

**XXXIII
CONGRESSO
NAZIONALE**



SOCIETÀ ITALIANA DI PSICOFISIOLOGIA E NEUROSCIENZE COGNITIVE

“THE ADAPTIVE BRAIN”

VERONA, 17-19 SETTEMBRE 2025

**Polo Zanotto,
Università di Verona**



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Michele Scandola, Università degli Studi di Verona

Workshop precongressuale

Evento non accreditato ECM

PROGRAMMA

IL CORPO IN MOVIMENTO: DALLE TECNOLOGIE DIGITALI ALLO SPORT PARALIMPICO E VICEVERSA

MARTEDÌ 16 SETTEMBRE

AULA T.2

CHAIRS:

Michele Scandola, Verona

Federico Schema, Verona

Valentina Moro, Verona

14.00-14.20 **APERTURA DEL WORKSHOP**

Mirta Fiorio, Verona, Presidente Congresso SIPF

14.20-14.40 **LA REALTÀ VIRTUALE PER LO STUDIO DELLA PLASTICITÀ DEI
SISTEMI SENSORI-MOTORI**

Alberto Gallace, Milano

14.40-15.00 **TECNOLOGIE INNOVATIVE PER L'ALLENAMENTO SIMULTANEO
DELLA MENTE E DEL CORPO DEGLI ATLETI**

Francesco Di Russo, Roma

15.00-15.20 **OGGETTI SMART E VIRTUAL COACHING: QUANDO LA
TECNOLOGIA DIVENTA MENTE ESTESA**

Graziano Pravadelli, Verona

15.20-15.40 **LE NUOVE TECNOLOGIE PER LA VALUTAZIONE E RIABILITAZIONE
DELLE FUNZIONI MOTORIE**

Marialuisa Gandolfi, Verona

15.40-16.15 **COFFEE BREAK**

16.15–16.45 **ADATTAMENTO E SPORT PER PERSONE CON DISABILITÀ: SFIDE E OPPORTUNITÀ NELLO SPORT PARALIMPICO**

Chiara Milanese e Valentina Cavedon, Verona

16.45–17.10 **PARALIMPIADI: INNOVAZIONE PER L'INCLUSIONE SPORTIVA**

Lorenzo Bortolan, Rovereto, Verona

17.10–18.30 **TAVOLA ROTONDA**

SPORT PARALIMPICO: POSSONO LE TECNOLOGIE AIUTARE A SUPERARE LE BARRIERE?

CHAIR: Marco Cambiaghi, Verona

INTRODUZIONE: Ruggero Vilnai, Comitato Italiano Paralimpico

Saranno presenti la guida alpina **Luca Montanari**, gli atleti paralimpici **Andrea Lanfri**, **Federico Crosara**, **Francesca Porcellato** e **Michele Ferrarin**

18.30 **COCKTAIL DI BENVENUTO**

Con il contributo della Commissione Terza Missione del Dip. Scienze Umane, della Commissione RUS, e del CUG dell'Università di Verona.

XXXIII CONGRESSO NAZIONALE SIPF PROGRAMMA

MERCOLEDÌ 17 SETTEMBRE

8.00–8.45 **REGISTRAZIONE E INTRODUZIONE**

8.45–10.00 **SIMPOSIO I – AULA T.2**

APATHY AND NEUROLOGICAL DISEASES: UNVEILING A FREQUENTLY UNDERESTIMATED SYMPTOM

CHAIR: Tommaso Bocci, Milano

Neuropsychological correlates of apathy in neurological diseases

Gabriella Santangelo, Milano

Role of the dopaminergic system and assessment of apathy in neurodegenerative diseases

Serena Oliveri, Caserta

Neurophysiological features of apathy in neurodegenerative disorders

Tommaso Bocci, Milano

8.45–10.00 **SIMPOSIO II – AULA T.1**

TRACING BRAIN EVOLUTION THROUGH FOSSILS AND DIGITAL MODELS

CHAIR: Alberto Arturo Vergani, Pavia

The shape of our mind: unravelling primate brain evolution with RRmorph

Carmela Serio, Napoli

Shaping minds, shaping stones. how tool use and brain lateralization shaped human cognition

Marina Melchionna, Napoli

Some like it hot, and smart. The evolutionary byproducts of the human brain shape

Gabriele Sansalone, Modena

10.00–10.30 **APERTURA LAVORI – AULA T.2**

10.30–11.15 LETTURA MAGISTRALE – AULA T.2

AS BELOW, SO ABOVE: VISCERAL PATHWAYS TO HIGHER-ORDER MENTAL FUNCTIONS

SALVATORE MARIA AGLIOTI, Roma

11.15–11.45 COFFEE BREAK – CHIOSTRO S. FRANCESCO

11.45–13.00 SIMPOSIO III – AULA T.2

A JOURNEY INTO BODY–BRAIN INTERACTIONS: HOW INTERNAL BODILY SIGNALS SHAPE CORTICAL PROCESSES

CHAIR: Elena Mussini, Milano

Balancing excitation and inhibition in the motor cortex: the role of cardiac phasic signals

Paolo Di Luzio, Colchester, UK

In the rhythm of action: How the heart drives motor processes at the cortical level

Elena Mussini, Milano

Heartbeat-evoked oscillations and connectivity: the role of respiratory phases and alpha power

Andrea Zaccaro, Chieti

11.45–13.00 SIMPOSIO IV – AULA T.1

MULTIMODAL COMPARATIVE CHARACTERIZATION OF THE HUMAN MOTOR SYSTEM

CHAIR: Luca Fornia, Milano

The human structural connectivity supporting object manipulation: evidences from direct electrical stimulation and diffusion tractography

Luca Viganò, Milano

Motor representations in the human cortico–spinal motor system

Luca Turella, Trento

Cross-species comparison of functional connectivity-based parcellation

Luciano Simone, Parma

13.00–14.15 PRANZO E SESSIONE POSTER I – Chiostro S. Francesco

14.15–15.30 SIMPOSIO V – AULA T.1

ADAPTING TO MOVE: BRIDGING COGNITION, PERCEPTION, AND MOTOR CONTROL

CHAIRS: Matteo Bertuccio, Verona – Marco Bove, Genova

The role of the ipsilateral hemisphere during unilateral finger movements of different complexity

Costanza Iester, Genova

Understanding the critical processes involved in the peripheral vision: The motor control of the fixational eye movements

Alessandro Piras, Bologna

Static and dynamic balance control mechanisms: The influence of training and cognitive-motor dual task

Giuseppe Marcolin, Padova

14.15 – 15.30 SIMPOSIO VI – AULA T.2

PREJUDICE, PROXEMIC SPACE AND SOCIAL ODOR: THE REPRESENTATION OF THE 'OUTSIDER' THROUGH AN EVOLUTIONARY-METaverse PSYCHOLOGY PERSPECTIVE

CHAIR: Sara Invitto, Lecce

Electrophysiological responses to chemosensory modulation: investigating implicit prejudice in a virtual reality metaverse

Sara Invitto, Lecce

Virtual reality exploration of explicit prejudices: chemosensory modulation in social decision-making

Carmelo Vicario, Messina

Implicit bias and chemosensory influence: analyzing prejudices through the implicit association test

Giuseppe Curcio, L'Aquila

15.30–16.45 ORAL COMMUNICATIONS – AULA T.1

CLINICAL, NEUROLOGY AND NEUROPSYCHOLOGY

CHAIRS: Claudio Babiloni, Roma – Nadia Bolognini, Milano

Preserved neuroplasticity in patients affected by Parkinson's disease responders to external auditory cueing strategies

Laura Avanzino, Genova

Modulating brain networks' connectivity in Alzheimer's disease with personalized rTMS: a feasible treatment paradigm?

