

XXVI CONGRESSO DELLA SOCIETÀ ITALIANA DI PSICOFISIOLOGIA E NEUROSCIENZE COGNITIVE

**15 - 17 Novembre 2018
Aula Magna della Cavallerizza Reale
Torino**



GIOVEDÌ 15 NOVEMBRE 2018

AULA MAGNA DELLA CAVALLERIZZA REALE / PLENARY SESSION

- 9:00 / 9:30 Apertura lavori e saluti delle autorità
- 9.30 / 11:30 **Simposio 1:**
TMS-EEG integrated approach: new perspectives in healthy and pathological brain research
Moderatori: G. Koch - A. Pisoni
- A. Pisoni: *Exploring tDCS-induced neurophysiological modulations by means of TMS-EEG*
G. Mattavelli: *Tapping the neural network of face processing with TMS-EEG*
M. C. Pellicciari: *From cortical characterization to functional reorganization in neurological patients: TMS-EEG evidence*
M. Rosanova: *TMS-EEG as a diagnostic tool for consciousness disorders*
- 11:30 / 12:00 **Lettura magistrale**
- The evolution of cognitive neurology: a personal view
C. Caltagirone
Introduce G. Koch
- 12:00 / 13.30 Comunicazioni orali libere 1
Moderatori: S. Rossi - V. Betti
- 13:30 / 14:00 Lunch

CAVALLERIZZA REALE - VELA

- 14:00 / 15:00 Sessione Poster 1
Moderatori: A. Cavallo - T. Bocci

PRINCIPI D'ACAJA

PARALLEL SESSION

- 15:00 / 16:15 **Simposio 2:**
Permanent or temporary sensory deprivation, models for the study of functional development
Moderatori: D. Bottari - F. Pavani
- D. Bottari: *Motion processing after sight restoration: No competition between visual recovery and auditory compensation*
F. Pavani: *Erp correlates of semantic and syntactic sentence processing in cochlear implant users*
M. Gori: *Hearing the visual rhythm and seeing the audio space: early cortical sensory responses in typical but not in blind and deaf individuals*

AULA MAGNA DELLA CAVALLERIZZA REALE

PARALLEL SESSION

15:00 / 16:15 **Simposio 3:**
VIRTUAL REALITY: from theoretical foundations to cognitive rehabilitation
Moderatori: K. Sacco - M. Neppi

I. Ronga: *How virtual reality may contrast the development of cognitive impairments: new directions in neuroscientific research for a sustainable welfare*

G. Tieri: *Wearing my virtual body: Immersive virtual reality studies of embodiment and their implications for rehabilitation*

F. Morganti: *The role of cardiac vagal tone during interpersonal interactions*

16:15 / 16:45 *Coffee break*

PRINCIPI D'ACAJA

PARALLEL SESSION

16:45 / 18:15 **Simposio 4:**
Visual and auditory praxic environment in the primate brain: space, objects and agents
Moderatori: L. Cattaneo - F. Di Russo

L. Bonini: *Representations objects for self and other's action in the monkey cortical motor system*

L. Cattaneo: *Mapping objects, space and effectors on the human cortical motor system*

C. Lega: *Auditory representations in the human cortical motor system*

L. Turella: *Neuroimaging evidence for multiple levels of abstraction in the human cortical motor system*

AULA MAGNA DELLA CAVALLERIZZA REALE

PARALLEL SESSION

16:45 / 18:15 **Simposio 5:**
Psychophysiology of neurodegenerative dementing disorders: brain (dys)function emerges
Moderatori: C. Babiloni - M. De Tommaso

C. Del Percio: *Cortical excitability as revealed by cortical EEG biomarkers in patients with Alzheimer's and Lewy Body dementing disorders*

