

2nd International Meeting UPDATES IN NEURO-ONCOLOGY

Under the Auspices of



Brain Tumor Satellite Symposium of
56^o Congresso Nazionale SINCh
Joint Meeting with the CNS

Cortona (AR)– Italy – June 28/30, 2007

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the third longest etruscan
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Liber Linteus of Zagreb and
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2nd century B.C.
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Etruscan Chandelier

a specimen of the finest
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ISTITUTO DI RICOVERO E CURA A CARATTERE SCIENTIFICO
DI NATURA PUBBLICA



Columbus, Ohio, USA

2nd International Meeting UPDATES IN NEURO-ONCOLOGY

Brain Tumor Satellite Symposium

Cortona (AR) - Italy - June 28•30, 2007

Under the Auspices of



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Baltimore – MD, USA

Fumio Yamaguchi

Tokio, Japan

11,30 Opening Remarks
Alessandro Olivi, Francesco Di Meco

Pathology

Discussant: Tarik Tihan
Moderators: Alessandro Olivi, Bianca Pollo

11,35 **Special Lecture:** Peter C. Burger
2007 WHO Classifications of CNS Tumors

12,00 Gregory Riggins
The mutational basis of glioblastoma formation: How much of the story do we know?

12,15 Felice Giangaspero
High grade gliomas in pediatric age

12,30 Discussant: Tarik Tihan

12,45 Q&A

13,00 Lunch

Cancer Stem cells-symposium

Moderators: Linda Liau, Alessandro Ducati

14,00 Dennis A. Steindler

14,20 Angelo Luigi Vescovi

14,40 Günther Schütz

15,00 Alfredo Quinones-Hinojosa

15,20 Q&A

15,40 **Open abstract Session I/part 1 – 5 minutes for presentation**

16,40 Moderators: Marica Eoli, Tarik Tihan

02 Correlation between ANT2 expression level and cell proliferation in human glioma cells: Study design and preliminary results
R. Amoroso¹, L. Benvenuti¹, R. Gagliardi¹, A. Lena², M. Bechici², A. Salvetti², L. Rossi², C. Ghezzi², V. Gremigni² (¹Livorno, ²Pisa – Italy)

03 Isolation and characterization of brain tumor neurospheres derived from human glioblastoma multiforme.
B.T. Ang, C.L.M. Chua, N. Zaiden, C. Tang (Singapore)

04 Bone marrow metastases of anaplastic oligodendroglioma remitting after chemotherapy
E. Anghileri, E. Bazzoli, C. Ghimenton, P. Iuzzolino, F. Pasini, B. Bonetti, G. Moretto, M.G. Passarin (Verona, *Rovigo – Italy)*

- 05 Frameless biopsy for brain tumors: accuracy evaluation
L. Benvenuti, R. Gagliardi, U. Simi (Livorno, Italy)*
- 06 Adult-onset chordoid meningioma. A case report
M. Bianco, M. Bisceglia, C. De Bonis, A. Bonfitto, A. Berardi, V.A. D'Angelo (San Giovanni Rotondo, FG – Italy)
- 18 Role of the transcription factor HEY1 in malignant brain tumors
P. Gaetani, E. Hulleman, D. Levi, M. Quarto*, R. Vernell*, G. Masserdotti*, E. Colli*, E. Aimar, P. Tunici*, F. Tancioni, A. Di Ieva, P. Pisano, G. Finocchiaro*, M. Capra*, K. Helin^{co}, R. Rodriguez y Baena (Rozzano, MI; *Milano – Italy; ^oCopenhagen – Denmark)*
- 25 Profile of protein expression patterns in human gliomas: a preliminary study of 30 patients
T. Ius, M. Vindigni, F. Odreman, A. Vindigni*, M. Skrap (Udine; *Padriciano, TR – Italy)*
- 26 Modulation of Tumor Microenvironment Enhances Oncolytic Virus Therapy
K. Kurozumi, J. Hardcastle, M. Yang, G. Christoforidis, W. Carson, E. A. Chiocca, B. Kaur (Ohio, USA)
- 27 Survivin and Bcl-2 Expression correlated to Pathological Malignancy and Anti-apoptosis in Glial cell Tumors
C. H. Kim, J. H. Cheong, K. H. Bak, J. M. Kim, S. J. Oh (Guri, Korea)
- 36 Pharmacological Reversal of Gene Silencing in Malignant Glioma
M. Mayberg, G. Foltz, A. Madan (Seattle WA USA)
- 37 Prognostic value of MGMT promoter hypermethylation and other genetic markers in malignant glioma patients treated with temozolomide
M. Sabel, S. Loeser, C. Luyken, R. Willers, B. Blaschke, M. Rapp, W. Stummer, H.J. Steiger, G. Reifenberger (Düsseldorf – Germany)
- 40 Melanotic medulloblastoma: a proteomic approach
I. Morra, C. Zanini, F. Pulerà, G. Mandili, F. Turrini, P. Peretta, M. Forni (Torino – Italy)

