

15th European Congress on Clinical Neurophysiology - Scientific Programme

WEDNESDAY, SEPTEMBER 30, 2015

e-Poster Sessions (PS-01-01, PS01-02, PS01-03, PS01-04, PS01-05)				
	HALL 1	HALL 2	HALL 3 + HALL 4	HALL 5
7:30 - 9:00				
9:00 - 10:30	Plenary lecture I -Cognitive neurophysiology in neuropsychiatry R. Verleger: Bridging events and actions: P3b in healthy people and in Parkinson's disease M. Ullsperger: Errors and surprise in patients with focal brain lesions B. Kopp: Cognitive flexibility in patients with Parkinson's disease M. Brázdil: Intracranial event-related potentials			
10:30 - 11:00	Coffee break & Exhibition Plenary Lecture II.- Neurophysiology in the medico-legal context			
11:00 - 12:30	M. Hallet: Psychogenic movement disorders L. Garcia-Larrea: Feeling pain or not? Clinical neurophysiology of 'non-organic' somatosensory disorders J. Brockmüller: Ethical considerations in research and clinical application of noninvasive electrophysiologic approaches to modify brain functions TBA			
12:30 - 14:00	Lunch break & Exhibition (Industry Luncheon Symposium)			
14:00 - 15:30	Parallel Session 1 New insights into the cerebellum R. Apps: Is the cerebellum really uniform in architecture? M. Manto: Can we manipulate the cerebellar circuitry to improve ataxia? M. Molinari: Cerebro-Cerebellar crosstalk in motor and cognitive domains T. Bocchi: Cerebellar Direct Current Stimulation Modulates Pain Perception and its neural correlates in Humans A. Benussi: Cerebellar tDCS in patients with ataxic disorders: a double-blind, randomized, crossover, sham-controlled study.	Parallel Session 2 Fatigue in neuromuscular disorders J. Finsterer: Biomarkers of muscle fatigue during exercise V.E. Drory: Fatigue in motor neuron diseases C. Angelini: Fatigue in muscular dystrophies and metabolic myopathies F. Tecchio: Multiple sclerosis fatigue relief by bilateral somatosensory cortex neuromodulation I. Cogliati Dezza: Functional and structural balances of homologous sensorimotor regions in multiple sclerosis fatigue	Parallel Session 3 Conventional electrodiagnostic tests for the assessment of small nerve fiber function J. Valls-Solé: Nerve conduction studies M. Kofler: Silent period R. Verdugo: Autonomic responses W. Magerl: Pain evoked potentials	Educational Course EC-02 rTMS for treatment D. Benninger: Movement Disorders J.P. Lefaucheur: Pain J. Brunelin: Depression
15:30 - 16:00	Coffee break & Exhibition			
16:00 - 17:30	Parallel Session 4 Uncovering pathophysiological mechanisms underlying Parkinson's disease S. Little: How might stimulation therapies for PD work and how might they be improved? A. Suppa: Assessing plasticity in the primary motor cortex for understanding the pathophysiology of Parkinson's Disease: evidence from TMS studies G. Mirabella: Is a wrong evaluation of ongoing goal-directed actions the key to understand Parkinson's Disease? Evidence from deep brain stimulation of subthalamic nucleus. T. Sieger: Visuo-Attentional Activity of Neurons in the Subthalamus in Parkinson's Disease M. Bočková: Alpha and beta power decrease during enhanced cognitive effort in the basal ganglia: An intracerebral recording study.	