M. Delussi: *Retting state EEG and event related potentials as biomarkers for HD*

A. Benussi: *Transcranial magnetic stimulation distinguishes Alzheimer disease from frontotemporal dementia*

AULA MAGNA DELLA CAVALLERIZZA REALE / PLENARY SESSION

18:15 / 18:45 **Lettura Magistrale**

Non invasive brain stimulation: from neurophysiology to treatment of neuropsychiatric disorders

V. Di Lazzaro

Introduce M. De Tommaso

19:00 *Cocktail Benvenuto!*



VENERDÌ 16 NOVEMBRE 2018

AULA MAGNA DELLA CAVALLERIZZA REALE / PLENARY SESSION

9:00 / 10:15

Simposio 6:

Body representations and embodiment during the lifespan in healthy participants and patients with visual or motor impairments

Moderatori: A. Serino - M. Gori

A. Serino: *Body and space representations in elderly controls and in chronic stroke patients with motor deficit*

M. Bassolino: *Peripheral and central contributions in triggering an illusory feeling of embodiment toward a virtual hand*

L. Cardinali: *Hand representation in children with and without visual impairment*

M. Franza: *Non-invasive brain stimulation to study the role of peripheral and central contribution in illusory embodiment*

10:15 / 10:35

Coffee break

10:35 / 12:15

Simposio 7:

Mechanisms of attentional control: the contributions of neuropsychology and cognitive neuroscience

Moderatori: F. Doricchi - L. Pia

C. A. Marzi: *Attention and consciousness*

L. Chelazzi: *Plasticity of priority maps of space: the role of reward and statistical learning*

G. Bottini: *Peripersonal space and body representation in healthy people and brain-damaged patients between attention and multisensory integration*

F. Doricchi: *Expectancy and attention*

12:15 / 12:45

Lettura Magistrale

Grasping and sensing the world with tools

A. Farnè

Introduce F. Garbarini

13:00 / 13:30

Lunch

CAVALLERIZZA REALE - VELA

13:30 / 14:30

Sessione Poster 2

Moderatori: F. Fattapposta - V. Betti

PRINCIPI D'ACAJA

PARALLEL SESSION

14:30 / 16:00 Simposio 8:
Representing the body in the plastic brain: insights from neurophysiological, developmental and clinical approaches

Moderatori: D. Romano - F. Garbarini

D. Romano: *Neurophysiological evidence of embodiment processes*

E. Nava: *Plasticity of the multisensory representation of the body in typical and atypical development*

A. Mioli: *Embodiment in technological interactions with (quasi-)anthropomorphic devices*

AULA MAGNA DELLA CAVALLERIZZA REALE

PARALLEL SESSION

14:30 / 16:00 Simposio 9:
**Psychophysiological update in children and adolescents
(in collaboration with the Italian Society of Infantile Neuropsychiatry - SINPIA)**