16,40 Coffee Break

16,55 Open abstract Session I/part 2 – 5 minutes for presentation

18,00 Moderators: Andrea Salmaggi, Massimo Scerrati

- 48 Rai (Shc C) is required for neural stem cell migration and brain tumor development
B. Ortensi, D. Osti, P. Gaetani, D. Levi*, R. Rodriguez y Baena*, S. Pellegatta, G. Finocchiaro, G. Pelicci (Milano, Rozzano (MI) - Italy)*
- 49 Short Interfering RNA (siRNA) to DNA-PK Decreases Protein Levels in 9L Gliosarcoma Cells, a Potential Procedure for Radiation-Sensitization of Glial Tumors
D. M. Sciubba, W. A. Pennant; B. M. Tyler, T. L. DeWeese, G. I. Jallo, MD (Baltimore, MD – USA)
- 50 Microsurgical Resection Delays the Onset of Paresis in an Experimental Rat Intramedullary Spinal Cord Tumor Model
W. A. Pennant, D. M. Sciubba, R. Tamargo, B. M. Tyler, G. I. Jallo (Baltimore, MD – USA)
- 54 Preservation of glial cytoarchitecture from ex vivo human tumor and non-tumor cerebral cortical explants: a human model to study neurological diseases
K.L. Chaichana, V. Capilla-Gonzalez, O. Gonzalez-Perez, G. Pradilla, J. Han, A. Olivi, H. Brem, J. M. Garcia-Verdugo, A. Quiñones-Hinojosa (Baltimore, MD - USA)

- 55 Aquaporin-4 expression in the normal human fetal and adult brain
G. Zamora-Berridi, R. Mesias, B. Mclver, S. M. Raza, G. Jallo, F. Lenz, G.T. Manley, A. Quinones-Hinojosa (Baltimore, MD; San Francisco, CA – USA)
- 56 A thermal gel depot for intracranial delivery of Paclitaxel (OncoGel®) with 20Gy Radiotherapy Significantly Prolongs Survival in an Experimental Rodent Glioma Model
B. Tyler, V. Renard, K. Fowers, K. Li, H. Brem (Baltimore, MD – USA)
- 57 Local delivery of Epirubicin is an effective chemotherapeutic agent in the treatment against a 9L gliosarcoma model
V. M. Renard, D. Vick, S. Hertig, B. M. Tyler, K. W. Li, T. Kosztowski, F. G. Legnani, H. Brem, A. Olivi (Baltimore, MD - USA)
- 59 Grade dependent expression of integrin Signalling Molecules in gliomas
O. Schnell, A. Romagna, N. Thon, N. Plesnila, S. Grau, J.-C. Tonn, R. Goldbrunner (Munich, Germany)
- 61 A study of glutamine synthetase in cerebral glioblastoma
A. Rosati, A. Tomassini^o, S. Marconi, B. Pollo*, L. Lovato, M. Campello^o, A. Schwartz^o, N. Rizzuto, B. Bonetti (Verona, *Milano, Bolzano^o)
- 62 Vascular sphyncters in U-87 MG human glioma implanted in nude mouse: a corrosion casting-scanning electron microscopy study
S. Sangiorgi, F. Colleoni*, M. Furlanetto, F. Pessina, C. Scamoni, L. Bello*, G. Tomei (Varese, *Milano – Italy)
- 64 Survivin: a possible therapeutic target in glioblastoma
L. Schiabello*, M. Mellai[^], R. Boccaletti*, M. Lanotte*, R. Mutani^o, A. Ducati*, D. Schiffer[^] (*Torino, ^Vercelli - Italy)
- 65 Exemplifying excellence: strategies for growing your brain tumor center
A. K. Sills, J. Fazakerly, K. Rapp (Memphis, TN – USA)
- 70 Neurotrophins and Neurotrophin receptors expression in brain metastasis from different human malignancies
E. Maderna, A. Salmaggi, C. Calatozzolo, G. Filippini, B. Pollo (Milano – Italy)