Parallel Session 5 Advances in testing axonal excitability D. Burke: Recent insights into axonal physiology and its measurement C. Krarup: Translational electrophysiology: excitability in animal models of peripheral nerve disorders - not confirmed yet S. Park: Clinical usefulness of axonal excitability testing in toxic neuropathies S. Koch: Motor-nerve excitability changes in critically ill patients D. Czesnik: Threshold tracking in Cramps and RLS	Parallel Session 6 "Of Mice and Men": impact of Alzheimer's disease on cortical generation of EEG rhythms in mice and humans towards a true M. Lorincz: Cortical and Thalamic Mechanisms of Generation of "Delta" and "Alpha" EEG Rhythms in Animal Models W. Drinkenburg: Pharmacological Neuromodulation of on-going "Delta" and "Alpha" EEG Rhythms: Evidence for Translational Neurophysiological Biomarkers in Alzheimer's Disease Animal Models C. Babiloni: Cortical Generation of On-going "Delta" and "Alpha" EEG Rhythms in Mouse Models of Alzheimer's disease and Alzheimer's disease Patients at Prodromic and Manifest Stages L. Anderková: Grey matter atrophy in mild Alzheimer's disease impacts on cognitive effects of noninvasive brain stimulation A. Del Felice: Rehabilitation of verbal and visuospatial memory by oscillatory tDCS and sleep	Educational Course EC-10 Guidelines and evidence-based medicine in EMG H. Tankisi: Variation in EMG between laboratories M. de Carvalho: Utility of EMG in neuromuscular disorders A. Fuglsang-Frederiksen: Status on guidelines in electrodiagnostic medicine
17:30 - 19:00	Parallel Session 7 Session devoted to Clinical Neurophysiology Journal Editors' choice: Best articles published in the Clinical Neurophysiology Journal	Parallel Session 8 Neonatal EEG in 2015 S. N'Guyen: What for neonatal EEG in premature baby in 2015? M.D. Lamblin: Neurophysiology and neonatal seizures ; clinical impact in 2015 S. Vanhatalo: Neonatal EEG : from conventions to inventions A. Adebimpe: Influence of temporal theta burst activity on the functional connectivity of the cortical networks in preterm neonates	Parallel Session 9 Cross-frequency coupling in clinical neurophysiology M. Valencia: Cross-frequency coupling. Basic principles and measurements N. Axmacher: Cross-frequency coupling and memory M. Alegre: Cross-frequency coupling in the pathophysiology of Parkinson's disease I. Alekseichuk: Cross-frequency coupling and tACS	Educational Course EC-14 Topics in neuromuscular pathology R. Dengler: ALS-Update in Clinic and Research R. Verdugo: Small fiber neuropathy L. Cui: Immune mediated neuropathies
19:30	Opening Ceremony and Get together Party - International Hotel (Congress Venue)			

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THURSDAY, OCTOBER 1, 2015

7:30 - 9:00 e-Poster Sessions (PS-02-01, PS02-02, PS02-03, PS02-04, PS02-05)					
HALL 1		HALL 2		HALL 3 + HALL 4	HALL 5
9:00 - 10:30 Plenary lecture III. - TMS-EEG: a novel technique to measure excitability and connectivity of the human brain					
<p>R. Ilmoniemi: TMS-EEG: Methodology M. Massimini: TMS-EEG for testing brain connectivity in different brain states and disease U. Ziemann: Pharmacological TMS-EEG for testing brain excitability and connectivity V.K. Kimiskidis: TMS-EEG in Epilepsy: pathophysiological insight and emerging clinical applications</p>					
10:30 - 11:00 Coffee break & Exhibition					
11:00 - 12:30 Parallel Session 10 Revisiting assumptions about commonly used TMS methods		Parallel Session 11 Probing brain ageing with neurophysiological techniques		Parallel Session 12 Neurophysiological Evaluation of Autonomic Disorders	
A. Quartarone: Paired Associative Stimulation: a reliable pathophysiological marker?		P. Rossini: Integration of neurophysiological and structural imaging techniques to test brain connectivity		V. Donadio: The diagnosis of peripheral autonomic disorders	
J. Rothwell: Should We Trust Theta Burst Stimulation?		R. D. Pasqual-Marqui: LORETA and brain ageing		C. Mathias: Neurophysiological evaluation in central autonomic disorders	
Y. Ugawa: Quadripulse Stimulation		F. Vecchio: Pre-stimulus interhemispheric coupling of brain rhythms predicts cognitive-motor performance		M. Elam: Autonomic responses to stress	
