Deep Brain Stimulation of the Globus Pallidus for Parkinson Disease – Clinical Results and Response of Pallidal Neurons after Intraoperative Stimulation of the Primary Motor Cortex
T. Itakura, M. Ogura, H. Nishibayashi, N. Nakao (Kimiidera, Wakayama, Japan)

Extradural motor cortex stimulation (MCS) in advanced Parkinson’s disease (PD): results of the study group of the Italian Society of Neurosurgery

Motor cortex stimulation for Parkinson’s disease
A prospective double-blind randomized study with cross-over. Ongoing clinical trial
B. Cioni, A.R. Bentivoglio, A. Daniele, C. De Simone, A. Fasano, C. Piano, M. Zinno, M. Meglio (Rome, Italy)

Motor cortex stimulation in advanced Parkinson’s Disease and Dopamine Transporter imaging: a follow-up study
D. Di Giuda, M.L. Calcagni, M. Totaro, B. Cioni, A. Bentivoglio, I. Bruno, D. Mattioli, M. Meglio, A. Giordano (Rome, Italy)
Monday, October 6

**Oral Posters (OP) (5 minutes presentation, 3 slides)**

**OP001** Improvements of Motor dysfunctions after bilateral subthalamic nucleus stimulation for Patients with advanced Parkinson disease  
Shang-Ming Chiou (Taichung, Taiwan)

**OP002** Cognitive effects of extradural motor cortex stimulation (MCS)  
M. Zinno, B. Cioni, A.R. Bentivoglio, C. DeSimone, A. Fasano, C. Piano, F.M. Meglio, A. Daniele (Rome, Italy)

**OP003** Position of Activated Electrode Contacts and their Correlation to Anatomical Structures in Deep Brain Stimulation of the Subthalamic Nucleus for Treatment of Advanced Parkinson’s Disease  
W. Eisner, T. Fiegele, F. Sohm, F. Primavesi, E. Wolf, J. Müller, R. Bauer, W. Poewe (Innsbruck, Austria)

**OP004** Deep brain stimulation of the subthalamic nucleus in Parkinson disease: what are the cognitive effects?  
E. Karner, E. Wolf, G. Wenning, W. Eisner, M. Delazer, W. Poewe, T. Benke (Innsbruck, Austria)

**OP005** Surgical complications in deep brain stimulation of the subthalamic nucleus for Parkinson’s disease. Experience from a single centre  
C. Fronda, P.P. Panciani, L. Lopiano, M. Zibetti, A. Ducati, M. Lanotte (Turin, Italy)

**OP006** Side-effects of DBS in the posterior subthalamic area  
A. Fytagoridis, P. Blomstedt (Umeå, Sweden)

**OP007** Psychiatric evaluation of patients with Parkinson’s disease, candidates to deep brain stimulation: results of a case-control study  
E. Giampieri, M. Beghi, E. Paggi, E. Mason, C. Scialò, A. Landi, F. Vergani, I. Carta, C.M. Cornaggia, S.M. Gaini, E.P. Sganzerla (Monza MI, Italy)

13,00 Lunch

13,00 ESSFN Lunch Executive Committee Meeting

14,00 **Oral Presentations and Oral Poster Session**

**CLUSTER HEADACHE**

*Chairmen: G. Broggi* (Milan, Italy), *Y. Lazorthes* (Toulouse, France)

**Oral Presentations (15 minutes: 12 minutes presentation + 3 minutes discussion)**

Sustained blood pressure changes with periventricular grey but not posterior hypothalamic deep brain stimulation  

Anatomical location of effective contacts in patients with chronic cluster headache treated by deep brain stimulation  

Hypothalamic deep brain stimulation for chronic cluster headache: results of a pluricentric controlled study  
Y. Lazorthes, D. Fontaine, S. Blond, P. Mertens, J-CH. Sol, N. Fabre, M. Lantéri-Minet (Toulouse, Nice, Lille, Lyon, France)

Occipital nerve stimulation in the treatment of chronic cluster headache  
R. Rodríguez, J. Molet, C. Roig, F. Muñoz, F. Bartumeus (Barcelona, Spain)

Hypothalamic deep brain stimulation for refractory cluster headache: microelectrode recordings  

Treatment of chronic cluster headache by stimulation of the postero-medial hypothalamus  
A. Franzini, M. Leone, G. Messina, R. Cordella, C. Marras, G. Bussone, G. Broggi (Milan, Italy)
Oral Poster (5 minutes presentation, 3 slides)

OP008 Deep brain stimulation in a patient suffering from short-lasting unilateral neuralgiform headache attacks with conjunctival injection and tearing (SUNCT) and right sided essential tremor: a case report
A.K. Jetzer, A. Kaelin-Lang, T. Lönnfors-Weitzel, A. Stibal (Berne, Switzerland)

16,00 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS VIEWING - VERDE ROOM

16,30 Oral Presentations and Oral Posters Session
EPILEPSY II and MONITORING

Chairmen: M. Manrique (Pamplona, Spain), A.J. Gonçalves Ferreira (Lisbon, Portugal)

Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)

Drug-resistant extratemporal lobe epilepsy
V. Esposito, S. Paolini, T. Vangelista, R. Morace, S. Tola, S. Bistazzoni, P.P. Quarato, G. Di Gennaro, A. Sparano, A. Mascia, G.P. Cantore (Rome, Pozzilli IS, Perugia, Italy)

Results of epilepsy surgery in children and predictors of outcome on seizures
M. Cossu, F. Cardinale, L. Castana, I. Sartori, L. Nobili, A. Citterio, M. Bramerio, G. Lo Russo (Milan, Italy)

Long Term Surgical Outcome in Patients Undergoing Surgery for Focal Cortical Displasia
K.N. Fountas, J.R. Smith (Larisa, Greece; Augusta, GA, USA)

Experience with Neuronavigation Assisted Surgery for Focal Epilepsy
I. Aksiks, R. Sverzickis, J. Slezins (Riga, Latvia)

Cortical disconnective procedures for epilepsy surgery

Peri-insular hemispherotomy: surgical procedures and clinical outcomes in a population of 16 patients
C. Marras, T. Granata, P. Ferroli, F. Villani, A. Franzini, S. Dylgjeri, R. Spreafico, G. Broggi (Milan, Italy)

Subclinical Abnormal Gyration Pattern in MR negative frontal lobe epileptic patients

Long Term efficacy of Gamma Knife Radiosurgery in Mesial Temporal Lobe epilepsy
J. Régis, F. Bartolomei, M. Hayashi, M. Tamuré, M. Rey, P. Chauvel (Marseille, France)

Neurophysiological exploration of the motor speech areas: possibility of mapping the Broca area under general anaesthesia?
B. Cioni, V. Deletis, G. Colicchio, C. De Simone, F. Papacci, G. Paternoster, D. Policicchio, A. Scarano, S. Ulkatan, M. Meglio (Rome, Italy; New York, USA)

Supplementary Motor Area (SMA) connectivity revealed by subcortical mapping and DTI FT findings
L. Bello, E. Fava, A. Castellano, G. Bertani, S.M. Gaini, A. Falini (Milan, Italy)

Language and cerebral networks: lessons from cortical and subcortical brain mapping during awake surgery and tractography

Epilepsy surgery in France. Activity and current results
B. Devaux, F. Chassoux, and participating centers (Bordeaux, Lyon, Rennes, Marseille, Paris-Necker, Nancy, Paris-Rothschild, Toulouse, Strasbourg, Tours, Lille, Rouen, Paris-Bicêtre, Paris-Salpêtrière, Grenoble, Montpellier, France)
Oral Posters (5 minutes presentation, 3 slides)

**OP009** Multiple stereotactic thermocoagulations: an alternative to surgical resection for intractable partial epilepsy. Technique and preliminary results  
_B. Devaux, B. Turak, F. Chassoux, E. Landré, S. Rodrigo, F.-X. Roux (Paris, France)_

**OP009 bis** Intraoperative mapping of a left parietal region whose stimulation induced writing arrest  
_L. Magrassi, I. Chiaranda, M. Minelli, H.F. Pesantez Orellana, M. Berardesca, D. Bongetta, C. Arienta (Pavia, Italy)_

19,00 End of Sessions

20,00 President’s dinner
11,00 **Oral Presentations Session and Oral Poster Session**

**NEUROTHERAPY**

**Chairmen:** G. Nikkhah (Freiburg, Germany), J. Bloch (Lausanne, Switzerland)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Clinical-neurophysiological correlations during the stereotaxic injection of the neuroinduced stromal autologous cells in parkinson patients

V. Sipitiy, V. Pyatikop, I. Kutovoy, Y. Babalyan, E. Shsegelskaya, Y. Mikulinskiy (Kharkov, Ukraine)

Primate adult brain cell autotransplantation in parkinsonian MPTP monkey model

J. Bloch, A. Baylon, M. Kaeser, D.E. Redmond, M. Levijier, J.-F. Brunet (Lausanne, Fribourg, Switzerland; New Haven, USA)

Long-term motor benefit induced by striatal carotid body graft is not due to graft-induced modification in the nigral cells activity

M. Manrique, W. San Sebastian, S. Belzunegui, J. Guillén, A. Izal-Azcárate, P. Garrido-Gil
M. Vázquez-Claverie, B. López, I. Marcilla, M.R. Luquin (Pamplona, Spain)