18,00 End of session

20,00 Opening Ceremony

Experimental therapies for malignant gliomas

Discussant: Isabelle Germano

Moderators: Alessandro Olivi, Carmine Maria Carapella

- 08,30 **Special lecture:** John J. Laterra
AB-based therapeutics for CNS malignancies
- 08,55 Kevin Judy
Role of hypoxia in the biology and aggression of human glial brain tumors
- 09,10 **Special lecture:** Robert Martuza
Oncolytic herpes vectors for brain tumor therapy
- 09,35 Antonio E. Chiocca
Phase I trials of adenoviral vector mediated delivery of therapeutic genes in gliomas: what have we learned?
- 09,50 Fumio Yamaguchi
Sonochemical Therapy using 5-ALA for glioma
- 10,05 Discussant: Isabelle Germano
- 10,20 Q&A
- 10,35 Coffee Break
- 10,50 **Open abstract session II - 5 minutes for presentation**
12,20 Moderators: Antonio Silvani, Pietro Versari
- 01 Neurophysiologic pattern of cerebral activation during Cortical and Subcortical motor mapping for surgical removal of cerebral gliomas: correlation with extent of resection and post-operative morbidity in a large series of consecutive patients
F. Acerbi, G. Carrabba, C. Giussani, M. Gallucci, F. Portaluri, V. Conte, S. M. Gaini, E. Fava, L. Bello (Milano, Italy)
- 08 New therapeutic approaches in recurrent GBM patients: is there any benefit?
A. Boiardi, A. Silvani, E. Lamperti, A. Salmaggi, M. Eoli, P. Gaviani, A. Fiumani, A. Botturi, C. Falcone, G. Filippini, F. Di Meco, G. Broggi (Milano, Italy)
- 10 Newly diagnosed glioblastoma: comparison from concomitant therapy and alternative protocol: analysis of preliminary results, impact on quality of life
M. Caroli, R. Campanella, F. Motta, A. Saladino, F. Costa, C. Menghetti, M. Lorenzetti A. De Santis, S.M. Gaini (Milano – Italy)
- 11 Seizures occurrence during intra-operative cortical and subcortical brain mapping for glioma surgery
G. Carrabba, V. Conte, F. Acerbi, M. Gallucci, L. Magni, F. Portaluri, E. Fava, S. M. Gaini, N. Stocchetti, L. Bello (Milano – Italy)
- 15 Cisplatin (CDDP) and Tomoxolamide (TMZ) in association with conventional external radiotherapy (RT) in the treatment of childhood high grade glioma (HGG). A single institutional experience
L. Denaro, E. Passon, S. Ferla, E. Viscardi, M. Gardiman, M. Calderone, G. Scarzello, P. Ciccarino, D. d'Avella, G. Perilongo (Padova – Italy)