T. Shimizu: Efficacy of repetitive transcranial stimulation with H-coil for treatment of intractable neuropathic pain in lower extremities		F. Di Lorenzo: Electrophysiological differences between Early Onset and Late Onset Alzheimer Disease Patients		J. Castro: Sudomotor Function Assessed by Sudoscan in TTR-FAP Patients	
W. Paulus: TMS and the orientation of the motor cortex		M. Chaturvedi: Quantitative EEG in patients with Parkinson`s Disease (PD) with and without Mild Cognitive Impairment		L. Crnosija: Autonomic dysfunction in clinically isolated syndrome suggestive of multiple sclerosis	
12:30 - 14:00 Lunch break & Exhibition (Industry Luncheon symposium)					
14:00 - 15:30 Parallel Session 13 Induction of brain plasticity using non-invasive brain stimulation: Methods and underlying mechanisms		Parallel Session 14 Electromagnetic Source Imaging: methods and their clinical validation		Parallel Session 15 Controversies: Oscillatory activity in the pathophysiology of Parkinson`s disease: to be (ta) or not to be (ta)/ Controversies in Clinical Neurophysiology	Parallel Session 16: Platform sessions
J. Classen: Plasticity induction using transcranial magnetic stimulation		M. Seeck: Electric Source Imaging of interictal epileptiform discharges		M. Alegre: Beta NO	<p>T. Serranova: Emotional reactivity related to the electrode position changes along antero-posterior direction in subthalamic stimulation for Parkinson`s disease (ID 330), J. Cole: Motor output variability and putative deficits in kinaesthetic integration in deafferentation and Parkinson`s Disease (ID 14), P. Halász: K-complex update (ID 24), C. Pazzaglia: Can "pain matrix" be convinced to feel more pain? Looking for a neurophysiological marker of nocebo effect (ID 98), S. Vaalto: Lateralization differences in hand and leg motor representations in patients with cerebral palsy (ID 220), M. Gorges: Stages of oculomotor dysfunctions confirms the model of axonal spread of pTDP-43 pathology in amyotrophic lateral sclerosis (ID 229), A. Grimm: Ultrasonography of the peripheral nervous system in vasculitic neuropathies (ID 2), M. de Carvalho: Is it possible to modulate fasciculation potential firing in ALS? (ID 20), M. Kural: Quantitative MUP and Peak Ratio Analysis in Diagnosis of Myopathy (ID 132), H. Tankisi: Near-nerve versus surface electrode recordings of sural nerve in patients with</p>
A. Antal: Plasticity induction using transcranial direct and alternating current stimulation		H. Stefan: Magnetic Source Imaging of interictal epileptiform discharges		A. Priori: Beta YES	
R. Chen: Homeostatic and non-homeostatic plasticity interactions		S. Beniczky: Source imaging of ictal patterns			
V. Di Lazzaro: Motor cortical microcircuits underlying responses to TMS		A. Thielscher: To what extent can we invert source imaging methods to calculate electrode positions for tACS oder tDCS		Interesting Cases/Reports - to be announced later	
		F. Vecchio: A Contribution to Motor Cortex Excitability Fluctuations by the Analysis of the underlying EEG		If you wish to present an interesting case please contact Edvard Ehler (e-mail: edvard.ehler@nemocnice-pardubice.cz)	<p>P. Vasko: Cutaneous silent period in cervical root avulsion (ID 162), A.V. Strobel: Sural Sensory Nerve Conduction Studies in Demyelinating Polyneuropathies (ID 250), A.B. Jacobsen: The most sensitive nerves and parameters in electrodiagnosis of polyneuropathies (ID 268), N. Hanna: Objective extraction of concealed information by Visual Evoked Potentials (VEPs) and Standardized Low Resolution Brain Electromagnetic Tomography (sLORETA) (ID 372), M. Veciana: Cervical Vestibular-Evoked