Chiara Bagattini, Verona

A predictive tilt: age-related changes in the neural balance between sensory evidence and expectations

Margherita Covelli, Trento

Network reorganization after radiofrequency thermocoagulation in regions supporting conscious tactile perception

Maria Del Vecchio, Parma

Organizational principles of the cerebral cortex predict cognitive decline in the Alzheimer's Disease spectrum

Arianna Menardi, Padova

Neuroimaging phenotypes of sign- and goal-tracking in humans are associated with D2 antagonist response

Nicola Sambuco, Bari

15.30–16.45 ORAL COMMUNICATIONS – AULA T.2

SENSORIMOTOR AND BODY

CHAIRS: Annamaria Berti, Torino – Alessandro D'Ausilio, Ferrara

Intracranial responses to tactile stimulations during sleep

Davide Albertini, Parma

The interoceptive prediction error mediates the placebo effect on fatigue

Miriam Braga, Verona

Dissociable dynamics of corticospinal excitability and autonomic arousal in human threat conditioning

Daniela Dalbagno, Bologna

Electrophysiological evidence of the role of motor development in supporting visual body representation in infants

Mattia Galigani, Torino

Kinematic similarities as a core element for the efficiency of the Internal Forward Model

Camilla Maronati, Torino

(Dis)embodied lies: exploring the role of sense of ownership in dishonest behavior through immersive virtual reality and EEG

Giulio Piperno, Roma

16.45–18.00 **SIMPOSIO CONGIUNTO SIN-SIPF – AULA T.2**

THE MIND–BRAIN–BODY INTERACTION: THE CASE OF FUNCTIONAL NEUROLOGICAL DISORDERS

CHAIRS: Marina de Tommaso, Bari – Alessandro Padovani, Brescia

The phenomenology of functional motor disorders

Michele Tinazzi, Verona

Functional non-epileptic seizures

Francesco Brigo, Bolzano

Functional motor disorders: a mechanistic perspective

Roberto Erro, Salerno

The role of placebo mechanisms in the pathophysiology of functional neurological disorders

Angela Marotta, Verona

18.00–19.30 **WELCOME COCKTAIL E SESSIONE POSTER I – CHIOSTRO S. FRANCESCO**

GIOVEDÌ 18 SETTEMBRE

9.00–10.15 SIMPOSIO VII – AULA T.2

BRAIN STATE UNVEILED WITH TMS/EEG

CHAIR: **Leo Tomasevic**, Regensburg, DE

Unlocking brain dynamics: leveraging network-level states for tailored transcranial magnetic stimulation

Laura Marzetti, Chieti

Task modulation offers novel insights into TMS-evoked potentials

Agnese Zazio, Brescia

Transcranial evoked potential (TEP) of the primary motor hand area shaped by the shape of the mu rhythm

Leo Tomasevic, Regensburg, DE

9.00–10.15 SIMPOSIO VIII – AULA T.1

INTERNEURAL SYNCHRONY AS A MARKER OF SOCIAL ADAPTATION ACROSS SPECIES AND DEVELOPMENT

CHAIR: **Giacomo Novembre**, Genova

Inter-brain circuits of emotion recognition

Francesco Papaleo, Genova

Inter-neural co-regulation before and after an interactive perturbation in mother-infant dyads

Livio Provenzi, Pavia

Shared musical pleasure modulates prefrontal activity and inter-neural synchrony: an fNIRS hyperscanning study

Laura Ferreri, Pavia

10.15–11.00 PREMIO SIPF 2025 – AULA T.2

THE TONIC STORY: THE NEURAL DYNAMICS UNDERLYING CONSCIOUS PERCEPTION

PIETRO AVANZINI, Parma

11.00–11.30 COFFEE BREAK – CHIOSTRO S. FRANCESCO

11.30–12.45 **SIMPOSIO IX – AULA T.2**

MALADAPTIVE AGENCY EXPERIENCES IN NEUROPSYCHIATRIC DISORDERS: FROM EXPERIMENTAL DISSOCIATIONS TO CLINICAL MANIFESTATIONS

CHAIR: Laura Zapparoli, Milano

Dissecting the sense of agency in schizophrenia: systematic review and new experimental findings

Ileana Rossetti, Milano

An investigation of the experience of control through the sense of agency in people with obsessive-compulsive disorder

Davide Fausto Borrelli, Parma

Motor bodily illusion reveals altered body schema and implicit, but not explicit, sense of agency in functional motor disorder

Veronica Nisticò, Milano

11.30–12.45 **SIMPOSIO X – AULA T.1**

EMOTIONS DO NOT (ALWAYS) TAKE OURSELF CONTROL: UNVEILING THE LINK BETWEEN EMOTIONAL STIMULI AND BEHAVIORAL RESPONSES

CHAIR: Giovanni Mirabella, Brescia

Emotional expressions don't control you! Your reactions are shaped by your goals

Martina Montalti, Messina

Emotion regulation during development and brain plasticity in primates

Pierfrancesco Ferrari, Lyon, FR

The multiple pathways linking emotion and action under visual unawareness

Marco Tamietto, Torino

13.00–14.15 **PRANZO E SESSIONE POSTER II – CHIOSTRO S. FRANCESCO**

14.00–15.15 SIMPOSIO XI – AULA T.2

PLACEBO AND CONTEXTUAL EFFECTS: FROM PAIN TO MOTOR PERFORMANCE AND CLINICAL PRACTICE

CHAIRS: Elisa Carlino, Torino

Placebo, nocebo, and pain: the role of the predictive brain

Eleonora Camerone, Oxford, UK

Placebo and motor performance: central and peripheral components of fatigue modulation

Valeria Volpino, Torino

Contextual effects in musculoskeletal therapy: new evidence and clinical applications

Giacomo Rossetti, Verona

14.00–15.15 SIMPOSIO XII – AULA T.1

EARLY SOCIO-COGNITIVE DEVELOPMENT WHERE IT HAPPENS: NEURAL AND BEHAVIORAL INSIGHTS FROM INFANT-CAREGIVER INTERACTIONS AND NEURODEVELOPMENTAL RISK

CHAIR: Livio Provenzi, Pavia

The developing brain in a social context: exploring the relationship between exposure to caregivers' faces and neural correlates of infant attention

Anna Gui, Colchester, UK

Early Developmental pathways in infants at elevated likelihood for autism: towards an innovative biomarker approach to the study of social and non-social audiovisual processing

Valentina Riva, Bosisio Parini (LC)

The maternal brain as a place for nurturing infant stress regulation development: Exploring maternal frontal alpha asymmetry (FAA) across the still-face procedure

Miriam Paola Pili, Pavia

15.15–16.30 ORAL COMMUNICATIONS – AULA T.1

NEUROPHYSIOLOGY AND MISCELLANEOUS

CHAIRS: Marta Bortoletto, Lucca – Carlo Miniussi, Trento

Cortical markers of PAS-induced long-term potentiation and depression in the motor system: A TMS-EEG registered report

Eleonora Arrigoni, Milano

Exploiting iconic memory via a partial report paradigm to reveal distinct perceptual and post-perceptual electrophysiological dynamics

Davide Bonfanti, Verona

EEG Microstates as markers of brain adaptation to Mindfulness-Based Stress Reduction

Teresa L'Abbate, Chieti

Early theta activity preceding cortical down-states is a crucial modulator of slow oscillatory-spindle dynamics in human non-rem sleep

Federico Salfi, L'Aquila

Saccadic dysmetria: digital evidence of cerebellar loss of transmission fidelity and timeliness across the schizophrenia continuum

Alberto Vergani, Pavia

Adaptive control in the brain: neural dynamics of flexibility and stability on task-set representations

Giada Viviani, Padova

15.15–16.30 ORAL COMMUNICATIONS – AULA T.2

COGNITION, EMOTION AND SOCIAL

CHAIRS: Salvatore Maria Aglioti, Roma – Francesca Garbarini, Torino

Fast Periodic Visual Stimulation highlights health-related neural processing: the role of depression and pain threshold

Paola Castellano, Bologna

Bridging feeling and motion: insula – premotor dynamics in the processing of action vitality forms

Giuseppe Di Cesare, Parma

TMS reveals how the cerebellum interacts with cortical social regions in supporting emotion discrimination

Chiara Ferrari, Pavia

Reducing gastric rhythm via tVNS mitigates the effects of disgust inductions on moral emotions and behavior

Maria Serena Panasiti, Roma

The causal role of the parietal cortex in the integration of expectations into metacognitive judgments

Anna Pasini, Bologna

Causal enhancement of feedback connectivity in the action observation network improves prediction of observed human actions

Sonia Turrini, Bologna

16.30-17.00 **COFFEE BREAK E SESSIONE POSTER II – CHIOSTRO S. FRANCESCO**

17.00-17.30 **PREMIO SIPF JUNIOR E PREMIO SIPF-ITRN – AULA T.2**

17.30-18.00 **ASSEMBLEA SOCI SIPF – AULA T.2**

18.00-19.45 **VISITA GUIDATA PRESSO MUSEO CASTELVECCHIO (su prenotazione)**

20.00 **CENA SOCIALE**

VENERDÌ 19 SETTEMBRE

9.00–10.15 SIMPOSIO XIII – AULA T.4 MEGALIZZI

NOVEL VIEWS ON THE NEUROSCIENCE OF REACHING AND GRASPING MOVEMENTS

CHAIR: Luigi Cattaneo, Trento

Quantitative causal characterization of the grasping and reaching networks' anatomy in humans: evidence from brain lesions