- 16** - Temozolomide combined with radiotherapy in neoadjuvant, concomitant and sequential schedule in Glioblastoma Multiforme. Therapeutic results of a multicentric phase-II study
L. Fatigante¹, F. Matteucci¹, G. Silvano², A. Marsella², A. Tagliagambe³, C. Iori³, C. Menichelli⁴, S. Campoccia⁵, L. Cionini¹ (1Pisa, 2Taranto, 3Carrara, 4Arezzo, 5Livorno – Italy)
- 17** Interstitial chemotherapy with biodegradable carmustine wafers (BCNU) in glioblastoma: our experience
F. Formica, M. Iacoangeli, S. Chiriatti, C. Bompreszi, A.M. Mauro*, M. Cardinali, M. Scerrati (Ancona, *Cesena – Italy)*
- 19** Short term outcomes in the multidisciplinary treatment of 29 patients with high grade gliomas
M. Galeandro, P. L. Losardo, R. Martinelli, M. Fumagalli, G. Ceccon, C. Dell'Anna, M. Bergamini, S. Ivaschiv, M.T. Valenti, M. Michiara, S. Pasetti (Parma, Italy)
- 21** A cortical stimulation study on Language Areas deputated to the Naming of Famous Faces
*C. Giussani *°, L. Bello°, J. F. Démonet*, V. Lauwers-Cances*, C. Papagno°, S. M. Gaini°, F. E. Roux* (*Toulouse – France, Milano – Italy)*
- 32** Synchronous and Metachronous Patterns of Multifocal Tumor Manifestations in High Grade Glioma Patients
M. Hefti, G. von Campe, H. Landolt (Aarau - Switzerland)
- 33** 5-Aminolevulinic acid induced porphyrin fluorescence as an immediate intraoperative indicator to improve the accuracy and safety of high grade brain tumor diagnosis in stereotactic biopsies. A technical note
*M. Hefti, G. von Campe, *M. Moschopulos, H. Landolt (Aarau, Switzerland)*
- 38** Stereotactic Coregistration of cortical language areas and Fluorethyl-L-Tyrosin -PET activation in patients with left hemispheric gliomas
M. Sabel, J. Nickel*°, K.-J. Langen°, G. Stoffels°, F. Floeth*, H.-J. Steiger*, R. J. Seitz*° (*Düsseldorf, °Jülich – Germany)*
- 44** Diagnostic procedure of the cerebral tumors in our operative unit
F. Dicuonzo, M. Palma, R. Scarpello, L. Chiumarulo, A. Carella (Bari – Italy)
- 47** Temozolomide in treatment of high grade gliomas
C. Parlato, M. Luongo, G. di Nuzzo, A. C. Gallo, M. Giordano, L. Columbano, M. Barbarisi, R.S. Parlato, C. Gragnaniello, I. Di Muccio, D. De Paulis, E. Squillante, L. Frascadore, A. Moraci (Napoli, Italy)
- 63** Patient selection for awake surgery. A preliminary report from a psychological perspective
B. Santini, A. Talacchi, F. Sala, P. Manganotti, V. Tramontano, B. Trombetti, S. Bertasini, C. Bulighin, P. Pernigo, F. Casagrande, M. Casartelli, S. Bassanini, F. Procaccio, M. Gerosa (Verona - Italy)
- 66** Convection-enhanced drug delivery (CED) in recurrent GBM patients
A. Silvani, M. Eoli, A. Salmaggi, E. Lamperti, P. Gaviani, A. Fiumani, A. Botturi, F. Di Meco, C.E. Marras, G. Broggi, A. Boiardi (Milano – Italy)
- 68** Gliosite radiation therapy system for malignant brain tumors: initial experience
*F. Tuniz, M. Skrap, B. Zanotti, A. Verlicchi, S. D'Agostini, M. De Colle, *C. Gobitti, *M. Roncadin, *M. Arcicasa, *M.G. Trovò, *M. Cimitan, *E. Borsatti, *E. Capra (Udine, *Aviano – Italy)*
- 69** The role of the internet in brain tumor treatment discussions
A. K. Sills, Jr., K. Rapp, J. Fazakerly (Memphis, TN - USA)

- 07 Intraparenchymal meningioma in a child. Case report and review of the literature
M. Bianco, D. Catapano, L. Paiano, L. Innocenti, N. Icolaro, T. Popolizio, V.A. D'Angelo (San Giovanni Rotondo, FG – Italy)
- 09 Pure sylvian fissure meningioma. An anatomic-pathological appraisal
M. Campello, P.C. Cecchi, A. Tomassini, C. Soda, M. Conti, A. Schwarz (Bolzano – Italy)
- 13 Granulomatous Hypophysitis Caused by Intracellular Rupture of Rathke's Cleft Cyst: Case Report
D. Catapano, C. De Bonis, C. Battista, M. Bisceglia, V. A. D'Angelo (San Giovanni Rotondo, FG – Italy)
- 28 Cerebellar anaplastic oligodendroglioma presenting with hemorrhage - case report
J.T. Kwon, Y.I. Kim (Seoul – Korea)
- 42 Dorsum sellae solitary plasmacytoma revealed by neuronavigation-guided biopsy
M. Neroni, G. Ricci, R. Gazzeri, S. Esposito (Roma – Italy)
- 43 Different subtypes meningiomas arising in the same region
M. Neroni, R. Gazzeri, G. Ricci, S. Esposito (Roma – Italy)
- 46 Epidermoid of posterior cranial fossa
C. Parlato, M. Luongo, G. di Nuzzo, A. C. Gallo, M. Giordano, L. Columbano, M. Barbarisi, R. S. Parlato, C. Gragnaniello, I. Di Muccio, D. De Paulis, E. Squillante, L. Frascadore, A. Moraci (Napoli - Italy)
- 52 Stereotactic biopsy of intracranial tumours using dynamic-contrast enhanced CT scan
E. Pirola, F. Vergani, M. Grimaldi, C. Cesana, P. Casiraghi, D. Pirillo, G. Isimbaldi, A. Landi, EP. Sganzerla (Monza, MI – Italy)