Fetal striatal grafts in a Huntington's disease patient – early developmental aspects of neurogenesis, ongoing mitosis, beginning maturation and integration six months posttransplantation

G. Nikkhah, R. Knott, J. Maciaczyk, G. Pantazis, M. Ditter, L. Bokla, G.B. Landwehrmeyer, B. Volk, P. Capetian (Freiburg, Ulm, Germany)

Stereotactically implanted encapsulated cell producing NGF in patients with Alzheimer’s disease – Initial results from a Phase Ib study

Wahlberg L.U., Ereksson-Jönhagen M., Lind G., Almqvist P.M., Linderoth B. (Ballerup, Denmark; Stockholm, Sweden)

Use of biomaterials to reconstruct brain neural aggregates and axonal projections in experimental models


A Phase I Clinical Trial for Parkinson’s Disease Using ProSavin®, a Lentiviral Vector Delivering the Genes for Dopamine Biosynthesis


**Oral Poster (5 minutes presentation, 3 slides)**

**OP009** Use of Stem Cells on Neurological Diseases (Cerebral Infarct)


13,00 **Lunch**

14,00 **Oral Presentations and Oral Posters Session**

**EPILEPSY I**

**Chairmen:** K.D. Post (New York, USA), G. Lorusso (Milan, Italy)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Continuous EEG-FMRI in patients with partial epilepsy and focal interictal slow-wave discharges on EEG

Monday, October 6

Localising value of pharmacologically provoked ictal spet in epilepsy surgery  
C. Barba, D. Di Giuda, F. Fuggetta, L. Bellesi, G. Colicchio (Florence, Rome, Italy)

Two-stage intracranial electroencephalography (iEEG) for the localization of the epileptogenic foci in extra-temporal epilepsy  
T. Bouras, S. Gatzonis, N. Georgakoulias, I.G. Panourias, A. Siatouni, C. Anagnostopoulos, 
C. Tsekou, D.E. Sakas (Athens, Greece)

Optimization of parameters of high frequency amygdalo-hippocampal stimulation in non-lesional, mesial temporal lobe epilepsy, from stereotactic EEG interictal discharges  
C. Boë, E. Pralong, R. Tyrand, L. Spinelli, G. Foletti, S. Vulliémoz, D. Debatisse, A.O. Rossetti, 
M. Seeck, C. Pollo (Geneva and Lausanne, Switzerland)

Cognitive effects of hippocampal DBS for refractory temporal lobe epilepsy  
D. Van Roost, M. Miatton, E. Thiery, K. Vonck, P. Boon, G. Vingerhoets (Ghent, Belgium)

Deep brain stimulation for refractory non-resectable epilepsy. Prerequisite for validation and preliminary results of two unconventional targets  
A. Franzini, C. Marras, G. Messina, G. Tringali, R. Spreatico, G. Broggi (Milan Italy)

Vagal nerve stimulation in drug resistant epileptic patients: three years follow-up study for different ages and aetiologies  
G. Colicchio, E. Cesaroni, F. Fuggetta, M. Meglio, F. Papacci, G. Paternoster, D. Policicchio, 
F. Rychlicki, M. Scerrati, N. Zamponi (Rome, Ancona Italia)

Vagal Nerve Stimulation (VNS) for intractable epilepsy associated with Tuberous Sclerosis Complex: an italian experience  
E. Cesaroni, N. Zamponi, F. Rychlicki, R. Trignani, F. Giordano, L. Genitori, D. Grioni (Ancona, Firenze, Monza MI, Italy)

Oral Posters (5 minutes presentation, 3 slides)

OP010  Cerebrospinal Fluid Shunting Procedures in Treatment for Epilepsy  
W.A. Khachatryan, K.A. Samochernykh, A.V. Kim (Saint-Petersburg, Russia)

OP011  Surgical complication of vns esplant/reimplant in children treated with single cervical incision  
F. Rychlicki, N. Zamponi, R. Trignani (Ancona, Italy)

OP012  Complications of invasive subdural and depth electrode in monitoring for epilepsy surgery in centers of Argentina  
M.M. Galán, M. Aberastury, G. Agosta, S. Kochen, M. Garcia, C. Maxit, M. Kitroser, F. Landriel, 
S. Hem, R. Rey, W. Silva, C. Ciraolo (Argentina)

OP013  Chronic bilateral subthalamic stimulation in drug-resistant epilepsy: long-term clinical and functional outcome  

OP014  Chronic high-frequency deep-brain stimulation in progressive myoclonic epilepsy of adulthood – report of 5 cases  
J. Vesper, B.J. Steinhoff, A.M. Staack, S. Bilic, Wille C (Kehl-Kork, Duesseldorf, Germany)

16,00  Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)  
POSTERS VIEWING - VERDE ROOM

16,30  Oral Presentations and Oral Posters Session  

MOVEMENT DISORDERS II

Chairmen:  J.K. Krauss (Hannover, Germany),  F. Velasco Campos (Mexico D.F., Mexico)

Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)

Deep brain stimulation for Parkinson’s disease - Report on the active contact positions  
Erik L. Johnsen, Karen Østergaard, Niels Aa. Sunde (Aarhus, Denmark)

Electrical Stimulation of Prelemniscal Radiations In The Treatment of Parkinsons Disease  
F.C. Velasco Campos, (Mexico DF, Mexico)
The Targeting of Nucleus Tegmenti Peduncolopontini (PPTg) is another stereotactic surgery
P. Mazzone, S. Sposato, E. Scarnati, V. Di Lazzaro, G. Della Marca (Rome, L’Aquila, Italy)

Deep brain stimulation in the posterior subthalamic area in the treatment of tremor
P. Blomstedt, U. Sandvik, A. Fytagoridis, L.-O. Koskinen, M. Hariz, S. Tisch (Umeå, Sweden,
London, UK, Sydney, Australia)

SCS in treatment of cerebral palsy – when can be used
A.V. Dekopov, V.A. Shabalov, E.M. Troshina (Moscow, Russia)

The chronic SCS in treatment of spinal spasticity
V.A. Shabalov, A.V. Dekopov, A.A. Tomskiy, E.D. Isagulyan (Moscow, Russia)

Intrathecal baclofen therapy in the management of severe spasticity of cerebral or spinal origin:
a case series of 84 patients from a single Neurosurgical Unit
I.G. Panourias, E. Boviatsis, M. Themistocleous, V. Konofaou, T.I. Bouras, T.N. Flaskas, L. Stavrínou,
S. Gatzonis, D.E. Sakas (Athens, Greece)

Surgical management of Parkinsonian and essential tremor with deep brain stimulation of the
prelemniscal radiation
J. Espinosa, G.J. Arango (Bogota, Colombia)

Oral Posters (5 minutes presentation, 3 slides)

OP015 Thalamic stimulation for tremor: could target determination be improved?
Cornu (Paris, France)

OP016 Effect of deep brain stimulation on speech in patients with Parkinson’s disease
I. Papathanasiou, A. Protopapas, G. Deligiorgi, A. Lolakidi, D. Kasselimis, S.M. Themistocleous,
P. Stathis, E.J. Boviatis, D.E. Sakas (Patras, Athens, Crete, Greece)

OP017 Baclofen intratecal with pump of infusion ARCHIMEDES for the treatment of spasticity
Circolo (Buenos Aires, Argentina)

OP018 Evaluation of deep cerebellar stimulation in spasticity in cases of CP
M. Harat, K. Radziszewski, M. Ruda, M. Oko, M. Galanda (Banska Bystrica, Slovakia)

OP019 Comparison of globus pallidus neuronal activity recorded before and four years after DBS
implantation
E. Pralong, C. Pollo, J.G. Villemure, M. Levivier, D. Debatisse (Lausanne, Switzerland)

OP020 Deep brain stimulation of the subthalamic nucleus. Active contact’s coordinates acquisition and
anatomical localization
C. Serra, P. Picozzi, M.A. Volontè, A. Franzin, A. Vimercati, P. Mortini (Milan, Italy)

OP021 Gamma Knife Radiosurgery for disabling tremor: About a series of 10 patients
J. Régis, T. Witjas, Y. Arkha, S. Yomo, D. Porcheron, J.C. Peragut, J.Ph. Azulay (Marseille, France)

M. Marchetti, G. Messina, E. Forapani, C. Marras, A. Franzini, I. Milanesi, M. De Santis, L. Brait,
L. Fariselli, G. Broggi (Milan, Italy)

OP023 The development of stereotactic procedures in the posterior subthalamic area in the treatment
of movement disorders
P. Blomstedt, U. Sandvik, A. Fytagoridis (Umeå, Sweden)

OP024 Evaluation of brain damage during movement disorders surgery with the utilization of the S100b
protein
Sakas (Athens, Greece)

19,00 End of Sessions
Tuesday, October 7

08,30 Oral Presentations and Oral Posters Session

**MOVEMENT DISORDERS III**

Chairmen: T. Aziz (Oxford, UK), A. Franzini (Milan, Italy)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Bilateral deep brain stimulation for primary cervical dystonia: Long term follow up in a series of ten patients
F. Cacciola, J.O. Farah, P. Byrne, A. Duffy, P.R. Eldridge, T.K. Varma (Liverpool, UK)