Moderatori: M. Valeriani - M. De Tommaso

F. Melani: *The contribution of event-related potentials to the functional assessment of the cerebral malformations*

S. Pro: *Psychophysiological assessment of the cognitive functions in pediatric primary headaches*

F. Costanzo: *Learning Disturbances in children: is there a role of the neurophysiological techniques?*

16:00 / 16:30 *Coffee break*

CAVALLERIZZA REALE - VELA

16:30 / 17:30 *Sessione Poster 3*
Moderatori: L. Craighero - F. Di Russo

AULA MAGNA DELLA CAVALLERIZZA REALE / PLENARY SESSION

17:30 / 18:00 *Assemblea dei soci*

18:00 / 19:30 *Comunicazioni orali libere 2*
Moderatori: G. Koch - S. Invitto

19:30 / 20:00 **Premio SIPF 2018**

“Uno, nessuno e centomila” voxels: from brain activation to information content

E. Ricciardi

Introduce M. De Tommaso

20:30 / 24:00 *Cena Sociale*



SABATO 17 NOVEMBRE 2018

AULA MAGNA DELLA CAVALLERIZZA REALE / PLENARY SESSION

- 9:00 / 10:15 **Simposio 10:**
Agent's and observer's motivational states (e.g., values, needs and attitudes) modulate motor resonance - Symposium in memory of Maurizio Gentilucci
Moderatori: L. Craighero - M. De Tommaso
- C. Urgesi: Observer's appetite influences the perception of the timing of reinforcement-oriented actions*
L. Craighero: Equal kinematics and visual context but different purposes: Observer's moral rules modulate motor resonance
G. Di Cesare: Vitality forms expressed by others modulate our own motor response
- 10:15 / 11:30 Comunicazioni orali libere 3:
Moderatori: N. Bolognini - F. Garbarini
- 11:30 / 11:45 *Coffee break/Sandwich corner*
- 11:45 / 13:00 **Simposio 11:**
Inhibitory control in perception, action and high cognitive functions. Evidence from neurophysiological and behavioral studies
Moderatori: S. Picazio - D. Veniero
- S. Picazio: Voluntary motor control in healthy participants and in patients with L-dopa induced dyskinesias*
D. Veniero: Ups and downs in cortico-cortical communication: brain oscillations in visual and motor system
S. Sdoia: Behavioral effects of high-level cognitive inhibition during rapid goal switching
- 13:00 / 13:45 **Premio SIPF Junior 2018**
In memoria di Enea Francesco Pavone
- 13:45 / 14:00 Premiazioni Poster e Comunicazioni orali

PRESENTAZIONI ORALI

GIOVEDÌ 15 NOVEMBRE 2018
12.00 / 13.30

COMUNICAZIONI ORALI LIBERE 1

T. Bocci

Cerebellar Direct Current Stimulation (ctDCS) for the treatment of painful and non painful phantom limb sensations (PLP).

E. P. Casula

Real-time assessment of embodiment-related brain dynamics: a TMS-EEG study in immersive virtual reality.

G. Coppola

Aberrant functional organization of cortical networks underpinning dynamic pain–cognition interactions at rest in patients with chronic migraine

A. D'Andrea

Exploring the role of phase synchronization: the recruitment of the attention network through the Superior Longitudinal Fasciculus

M. Diano

Superior Colliculus functional connectivity and changes in blindsight following V1 damage or hemispherectomy

E. Gentile

The investigation by fNIRS-LEPs of Motor Function and pain in Fibromyalgia

G. Guidali

The Supramarginal Gyrus: a neural storage for order information in Short-Term Memory

VENERDÌ 16 NOVEMBRE 2018
18.00 / 19.30

COMUNICAZIONI ORALI LIBERE 2

G. Lettieri

Perceived emotional experience explains brain activity elicited by an emotionally-charged movie in an independent sample

L. Marzetti

Functional connectivity methods to study large-scale synchronization in ongoing brain activity with MEG

L. Mencarelli

Network-targeted vs bifocal tDCS: effects on resting-state fMRI functional connectivity



A. Monti

Breathing avatars probe impact of respiratory, visual and spatial signals on bodily awareness

L. Padua

Cognitive Reserve: an index for the choice technologic or conventional rehabilitation

P. Papale

Unattended shape formation: coding of complex objects during passive viewing

K. Ricci

Evaluation of Gamma-band activity after painful cutaneous laser stimuli

SABATO 17 NOVEMBRE

10.15 / 11:30

COMUNICAZIONI ORALI LIBERE 3

M. Rocca

Wired actions: How the representation of others' upcoming movements shapes our kinematics

L. M. Sachelì

The predictive nature of human interactions in the ventral premotor cortex neurophysiology

P. Sarasso

The disinterested interest: aesthetic appreciation inhibits motor response

M. Scandola

Body representation modulates the perception of space for action after a Spinal Cord Injury

S. Spadone

Different rhythm modulations serve different mechanisms during reorienting of visuospatial attention

A. Zazio

Investigating cross-modal properties of the primary somatosensory cortex by means of a novel cross-modal Paired Associative Stimulation protocol