13,00 Lunch

Clinical Studies

Discussants: Allen K. Sills

Moderators: Amerigo Boiardi, Ibrahim Sbeih

- 14,00 **Special lecture:** Stuart Grossman
Iatrogenic immunosuppression in patients with newly diagnosed high grade gliomas
- 14,25 Gene H. Barnett
Evolution of brain navigation: entering the subcortical era
- 14,40 Lorenzo Bello
Motor and language DTI fiber tracking combined with intraoperative subcortical mapping for surgical removal of low grade gliomas
- 14,55 Reid Thompson
Measuring intraoperative brain shift: clinical experience with a laser range scanner
- 15,10 Jeffrey Bruce
Immunotherapy for gliomas
- 15,25 Discussant: Allen K. Sills

15,40 Q&A

15,55 Coffee break

16,15-17,15 **Workshop Tekmed**

GLIASITE: State of the art and current indications

Moderator: Massimo Collice

Speakers: Miran Skrap
Alessandro Olivi
Allen K. Sills

17,15 **Open abstract session IV - 5 minutes for presentation**

18,30 Moderators: Lucia Benvenuti, Nicola Di Lorenzo

- 12 Outcome after radiosurgery (SRS) and fractionated stereotactic radiotherapy (SRT) for brain metastases in 329 consecutive lesions
C. Polli, I. Bonucci, L. Masi, C. Menichelli, F. Casamassima (Firenze – Italy)
- 14 Basal GH levels and tumor size: friend or foe during primary octreotide LAR treatment in acromegaly?
R. Cozzi, M. Montini, R. Attanasio*, M. Albizzi*, G. Lasio, S. Lodrini, P. Doneda, L. Cortesi*, G. Pagani* (Milano, *Bergamo – Italy)*
- 20 Pure endoscopic resection of pituitary adenomas: does it improve outcome and quality of life?
F. Gentili, K. Karabatsou, A. Ganna, A. Dehdashti (Toronto, Canada)
- 22 The far lateral approach in the surgical treatment of foramen magnum meningiomas
M. Iacoangeli, M. Dobran, A. Di Rienzo, M. Gladi, S. Chiriatti, C. Caimmi, M. Scerrati (Ancona - Italy)
- 23 Surgical treatment for parasagittal meningiomas with particular reference to the treatment of major dural sinus involvement
*M. Iacoangeli, *A.M. Mauro, F. Formica, A. Di Rienzo, M. Gladi, S. Chiriatti, E. Moriconi, M. Scerrati (Ancona, *Cesena – Italy)*
- 24 Mini-invasive supraorbital subfrontal key-hole approach in the treatment of anterior fossa meningiomas
*M. Iacoangeli, M. Dobran, F. Formica, M. Gladi, S. Chiriatti, L. Alvaro, * A.M. Mauro, M. Scerrati (Ancona, *Cesena – Italy)*
- 29 Retrospective analysis of concomitant treatment with 3-dimensional conformal radiotherapy and temozolomide in high-grade glioma patients
L. Landi, L. Benvenuti*, C. Galli*, L. Galli*, A. Fontana*, R. Gagliardi*, S. Campoccia*, M. Bosio*, A. Falcone*^o (*Livorno, ^oPisa – Italy)*
- 34 Impact of neuronavigation on survival of supratentorial high grade glioma patients. A single-institution retrospective study
M. Hefti, C. Schneider, N. Birtel-Porz, H. Landolt (Aarau - Switzerland)
- 35 Patient positioning in intra-cranial stereotactic treatments: comparison between a frame guided set-up and the on-line corrections guided by an on board cone beam CT
L. Masi, I. Bonucci, C. Menichelli, C. Polli, F. Casamassima (Firenze – Italy)
- 39 Clinical outcome and survival in 52 patients after surgery for spinal metastases
E. Moriconi, M. Dobran, M. Iacoangeli, F. Formica, C. Caimmi, M. Gladi, S. Chiriatti, M. Scerrati (Ancona – Italy)
- 45 Primary central nervous system lymphomas (PCNSL): immunophenotypic features and survival
P.P. Panciani, C. D'Agostino, S. Grifoni, P. Ghiglione, M. T.Giordana (Torino – Italy)

