



Breaking Boundaries of Science,  
Technology, Medicine,  
Art and Healthcare Policy



# Annual World Congress of IBMISPS on Brain, Spinal Cord Mapping and Image Guided Therapy

International Brain Mapping and Intraoperative Surgical Planning Society - IBMISPS

## Contents

IBMISPS .....	p.2-3
(Mission statement, Educational objectives, Annual world congress, Congress chairs, Charter)	
Continuing Medical Education need assessment .....	p.4
Society board of directors .....	p.5-6
Program Committee .....	p.7-8
IBMISPS Letter from the Founder .....	p.9-10
(Babak Kateb)	
IBMISPS President's address .....	p.11
(Michael S. Okun)	
IBMISPS President-Elect's address .....	p.12
(Michael Y. Chen)	
IBMISPS Program .....	p.13 to 15
Keynote speakers .....	p.16 to 19
(Adam M. Robinson, Jr., Ramon (Ray) Lugo III, Kaighan J. Gabriel)	
Timetable .....	p.20
Wednesday, June 8 - Scientific program .....	p.21-22
Thursday, June 9 - Scientific program .....	p.23 to 25
Friday, June 10 - Scientific program .....	p.26 to 29
Oral poster .....	p.30 to 37
Faculty .....	p.38 to 41
Sponsors & exhibitors .....	p.42
Gala reception - Awards .....	p.43 to 48
Brain mapping foundation remembers .....	p.49-50
(Dr. Bijan Pakizad)	

[www.worldbrainmapping.org](http://www.worldbrainmapping.org)

# 8<sup>th</sup>

## INFO IBMISPS

**Global Headquarters**  
**8159 Santa Monica Blvd.,**  
**Suite 200**  
**West Hollywood,**  
**CA 90046**

**Tel: 310.500.6196**

**Fax: 323.654.3511**

**contact@ibmisps.org**  
**ibmisps.org**

## CME ACCREDITATION

Kern Medical Center is accredited by the Institute for Medical Quality/California Medical Association (IMO/CMA) to provide continuing medical education for physicians. Kern Medical Center takes responsibility for the content, quality and scientific integrity of this CME activity. Kern Medical Center designates this educational activity for up to 20 hour(s) AMA PRA Category 1 Credit(s) 1tm. Physicians should only claim credit commensurate with the extent of their participation in the activity. This credit may also be applied to the Certification in Continuing Medical Education (CME).



# Annual World Congress of IBMISPS on Brain, Spinal Cord Mapping and Image Guided Therapy

June 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 2011

International Brain Mapping and Intraoperative Surgical Planning Society - IBMISPS

Breaking Boundaries of Science,  
Technology, Medicine, Art and Healthcare Policy

**Wednesday, June 8, 2011**

**17:00 - 18:30 / Robertson Auditorium**

**ORAL POSTER SESSION**

## *Neurophysiology*

P14  
THE APPLICATION OF MICROELECTRODE ARRAYS TECHNIQUE ON FIELD ACTION POTENTIAL OF THORACIC SPINAL CORD 1-5 NERVES AND CARDIAC TISSUE IN CHRONIC STRESS RAT MODEL  
Y. Hou (China), Z. Liu, Q. Zhou

P15  
COMPLEX NETWORK ANALYSIS OF INTRAOPERATIVE ECOG DATA  
G. Ortega (Spain), R. Garcia de Sola, J. Pastor

P16  
VAGUS NERVE STIMULATION EFFECTS ON BEHAVIOR IN PATIENTS WITH AUTISM  
E. Tsimmerlin (USA), C. Niesen, N. Niparko, D. Eliahiav

## *Image guided systems*

P18  
FREQUENTLY DETECTED PATTERN OF ABNORMALITY IN PATIENTS WITH ATTENTION DEFICIT HYPERACTIVITY DISORDERS USING BRAIN SINGLE PHOTON EMISSION TOMOGRAPHY (SPECT) IMAGING  
I. Gayed (USA), J. Awad, D. Wan, U. Joseph, S. John