POSTER SESSIONS

GIOVEDÌ 15 NOVEMBRE 14.00 / 15.00

SESSIONE POSTER 1

Num Abstr.	Titolo	Presenter
1	The role of theta and alpha oscillations in prospective memory: an MEG study	Arcara, Giorgio
2	Connectivity alterations underlying the breakdown of pseudoneglect in Alzheimer's disease	Bagattini, Chiara
3	Modality-Specific Sensory Anticipation of Upcoming Events	Bianco, Valentina
4	Tool dependent motor imagery effects on primary motor cortex excitability in expert fencer	Biggio, Monica
5	Temporal and spatial features of interhemispheric information transfer in the motor system: a TMS-EEG and DTI study	Bortoletto, Marta
6	Neural oscillations involved in adopting Intentional Stance towards an artificial agent	Bossi, Francesco
7	Baseline levels of alertness determine tES effects more than age per se	Brignani, Debora
8	Illusory body experience in microgravity: the role of vestibular and proprioceptive inputs in shaping the sense of body ownership	Bruno, Valentina
9	How to collect genuine TEPs: a Graphical User Interface to control data quality in real-time	Casarotto, Silvia
10	The role of high and low spatial frequency in affective blindsight	Celeghin, Alessia
11	Cognitive functions of bodybuilders, the role of lactic acid	Coco, Marinella
12	Influence of Reward Interest on Tonic Pain Relief during Placebo Analgesia: Effects of EEG-Delta, and Heart Rate changes	De Pascalis, Vilfredo
13	Distraction suppression history biases oculomotor behaviour by shaping spatial attentional priority	Di Caro, Valeria
14	Electroencephalographic evidence of sustained spatial attention effects over anterior cortex: Possible contribution of the anterior Insula	Di Russo, Francesco
15	Evoked and Induced response analysis of Mismatch Negativity: an MEG study	Di Tomasso, Silvia
16	Body ownership modulation of multisensory integration: an fMRI study of visual enhancement of touch	Errante, Antonino



17	EEG evidence of atypical visual crowding in autism	Federici, Alessandra
18	Higher-order cognitive areas contribute to postural control in anticipating predictable and unpredictable lower limb perturbations	Federico, Quinzi
19	To deceive or to be deceived? The role of joint-action experience in the motor mapping of deceptive actions	Finisguerra, Alessandra
20	The purpose of lactate level detection in migraine and fibromyalgia	Proia, Patrizia

VENERDI' 16 NOVEMBRE 13.30 / 14.30

SESSIONE POSTER 2

Num. Abstr.	Titolo	Presenter
1	Effects of MRI acoustic noise on brain activity and connectivity measured with MEG	Arcara, Giorgio
2	An explorative study about the relationship between baropodometric parameters and Alexithymia in I and II occlusal classes people	Gentile, Ambra
3	Benefits of Yoga practice on body posture and on psychological and cognitive functions in children aged 8-10 years	Giustino, Valerio
4	Trait anxiety and postural balance: what possible correlation? Results from an integrated mind-body protocol	Messina, Giuseppe
5	Transcranial direct current stimulation and visuo-spatial contextual learning reveal homeostatic regulatory principles in the human posterior parietal cortex	Grasso, Paolo Antonino
6	Motor timing and time perception in children with Tourette Syndrome	Capuano, Alessandro
7	Low-Frequency rTMS of the Primary Motor Area Does Not Modify The Response Of The Cerebral Cortex To Phasic Nociceptive Stimuli	Pazzaglia, Costanza
8	Tonic thermonociceptive stimulation selectively modulates ongoing neural oscillations in the human posterior insula: evidence from intracerebral EEG	Liberati, Giulia
9	Dopamine neuromodulation affects cortical excitability in parkinson's disease patients set in quiet wakefulness: an electroencephalographic study	Lizio, Roberta
10	Tactile acuity as an index of plasticity induced by a novel cross-modal PAS protocol	Maddaluno, Ottavia
11	Can functional, anatomic and genetic connectivity influence the spread of structural brain alteration?	Manuello, Jordi