Three years follow-up in Gpi deep brain stimulation for primary segmental distonia
S. Sarubbo, R. Schivalocchi, R. Quatrale, M.C. Sensi, R. Eleopra, S. Biguzzi, E. Fainardi, M.A. Cavallo (Ferrara, Mestre)

Clinical course of dyt1 dystonia patients treated with deep brain stimulation: a three to ten year follow-up study
L. Cif, X. Vasques, S. Gavarini, P. Ravel, V. Gonzalez, B. Biolsi, G. Collod-Beroud, S. Tuffery-Giraud, P. Coubes (Montpellier, France)

Outcome of secondary Dystonia after DBS surgery
P. Katsakiori, Z. Kefalopoulou, E. Markaki, J. Ellul, E. Chroni, G. Kagadis, C. Constantoyannis (Patras, Greece)

Long-term follow-up of pallidal stimulation in childhood onset dystonia

Chronic deep brain stimulation in segmental dystonia: significant improvement of head and neck mobility showed by computerized motion analysis
Blahak C, Baezner H, Capelle HH, Wöhrle H, Hennerici MG and Krauss JK (Mannheim; Hannover, Germany)

Long-term safety and efficacy of early chronic Globus pallidus internus (Gpi) -stimulation in paediatric patients suffering from intractable generalized primary dystonia
Mehrkens JH, Heinen F, Borggräfe I, Bötzel K (Munich, Germany)

**Oral Posters (5 minutes presentation, 3 slides)**

**OP025** Chronic deep brain stimulation for tardive dystonia in patients without a history of major psychosis
Hans-Holger Capelle, Christoph Schrader, Christian Blahak, Thomas Kinfe, Hansjoerg Baezner, Reinhard Dengler and Joachim K. Krauss (Hannover, Mannheim, Germany)

**OP026** A SPECT study on two patients with secondary Dystonia treated by Gpi DBS
A. Paschali, Z. Kefalopoulou, E. Markaki, P. Vassilakos, C. Constantoyannis (Patras, Greece)

**OP027** Deep Brain Stimulation of Subthalamic Nucleus (STN) for Generalized Dystonia in GM1 type 3 Gangliosidosis (GM1-3g)
Navarro Ms, Roze E, Pidoux B, Galanaud D, Vidailhet M, Cornu Ph. (Paris, France)

**OP028** Bilateral thalamus-subthalamic deep brain stimulation for generalized dystonia as a target option after bilateral pallidotomy
Fonoff ET, Mandell MB, Alencar F, Lara NJ, MJ Teixeira (São Paulo, Brazil)

**OP029** Secondary generalized dystonia treated with pallidal deep brain stimulation
Tomasz Mandat, Bogdan Brodacki, Radoslaw Manowiec, Henryk Koziara, Pawel Nauman, Wieslaw Bonicki (Warsaw, Poland)

**OP030** Significant therapeutic effect of chronic Globus pallidus internus stimulation on dystonic dysphonia accompanying Torticollis
Mehrkens J.H., Joussen K., Bötzel K. (Munich, Germany)
Tuesday, October 7

**Invited Lectures**
Chairmen: **M. Hariz** (London, UK), **J.K. Krauss** (Hannover, Germany)

11,00 Brain machine interfaces
**G.M. Friehs** (Providence, USA)

11,30 Spinal radiosurgery
**F.C. Henderson** (Washington, USA)

12,00 ESSFN Research Grant Report
**J-Ch. Sol** (Toulouse, France)

12,15 General Assembly ESSFN

13,00 Lunch

14,00 Oral Presentations and Oral Posters Session **PAIN I**

Chairmen: **A. Savas** (Ankara, Turkey), **I.G. Panourias** (Athens, Greece)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Prediction of results of motor cortex stimulation in treatment of brachial plexus avulsion pain by transcranial magnetic stimulation
**MJ Teixeira, ET Fonoff, F Macri, H Picarelli, TY Lin, MA Marcolin** (São Paulo, Brazil)

Effects of motor cortex stimulation on thalamic and pag neurons: possible pathways for antinociception
**Fonoff ET, Pagano R, Camargo L, Ballester G, Teixeira MJ** (São Paulo, Brazil)

CyberKnife radiosurgery as a first treatment for idiopathic trigeminal neuralgia
**Marchetti M, Marras C, De Santis M, Milanesi I, Bergantin A, Broggii G, Fariselli L** (Milan, Italy)

Gamma Knife Radiosurgery for secondary/symptomatic trigeminal neuralgia.
M. Longhi, A. Nicolato, F. Lupidi, R. Foroni, G.K. Ricciardi, M. Ganau, A. De Simone, A. Beltramello, M. Gerosa (Verona, Italy)

Stereotactic radiosurgery for drug-resistant idiopathic trigeminal neuralgia
**Jch Sol, Y. Lazorthes, B. Debono, Fl. Loubes, P.Y. Borius, Ja. Loterie, P. Duthil, I. Latorzeff** (Toulouse, France)

Antidromical trigeminal nerve rootlets stimulation for intraoperative monitoring during radiofrequency-thermorhizotomy
**Bendersky Mariana, Kitroser Martín, Landriel Federico, Hem Santiago, Peña Lucila, Muntadas Javier, Carlos Ciraolo** (Buenos Aires, Argentina)

The Long Term Outcome of Microvascular Decompression for Trigeminal Neuralgia
**Sarsam Z, Nurmikko TJ, Eldridge PR, Varma TRK** (Liverpool, UK)

Deep brain stimulation for central post-stroke pain – relating outcomes and stimulation parameters in 21 patients
**Erlick AC Pereira, Liz Moir, Charlotte McIntyre, Alexander L Green, Tipu Z Aziz** (Oxford, UK)
Tuesday, October 7

**Oral Posters (5 minutes presentation, 3 slides)**

**OP032** Refractory pain in patients with thalamic involvement. Results obtained by motor cortex stimulation (MCS)

**OP033** Motor cortex stimulation (MCS) for pain: intraoperative identification of optimal electrode position

**OP034** Motor Cortex Stimulation (MCS) in treatment of central pain syndromes
V.A. Shabalov, E.D. Isagulyan, A.A. Tomskiy (Moscow, Russia)

**OP035** Microsurgical lesion of the trigeminal root entry zone (TREZL) for trigeminal neuralgia (TN) without neurovascular conflict
Andrea Brunori, Natale Russo, Alberto Delitala (Rome, Italy)

16,00 Coffee break - EXHIBIT HALL
POSTERS VIEWING - VERDE ROOM

16,30 Oral Presentations and Oral Posters Session

**MOVEMENT DISORDERS V**

Chairmen: D. Sakas (Athens, Greece), V. Shabalov (Moscow, Russia)

**Oral Presentation (20 minutes: 15 minutes presentation + 5 minutes discussion)**

Neurosurgery in a high-tech era, is there still a place for old tricks and knowledge?
Knut Wester (Bergen, Norway)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

3 tesla MRI localization of subthalamic nucleus: preliminary experience of Verona’s DBS group

Improved identification of DBS targets using 7 Tesla MR imaging
A.L.I. van Hulzen, J.M. Hoogduin, P. Luijten, M.J. Staal (Groningen, Utrecht, the Netherlands)

MRI localization of the pedunculopontine nucleus: defining atlas-based coordinates and anatomical variabilitä

Frameless Stereotactic System (NexFrame TM system) for implantation of Deep Brain Stimulation leads. The Walton Centre experience
Jibril Osman Farah, Patricia Byrne, Francesco Cacciola, TRK Varma, PR Eldridge (Liverpool, UK)

Is STN DBS as effective when performed under controlled general anesthesia? A prospective series of 138 patients with long term follow up
Tatiana Witjas, Jean Philippe Azulay, Marianne Sethian, Christelle Chabot, François Viallet, Jean Claude Péragut, Jean Régis (Marseille, France)

Three-dimensional Microanatomical Details of the Subthalamic Nucleus Based on High-Resolution 3 Tesla MRI
M. Efkan Colpan, Sabri Aydin, Paula Eboli, Konstantin V. Slavin (Chicago, USA)

**Oral Posters (5 minutes presentation, 3 slides)**

**OP036** Voltage steering to control deep brain stimulation-induced speech deficits
OP037 Functional mapping of the human mesencephalic locomotor region based on extracellular recording and microstimulation
S. Chabardès, B. Piallat, L. Goetz, N. Torres, E. Seigneuret, M. Feraye, B. Debu, V. Fraix, P. Krack, P. Pollak, AL. Benabid (Grenoble, France)

OP038 Accuracy of deep brain stimulation electrode placement

OP039 Potential Use of Diffusion Tensor Imaging and Probabilistic Tractography as an Aid to Target planning in Functional Neurosurgery
Sarah L.F Owen, Morten L. Kringelbach, Alexander L. Green, John F. Stein, Tipu Z. Aziz (Oxford, UK)

OP040 Three steps for “fine tuning” the final placement of the Deep Brain Stimulation (DBS) lead in the subthalamic nucleus (STN)
Marios S. Themistocleous, Efstatios J. Boviatsis, Pantelis Stathis, George Tagaris, Lampis Stavrinou, Damianos E. Sakas (Athens, Greece)

OP040 Bipallidal Stimulation Improves Glottal Closure in the Dysphonia of Parkinson’s Disease:
bis Case Report with Videographic Documentation
Taub E, Merlo A, Fuhr P, Storck C (Basel, Switzerland)