Luigi Cattaneo, Trento

The role of the posterior parietal cortex in reaching and grasping corrections

Rossella Breveglieri, Bologna

Neural latent variables in the monkey posterior parietal cortex

Stefano Diomedì, Bologna

9.00–10.15 SIMPOSIO XIV – AULA T.5 CAPRIOLI

INTEROCEPTION IN NEUROLOGICAL AND NEUROPSYCHIATRIC PATIENTS

CHAIRS: Maddalena Beccherle, Verona – **Gerardo Salvato**, Pavia

The contribution of thermosensory signals to bodily awareness

Gerardo Salvato, Pavia

Affective touch modulates the sense of body ownership

Laura Crucianelli, London, UK

Interoception and corporeal awareness in Spinal Cord Injuries

Maddalena Beccherle, Verona

10.15–11.00 LETTURA MAGISTRALE: – AULA T.5 CAPRIOLI

THE CONTRIBUTION OF NEUROPSYCHOLOGY TO THE STUDY OF COGNITIVE PROCESSES: FROM CLINICAL DATA TO MENTAL MODELS

ANNAMARIA BERTI, Torino

11.00–12.00 COFFEE BREAK E POSTER SESSION III – CHIOSTRO S. FRANCESCO

12.00–13.15 **SIMPOSIO XV – AULA T.4 MEGALIZZI**

PLASTICITY IN EARLY AND LATE BLINDNESS: FROM VISION TO COGNITIVE MAPS

CHAIRS: Maria Concetta Morrone, Pisa – Silvia Savazzi, Verona

Functional reorganization in visual networks: Insights from inherited retinal dystrophies

Chiara Mazzi, Verona

Remodeling of visual areas in late blind patients with retinal prosthesis

Maria Concetta Morrone, Pisa

Navigating knowledge in sighted and blind. Insights on the ontogenetic development of hippocampal cognitive maps

Roberto Bottini, Trento

12.00–13.15 **SIMPOSIO XVI – AULA T.5 CAPRIOLI**

THE BIOLOGICAL CORRELATES OF INTERPERSONAL ADAPTATION: MEASURING NEUROPHYSIOLOGICAL SYNCHRONY IN SOCIAL INTERACTIONS ACROSS VARYING LEVELS OF COMPLEXITY

CHAIRS: Sarah Boukarras, Roma – Federico Rossano, Roma

Physiological signals synchronize interpersonally through mere visual contact and touch

Atesh Koul, Genova

The role of physiological synchrony in trust and cooperation during dyadic interactions

Fabiola Diana, Leiden, NL

Interpersonal brain synchrony in social bonds: the role of interpersonal closeness and social interactivity

Alessandro Carollo, Trento

13.15–13.45 **PREMIO MIGLIOR CONTRIBUTO SCIENTIFICO – AULA T.5**

13.45–15.00 **PRANZO E POSTER SESSION III – CHIOSTRO S. FRANCESCO**

15.00 **CHIUSURA DEI LAVORI E COMPILAZIONE QUESTIONARIO ECM**

POSTER I

MERCOLEDÌ 17 SETTEMBRE

1. Mu rhythms reveal plasticity-driven reorganization in the Action Observation Network of brain tumor patients: A longitudinal study
Lucia Amoruso (San Sebastian)
2. Title
Merve Aydin, G. Di Martino, C. Della Valle, E. Iuliano, A. Di Cagno, L. Boccacci, A. Casella, B. Di Bello, M. Filosa, E. Dybeli, F. Di Russo (Roma, Campobasso, Verona, Novedrate, Elbasan)
3. Characterizing cortico-cortical connectivity in brain tumor patients: insights from a TMS-EEG investigation
Chiara Bagattini, E. Bertacco, N. Cardobi, A. Boaro, S. Savazzi, F. Sala, C. Mazzi (Verona)
4. Probing contextual modulation of social predictive mechanisms in typical and atypical development
Valentina Bianco, S. Boscarol, G. Garghetti, V. Oldrati, A. Ciricugno, R. Romaniello, L. Farinotti, A. Finisguerra, R. Borgatti, C. Urgesi (Parma, Udine, Pavia, Lecco)
5. Cognitive profiles of subjective cognitive decline: a data-driven approach
Elisa Bortolin, S. Mazzeo, S. Boveri, G. Bruschi, E. Girani, A. Bombaci, F. Pozzi, M. Corbari, F. Agosta, M. Filippi, M. Salsone (Milano)
6. Neuropsychological functions are influenced by cholesterol levels in REM sleep behavior disorder: A Pilot Study
Giulia Bruschi, A. Castelnuovo, S. Marelli, S. Mazzeo, E. Bortolin, F. Pozzi, A. Bombaci, F. Casoni, F. Agosta, M. Filippi, L. Ferini-Strambi, M. Salsone (Milano)
7. How much does stress cost? Higher vagally mediated heart rate variability during a cognitive task differentiates anxiety people from controls
Daniele Chirco, S. Guidotti, C. Pruneti (Parma)
8. Electrophysiological signals of suppressed proactive and reactive brain processing in post-traumatic stress disorder patients
Raffaele Costanzo, B. Di Bello, N. Ferrulli, M. Filosa, M. Bevacqua, F. Strappini, V. Sulpizio, F. Di Russo, S. Pitzalis (Roma, Campobasso)

9. Paired associative stimulation for visual cortical plasticity: timing-dependency and hemispheric lateralization
Francesca Crespi, G. Guidali, E. Arrigoni, N. Bolognini (Monza, Milano)
10. Electroencephalographic neural activity during motor execution, imagery, and observation tasks in individuals with Progressive Multiple Sclerosis
Mauro Crestani, M. Fiorio, I. Lozzi, A. Marotta, E. Ceccarelli, A. Pasini, F. Salaorni, A. Gajofatto, R. Orlandi, N. Smania, M. Gandolfi (Verona)
11. Rethinking cognitive reserve in fMRI research: an investigation on the neural consistency of proxy measures
Annachiara Crocetta, J. Manuello, D. Liloia, T. Costa, S. Duca, F. Cauda (Torino)
12. From spatial attention to emotional processing: the effect of prismatic adaptation on alexithymia in Parkinson's disease
Laura Culicetto, E. Gjonaj, V. Lo Buono, S. Dattola, M. De Cola, L. Bonanno, S. De Salvo, N. Muscarà, F. Giambò, C. Formica, C. Sorbera, A. Brigandì, G. Di Lorenzo, A. Quartarone, S. Marino (Messina)
13. Behavioural exploration of motor decision-making process in the speed-accuracy trade-off
Anoud Alawneh, M. Emadi Andani, M. Braga, A. Marotta, M. Tinazzi, M. Bertucco, M. Fiorio (Verona)
14. Emotion-driven modulation in attentional engagement: a dot-probe task study in healthy individuals
Giulia Amicucci, F. Salfi, F. Naccarato, L. Viselli, D. Corigliano, F. Festucci, D. Tempesta, M. Ferrara, A. D'Atri (L'Aquila)
15. Behavioural and neural substrates of engagement perception during action observation
Edoardo Arcuri, M. Ardizzi, V. Gallese, C. Keysers, V. Gazzola (Parma, Amsterdam)
16. The influence of verbal suggestions on cognitive performance in older adults: investigating placebo and nocebo effects in an online experiment
Alessandra Barbon, B. Villa-Sanchez, M. Fiorio, S. Asseconi, V. Mazza (Rovereto, Tempe, Verona)
17. Cognitive control meets cultural neuroscience: inhibitory control is shaped by face race
Viola Benedetti, P. de Lissa, F. Giovannelli, G. Gavazzi, R. Caldara, M. Viggiano (Firenze, Fribourg)