- 51** Antiepileptic drugs in patients with high grade glioma: prophylaxis, therapy?
B. Pettorini, M. Balducci, C. Anile, S. Manfreda, P. Apicella, G. Colicchio (Roma – Italy)
- 53** Approccio mini-invasivo ai neurinomi spinali
E. Pierangeli, C. Pizzoni, N. Gigante (Taranto – Italy)
- 60** Epilepsy in cerebral gliomas
A. Rosati, A. Tomassini^o, B. Pollo, C. Ambrosi[§], M. Campello^o, M. Brogher^o,
A. Alfieri^o, C. Soda^o, P. Cecchi^o, M. Conti^o, A. Schwarz^o, N. Rizzuto (Verona, ^oBolzano,
Milano, [§]Brescia)
- 67** Significance of NMR based metabolomics as the prognostic factor of meningioma
*H. Takahashi, K. Hirakawa, K. Uekusa, F. Yamaguchi, K. Adachi, Y. Ohno, A. Teramoto,
K. Yuta (Kanagawa and Tokyo - Japan)*

18,30 *end of session*

20,30 *Speakers dinner*

Brain tumor metastases

Discussants: Prakash Sampath

Moderators: Sergio Giombini, Gianpaolo Cantore

- 08,15 **Special lecture:** Raymond Sawaya
Surgical Management of Brain Metastasis
- 08,40 Riccardo Soffietti
Old problems and new developments in radiotherapy and chemotherapy for brain metastasis
- 08,55 Matthew G. Ewend
How do we measure success in treating brain metastases?
- 09,10 Massimo Gerosa
Radiosurgery and brain metastasis
- 09,25 *Discussant:* Prakash Sampath
- 09,40 Interactive subsession: audience response
- 09,55 Coffee Break

Clinical advances in neurosurgery

Discussant: Giovanni Broggi

Moderators: Sergio Maria Gaini, Massimo Collice

- 10,15 **Special lecture:** Henry Brem
Developing new therapies for malignant gliomas
- 10,40 Zvi Ram
Optimization of convection-based drug delivery for brain tumor therapy
- 10,55 **Special lecture:** Mitchel Berger
Neurophysiological mapping of language systems during glioma resection
- 11,20 Jon Weingart
Combination of O6-Benzil-Guanine and local BCNU for malignant gliomas
- 11,35 **Special lecture:** Michael L. J. Apuzzo
The emancipation of neuro-oncology
- 12,00 *Discussant:* Giovanni Broggi
- 12,15 Q&A
- 12,30 Lunch

Skull base

Discussant: Rafael Tamargo

Moderators: Fred Gentili, Francesco Tomasello

- 13,30-13,55 **Special Lecture:** Donlin Long
Surgical therapy for acoustic tumors
- 13,55 Fabio Calbucci
Surgery of petro-clival meningiomas
- 14,10 Ian McCutcheon
Evolving strategies for difficult meningiomas: lessons from tumor biology
- 14,25 Roberto Delfini
Surgical management of clinoidal meningiomas
- 14,40 Mario Ammirati
Fractionated Stereotactic Radiotherapy of skull base lesions
- 14,55 Giulio Maira
Transsphenoidal surgery for pituitary adenomas invading the cavernous sinus
- 15,10 Discussant: Rafael Tamargo
- 15,25 Q&A
- 15,40 Coffee Break

Spine tumors-symposium

Moderators: Giancarlo Guizzardi, Carlo Lazzaro Solero

- 16,00 Ziya Gokaslan
Metastatic spinal tumors: evaluation and decision making
- 16,20 Peter Gerszten
Role of radiosurgery, vertebroplasty, kyphoplasty in the management of spinal metastases
- 16,40 Lawrence Rhines
Primary spinal tumors: evaluation and decision making
- 17,00 Stefano Boriani
Surgical treatment of primary spinal tumors: region specific approaches for en bloc resection
- 17,20 Interactive subsession: audience response
- 17,35 Closing remarks
Alessandro Olivi, Francesco Di Meo

Information

Meeting Venue

Teatro Signorelli
P.zza Signorelli - 52044 Cortona (AR) - Italy
Tel/Fax +39 0575 601882
www.teatrosignorelli.com
info@teatrosignorelli.com



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Non Members	€ 320,00
Trainee	€ 150,00

Fees include: Congress material, Welcome cocktail, coffee breaks and lunches

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- **cash**

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The official language of the Meeting is English.

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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 room. Speakers are kindly requested to contact the **Slide Centre** to upload their presentation(s) and to test all the audiovisual material at least one hour before the lecture.

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