Myogenic Potential (cVEMP) in adrenomyeloneuropathy patients (ID 239), S. Huang: Retinal Ganglion Cell Layer Correlates with Cognitive Involvement in Alzheimer`s Disease and Mild Cognitive Impairment (ID 335), M.Q. Ebbesen: Quantitative EEG-reactivity to different stimulation methods in comatose patients (ID 122), M. Fabricius: Electroencephalographic (EEG) monitoring in spontaneous intracerebral hemorrhage (sICH): Metabolic profile of cortical spreading depolarizations (CSD) (ID 342), S. Groiss: Stage dependent alteration of cortical excitability in patients with hepatic encephalopathy (ID 325), M. Hardmeier: Graph measures to characterize resting state connectomes in MS patients: an EEG-study over two years (ID 423), I. Holeckova: Perioperative Monitoring of Cognitive Functions by Event-Related Potentials and Psychometric Tests (ID 245)</p>
15:30 - 16:00 Coffee break & Exhibition					
16:00 - 17:30 Parallel Session 18 Therapeutic rTMS in neurological conditions		Parallel Session 19 Deep brain stimulation – a unique opportunity to understand brain functions in health and disease		Parallel Session 20 Platform presentations of European Chapter IFCN bursary recipients - to be announced later	Educational Course EC-06/EC-11 Assessment of a patient with possible neuropathic pain/Neurophysiology to predict and prevent chronic pain
J.P. Lefaucheur: rTMS for Pain relief		A. Kühn: Disease-specific neuronal activity patterns in movement disorders			W. Magerl: Quantitative Sensory Testing
W. Paulus: rTMS and Disorders of the motor system		J. Volkmann: Motor function of the basal ganglia			M. Valeriani: Neurophysiological techniques
T. Kašpárek: rTMS in Psychiatry		J. Péron: The role of the subthalamic nucleus in emotional processing			A. Truini: Skin biopsy
Y. Saitoh: The Japanese rTMS experience- present and future		V. McClelland: Globus pallidus neuronal firing rates relate to dystonia aetiology and outcome from Deep Brain Stimulation (DBS) in children			S. Jaaskelainen: How to predict and prevent trigeminal pain with neurophysiologic tools
		W. Dimpfel: Attenuation of Pathological Spectral Theta Power by Deep Brain Stimulation in a Parkinson Patient			N. Vartiainen: Can thalamic pain be predicted using neuroanatomical and neurophysiological indices?
					L. García-Larrea: Predicting pain development after brainstem lesions using neurophysiological tools
17:30 - 19:00 Parallel Session 21 Variability in TMS studies		Parallel Session 22 Closed-loop brain stimulation for clinical therapy.		EUROPEAN CHAPTER MEETING	Educational Course EC-13 Wide-band EEG in clinical epilepsy: slow shifts and HFO
J. Classen: Variability of plasticity measures		B. Rosin: Closed loop deep brain stimulation for Parkinsons disease - experience on Primates			A. Ikeda: How to record and analyze slow shifts in epilepsy
J. Rothwell: Variability of MEPs		R. Raedt: Closed loop neurostimulation for epilepsy			M. Brázdil: How to record and analyze HFO in epilepsy
U. Ziemann: Variability of paired pulse studies		A. Priori: Adaptive Deep Brain Stimulation (aDBS) for Parkinson`s disease			V. Gnatkovsky: Computerized analysis of slow shifts and fast activity at seizure onset
G. Strigaro: Variability in response to 1 Hz repetitive TMS		C. Zrenner: Brain-state dependent non-invasive brain-stimulation with real-time closed-loop simultaneous EEG/TMS			

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FRIDAY, OCTOBER 2, 2015

7:30 - 9:00					
e-Poster Sessions (PS-03-01, PS03-02, PS03-03, PS03-04, PS03-05)					
HALL 1		HALL 2		HALL 3 + HALL 4	HALL 5
9:00 - 10:30					
Plenary lecture IV. - Can we localize language functions with neurophysiological tools?					