18. Testing transfer entropy to characterize the emergence of phosphenes perception
Elena Bertacco, Y. Okazaki, S. Savazzi, C. Mazzi, K. Kitajo (Verona, Okazaki)
19. Predictive cognitive brain processing of frail older adults
Luca Boccacci, M. Scalia, R. Borzuola, V. Camomilla, C. Fossati, F. Galli, A. Macaluso, F. Pigozzi, S. Pitzalis, A. Zelli, F. Di Russo (Roma)
20. Probing pre-target brain states with a modified Attention Network Test: an EEG study
Arianna Brancaccio, M. De Matola, L. Marzetti, V. Pizzella, C. Miniussi (Trento, Chieti)
21. Affective touch is preserved in visual deprivation
Giulia Cappagli, M. Guarischi, G. Catalano, S. Signorini, M. Gori (Genova, Pavia)
22. The effect of sport-specific cognitive-motor dual-task training in virtual reality for soccer players on cognitive performance and related brain processing
Andrea Casella, C. Panacci, M. Filosa, M. Aydin, L. Boccacci, S. Pitzalis, F. Di Russo (Roma)
23. Echoes of learning: auditory and crossmodal development from birth to adulthood
Nicolò Castellani, K. Poles, B. Italia, A. Rossi Sebastiano, S. Salis, C. Peila, A. Coscia, D. Bottari, F. Garbarini (Lucca, Torino)
24. Functional connectivity alterations in the human brain following short-term exposure to simulated microgravity
Antonio Cataneo (Venezia)
25. Cognition under load: exploring the cognitive impact of exoskeleton use in a mixed reality dual-task framework
Maria Lucia Cavallo, A. Piol, G. Valli, E. Scalona, A. Shams, T. Varrecchia, R. Ranavolo, E. Sala, N. Lopomo, F. Negro, D. Brignani, L. Falciati (Brescia, Milano)
26. The vestibular system and the bodily Self: insight from Galvanic Vestibular Stimulation
Samuel Cento, R. Gammeri, T. Ciorli, L. Pia, A. Berti, R. Ricci (Torino)
27. Enhancing action inhibition in older adults via non-invasive stimulation of the PMv-M1 network
Paolo Di Luzio, A. Sel, D. Falaschi, M. Dumitrana (Colchester)

28. From action goals to social interactions: neural dynamics of intentionality processing
Maria Arioli, A. Manini, Z. Cattaneo, N. Canessa (Milano, Pavia, Bergamo)
29. Together we sync: A systematic review of fMRI hyperscanning studies
Tommaso Berni, L. Sacheli, M. Tettamanti, E. Paulesu, L. Zapparoli (Milano)
30. Navigating social space in face perception: spatial representation of gender and dominance categories
Valentina Ciot, M. Pyasik, A. Finisguerra, C. Urgesi (Udine, Trieste, Pasion di Prato, Roma)
31. Cerebellar oscillations during others' mental states inference: an EEG-guided High-Definition transcranial alternate current stimulation (tACS) study
Andrea Circugno, C. Ferrari, R. Borgatti, Z. Cattaneo (Pavia, Bergamo)
32. A window into the maternal mind: adaptive changes in maternal functional connectivity during mother-infant interaction
Antea D'Andrea, A. Basti, M. Spinelli, D. Lucarelli, V. Pizzella, M. Fasolo, L. Marzetti (Chieti, Pescara)
33. Functional network for recognition of static emotional faces
Beatrice De Negri, M. Del Vecchio, P. Avanzini, S. Costa, F. Zauli, P. D'Orio, I. Sartori, M. Gerbella, F. Caruana (Parma, Milano)
34. Frontal theta transcranial alternating current stimulation (tACS) modulates oculomotor interference driven by political conflicts in conservative and liberal participants
Biagio Dell'Omo, G. Ponsi, S. M. Aglioti, G. Fusco (Roma)
35. Dorsolateral prefrontal cortex stimulation via accelerated rTMS in huntington's disease: effects on executive and social cognition outcomes – an EEG study
Marianna Delussi, E. Ladisa, C. Abbatantuono, E. Ammendola, G. Tancredi, G. Paparella, G. Paparella, E. Brattico, M. de Tommaso (Bari, Pozzilli)
36. Immediate TMS-EEG responses and their relationship with motor cortex excitability
Guido Barchiesi, A. Stango, A. Zazio, N. Bonfiglio, E. Dognini, E. Marcantoni, M. Bortoletto (Milano, Brescia, Glasgow, Lucca)

37. Does the impact of reward expectation on movement vigor depend on postural constraints?
Matteo Bertucco, A. Garofolini, G. Costa, C. Venturini, A. Ahmed (Verona, Melbourne, Boulder)
38. Probing the link between central and autonomic markers of error processing via Midfrontal Theta transcranial Alternating Current Stimulation (MF θ - tACS)
Sarah Boukarras, V. Placidi, S. Aglioti, G. Fusco (Roma, Camerino)
39. The neural dynamics of prospective remembering: an hidden markov model analysis of a pseudonaturalistic paradigm
Davide Buzzi Reschini, S. Vicentin, P. Santacesaria, L. Toffoli, G. Cona (Verona, Padova)
40. The role of non-phase alpha activity in modulating visual discrimination based on expectation
Rocío Caballero Díaz, L. Tarasi, E. Sarrias-Arrabal, M. Vazquez-Marrufo, V. Romei (Siviglia, Cesena, Cadiz)
41. Skin conductance responses in disorders of consciousness: an exploratory study using autoregressive modeling
Davide Cardile, D. Mollaioli, M. Trebbia, C. Vicario, F. Corallo, C. Rifici, R. S. Calabrò, F. Tomaiuolo (Messina)
42. An #EEGManyLabs study to test the role of the alpha phase on visual perception
Fabrizio Carusi, M. Cavallo, A. Zazio, L. Falcianti, D. Brignani (Brescia)
43. Disentangling awareness and report: ERP evidence from a no-report paradigm
Nicola Ciavatti, E. Colombari, I. Siviero, A. Pascarella, S. Storti, S. Savazzi, C. Mazzi (Verona)
44. Clinical and neurophysiological effects of accelerated iTBS on the dorsolateral prefrontal cortex in chronic refractory migraine
Livio Clemente, G. Paparella, s. Scannicchio, C. Abbatantuono, G. Tancredi, E. Ladisa, M. Delussi, E. Ammendola, M. Prudeniano, M. de Tommaso (Bari)
45. Disentangling perceptual awareness from post-perceptual processes through response manipulation: a fast optical imaging investigation
Elisabetta Colombari, G. Parisi, S. Mele, C. Mazzi, S. Savazzi (Verona)
46. A home-based paradigm of phase-targeted auditory stimulation during human sleep
Domenico Corigliano, F. Salfi, G. Amicucci, S. Mombelli, J. Axelsson, A. Dâ€™Atri, M. Ferrara (L'Aquila, Montreal, Stoccolma)

47. Machine learning-based detection of transcranial evoked potentials: towards fully automated TMS-EEG analyses
Matteo De Matola, C. Miniussi, M. Bortoletto (Rovereto, Lucca)
48. The role of the supplementary motor complex in respiratory-motor synergies. A pilot study using repetitive transcranial magnetic stimulation
Nunzia Valentina Di Chiaro, D. Amodeo, M. Tagliaferri, V. Di Caro, F. Sala, L. Cattaneo (Trento, Verona)
49. Influence of high-groove and emotion-related music on corticospinal and intracortical excitability and inhibition of human motor cortex. A transcranial magnetic stimulation study
Fabrizio Di Giovanni, G. Gambino, I. Giardina, P. Sardo, G. Giglia (Palermo)
50. The role of EEG Mu-Rhythms in modulating corticospinal excitability during action observation: An EEG-TMS study
Maria Chiara Bazzini, R. Rossi, A. Mancuso, L. Ferrari, A. Nuara, M. Fabbri-Destro, P. Avanzini (Parma, Camerino)
51. Tracking the fear: eye movements predict the occurrence of pain at specific bodily locations
Valentina Bernardi, G. Li Pira, V. Mannari, D. Dalbagno, S. Betti, V. Tuozzo, S. Garofalo, G. di Pellegrino, F. Starita (Bologna, Cesena, Padova)
52. Too hot or too cold? Human thermal sensitivity and physiological adaptations to environmental temperature
Margherita Bisaglia, L. Battistel, M. Zampini, R. Parin (Rovereto, Bolzano)
53. Event-related evoked potentials reveal the placebo-induced modulation of the interplay between cognitive processing and motor preparation
Miriam Braga, I. Lozzi, A. Marotta, M. Berchicci, M. Emadi Andani, M. Fiorio (Verona, Chieti)
54. Resting-state EEG reveals an age-dependent placebo effect
Miriam Braga, I. Lozzi, M. Emadi Andani, M. Fiorio (Verona)
55. Peripersonal space and interpersonal distance in overgrowth syndromes: how altered body experience affects action and social spaces
Niccolò Butti, R. Montiroso, A. Cartaud, Y. Coello, C. Urgesi (Lecco, Lille, Udine)