12	Interhemispherical co-activations, a meta-analytic approach to homotopic connectivity	Manuello, Jordi
13	Cerebellar tDCS improves proprioception in focal hand dystonia: preliminary results from a RHI study	Marotta, Angela
14	Stimuli, Presentation modality and load-specific brain activity patterns during n-back task	Mencarelli, Lucia
15	Hand Blink Reflex in virtual reality: the role of vision and proprioception in modulating defensive responses	Fossataro, Carlotta
16	The effect of social support on social pain: an fMRI study	Morese, Rosalba
17	The effect of complexity on pre- and post- stimulus phases in discriminative response task	Mussini, Elena
18	Mirror Neuron System and (dis)embodiment in Parkinson disease: preliminary fMRI findings	Palermo, Sara
19	Effects of aging on the attention networks functioning	Pauletti, Caterina
20	IL-6 alters amyloid- β homeostasis and synaptic plasticity, influencing cognitive functioning in Multiple Sclerosis	Stampanoni Bassi, Mario
21	The placebo effect on a motor learning task	Villa-Sánchez, Bernardo

VENERDI' 16 NOVEMBRE 16.30 / 17.30

SESSIONE POSTER 3

Num. Abstr.	Titolo	Presenter
1	The proprioceptive drift in the rubber hand illusion is influenced by the peri-hand space rather than the body midline	Marotta, Angela
2	Neural correlates underlying the comprehension of deceitful and ironic communicative intentions in schizophrenia	Morese, Rosalba
3	Gondola: An open source toolbox for fast and replicable brain network analysis	Arcara, Giorgio
4	Embodying action errors in virtual reality: preliminary EEG data on Parkinson's Disease	Pezzetta, Rachele
5	The topography of visually-guided grasping in the premotor cortex: a dense TMS mapping study	Pirruccio, Martina
6	ERP recording shows subclinical differences in ADHD patients with and without Tuberos Sclerosis	Pro, Stefano



7	Losing awareness during voluntary actions after virtual lesion of the premotor cortex	Puglisi, Guglielmo
8	Attenuation of real and illusory self-touch: an ERPs study	Pyasik, Maria
9	Near or far? Electrophysiological evidence of tool-use dependent spatial remapping in humans	Ronga, Irene
10	The rubber hand illusion induces pseudo tactile extinction in healthy subjects	Rossi Sebastiano, Alice
11	Dual tDCS of the Parietal Posterior Cortex prevents fatigue during near-threshold visual stimuli detection	Sarasso, Pietro
12	Predicting dream recall across lifespan: A comparison of oscillatory EEG activity between young and older subjects	Scarpelli, Serena
13	Sense of agency and obesity: evidence of the alteration of sensory attenuation mechanism in affected individuals	Scarpina, Federica
14	Differential contribution of spatial frequency information in the comprehension of naturalistic actions	Amoruso, Lucia
15	The role of movement kinematics in neural chain selection during action observation	Soriano, Marco
16	Cannabinoid receptor type 1 function affects mood homeostasis in multiple sclerosis	Stampanoni Bassi, Mario
17	Using TMS-EEG to better understand the effects of cathodal direct current stimulation on cortical excitability and connectivity	Varoli, Erica
18	Pain pathways dysfunction in patients with Fibromyalgia: a clinical, neurophysiological and skin biopsy evaluation	Vecchio, Eleonora
19	Improving balance control with the placebo effect	Villa- Sánchez, Bernardo
20	RP11-819C21.1 and ZNRD1-AS long non-coding RNA changes following painful laser stimulation correlate with laser-evoked potential amplitude habituation in healthy subjects	Vollono, Catello

Con il patrocinio di



Si ringraziano per il supporto