F. Woermann: fMRI: how far are we with localization of language areas?					
M. Genetti: High density evoked potentials – could they be useful for language localization?					
E. Pataraia: Language localization by MEG					
M. Sommer: Neurophysiology of stuttering					
10:30 - 11:00					
Coffee break & Exhibition					
11:00 - 12:30					
Paralle Session 23		Paralle Session 24		Paralle Session 25	Educational Course EC-15
Large scale networks in epilepsy		Sleep disorders monitoring		Quantitative Analysis and Automatic Interpretation of the Adult EEG	Basic principles of TMS
M. Guye: How to interpret interictal functional connectivity alterations in Epilepsy: a multimodal approach combining EEG, fMRI and DTI		C. Gaig: Neurophysiological assessment of REM sleep behaviour disorder		S.S.Lodder: Quantification of the adult EEG	D. Burke: Excitability of axons and paired pulse studies
I. Rektor: Basal ganglia and large scale networks in epilepsy		K. Šonka/F. Pizza: Polysomnographic investigation of central hypersomnias		S. Beniczky: Standardized reporting of EEG	K. Ugawa: Repetitive and patterned studies
M. Richardson: Putting theoretical dynamics into networks constructed from patient data: how do seizures start?		D. Kemlink: Actigraphy in sleep disorders research		H. Shibasaki: Automatic interpretation of the adult waking EEG	P. Rossini: TMS-EEG
G. Iannotti: Strong "intrinsic" functional connectivity of epileptic networks independent of scalp interictal epileptiform EEG discharges		H. Bastuji: Learning from sleep physiology to interpret sleep disorders		M. Brunovsky: QEEG correlates of emotionally negative state induced by autobiographic script in patients with affective disorder and healthy control	
M.D. Malia: Introducing the epileptome: dynamic seizure onset zone connectome as revealed by single pulse electrical stimulation in stereoelectroencephalography				B.J. Ruijter: Quantitative EEG features predict outcome in postanoxic electrographic status epilepticus	
12:30 - 14:00					
Lunch break & Exhibition (Luncheon symposiu)					
14:00 - 15:30					
Paralle Session 26		Paralle Session 27		Paralle Session 28	Educational Course EC-17
New perspectives about the role of interictal epileptiform discharges in epilepsy		Combining imaging and NIBS to study cognition and behaviour		New methods in clinical neurophysiology: why are they rarely implemented in clinical practice?	Y. Péréon: Tips and pitfalls in the interpretation of needle EMG
M. de Curtis: Why is understanding of mechanisms of interictal discharges important for clinical practice.		H.R. Siebner: TMS-fMRI to uncover cognition and behavior in healthy individuals		S. Beniczky: New methods in clinical neurophysiology: from publication to implementation.	
P. Marusič: Functional organization of brain areas generating interictal discharges: implications for surgical treatment.		A. Strafella: TMS-PET and dopaminergic systems		M. Fabricius: Challenges with the implementation of new methods in clinical neurophysiology: what are the rate limiting steps?	
M. Zijlmans: Interictal discharges and HFOs in intra-operative electrocorticography before and after resection.		I. Rektorova: Combining fMRI-rTMS to modulate cognition in MCI and Parkinson's disease patients		E. Stalberg: How to implement new neurophysiological methods in the clinical practice: the key to success.	