- 56. How the absence of vision shapes the boundaries of peripersonal space: insight from multisensory integration and defensive behavior
Nicolo Castellani, R. Frinco, C. Fossataro, C. Tinti, F. Garbarini (Lucca, Torino)
- 57. Personalized 360°-VR Video-Based Action Observation Training Enhances Performance in Elite Basketball: A Case Study
Alessandro Ciruolo, P. Presti, P. Avanzini, M. Fabbri-Destro (Parma)
- 58. Short-term motor learning based on observation-imitation of fully visible or point-light displays models of complex digit sequences
Giuseppe Ciullo, A. Errante, A. Piras, E. Sicuri, R. Guarino, L. Fogassi (Parma)
- 59. Finger kinematics reveal individual motor signature at the microscopic level
Cecilia Gabelli, L. Fadiga, A. D'Ausilio, A. Tomassini (Camerino, Ferrara)

POSTER II

GIOVEDÌ 18 SETTEMBRE

60. L-Dopa and STN-DBS modulate the neural encoding of rhythmic auditory stimulation in Parkinson's
Antonio Criscuolo, M. Schwartz, J. Schwarz, K. Strecker, S. Hesse, S.A. Kotz (Maastricht, Ebersberg, Bad Lausick, Leipzig)
61. Bridging brain and behavior in Developmental Dyscalculia: a combined EEG and neuropsychological study
Paolo Enrico, C. Meloni, R. Fanari, F. Zorzi, I. Paoli, F. Canu, B. Mercante (Sassari, Cagliari, Palermo)
62. Cerebral Plasticity in post-stroke patients: applications of High Density EEG and Mirror Therapy
Caterina Formica, E. Gjonaj, S. Dattola, F. Arcadi, S. Marino, A. Quartarone, S. De Salvo (Messina)
63. Tango ergo moveo. The role of somatosensory perception in fine motor skills learning ability through AOT: an EEG study
Alice Giorgi, M. Del Vecchio, M. Fabbri Destro, A. Errante, L. Fogassi, P. Avanzini (Parma)
64. EEG study: effects of tactile and thermal stimulation in disorder of consciousness patients
Elvira Gjonaj, C. Formica, S. Dattola, S. Marino, A. Quartarone, S. De Salvo (Messina)
65. What am I grasping? Deepening cortical and corticospinal spatiotemporal dynamics underlying grasping observation
Giacomo Guidali, E. Arrigoni, A. Pisoni, N. Bolognini (Milano)
66. Promoting post-rehabilitation adaptation by enhancing motor and cognitive skills through neuropsychological and kinesiological training supported by sEMG-biofeedback: a case study
Sara Guidotti, A. Fiduccia, D. Chirco, S. Drovandi, A. Barattero, C. Pruneti (Parma)
67. Differences in the muscle tension recovery value after a subjective stressor of between patients with tension-type headache and migraine: a comparative study
Sara Guidotti, A. Fiduccia, D. Chirco, E. Carli, A. Barattero, S. Drovandi, P. Torelli, C. Pruneti (Parma)

68. "It's all under control": Description of the dissociation between psychological symptoms and autonomic arousal in people with obsessive-compulsive symptoms. A case-control study
Sara Guidotti, A. Fiduccia, D. Chirco, E. Carli, C. Pruneti (Parma)
69. Biased processing of emotional body language in borderline personality disorder: evidence from eye-tracking
Nunzio Langiulli, M. Gerra, M. Calbi, V. Gallese, C. De Panfilis (Parma, Milano)
70. TMS-EEG based differentiation of Primary Progressive Aphasias
Francesco Lomi, S. Santicioli, S. Casarotto, G. Hassan, A. Giannotta, C. Smeralda, F. Neri, L. Monti, A. Jafarov, G. Stramucci, S. Padiglioni, S. Mazzeo, V. Moschini, V. Bessi, S. Rossi (Siena, Milano, Espoo, Firenze)
71. Altered EEG microstates dynamics in functional neurological disorders: a potential biomarker
Irene Lozzi, C. Concetti, M. Braga, N. Stoffel, M. Mouthon, M. Tinazzi, M. Fiorio, S. Aybek (Verona, Fribourg)
72. Proton magnetic resonance spectroscopy in parkinson's disease patients with and without cognitive and olfactory impairment
Giulia Marafioti, L. Bonanno, F. Caminiti, M. Caporlingua, J. Castellano, R. Morabito, C. Sorbera, R. Ciurleo (Messina)
73. AI-driven innovations for the diagnosis, monitoring, and accurate staging of alzheimer's disease: TRACE4AD™ tool
Giuseppa Maresca, A. Marra, C. Salvatore, S. Aresta, A. Quartarone, I. Castiglioni, L. Bonanno (Messina, Pavia, Milano)
74. Unraveling the link between sensory attenuation and fatigue: New evidence from functional movement disorders
Angela Marotta, E. Pizzolla, M. Fasoli, M. Emadi Andani, I. Lozzi, A. Sandri, M. Gandolfi, M. Tinazzi, M. Fiorio (Verona)
75. Could intermittent theta burst stimulation positively affect cortical spinal excitability in parkinson's disease?
Martina Mendo, C. Barbi, A. Paterno, I. A. Di Vico, M. Tinazzi, F. Schena, M. Venturelli (Verona)
76. Consequences of normobaric hypoxia on cognitive functions: a systematic review
Francesco Mori, A. Modena, M. Gobbo, D. Brignani, L. Falciati (Brescia)
77. Frequency- and phase-dependent tACS modulates fronto-parietal dynamics during performance monitoring
Gabriele Fusco, S. Petkovic, F. Nobiloni, C. Urgesi (Roma, Camerino)

78. Functional and structural connectivity of the frontal gyrus involved in executive control
Federica Groppi, V. Cordari, G. Puglisi, A. Leonetti, L. Viganò, M. Rossi, L. Bello, L. Simone (Parma, Milano)
79. Cognitive reserve and cognitive functioning in a cohort of centenarians living in Liguria: A gender-based evaluation
Carlotta Gualco, C. Chiorri, N. Reale, C. Solaro, L. Mazzella, C. Ivaldi, L. Camia, U. Tortorolo, M. Stella, F. Mattioli, M. Del Sette, E. Di Maria (Genova)
80. A gamified approach to improve cognitive control: a preliminary study
Serena Malloggi, V. Benedetti, G. Gavazzi, G. Gronchi, S. Righi, F. Giganti, F. Giovannelli, M. Viggiano (Firenze)
81. Electrophysiological correlates of risky decision-making with food and monetary reward
Giulia Mattavelli, I. Gorrino, C. Gianelli, N. Canessa (Pavia, Messina)
82. Cortical activation during a Simon-Stroop task: a preliminary fNIRS study in young adults
Sara Molfese, C. Manco, G. Cipriani, N. Canessa, V. Volpino, E. Carlino, A. Piedimonte, M. Amanzio (Torino, Pavia)
83. Action prediction over and above mere action observation
Margherita Adelaide Musco, G. Tomasetig, E. Paulesu, L. Sacheli (Milano)
84. Phase-based neuromodulation of conflicting religious and non-religious representations: a transcranial Alternating Current Stimulation (tACS) study in believer and non-believer participants
Francesca Nobiloni, B. Dell'Omo, G. Ponsi, S. M. Aglioti, G. Fusco (Camerino, Roma)
85. Joint problem-solving: an EEG hyperscanning study
Chiara Noferini, A. Scaglione, G. Gavazzi, F. Giovannelli, M. P. Viggiano, F. S. Pavone (Firenze)
86. Effects of self-administered bilateral stimulation on emotional regulation and state anxiety in University Students: an ERP study
Margherita Filosa, C. Panacci, L. Boccacci, B. Di Bello, A. Casella, M. Aydin, F. Strappini, S. Pitzalis, F. Di Russo (Roma)
87. Heart-brain dynamics in physical and moral disgust: a heartbeat-evoked potential study
Maria Rebecca Manzo, G. Vecchiato, A. Vecchio, S. Ciccarone, V. Era, G. Porciello, S. Aglioti, M. Panasiti (Parma)