18,30 End of Sessions

20,00 Social Dinner
Tuesday, October 7

08,30 Oral Presentations and Oral Posters Session

**NEURONAVIGATION**

Chairmen: **J. Voges** (Köln, Germany), **M. Harat** (Bydgoszcz, Poland)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Evaluation of neuronavigation with integrated fiber tracking of the pyramidal tract
MB Glaser, L Poetini, P Grunert, PR Dellani, C Weibrich, P Stoeter (Mainz, Germany)

Combined electric impedance and optical diffuse reflectance measurements for navigation aid in deep brain surgery
Johannes Johansson, Patric Blomstedt, Neda Haj-Hosseini, A. Tommy Bergenheim, Marwan. I. Hariz, Ola Eriksson, Karin Wårdell (Linköping, Umeå, Sweden; London, UK)

Identification rate of red nuclei in regular MRI screening
Hung-Lin Lin, Yu-Chien Lo, Shang-Ming Chiou (Taichung, Taiwan)

Neuronavigation versus non neuronavigation assistance in treatment of cerebral astrocytomas and metastases – comparison of clinical outcome
Rodrigo Sverzickis, Igors Aksiks (Riga, Latvia)

Virtual reality in the assessment of cortex electrodes placement. Experience on 9 cases

**Oral Posters (5 minutes presentation, 3 slides)**

**OP041** Safety and reliability of frameless streotactic biopsy in supratentorial cerebral lesions. Experience with 42 cases
V.F. Muzii, G. Peri, G. Signori, L. Palma (Siena, Italy)

**OP042** Accuracy of Frameless DBS. The Nexframe/Sealthstation Experience

**OP043** Atlas-based computer-aided volumetric reconstruction to identify targets during procedures of functional neurosurgery and radiosurgery
Fabio Sebastiano, Joseph Stancanello, Pantaleo Romanelli (Pozzilli, IS, Colleterto Giacosa TO, Italy)

**OP044** Navigation of transcranial magnetic stimulation (nTMS) as a new method for pre-operative motor brain mapping and surgical planning: pilot study
Fonoff ET, Paiva W, Cabrera HN, Marcolin MA, Teixeira MJ (São Paulo, Brazil)

**OP045** Image Guidance in Trans-Sphenoidal Surgery of Pituitary Adenomas: Luxury or Necessity?
Deepak Agrawal, MS Sharma, SS Kale, BS Sharma (New Delhi, India)

**OP046** Functional / tractography MRI and Intraoperative mapping. Technique of image-guided navigation of brain tumors in eloquent areas in awake patients
Roldan P, Talamantes F, Gonzalez P, Cortes O, Quilis V, Cortes V, Gonzalez-Darder J (Valencia, Spain)

10,30 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS VIEWING - VERDE ROOM

14,00 Oral Presentations Session

**RADIOSURGERY I**

Chairmen: **S. Blond** (Lille, France), **M. Gerosa** (Verona, Italy)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Fractionated Stereotactic Intensity Modulated Radiotherapy using a serial tomotherapy in the therapeutic concept for skull base tumor
Mario Ammirati, Hekmat Zarzour, John Greca, Venko Filipce (Columbus, USA)
Tuesday, October 7

Repeated treatment of vestibular schwannomas after gamma knife radiosurgery
R. Liscak, V. Vladyka, D. Urgosik, G. Simonova, J. Vymazal (Prague, Czech Republic)

Hearing Preservation after Gamma Knife Radiosurgery for Vestibular Schwannomas presenting
with subnormal hearing
Jean Régis, Manabu Tamura, Yasser Arkha, Shoji Yomo, Xavier Muracchiole, Denis Porcheron, Jean
Marc Thomassin, Pierre Hughes Roche (Marseille, France)

Gamma Knife for sellar region neoplasms: results and complicatone
F. Lupidi, M. Ganau, A. Nicolato, R. Foroni, M. Longhi, G.K. Ricciardi, A. DeSimone, A. Beltramello,
S.Turazzi, M. Gerosa (Verona, Italy)

Combined microsurgery and radiosurgery of pituitary macroadenomas for decompression of the
chiasm
Holl EM, Papaefthymiou G, Dominikus K, Unger F (Graz, Austria)

Use of shielding in Gamma-knife radiosurgery for posterior third ventricle lesions- techniques and
pitfalls
Deepak Agrawal, MS Sharma, SS Kale, BS Sharma (New Delhi, India)

Post-radiosurgical symptomatic radionecrosis: results of surgical treatment
A. Nicolato, M. Ganau, R. Foroni, C. Ghimenton, F. Lupidi, M. Longhi, G.K. Ricciardi, A. De Simone,
A. Talacchi, A. Pasqualin, N. Schiavo, S. Turazzi, M. Gerosa (Verona, Italy)

The importance of Methionin-PET, CT and MRI image fusion 3D target volume determination for
Iodine –125 interstitial irradiation of recurrent A2 gliomas
Arpad Viola, Tibor Major, Zsuzsanna Kolonban, Miron Sramka, Jeno Julo (Budapest, Hungary;
Bratislava, Slovakia)

Stereotactically-guided interstitial radiosurgery with I-125 in children with low-grade gliomas
Guido Nikkhah, Daniela Neuburger, Michael Trippel, Rudolf Korinthenberg (Freiburg, Germany)

16,00 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS VIEWING - VERDE ROOM

16,30 Oral Presentations and Oral Posters Session
RADIOSURGERY II and TUMOURS

Chairmen: R. Liscak (Prague, Czech Republic), J. Regis (Marseille, France)

Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)

Minimized doses with LINAC-Radiosurgery for Brainstem Metastases
Ch. A. Valéry, C. Boskos, G. Boisserie, I. Lamprogliou, JJ Mazeron, Ph. Cornu (Paris, France)

Neuronavigation and endoscopy as technical adjunct in extending approaches for clival and
parasellar lesions
Iacoangeli M, Fasanella L, Dobran M, Di Rienzo A, Formica F, Alvaro L, Moriconi E, Carlucci C,
Ciabattoni A, Scerrati M. (Ancona, Italy)

Parasagittal location as a bad prognosis factor in terms of recurrence and tumoral control for
meningiomas
Villard J., Pica A., Levivier M., Bloch J. (Lausanne, Switzerland)

Cortical and subcortical intraoperative mapping during awake surgery for brain tumours in eloquent
area
V. Ramponi, S. Sarubbo, F. Di Biase, R. Schivalocchi, E. Fainardi, R. Zoppellari, R. Quatrale,
M.A. Cavallo (Ferrara, Italy)

Low-grade gliomas in central area. Coupling of maximal resection and functional preservation
L., Skrap M. (Udine, Genova, Pordenone, Ferrara, Italy)
Minimal-invasive stereotactic treatment of craniopharyngiomas
Guido Nikkhah, Tillman Schubert, Michael Trippel, Christoph Ostertag (Freiburg, Germany)

Management of giant AVMs with Shaped Beam Stereotactic Radiotherapy: a concept and preliminary results
Alessandra Gorgulho, Nzhde Agazaryan, Michael T. Selch, Antonio A.F. DeSalles (Los Angeles, CA, USA)

Oral Posters (5 minutes presentation, 3 slides)

**OP047** Different technique for navigated intraoperative brain stimulation
Galanda M., Bullova J., Galanda T., Kluzova M. (Banska Bystrica, Slovakia)

**OP048** The contribution of stereotactic biopsy in confrontation of paraventricular lesions of thalamous and basal ganglia
T.S. Paleologos, S. Stamatiou, P.G. Papanikolaou, E. Manousakis, E. Papadopoulos, E. Chatzidakis, K. Kazdaglis (Nikea-Piraeus, Greece)

**OP049** Safety and efficacy of frame-based, CT-guided stereotactic biopsy of brain lesions. Experience on a series of 291 procedures
Guiducci G, Cultrera F, Cremonini AM, D’Andrea M, Frattarelli M. (Cesena, Italy)

**OP050** Stereotactic interstitial brachytherapy with 125iodine seeds for recurrent singular cerebral metastases
Ruge MI., Voges J., Lehrke R., Runge M., Treuer H., Sturm V., Maarouf M. (Cologne, Germany)

**OP051** Stereotactic interstitial brachytherapy (IBT) with 125iodine seeds for the treatment of singular metastases located in the basal ganglia or brainstem
Ruge MI., Kocher M., Voges J., Runge M., Treuer H., Sturm V., Maarouf M. (Cologne, Germany)

**OP052** Repeated Gamma Knife surgery for regrowth of vestibular schwannomas
Shoji Yomo, Yasser Arkha, Christine Delsanti, Pierre-Hugue Roche, Jean-Marc Thomassin, Jean Regis (Marseille, France)

**OP053** Combined treatment as an alternative for large vestibularis schwannomas
Holl EM, Gellner V, Kreil W, Grossauer S, Unger F (Graz, Austria)

**OP054** Review of stereotactic radiosurgery for meningiomas. Comparision of the results of LINAC, stereotactic brachytherapy and Gamma knife radiosurgery of meningiomas
Miron Sramka, Arpad Viola, Tibor Major, Zsuzsanna Kolonban, Jeno Julow (Bratislava, Slovakia; Budapest, Hungary)