F. Pittau: Detection of epileptic activity in absence of EEG interictal epileptic discharges		J. Király: Characterization of GABAA-receptor mediated neurotransmission in the human cortex by paired-pulse TMS-EEG		J.M. Castellote: Perceptual, cognitive and motor responses to contact heat stimuli	
C. Vollono: Prediction of clinical seizures by graph-theory analysis on interictal EEG abnormalities		G. Assenza: Efficacy Of Cathodal Transcranial Direct Current Stimulation in epilepsy: a proof of principle		S. Paramanthan: The CMAP stimulus-response curve in patients with inflammatory demyelinating polyneuropathies and normal subjects	
15:30 - 16:00					
Coffee break & Exhibition					
16:00 - 17:30					
Paralle Session 29		Paralle Session 30		Paralle Session 31	Educational Course EC-08
Biomarkers of epileptogenicity		Contemporary intraoperative motor evoked potential monitoring		Temporal dynamics of brain resting state networks	Transcranial Electric Stimulation -technique and applications
J. Jacobs: Rapid ripples in the surface: how to retrieve them and what do they tell us?		D. McDonald: When to warn – update on interpretation of MEP		V. Petkoski: On the non-stationary dynamic nature of the resting state	W. Paulus: tDCS
F. Pittau: Epileptogenic networks as identified by the fMRI		A.M. Husain: MEP facilitation		A. Ponce: Integration and Segregation of Information in the Brain	A. Antal: tACS/trNS
M. Seeck: Spikes in the scalp EEG: are they a good marker for epileptogenicity?		V. Deletis: D and I wave monitoring in spinal operations: update		J. Britz: The dynamics of EEG microstates	A. Priori: Spinal and cerebellar stimulation
F. Miraglia: Cortical connectivity in fronto-temporal focal epilepsy from EEG analysis: A study via graph theory		Y.L. Lo: The value of bilateral ipsilateral and contralateral motor evoked potential monitoring in scoliosis surgery.		F. Tecchio: . Brain functional connectivity at rest as similarity of neuronal activities	
S. Aurangzeb: EEG findings in a UK group of patients with anti-NMDAR encephalitis				A. Damborska: Local field potential power of subthalamic nucleus in human brain is not related to scalp EEG topography dynamics in rest	
17:30 - 19:00					
Paralle Session 32		Paralle Session 33		Paralle Session 34	Educational Course EC-12
Looking inside the brain: what EEG and MEG can and cannot see		Brainstem reflexes and functions. Clinical applicability		Controversy : Which is the most accurate evoked potential technique for the assessment of nociceptive pathways?	Non-invasive brain stimulation to understand disease pathophysiology and advance treatment
J. Gotman: EEG can sometimes see very small generators		M. Kofler: Blink reflex and prepulse inhibition in fibromyalgia		A. Truini: Laser evoked potentials	L.G. Cohen: Stroke
L. Koessler: Looking inside the brain: what EEG and MEG can and cannot see		J. Valls-Sole: The StartReact phenomenon in neurodegenerative diseases		J. Valls-Sole: Contact heat evoked potentials	R. Chen: Parkinson's disease
C. Michel: Similarities and differences in MEG and EEG fields topographies		S. Jääskeläinen: Neurophysiological tests for facial-trigeminal pain		Z. Katsarava: Electric Pain related evoked potentials	Z.J. Daskalakis: Psychiatric disorders
19:30					
Farewell Party					

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SATURDAY, OCTOBER 3, 2015

7:30 - 9:00	e-Poster Sessions (PS-04-01, PS04-02, PS04-03, PS04-04, PS04-05)	
	HALL 1	HALL 2
9:00 - 10:30	Plenary lecture V.- Neurophysiology of artificial limbs	
	S. Raspopovic: From artificial fingers to the nervous system of amputees: restoration of sensory feedback	
	P. Rossini: Neurophysiological experiences on amputees with bidirectional nervous control of artificial limbs	
	D. Farina: Decoding the neural drive to muscles for upper limb prosthesis control	
10:30 - 11:00	Coffee break & Exhibition	
11:00 - 12:30	Plenary lecture VI. - Music in the Brain	
	I. Rektor: Music and epilepsy	
	E. Altenmüller: Music as a driver for brain plasticity	
	T. Fritz: The clinical potential of music induced euphoria	
	S. Rossi: EEG changes for musicians in an ensemble.	
12:30	Closing Ceremony	