88. Decrease in nose tip temperature as an index of stress during a public speaking task: a thermal imaging study in a workplace setting
Francesca March, A. Frisanco, S. Aglioti, F. Bianchi, D. Ferri, S. Boukarras (Roma)
89. The role of goal-relevance in emotional processing: a meta-analysis of behavioral responses
Valentina Maselli, G. Mirabella (Brescia)
90. Investigating state anxiety and emotional reactivity in University Students: neurophysiological effects of alternating bilateral stimulation
Camilla Panacci, L. Boccacci, M. Filosa, R. Costanzo, A. Casella, B. Di Bello, S. Pitzalis, F. Di Russo (Roma)
91. Beyond visual cues: The proprioceptive path to size constancy
Elena Franchin, S. Mele, A. Benamati, P. Cesari, I. Sperandio, C. Mazzi (Verona, Rovereto)
92. Education shapes the link between EEG aperiodic activity and cognitive aging
Sara Lago, S. Zago, S. Montemurro, R. Calabrò, M. Maggio, S. Dattola, I. Casetta, G. Arcara (Venezia, Padova, Messina)
93. Investigating the state dependency of interhemispheric interactions - a TMS-EEG study
Cora Miranda Lanza, A. Brancaccio, S. Schintu (Rovereto)
94. Metric expectations drive auditory-motor connectivity: a combined TMS-EEG study
Giorgio Lazzari, C. Spiech, O. Bedford, M. Farres-Franch, V. Penhune, C. Lega (Pavia, Montreal)
95. TMS pulse waveform and current direction modulate induced functional connectivity
Delia Lucarelli, G. Guidali, R. Guidotti, G. Pieramico, N. Bolognini, G. Romani, V. Pizzella, L. Marzetti (Chieti, Milano, Pescara)
96. Short-term simulated microgravity alters EEG spectral power and functional connectivity in the default mode network
Serafino Paolo Mansueto, M. Marino, A. Cataneo, A. Angrilli (Padova)
97. When the brain slows down: EEG and cognitive insights from alzheimer's patients and boxers
Carlo Manzoni, A. De Sandi, N. Maiorana, R. De Donato, D. Mellace, E. Bondi, B. Ticozzelli, M. Scarfi, L. Mattioli, M. Vergari, T. Bocci, A. Marfoli, S. Marceglia, S. Mrakic Sposta, A. Arighi, F. Cogiamanian, A. Priori, R. Ferrucci (Milano, Verona)

98. Electrophysiological correlates of different body postures on the default mode network
Marco Marino, Z. Romeo, C. Begliomini, M. Corbetta, D. Mantini, C. Spironelli (Padova, Leuven)
99. Neural processing of hue contrast in two-color combinations
Giovanni Mazzaferri, M. Costa (Bologna)
100. Does REM sleep Fragmentation affect micro- and macro-structure features of Slow Wave Sleep?
Federica Naccarato, L. Viselli, F. Festucci, F. Salfi, G. Amicucci, D. Corigliano, C. Colombo, D. Tempesta, N. Cellini, M. Ferrara, A. D'Atri (L'Aquila)
101. Constructing reality: neural mechanisms of perceptual awareness in face pareidolia
Giorgia Parisi, E. Colombari, C. Mazzi, S. Mele, S. Savazzi (Verona)
102. A comparison of visuomotor-Paired Associative Stimulation and Action Observation in driving human motor cortex plasticity
Laura Ferrari, G. Guidali, M. Picardi, N. Bolognini, N. Nuara, M. Fabbri-Destro, P. Avanzini (Parma, Milano)
103. Dealing with the world close to our body. Defining peripersonal space plasticity
Francesca Ferroni, F. Rastelli, N. Langiulli, L. Sergey Rinaldi, V. Gallese, M. Ardizzi (Parma)
104. The NuArch project: how architecture shapes brain dynamics for social cognition
Anna Laura Fraghi, G. Guerra, P. Presti, M. Manzo, F. Sanchez, A. Ramkumar, A. Serino, N. Bruno, F. Caruana, P. Avanzini, G. Rizzolatti, G. Vecchiato (Parma, Milano, Lausanne)
105. Probing shared visual and somatosensory representations of body effectors via frequency-tagged EEG
Mattia Galigani, B. Italia, G. Gambaretti, L. Cagliero, F. Garbarini (Torino)
106. Exploring the neural dynamics of hands self-touch: electrophysiological evidence for reduced exteroceptive processing
Barbara Italia, C. Zampese, C. Tavazzi, A. Rossi Sebastiano, C. Fossataro, F. Garbarini, V. Bruno (Torino)
107. Individual differences in predictive mechanisms: implications for interoceptive processing
Irene Lozzi, A. Marotta, M. Braga, L. Tarasi, V. Romei, M. Tinazzi, M. Fiorio (Verona, Bologna)

108. Interoceptive accuracy and heart rate variability during heartbeat detection task: effects of HD-tDCS to the insula and anterior cingulate cortex
Carlotta Maiocchi, R. Pirone, A. De Chino, I. Gorrino, A. Vedani, G. Mattavelli (Pavia)
109. Unveiling the spatio-temporal dynamics of cortical excitability modulation induced by action observation: a TMS-EEG study
Antonella Mancuso, M. Bazzini, R. Rossi, G. Hassan, A. Nuara, M. Fabbri-Destro, S. Casarotto, M. Rosanova, P. Avanzini (Parma, Milano)
110. Positive subjective experience during a Joint-Action Task is associated with increased parasympathetic control over cardiac activity
Giorgia Mason, U. Pesci, A. Iannone, F. Marra, M. Maleki Nejad, S. Boukarras, M. Candidi, S. Aglioti, V. Era (Roma)
111. Influence of walking-related visuomotor incongruency during dual task paradigm
Martina Moscogiuri, M. Perrone, B. Di Bello, R. Costanzo, N. Ferrulli, F. Strappini, V. Sulpizio, F. Di Russo, S. Pitzalis (Roma)
112. Classifying motor preparation content through Multidimensional Motor Evoked Potentials (MultiMEP)
Elena Mussini, F. Genovese, M. Fanghella, M. Bortoletto, A. Zazio, P. Rota, L. Cattaneo, J. J. Sykes, C. Sinigaglia, G. Barchiesi (Milano, Lucca, Brescia, Rovereto)
113. Differential impacts of fronto-cerebellar tACS and tvNS on motor learning: evidence for sex-dependent neural modulation
Viola Oldrati, S. Boscarol, A. Ciricugno, M. Arioli, M. Nave, Z. Cattaneo, C. Urgesi, A. Finisguerra (Camerino, Pavia, Bergamo, Udine)
114. Interoceptive predictors of daily functioning in aging: interaction with exteroceptive bodily representations
Maria Rosaria Pasciucco, F. Bubbico, M. Perrucci, P. Croce, M. Costantini, F. Ferri (Chieti)

POSTER III

VENERDÌ 19 SETTEMBRE

115. Boosting cerebellum/M1 and PPC/M1 communication via tACS to improve cued gait in Parkinson's disease patients unresponsive to auditory cueing strategies
Elisa Pelosin, A. Botta, V. Romano, J. Nonnakes, M. Gilat, I. Maidan, L. Avanzino (Genova, Nijmegen, Leuven, Tel Aviv)
116. Embodiment alterations in functional tremor: a virtual reality-based investigation
Stella Petkovic, F. Rossano, S. Fragapane, A. De Biase, D. Genovese, M. Petracca, A. R. Bentivoglio, M. C. Silveri, S. M. Aglioti (Roma)
117. Correlation between irisin and cognition in a cohort of dementia patients
Patrizia Pignataro, M. Dicarlo, C. Zecca, D. Urso, M. Dell'Abate, D. Vilella, F. Borlizzi, R. Zerlotin, A. Oranger, G. Colaianne, S. Colucci, M. Grano, G. Logroscino (Bari, Tricase)
118. Feasibility and effectiveness of synchronous cognitive telerehabilitation in People with Multiple Sclerosis: preliminary findings from the REMOTE-MS study
Giulia Piovani, A. Tacchino, M. Casadio, J. Podda, L. Pedullà, A. Susini, S. Mesmaeker, M. Monti Brigadin, M. Giuntoli, G. Bricchetto, A. Gallo (Genova, Como)
119. Eeg microstate features of cyclic alternating pattern (CAP)
Angelica Quercia, A. Quercia, P. Croce, F. Zappasodi, G. Lanza, R. Ferri (Troina, Chieti, Catania)
120. Immersive virtual reality and gait control: unveiling dual-task influences in functional gait disorders
Francesca Salaorni, G. Bonardi, C. Perin, A. Sandri, C. Bonetto, F. Schena, L. Avanzino, E. Pelosin, C. Geroïn, D. Vidale, M. Pirini, M. Fiorio, M. Tinazzi, M. Gandolfi (Verona, Genova, Padova)
121. Structural brain reserve outperforms short-term atrophy in predicting domain-specific cognitive change
Nicola Sambuco, G. Scaramuzzi, D. Gasparre, E. Cornacchia, A. Bonvino, L. Antonucci, G. Pergola, P. Taurisano (Bari)
122. Investigating the effect of vitality forms in borderline and bipolar disorders
Francesca Tambuscio, A. Fornaroli, C. Carapelli, A. Sciutti, P. Ossola, G. Bertuzzi, F. Stronati, C. De Panfilis, G. Di Cesare (Parma, Genova)