**OP055** Cerebral arteriovenous malformations in pediatric and adolescent patients treated with Leksell Gamma Knife: the experience of Verona
F Lupidi, A Nicolato, R Foroni, P Zampieri, M Longhi, A De Simone, G Ricciardi, M Ganau, A Pasqualin, C Mazza, A Beltramello, S Turazzi, M Gerosa (Verona, Italy)

**OP056** Corticospinal tractography during Gamma Knife radiosurgery treatment planning for arterio-venous malformations
RF Foroni, GK Ricciardi, F Lupidi, A Sboarina, A De Simone, A Nicolato, M Longhi, F Pizzini, M Ganau, A Beltramello, M Gerosa (Verona, Italy)

**OP057** Brain metastases treatment with fractionated stereotactic radiotherapy
S. Macrì, G. Panelli, P. Pedicini, F. Cammarota, V. Ravo, P. Muto (Naples, Italy)

**OP058** The role of Gamma Knife radiosurgery in the treatment of low-grade gliomas
A Nicolato, F Lupidi, R Foroni, M Longhi, A De Simone, M Ganau, GK Ricciardi, A Beltramello, M Gerosa (Verona, Italy)

**OP059** Radiosurgery intention in pediatric patients
Federico Landriel, Carlos Kitroser, Santiago Hem, Marcelo Rodriguez Chatruc, Elsa Raslawsky, Elisa Singer, Fernando Knezevich, Carlos Ciraolo (Buenos Aires, Argentina)
OP060  Gamma Knife Radiosurgery for brain metastases: the Lille experience
Marcos Dellaretti, Serge Blond, Nicolas Reyns, Gustavo Touzet, Renato Silva Martins, Thierry Sarrazin, François Dubois, Eric Lartigau (Lille, France)

OP061  Delayed cyst formation after radiosurgery for cerebral arteriovenous malformation: seven case reports
Marcos Dellaretti, Serge Blond, Nicolas Reyns, Gustavo Touzet, Renato Silva Martins, Thierry Sarrazin, François Dubois, Eric Lartigau (Lille, France)

19,00 End of Sessions
Tuesday, October 7

14,00 Oral Presentations and Oral Posters Session

**MOVEMENT DISORDERS IV**

**Chairmen:** M. Hariz (London, UK), S. Chabardès (Grenoble, France)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

MRI abnormalities in post-anoxic patients evaluated for GPI DBS
Francesco Vergani, Nathalie Burger, Laura Cif, Xavier Vasques, Hassan El Fertit, Santiago Gil-Robles, Philippe Coubes (Montpellier, France; Monza MI, Italy)

Deep brain stimulation of the globus pallidus internus in children and young adults for early-onset dystonia
Pinsker MO, Volkmann J, Falk D, Herzog J, Deuschl G, Mehdorn HM Campus Kiel, Freiburg, Germany)

Treatment of primary camptocormia (dystonic bent spine) by chronic electrical stimulation of the globus pallidus internus (GPI): report of two cases
L.C. Stavrinou, E.J. Boviatsis, M. Themistocleous, P. Stathis, G. Tagaris, S. Gatzonis, IG Panourias, DE Sakas (Athens, Greece)

Bilateral internal globus pallidus Deep brain stimulation for Huntington disease
Victoria Gonzalez, Laura Cif, Brigitte Biolsi, Igor Maldonado, Eric Pino, Gregory Dran, Santiago Gil-Robles, Xavier Vasques, Philippe Coubes (Montpellier, France)

Tourette Syndrome and deep brain stimulation: considerations on a series of 32 patients treated with DBS
M. Porta, M. Sassi, A. Brambilla, S. Defendi, D. Servello (Milan, Italy)

Sacral Nerve Stimulation for urinary and fecal incontinence
Lavano A, De Rose M, Guzzi G, Giaquinta A, Romano M, Gabriele D (Catanzaro, Italy)

**Oral Posters (5 minutes presentation, 3 slides)**

**OP062** PPN Stimulation for Dopa-Unresponsive Hypokinetic Distonia
J Rowe, C Isaac, ID Wilkinson, CAJ Romanowski, A Khan and TZ Aziz (Sheffield, Oxford, UK)

**OP063** Chronic bilateral pallidal stimulation in patients with generalized dystonia - personal experience
Micha Sobstyl, Mirosław Zbek, Henryk Koziara, Sebastian Dzierzcki, Zbigniew Mossakowski (Warsaw, Poland)

**OP064** Prognostic value of Globus Pallidus internus volume in primary dystonia treated by deep brain stimulation
Xavier Vasques, Laura Cif, Victoria Gonzalez, Eric Pino, Igor Maldonado, Gerard Mennessier, Philippe Coubes (Montpellier, France)

**OP065** Pallidal deep brain stimulation as an effective treatment of belly dancer’s dyskinesia
Schrader C, Capelle H.-H, Kinfe TM, Dengler R, Krauss JK (Hannover, Hannover)

**OP066** Bifocal brain stimulation for treatment of hemichorea / hemiballism after craniopharyngeoma resection
Capelle HH, Kinfe T, Krauss JK (Hannover, Germany)

**OP067** DBS surgery related complications. A prospective analysis of 60 patients
Z. Kefalopoulou, E. Markaki, K. Stavridi, J. Ellul, E. Chroni, C. Constantoyannis (Patras, Greece)

**OP068** Deep Brain Stimulation for other movement disorders
J Guridi, MC Rodriguez-Oroz, P Clavero, K Kadziolka, M Alegre, M Manrique, JA Obeso (Pamplona Spain)

16,00 Coffee break (EXHIBIT HALL and VERANDA RESTAURANT)

POSTERS VIEWING - VERDE ROOM
16.30 Oral Presentations and Oral Posters Session

**BASIC SCIENCES**

Chairmen: **J.J. Lemaire** (Clermont-Ferrand, France), **K. Schwabe** (Hannover, Germany)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

- Neural basis of verbal subsequent memory effect
  - G Mirabella, C Babiloni, F Vecchio, M Buttiglione, F Sebastian, A Picardi, G Di Gennaro, PP Quarato, LG Grammaldo, P Buffo, V Esposito, M Manfredi, G Cantore, F Eusebi (Rome, Pozzilli IS, Foggia, Bari, Italy)

- MRI guided stereotaxic surgery in minipigs

- Effect of Stereotactic Lesion of Reticular Thalamic Nucleus in a Perseverative T-Maze model in Wistar rats
  - Fiacro Jiménez, Pablo Andrade, Ylián Ramírez, José D. Carrillo-Ruiz (México City, Mexico)

- Cholinergic neurons of the pedonculopontine nucleus are implicated in gait disorders: New evidences in a primate model
  - C Karachi, H Belaid, H Mammeri, D Grabli, D Tandé, N Wattiez, EC Hirsch, C Francois (Paris, France)

- Hypothalamic deep brain stimulation for obesity in the non obese non human primate
  - Napoleon Torres, Stephan Chabardès, Brigitte Piallat, Annaëlle Devergnas, Alim Louis Benabid (Grenoble, France)

Oral Posters (5 minutes presentation, 3 slides)

- **OP069** Error analysis of the localization frame for CT-based stereotactic calculation
  - P. Grunert (Mainz, Germany)

- **OP070** Definition of a stereotactic 2D template of the human insula
  - A. Afif, D. Hoffmann, M. Magnin, P. Mertens (Lyon, Grenoble, Bron, France)

- **OP071** Planar 2D-array neural probe for deep brain stimulation and single-cell recording: in vivo proof of concept
  - Marleen Welkenhuysen, Silke Musa, Roeland Huys, Wolfgang Eberle, Carmen Bartic, Gustaaf Borghs, Bart Nuttin (Leuven, Belgium)

- **OP072** Increased electrical and metabolic activity in the dorsal raphe nucleus of Parkinsonian rats
  - Ahmet H. Kaya, Rinske Vlamings, Sonny Tan, Lee Wei Lim, Peter J. Magill, Harry W.M. Steinbusch, Veerle Visser-Vandewalle, Trevor Sharp, Yasin Temel (Samsun, Turkey, Maastricht, The Netherlands, Oxford, United Kingdom)

- **OP073** Effect of deep brain stimulation in the pedunculopontine tegmental nucleus on motor function in the rat 6-hydroxydopamine Parkinson model
  - Rauch F, Schwabe K, Krauss JK (Hannover, Germany)

- **OP074** High frequency stimulation of the subthalamic nucleus influences 5-HT related behaviours
  - S.K.H. Tan, V. Visser-Vandewalle, H.W.M. Steinbusch, Y. Temel (Maastricht, the Netherlands)
18,00 Oral Presentations and Oral Poster Session

PAIN II

Chairmen: M. Meglio (Rome, Italy), Y. Lazorthes (Toulouse, France)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Spinal Cord Stimulation versus Conventional Medical Management for Failed Back Surgery Syndrome: Long-Term Results from the PROCESS Study
Meglio M, Cioni B, Sabene S (Rome, Italy)

Clinical outcomes after gamma knife radiosurgery for idiopathic trigeminal neuralgia: revision about a first series of 75 patients
Marcos Dellaretti, Serge Blond, Nicolas Reyns, Gustavo Touzet, Renato Silva Martins, Thierry Sarrazin, François Dubois, Eric Lartigau (Lille, France)