## *Operational issues*

P19  
POSTOPERATIVE ISCHEMIC CHANGES FOLLOWING GLIOMA RESECTION AS MEASURED BY DIFFUSION WEIGHTED MAGNETIC RESONANCE IMAGING AND THEIR CORRELATION WITH INTRAOPERATIVE MOTOR EVOKED POTENTIALS  
J. Gempt (Germany), S. Krieg, E. Shiban, N. Buchmann, Y. M. Ryang, B. Meyer, A. Förschler, F. Ringel

**Thursday, June 9, 2011**

**12:30 - 13:30 / Robertson Auditorium**

**LUNCH BREAK & ORAL POSTER SESSION**

## *Multi-Modality*

P20  
VOLUME EXPANSION IN ARTERIO-VEINUS MALFORMATIONS TREATED WITH ONYX  
J. Kraus (USA), A. El-Gengaihy, D. Sharma, V. Patel, S. Samudrala, O. Cornett, A. Jacobs, C. Prestigiacomo, C. Gandhi

P21  
ELECTRONEUROSTIMULATION CAPABILITIES IN PATIENTS WITH VERTEBRAL CEREBRO-SPINAL INJURIES  
A. Toma (Russian Federation), V. Ninel, S. Gramma, A. Norkin, T. Borovskaya, S. Jankin, G. Toma, K. Petrova, I. Toma

P22  
DIFFUSION TENSOR IMAGING (DTI) AND POSITRON EMISSION TOMOGRAPHY (PET) SCAN FINDINGS AND NEUROPSYCHOLOGICAL TESTS IN MILD TRAUMATIC BRAIN INJURY  
J. Wu (USA), J. Z. Tsai

P23  
SPHENOPALATINE GANGLION BLOCK IN TRAUMATIC TRIGEMINAL NEURALGIA AND THE OUTCOME TO RADIOSURGICAL ABLATION-ONE YEAR RESULTS.  
C. Zarembinski (USA)

**Thursday, June 9, 2011**

**12:30 - 13:30 / Fisher Banquet**

**LUNCH BREAK & ORAL POSTER SESSION**

## *Rehabilitation Medicine*

P24  
TUNING THE TASTE IN TASTE DISORDERS  
S. Amrutesh (India)

P25  
NEUROPROTECTIVE EFFECTS OF BONE MARROW MESENCHYMAL STEM CELLS OVER-EXPRESSING GDNF ON RATS WITH INTRACEREBRAL HEMORRHAGE AND NEURONS EXPOSED TO HYPOXIA/REOXYGENATION  
Y. Iani (China), Y. Xian, H. Hui

## *Transcranial Magnetic Stimulation*

P26  
CORTICOSPINAL ADAPTATIONS WITH CROSS EDUCATION UNDERPIN RETENTION OF STRENGTH AND NEURAL EXCITABILITY IN AN UNWEIGHTED UPPER LIMB.  
A. Pearce (Australia), D. Kidgell

P27  
COMPREHENSIVE FUNCTIONAL NEURONAVIGATION IN BRAIN TUMOR SURGERY  
T. Picht (Germany), J. Schulz, V. Strack, D. Frey, P. Vajkoczy

**Thursday, June 9, 2011**

**17:00 - 18:30 / Robertson Auditorium**

**ORAL POSTER SESSION**

## *Diffusion Tensor Imaging*

P28  
CLINICAL USE OF DIFFERENT FIBER TRACTOGRAPHY METHODS IN EPILEPSY SURGERY  
C. Anastasopoulos (Germany), M. Reisert, A. Schulze-Bonhage, J. Zentner, V. G. Kiselev, I. Mader

P29  
THALAMIC DEEP BRAIN STIMULATION TARGETING USING PROBABILISTIC TRACTOGRAPHY  
A. Bari (USA), Z. Zheng, E. Behnke, J. Elias, A. DeSalles, N. Pouratian

P30  
QUANTIFYING DIFFUSION MRI DIFFUSION OF THE CORTICOSPINAL TRACT IN BRAIN TUMORS WITH DETERMINISTIC AND PROBABILISTIC METHODS  
M. Bucci (USA), M. Mandelli, M. Berger, J. Berman, B. Amirbekian, R. Henry