123. Evaluating the aperiodic component of neural power spectra as a marker of aging and neurodegeneration: A meta-analysis
Sara Zago, I. Carrara, S. Lago, M. Vatrano, G. Arcara, S. Montemurro, F. Masina (Venezia, Leuven, Crotone, Padova)
124. Assessment of facial emotion recognition in multiple sclerosis using genuineness-based dynamic stimuli and an emotional Stop Signal Task: preliminary behavioral results and neuroimaging correlates
Stefano Ziccardi, S. Ziccardi, R. Pezzetta, A. Schincariol, F. Guarnaccia, A. Tamanti, C. Costa, D. Marastoni, G. Arcara, M. Calabrese, C. Scarpazza (Verona, Venezia, Padova)
125. Parasympathetic withdrawal and reduced cognitive performance in the aging brain: a system response to an excitatory sympathetic challenge
Lucia Puppo, L. Fornia, G. Puglisi, A. Leonetti, L. Viganò, D. Lucini, M. Malacarne, M. Pagani, G. Cerri (Milano)
126. The Language of Space: Where Is “This” and Where Is “That”
Umberto Quartetti, G. Gambino, F. Brighina, F. Di Giovanni, D. Di Majo, G. Ferraro, P. Sardo, G. Giglia (Palermo)
127. Audiovisual speech perception is supported by shared representations between sensory, multisensory and motor cortices
Giuseppe Rabini, M. Tommasini, G. Lund, M. Mencaroni, G. Mazzi, C. Valzolgher, M. Berger, M. Wurm, F. Pavani, S. Benetti (Brentonico, Rovereto, Edimburgh)
128. Neural signatures of metacognitive judgments
Domenico Romanazzi, L. Tarasi, A. Pasini, M. Covelli, V. Romei (Bologna, Cesena)
129. Asymmetric Interhemispheric Alpha Traveling Waves Predict Directional Bias in Motion Judgments
Vincenzo Romei, A. Alamia, L. Tarasi (Cesena, Tolouse)
130. The interplay between perceptual priming and personality traits
Jessica Russo, A. Marotta, M. Braga, M. Fiorio (Verona)
131. Backward alpha oscillations shape perceptual bias under probabilistic cues
Luca Tarasi, A. Alamia, V. Romei (Bologna, Tolouse, Cesena)
132. Testing the role of supramarginal gyrus and dorsolateral prefrontal cortex in modulating specific facets of temporal discounting: a preregistered TMS study
Anna Vedani, I. Gorrino, D. Romano, C. Maiocchi, N. Canessa, G. Mattavelli (Pavia, Milano)

133. Kidney transplantation improves psychological well-being and decreases anxiety and depressive symptoms compared with the dialysis condition
Patrizia Pignataro, S. Simone, F. Cassone, G. Caggiano, R. Guido, F. Piancone, C. Sivo, A. Dipalma, R. Russo, M. Spilotros, P. Di Tonno, M. Dicarlo, G. Colaiani, S. Colucci, M. Grano, P. Pontrelli, L. Gesualdo (Bari)
134. Promoting anti-mafia attitudes and behaviors: An Immersive Virtual Reality and psychophysiological approach
Valerio Placidi, M. P. Lisi, A. Vabba, A. Frisanco, S. M. Aglioti (Roma)
135. Lead the dance: the neural correlates of interpersonal coordination in asymmetric joint actions
Lucia Maria Sacheli, L. Zapparoli, M. Musco, F. Esposito, G. Basso, E. Paulesu (Milano)
136. Neural mechanisms of emotion authenticity recognition: an fMRI study with dynamic facial stimuli
Cristina Scarpazza, D. Schincariol, D. Costa, D. Pezzetta, D. Melis, D. Frangi, D. Filippini (Padova, Venezia)
137. Olfactory modulation of interpersonal distance toward minority outgroups in virtual reality: the role of social odor awareness and religious attitudes
Andrea Schito, S. D'Oronzo, C. Milli, M. Nicolau, G. Curcio, C. Vicario, S. Invitto (Lecce, L'Aquila)
138. The social transmission of fear: the role of the motor system in observational fear conditioning
Francesca Starita, D. Dalbagno, E. Straulino, G. Di Pellegrino, S. Betti (Cesena, Bologna, Padova)
139. Does experimentally induced REM sleep fragmentation impair emotional memory and reactivity in healthy subjects?
Lorenzo Viselli, F. Salfi, B. Arnone, G. Amicucci, F. Festucci, F. Naccarato, D. Corigliano, C. Colombo, D. Tempesta, N. Cellini, M. Ferrara, A. D'Atri (L'Aquila)
140. Vocal expressions during sleep: electrophysiological predictors of stage 2 NREM vocalizations in sleep talking
Elisa Pellegrini, M. Camaioni, S. Scarpelli, L. Annarumma, V. Alfonsi, M. De Bartolo, R. Calzolari, M. Gorgoni, L. De Gennaro (Roma)

141. The topography of slow wave activity during sleep in sleep talking: an EEG study
Elisa Pellegrini, M. Camaioni, A. Mangiaruga, D. Pumo, C. Sanguineti, A. Castelnovo, A. D'Agostino, L. De Gennaro, M. Gorgoni (Roma, Lugano, Milano)
142. Unravelling the EEG correlates of dream recall in children: insights from a polysomnographic study
Elisa Pellegrini, S. Scarpelli, F. Reda, L. Annarumma, V. Alfonsi, M. Scarcelli, M. Gorgoni, L. De Gennaro (Roma)
143. From schizophrenia to schizotypy: analogy of auditory mismatch negativity deficits
Giulio Pergola, C. Valt, A. Raio, L. Antonucci, B. Coffman, E. D'Ambrosio, D. Grasso, F. Lopez-Caballero, A. Lupo, D. Salisbury, N. Sambuco, G. Stolfi, A. Tavella, A. Bertolino (Bari, Pittsburgh, San Giovanni Rotondo)
144. Tailoring tES: Individualizing tDCS dose through prospective EF modeling reduces variability in neuromodulatory effects
Alberto Pisoni, E. Arrigoni, G. Caiani, A. Villa, A. Cominelli, M. Parazzini, L. Romero Lauro, S. Fiocchi (Milano)
145. Chromomusic therapy in neonatology: physiology and well-being; one year into the project
Noemi Pistola, I. Silvi, D. Costantino, G. Renzi, E. Sanna, S. Valente, F. Del Borgo, V. Sanità, A. Dell'Armellina, C. Paladinelli, F. Maggiara, A. Marrazzo, E. Maronna, A. Mercuri, E. Coluzzi (Roma, Latina, Milano)
146. The influence of expectation and its modulatory effects on joint flexibility
Silvia Rio, N. Pintori, L. Falciati, M. Bortoletto, F. Negro, D. Brignani (Brescia, Lucca)
147. Harmonizing gamma: the effects of 40 Hz and 60 Hz auditory and transcranial stimulation on entrainment
Giorgia Francesca Scaramuzzi, V. Manippa, G. Scianatico, E. Cornacchia, M. Nitsche, D. Rivolta, P. Taurisano (Bari, Dortmund)
148. Photodiode-based triggering system for reliable ERP detection in visuomotor tasks
Aurelia Schirripa, P. Balestrucci, O. Duvert, M. Bianchi, A. Moscatelli, V. Betti (Rom, Stockholm, Pisa)
149. Isolating neural correlates of consciousness through an artificial intelligence-based approach
Ilaria Siviero, N. Ciavatti, E. Colombari, S. Savazzi, S. Storti, C. Mazzi (Verona)