Motor cortex stimulation- induced modulation of central beta rhythms and somatosensory evoked potentials. A correlate with its antalgic effect
Reyns N., Houdayer E., Bourriez JL., Duhamel A., Laureau E., Blond S., Derambure P. (Lille, France)

**Oral Poster (5 minutes presentation, 3 slides)**

OP075 A neural signature of human pain

18,45 End of Sessions
08,30  Oral Presentations and Oral Posters Session  
**PSYCHIATRIC DISORDERS**

Chairmen: B. Nuttin (Leuven, Belgium), A.M. Lozano (Toronto, Canada)

**Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)**

Neuromodulation using Deep Brain Stimulation in Psychiatric Disorders
Doris Lenartz, Mohammad Maarouf, Athanasios Koulousakis, Wolfgang Huff, Jens Kuhn, Joachim Klosterkötter, Thomas Schläpfer, Volker Sturm (Cologne, Germany)

Targeting the human Nucleus Accumbens
Lucas-Neto Lia, Oliveira Edson, Correia Francisc, Gonçalves-Ferreira António (Lisbona, Portugal)

Deep brain stimulation for obsessive compulsive disorder
P.R. Schuurman, D.J.A.P. Denys, P. van den Munckhof, D.A. Bosch (Amsterdam, the Netherlands)

Deep Brain Stimulation for Major Depressive Disorder (Resistant to > 4 Treatments): Preliminary Results of a Multi-Centre Study
Abbas Sadikot, Helen S. Mayberg, Andres M. Lozano, Sidney H. Kennedy, Peter Giacobbe, Clement Hamani, Guy Debonnel, Theodore Kolivakis, Christopher R. Honey, Raymond W. Lam, Andrew Howard (Montreal, Canada; Atlanta, USA; Toronto, Canada; Vancouver, Canada)

Study in patients with obsessive compulsive disorder treated with electrical stimulation in inferior thalamic peduncle
Fiacro Jiménez-Ponce, Francisco Velasco-Campos, Guillermo Castro-Farfán, Humberto Nicolini, Ana Luisa Velasco, Rafael Salín-Pascual, David Trejo, José Luis Criales (Mexico DF, MEXICO)

Deficient sensorimotor gating induced by selective breeding in rats is restored by lesions of the entopeduncular nucleus
Schwabe K, Polikashvili N, Krauss JK (Hannover, Germany)

The continuing role of capsulotomy in the treatment of obsessive-compulsive disorder; a psychiatrist’s perspective
James Hancey, Patric Blomstedt, Ludvic Zrinzo, Marwan Hariz (Portland, Oregon USA; Umeå, Sweden; London, UK)

Vagal nerve stimulation in Treatment-resistant Depression: a series of 14 cases
Giuseppe Messina, Angelo Franzini, Mario Savino, Orso Bugiani, Carlo Marras, Giovanni Broggi (Milan, Pisa, Italy)

**Oral Posters (5 minutes presentation, 3 slides)**

**OP076** Deep brain stimulation of the nucleus accumbens core and shell: opposite effects on impulsive behaviour
Thibaut Sesia, Lee Wei Lim, Arjan Blokland, Harry W.M. Steinbusch, Veerle Visser-Vandewalle, Yasin Temel (Maastricht, the Netherlands)

**OP077** Deep brain stimulation for affective disorders: As easy as it seems?
Juan A. Barcia, Tomás Ortiz, Rosa Yáñez, Mercedes González-Hidalgo, María-Inés López-Ibor, Juan José López-Ibor (Madrid, Spain)

**OP078** DBS for Intermittent Explosive Disorder
Donald E Richardson, Kevin Jackson, Lisette Constantine, Mirium Gallagher (New Orleans, Louisiana USA)

**OP079** High-frequency stimulation of the dorsolateral periaqueductal gray and ventromedial hypothalamus fails to inhibit panic-like behaviour
Lee Wei Lim, Arjan Blokland, Veerle Visser-Vandewalle, Rinske Vlamings, Thibaut Sesia, Harry Steinbusch, Koen Schruers, Eric Griez, Yasin Temel (Maastricht, The Netherlands)
**Wednesday, October 8**

**OP080** Cingulotomy for refractory obsessive-compulsive disorder. Over one-year follow-up of seven patients  
*Marcin Birski, Marek Harat, Marcin Rudas, Alina Borkowska, Janusz Rybakowski (Bydgoszcz, Poland)*

10,30 **Goodbye break** (EXHIBIT HALL and VERANDA RESTAURANT)

### Plenary Session III

**Invited Lectures**

Chairmen: **B. Nuttin** (Leuven, Belgium), **G. Broggi** (Milan, Italy)

11,00 Magnet encephalography and neurosurgery  
*J.P.T. Mäkelä* (Helsinki, Finland)

11,30 Functional surgery for mind and mood  
*A.M. Lozano* (Toronto, Canada)

12,00 Award to best posters and oral presentations

12,30 **Closing Ceremony of the XVIII ESSFN Meeting**

*Massimo Scerrati*, Meeting Chairman  
*Yves Lazorthes*, ESSFN President
Wednesday, October 8

08,30 Oral Presentations and Oral Posters Session

PAIN III

Chairmen: A. Lavano (Catanzaro, Italy), B. Linderoth (Stockholm, Sweden)

Oral Presentations (12 minutes: 10 minutes presentation + 2 minutes discussion)

Hybrid Neuromodulation Technique: Use of Combined Spinal Cord Stimulation and Peripheral Nerve Stimulation in Treatment of Chronic Pain in Back and Legs
Eugene G. Lipov, Jay R. Joshi, Konstantin V. Slavin (Chicago, Illinois, USA)

Intrathecal use of ziconotide in chronic neuropathic pain patients – clinical experience of a single neurosurgical pain center
Rasche D, Klase D, Ruppolt MA, Tronnier VM (Lübeck, Germany)

Intrathecal clonidine and baclofen produce an enhancement of pain relieving effect by spinal cord stimulation: a double-blind study
Gastón Schechtman, Göran Lind, Jaleh Winter, Björn A. Meyerson and Bengt Linderoth (Stockholm, Sweden)

Guide-lines to treat severe occipital neuralgias
Sylvie Raoul, Andra Albert, Emmanuelle Kuhn, Yunsan Meas, Jean Paul N’Guyen (Nantes, France)

The sphenopalatine ganglion – target for selected pain syndromes
D. Urgosik, R. Liscak, J. Vymazal, V. Vladyka (Prague, Czech Republic)

Oral Posters (5 minutes presentation, 3 slides)

OP081 Spinal cord stimulation in refractory angina pectoris - analysis of efficacy and cost-benefit
Pawel Sokal, Marek Harat, Teresa Rusicka-Piekcarz, Aleksandra Cuprych (Bydgoszcz, Poland)

OP082 PRECISE STUDY: Cost-utility and Cost-effectiveness of SCS in FBSS compared to Conventional Medical Management

OP083 Spinal cord and sacral root stimulation in the treatment of pelvic pain
Pawel Sokal, Marek Harat (Bydgoszcz, Poland)

OP084 Effects of spinal cord stimulation in patients with failed back surgery syndrome evaluated with quantitative sensory nerve testing
Tronnier VM, Klase D, Ruppolt MA, Rasche D (Lübeck, Germany)

OP085 The spinal cord stimulation in the failed neck syndrome
Alessandro Dario, Alessandro De Benedictis, Giustino Tomei (Varese, Italy)

OP086 Peripheral nerve stimulation in neuropathic pain
Alessandro Dario, Claudio Reverberi, Giustino Tomei (Varese, Cremona, Italy)

OP087 The failed back surgery syndrome: spinal cord stimulation or stabilization with fusion?

OP088 Clinical efficacy of intrathecal baclofen for complex regional pain syndrome
Takeshi Nakajima, Takaomi Taira, Taku Ochiai, Hiroyuki Akagawa, Toshiyuki Sasaki, Tomokatsu Hori (Tokyo, Japan)

OP089 Clinical correlations and results in chronic management of implantable pumps for pain treatment: review of personal experience
N. Stefani, G. Rea, D. Mangeruga, P.V. Nardi (Rome, Italy)

OP090 Preemptive Analgesia with Local Lidoaine Infiltration for Single-Level Open Disc Operation
Fakharian Esmail, Fazel Mohammad-Reza, Tabesh Homayoon (Kashan, Iran)

OP091 Treatment of the Neuropathic Pain After Spinal Cord Injury in 213 Patients
Fonoff ET, Paiva W, Cecon A, Salles M, Teixeira MJ. (São Paulo, Brazil)

OP092 Percutaneous videoendoscopic guidance for radiofrequency anterolateral cordotomy in treatment-resistant pain related to cancer
Fonoff ET, Alho ELJ, Padilha P, Teixeira MJ (São Paulo, Brazil)

10,30 Goodbye break (EXHIBIT HALL and VERANDA RESTAURANT)
POSTERS

P93 Fiducials: Achilles heel of image guided neurosurgery - An attempt at indigenization & improvement
Deepak Agrawal (New Delhi, India)

P94 Selection of PD patients for DBS: efficacy of MIBG.
Allimonti D, Donati R, Polani M, Biroli F, Guerra U (Bergamo, Italy)

P95 Efficacy of globus pallidus stimulation in treatment of Parkinson's disease: a meta-analysis
Pablo Andrade, Fiacro Jiménez, José D. Carrillo-Ruiz (Mexico City, Mexico)

P96 Sympathicotomy affects cutaneous blood flow, temperature, and sympathicus-mediated reflexes
Patric Blomstedt, Doris Kjellgren, Lars-Owe D. Koskinen (Umeå, Sweden)

P97 Higher-order functions: Brain mapping during tumor surgery in awake patients

P98 Is still necessary Stereotactic Biopsy in supratentorial gliomas in MRI era?
G. Callovini, A. Bolognini, V. Gammone, G. Putrella (Rome, Italy)

P99 Thalamic deep brain stimulation in patients with tremor due to multiple sclerosis: outcome analysis in a series of 11 patients
Capelle HH, Schrader C, Dengler R and Krauss JK (Hannover, Germany)

P100 Intrathecaly Administered Baclofen for Treatment of Children with Spasticity.
S. Cappanera, L. Porfiri, E. Cesaroni, M. Aringolo, F. Ryhlicki, R. Trignani, C. Cardinali (Ancona, Italy)

P101 Delayed occipital artery pseudoaneurysm complicating DBS surgery for Parkinson’s Disease
Anna Castrioto, Nunzia Cenci, Nicola Tambasco, Mohamed Hamam, Aroldo Rossi, Corrado Castrioto (Perugia, Italy)

P102 Surgical removal of corpus callosum neurocytoma in awake surgery with intraoperative subcortical mapping. Case report
S. Sarubbo, V. Ramponi, F. Di Blase, R. Schivalocchi, R. Zoppellari, R. Quattrale, E. Fainadi, M.A. Cavallo (Ferrara, Italy)

P103 Motor cortex stimulation (MCS) for advanced Parkinson disease (PD): long term results

P104 Can cardio sympathetic and cardio vagal indices predict the efficacy of vagal nerve stimulation in depression? A pilot study
Colloca L, Maina G, Albert U, Bogetto F, Ducati A, Benedetti F, Lanotte M (Turin, Italy)

P105 Percutaneous balloon compression of the trigeminal ganglion for different types of trigeminal pain
Z. Kefalopoulou, E. Markaki, G. Kagadis, C. Constantoyannis (Patras, Greece)

P106 Masseter muscle weakness after percutaneous balloon compression
I. Prasoulis, G. Kagadis, P. Polychronopoulos, E. Chroni, C. Constantoyannis (Patras, Greece)

C. Conti, G. Rizzo, M. Brollo, R. Eleopra, F. Guida, G. Trincia (Mestre, VE, Italy)

P108 Hypofractionated CyberKnife Irradiation for Large Acoustic Neuromas. Preliminary Results

P109 Functional Target in DBS for movement disorders. Our experience on 35 patients
C. Conti, G. Rizzo, M. Pellizzari, R. Eleopra, C. Lettiera, G. Trincia (Mestre, VE, Italy)

P110 3D Rotational Angiography for CyberKnife Treatment Planning for ArterioVenous Malformations

P111 CyberKnife radiosurgery in critical areas brain metastases: a preliminary report.
A. Pontoriero, A. Conti, A. Salatino, A. Calisto, P. Frosina, A. Platania, F. Midilli, I. Ielo, F. Granata, M. Longo, C. De Renzis, F. Tomasello (Messina, Italy)

P112 CyberKnife radiosurgery in the treatment and re-treatment of spinal metastasis: a preliminary report
A. Pontoriero, A. Conti, P. Frosina, C. Siragusa, A. Salatino, R. Spagna, I. Salomone, F. Vitulo, I. Pandolfo, C. De Renzis (Messina, Italy)

P113 End of service in vagus nerve stimulation for treatment-resistant depression. Case report
Alessandro Dario, Cesare Zoia, Giusto Tomei (Varese, Italy)
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P136 Cortical VEPs recorded after optic tract direct stimulation during Gpi-DBS in non-cooperative patients
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P137 Intraoperative recording of scalp and cortical EEG during perinsular hemispherotomy
E. Pralong, C. Pollo, J.G. Villemure, M. Levivier, D. Debatisse (Lausanne, Switzerland)

P138 EEG recording during endoscopic disconnection of hypothalamic hamartoma associated with intractable epilepsy
E. Pralong, B. Rillet, C. Pollo, O. Delalande, M. Levivier and D. Debatisse (Lausanne, Switzerland)

P139 Tumor resection with fiber-optic fluorescence spectroscopy system, ultrasound based neuronavigation and peroperative CT-scan
Johan Richter, Neda Haj-Hosseini, Karin Wårdell (Linköping, Lund, Sweden)

P140 Localisation of electrodes in Vim-DBS for essential tremor
Urika Sandvik, Patric Blomstedt (Umeå, Sweden)

P141 A semiautomatic procedure for sequential neuroimage-fusion to localize subdural and depth electrodes in presurgical evaluation of patients with drug-resistant focal epilepsy
Fabio Sebastiano, Pier Paolo Quarato, Antonio Sparano, Addolorata Mascia, Claudio Colonnese, Pantaleo Romanellia, Vincenzo Esposito, Gianpaolo Cantore, Giancarlo Di Gennaro (Pozzilli IS, Rome, Perugia, Italy)

P142 Epidural motor cortex stimulation (EMCS) improves motor symptoms in advanced Parkinson’s disease (PD)
Pantaleo Romanellia, Francesco Lena, Fabio Sebastiano, Nicola ModugnoJoseph (Pozzilli IS, Rome, Italy)

P143 Image guided stereotactic biopsy of a metachronous brain stem glioma in the awake sitting position in a patient with adenocarcinoma of the rectum
Manish S Sharma, Bhawani S Sharma (New Delhi, India)

P144 Prospective Study for Determination of Validity of Oregon Facial Pain Questionnaire for Diagnosis of Trigeminal Neuralgia and Other Facial Pain Syndromes
Paula Eboli, Sabri Aydin, M. Efkan Colpan, Konstantin V. Slavin (Chicago, USA)

P145 InnoguideTM - A new device for stereotactic brain biopsy under real-time MR-imaging
Uwe Spetzeger, Gerd Winkler, Thomas Remmele (Karlsruhe, Herxheim, Germany)

P146 Persistent vegetative status and long term follow-up in baclofen implantable pumps: a study with clinical correlations
Stefani N., Grossi G., Nardi P.V. (Rome, Italy)

P150 Deep Brain Stimulation of the Subthalamic nucleus. Two-years follow-up study.
A.A. Tomskiy, V.A. Shabalov, E.V. Brii, S.B. Bukina, A.V. Dekopov, N.V. Fedorova (Moscow, Russia)

P151 Assessment of cerebrospinal fluid leakage related electrode displacement in deep brain stimulation surgery
P. van den Munckhof, M.F. Contarino, L.J. Bour, R.M. de Bie, P.R. Schuurman (Amsterdam, the Netherlands)

P152 Stereotactic biopsy for intracranial tumors using dynamic-contrast enhanced CT SCAN.
F. Vergani, E. Pirola, M. Grimaldi, D. Pirillo, G. Isimbaldi, A. Landi, EP. Sganzerla (Monza, Italy)

P153 Deep Brain Stimulation of the posteromedial hypothalamus for impulsive aggression
Jairo Espinosa, Gabriel J. Arango (Bogota,– Colombia)

P154 Management of Dystonia with Deep Brain Stimulation: Factors associated with good outcome in a prospective study of 32 cases
Jairo Espinosa, Gabriel J. Arango (Bogota,– Colombia)

P155 Deep Brain Stimulation of the subthalamus and posteroverentral globus pallidus internus for Holmes ‘tremor
Jairo Espinosa, Gabriel J. Arango (Bogota,– Colombia)

P156 Deep Brain Stimulation (DBS) for Tardive Syndromes
Chrysalina Antoniades, Roger Carpenter, Roger Barker, Philip Buttery, Colin Watts (Cambridge, UK)

P157 Deep Brain Stimulation of the posteromedial hypothalamus for impulsive aggression
Jairo Espinosa, Gabriel J. Arango (Bogota,– Colombia)
### Timetable

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<td>18.00</td>
<td>SYMPOSIUM DBS: THE PAST, THE PRESENT AND THE FUTURE</td>
<td>SYMPOSIUM VAGAL STIMULATION FOR EPILEPSY AND DEPRESSION</td>
<td>SYMPOSIUM CONTROVERSIES IN RADIOSURGERY</td>
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**Monday October 6**

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<td>13.00</td>
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<td>NEUROTRANSPLANTATION</td>
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<td>CLUSTER HEADACHE</td>
<td>EPILEPSY I</td>
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**Tuesday October 7**

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**Language**
The official language of the Congress is English.

**CME - Continual Medical Education ONLY FOR ITALIAN PARTICIPANTS**
16 credits were obtained from the Italian Ministry of Health - Neurosurgery, Neurology and Psychiatry.

**ESSFN General Assembly**
The General Assembly of ESSFN Members will take place on Tuesday October 7 at 12,15 in Plenary Room.

**Oral presentations**
Time: 12-minutes: (10 minutes presentation + 2 minutes discussion)
Cluster Headache session: Time: 15-minutes: (12 minutes presentation + 3 minutes discussion) slides in POWER POINT file

**Oral Posters**
Time: 5-minute platform presentations
n. 3 slides in POWER POINT file

**Posters**
Size: cm. 70x100 (width x height).

Set up and take off by the Authors themselves
**OP01 – OP80** Set up Sunday October 5 from 12,30 to 14,00, take off Monday, October 6 until 18,00 pm
**OP81 – OP92 and P93 - P158** Set up Tuesday, October 7 from 8,00 to 10,00, take off Wednesday October 8 until 12,00.
The poster will be given a number and should be hung in the position labelled in the same number as in the final program.

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All presenting authors have to register to the Congress. Authors of accepted papers must be prepared to pay all personal expenses incurred including meeting registration, travel and accommodation during the Meeting.

**Audiovisual Equipment**
PC projection (only POWER POINT file on CD or on a memory stick, USB port or DVD, it is not possible to use Macintosh computer) will be provided in the Meeting rooms. Speakers are kindly requested to contact the Slide Center to upload their presentation(s) and to test all the audiovisual material at least one hour before the lecture. Since there will be a laptop computer available in each room, the use of personal laptops will not be allowed. The presentations will be forwarded through Local Area Network (LAN) directly to the appropriate room.

**Awards**
The ESSFN has created awards to recognize the efforts for participating to its Congress through Posters and Oral Presentations.
There are a total of 5 awards.

**Posters awards**
The authors of the best 3 posters, as determined by a jury composed of ESSFN members, will be granted 500,00 Euros (each poster) There is no need to postulate for these awards.

**Young neurosurgeon oral presentations**
The best 2 oral presentations by a young neurosurgeon (under 35 years old) will be awarded 1,000,00 Euros (each presentation). The presentation must correspond to original work. The selection will be made by a jury composed of ESSFN members. The candidate to this award must postulate and send its curriculum vitae with the abstract of the presentation.

**Certificate of attendance**
At the end of the Conference, a certificate of attendance will be issued to all registered participants, based on their actual attendance to conference sessions and only by personal badge presentation.

**Variations**
The Scientific and the Organizing Secretariats reserve the right to make whatever change to the program they deem necessary for scientific and/or technical reasons, in compliance with Ministry regulations on CME credits.
ABOUT RIMINI

BETWEEN ART AND HISTORY

Rimini dates back to the era of ancient Rome. Founded in 268 B.C., it was originally called Ariminum and rose at the crossroads of the principal communication routes. Located in a strategic position with a well-defended port, the city soon became an important commercial centre. Under the rule of Augustus, it became a Roman colony and reached its greatest splendour with the building of great public works, many of which are still standing. Centuries later, another important epoch left its historic and artistic mark on the region: the rule of the Malatesta family. The 14th and 15th centuries were a thriving artistic period and an era of great wealth. Imposing castles, citadels, and fortresses, indicative of this epoch, are still scattered about the region.

A journey in search of the traces and signs left by the region’s cultural and artistic history is sure to be stimulating and extremely interesting. Just take a walk through the streets of Rimini or, perhaps, wander through the Conca and the Marecchia valleys and immerse yourself in the charms of the inland, which is rich in history, ancient villages, castles, fortresses, parish churches and monasteries... and, naturally, works of art.

THE SEASIDE

Fellini Park, situated just next to the Grand Hotel, is the very heart of Rimini seaside. This is where the first bathing establishment was set up in 1843, commissioned by the Baldini Counts and Dr. Claudio Tintori. This health-conscious vocation developed thanks to the well known professors Paolo Mantegazza and Augusto Murri and in 1872, a new bathing establishment was built named Kursaal (it was destroyed in 1948). The layout of the city began to change with the construction of a new road, now called Viale Principe Amedeo, to connect the old city centre to the marina.

The twentieth century saw a move to a more elite tourism and 1908 was a particularly symbolic date as it marked the opening of the Grand Hotel, a strong source of inspiration for Fellini. Before becoming the European holiday capital, over the years Rimini was an extremely important port. Nowadays, the port’s ‘pile trestle’ is the most popular place for Riminese to take a walk. It evokes pleasant memories and is the kingdom of sailors and fishermen, watched over by the lighthouse and ploughed by the ‘poveracciaie’ (boats equipped for clam fishing). From dawn to dusk, throughout the day the port gives visitors the sensation of diving into the sea and affords spectacular panoramic views dotted by the thousands of colours of the bathing establishments that have made our beach famous throughout the world.

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Event</th>
<th>Early/ Late</th>
<th>ESSFN Member</th>
<th>ESSFN non Member</th>
<th>Resident/Trainee*</th>
<th>Social Dinner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tour to Ravenna</td>
<td>before June, 30th</td>
<td>€ 450,00</td>
<td>€ 600,00</td>
<td>€ 200,00</td>
<td>€ 80,00</td>
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<td></td>
<td>after June, 30th</td>
<td>€ 550,00</td>
<td>€ 700,00</td>
<td>€ 200,00</td>
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The registration package includes:
- Admission to all the Scientific Sessions
- Abstract book
- Coffee breaks and lunches
- Welcome Reception on October, 5th 2008
- Accompanying Person/s are invited to join the Welcome Cocktail (free of charge).

Cancellation policy
No refunds for cancellations of registrations will be made.
Substitutions can be made in writing at any time.

Privacy
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SOCIAL PROGRAMME

Welcome Reception
with Danilo Rea, one of the major Italian pianists.

**Sunday October 5, 2008 – h. 19,00 at the Conference Venue**
(included in the Registration fee)

Danilo Rea, is widely considered one of the major Italian jazz pianists. Graduate of Santa Cecilia music conservatory in Rome, he made his debut in 1975 when he joined the musicians Roberto Gatto and Enzo Pietropaoli forming the Rome Trio. In 1989 he took part as a solo artist in “Requiem for Pierpaolo Pasolini” by Roberto De Simone at the Teatro San Carlo in Napoli and recorded in the same year with Roberto Gatto the album “Improvisi”. In 1997 he formed with Enzo Pietropaoli and Fabrizio Sferra the Doctor 3, a jazz trio that successfully trod the boards for more than a decade. Their album “The Tales of Doctor Trio” was awarded as the best Italian jazz record in 1998 and again the following work “The Songs Remain the Same” was awarded in 1999. In Italy, he is widely sought after in pop music as well, having performed also with Italian pop singers Domenico Modugno, Pino Daniele, Gianni Morandi, Riccardo Cocciante, Claudio Baglioni, and Adriano Celentano. Starting from 1989, all of Mina’s records have included Danilo Rea’s backing keyboards. He has also toured internationally, performing with some of the most famous jazz musicians, such as Chet Baker, Lee Konitz, Steve Grossman, Phil Woods, Art Farmer, Curtis Fuller and Kenny Wheeler. His improvisations, which range over any repertoire, are appreciated in all his concerts, tours and most important jazz festivals.

Social Dinner of Tuesday October 7, 2008 € 80,00

Palazzo del Poggiano – Via Collina 1331
47824 Poggio Berni – Rimini – Italia

Meeting point at the Congress venue h. 7,30 p.m., transfer by bus
Live music with the group Waterfall.

If you have made your reservation for the social dinner before the established deadline you can collect your invitation at the Registrations desk no later than Monday, October 6.

TOURS

**City of RAVENNA: Monday, October 6th**

Duration: 8 hours by bus 8.30am - 4.30pm
Price per person: € 95,00
Meeting point at the Congress venue h. 8.15 a.m., transfer by bus

Departure from Rimini by bus to Ravenna for a full-day guided tour which will enable you to fully appreciate the splendours of the art and history: the visit will include the Mausoleum of Galla Placidia, the Orthodox Baptistry (5th century) the Archiepiscopal Museum housing the renowned 6th century ivory throne, the Gothic Basilica of Sant’Apollinare Nuovo and the Arian Baptistry (early 6th century), the two splendid Byzantine churches of San Vitale and Sant’Apollinare in Classe (6th century).

If you take a pedestrian area you will have a chance to step into a mosaic workshop, have a pause for coffee in the main square and visit the Tomb of Dante Alighieri, Italy’s most distinguished poet, who died here in 1321.

Lunch in a typical “osteria”.
In the Afternoon free time for shopping or individual visits. And short trip to S. Apollinare in Classe, just 4 km. away. Return to Rimini in the afternoon.

**Castle of SAN LEO and GRADARA: Tuesday, October 7th**

Duration: 8 hours by bus 9 am - 4 pm
Price per person: € 90,00
Meeting point at the Congress venue h. 8.45 a.m., transfer by bus

Departure from Rimini by bus to San Leo e Gradara for a full-day guided tour.

Gradara is situated at 142 metres above sea level, with the Republic of San Marino, Rimini and Carpegna in the background. Gradara represents an extraordinary urban and architectural combination. Legend has it that the castle was the scene of the famous and tragic love story of Paolo and Francesca, caught in each other’s arms and killed by Gianciotto, Francesca’s husband. This love story was immortalized by Dante in his Divine Comedy. Lunch will be organise in a typical Agriturismo with local dishes. The fort of San Leo, praised by Machiavelli, is one of the most impressive and inaccessible throughout Italy: was built in the manner in which we see today by Francesco di Giorgio Martini (fifteenth century), the architect of Montefeltro. Right here in 1789, in the dark prison derived from a more ancient fortress, was imprisoned until the death of Count Cagliostro, a great adventurer and mysterious alchemist, condemned by the Holy Inquisition. Return to Rimini in the afternoon.
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