150. How visual awareness and phobic traits shape physiological responses to feared animals
Irene Sperandio, C. Dapor, G. Addis, P. Chouinard, F. Meconi (Rovereto, Melbourne)
151. Tractographic description of the course of cortico-facial fibers in healthy humans: evidence for a dorsal pathway in the brainstem
Marco Tagliaferri, D. Giampiccolo, L. Cattaneo (Trento, Verona)
152. Effects of isolation and sensory deprivation: an hdEEG study on default mode network connectivity
Giovanna Tedesco, M. Marino, C. Sirca, A. Angrilli (Padova)
153. Exploring cerebellar involvement in temporal prediction through cerebellar-brain inhibition (CBI)
Sara Terranova, A. Botta, M. Putzolu, G. Bonassi, C. Cosentino, S. Mezzarobba, R. Simeon, E. Pelosin, L. Avanzino (Genova)
154. Sustained posterior negativity (SPN) and perspective costs in response to natural, uncontrolled symmetrical stimuli
Antonino Vallesi, C. Oletto, A. Ghiani, L. Battaglini, P. Bisiacchi, A. Makin, M. Bertamini (Padova, Liverpool)
155. Changes in EEG beta functional connectivity during narrative listening reflect linguistic-pragmatic impairment in schizophrenia
Riccardo Venturini, R. Venturini, F. Frau, P. Canal, R. Aubonnet, G. Agostoni, G. Arcara, R. Cavallaro, G. Di Lorenzo, M. Bosia, V. Bambini (Pavia, Roma, Milano, Padova)
156. Mapping adaptive reorganization in retinal dystrophies with a multidimensional approach: from the brain to behavior
Alessia Verroca, A. Benamati, I. Busch, A. Filosa, E. Franchin, J. Sanchez-Lopez, I. Siviero, V. Marino, C. Quisisana, L. Colombo, D. Dell'Orco, S. Mele, M. Cecchini, M. Rimondini, P. Cesari, C. Mazzi, S. Savazzi (Verona, Queretaro, Milano)
157. GRADIENT protocol "InteGRated Diagnostic framework and ENThorinal cortex atrophy assessment in MCI patients": towards an integrated early diagnosis for Mild Cognitive Impairment
Anna Zito, M. Caggiula, V. Direnzo, G. Barbagallo, G. Lobreglio, M. Chicone, A. Pauciulo, S. Invitto (Lecce)
158. Walking on different slopes affects early cognitive processing: an ERP study
Martina Perrone, M. Mosciogiuri, B. Di Bello, R. Costanzo, L. Bilandzic, N. Ferrulli, F. Strappini, V. Sulpizio (Roma, Campobasso)

159. Integrating multiple sensory modalities during dyadic interactions modulates behavioural and electrocortical markers of interpersonal cross-modal integration
Ugo Giulio Pesci, M. De Ventura, G. Cuomo, G. Mason, V. Era, M. Candidi (Roma)
160. Investigating the impact of motor planning on pseudoneglect in 3D space
Noemi Pintori, A. Piol, N. Lopomo, S. Savazzi, L. Falciati, D. Brignani (Brescia, Milano, Verona)
161. Uncovering the relation between interoception and impulsivity: HD-tDCS as a tool to modulate delay discounting with monetary and food rewards
Riccardo Pirone, I. Gorrino, C. Maiocchi, A. Vedani, G. Mattavelli (Pavia)
162. Transcutaneous vagus nerve stimulation improves interoceptive accuracy in a heartbeat discrimination task
Maria Pyasik, M. Toninelli, A. Finisguerra, C. Urgesi (Udine, Prato, Roma)
163. Recognizing the self in motion: evidence for the self as a sensorimotor prior
Teresa Ramundo, F. Simonelli, M. Marucci, D. Sili, G. Handjaras, F. Giove, E. Ricciardi, V. Betti (Lucca, Roma)
164. The spatial reach of affective touch: a new perspective on social peripersonal space
Francesca Rastelli, F. Rastelli, F. Ferroni, N. Langiulli, L. Crucianelli, V. Gallese, M. Ardizzi (Parma, London)
165. When me is not me: EEG frequency tagging reveals altered self-identity recognition in women with body-size misperception
Marcella Romeo, M. Galigani, C. Zampese, G. Giannella, F. Garbarini (Lucca, Torino)
166. Uncovering the role of expertise and sensorimotor impairments in shaping body and actions representation via language
Fortunata Romeo, C. Barattieri di San Pietro, L. Sola, M. Rigoni, M. Zernitz, V. Bambini (Pavia, Torino, Santorso)

- 167.** Which biomarker-based diagnostic algorithm for functional motor disorders? Investigating motor, exteroceptive, and interoceptive domains through artificial intelligence analysis
Angela Sandri, M. Gandolfi, I. Di Vico, M. Fiorio, G. Pedrotti, A. Paolicelli, P. Barone, M. Pellecchia, R. Erro, S. Cuoco, I. Carotenuto, M. Russo, C. Vinciguerra, A. Botto, M. Amboni, G. Mansueto, F. Pizzini, A. Tamanti, M. Barillari, M. Lauriola, M. Tozzi, F. Rusciano, C. Geroïn, M. Fasoli, A. Marotta, E. Pizzolla, F. Salaorni, I. Lozzi, F. Bombieri, M. Squintani, S. Mariotto, S. Tamburin, F. Paio, G. De Biasi, G. Piscosquito, L. Zenere, A. Gardoni, S. Basaia, E. Canu, E. Sibilla, M. Filippi, E. Sarasso, F. Agosta, M. Tinazzi (Verona, Salerno)
- 168.** Embodied responses to drone-captured cinematography: a high-density EEG study
Maria Paola Somma, M. Calbi, N. Langiulli, G. D'Adamo, V. Gallese, M. Umiltà (Parma)
- 169.** Valence over value: how monetary and not-monetary action-outcomes shape our sense of agency
Giulia Stanco, M. Mariano, F. Devoto, C. De Bernardi, D. Graps, M. Franchini, L. Zapparoli (Milano)
- 170.** Body image in multiple sclerosis: exploring neuropsychological and mood correlates through an online survey
Alessia Susini, E. Grange, L. Pedullà, G. Ferilli, L. Adami, M. Bassolino, M. Giuntoli, G. Bricchetto, J. Podda (Genova; Sion)
- 171.** Boosting prior beliefs in interoceptive processing increases implicit spirituality and religiosity: Behavioral and electrophysiological correlates
Monica Toninelli, M. Pyasik, E. Marini, L. Tarasi, G. Fusco, G. Ippolito, A. Finisguerra, V. Romei, C. Urgesi (Udine, - Pasian di Prato, Cesena, Roma)
- 172.** Expectancy shapes pain: the influence of pain intensity expectations on psychophysiological responses and pain perception
Vanessa TuoZZo, V. Mannari, V. Bernardi, D. DalbagnO, S. Betti, S. Garofalo, G. Dipellegrino, F. Starita (Cesena)

INFORMAZIONI GENERALI

SEDE DEL CONGRESSO

Polo "G. Zanotto" – Università di Verona
Viale Università, 4
37129 – Verona

SEGRETERIA ORGANIZZATIVA

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ISCRIZIONE

La pre-iscrizione si effettuerà online tramite il sito web www.sipf.it. Si ricorda che per partecipare ai lavori è assolutamente necessario risultare preventivamente iscritti al congresso. Coloro che risulteranno correttamente iscritti all'evento, riceveranno e-mail di conferma. L'iscrizione al congresso dà diritto alla partecipazione ai lavori, al materiale congressuale, all'attestato di partecipazione e alle consumazioni servite in sede congressuale.

Tipologia Iscrizione	Entro il 15 luglio 2025	Entro il 24 agosto 2025	On Site
Socio Ordinario	€ 270	€ 320	€ 450
Socio Under 35	€ 180	€ 210	€ 350
Non socio	€ 400	€ 430	€ 450
Non socio Under 35	€ 250	€ 280	€ 450
One day**	€ 150	€ 180	€ 200
Studenti/PHD universitari***	€ 150	€ 180	€ 200

RESPONSABILE SCIENTIFICO

Mirta Florio

ECM CONGRESSO

Provider n. 1802 – Evento n. 457019

L'evento ha ottenuto 16 crediti ECM ed è stato accreditato per le seguenti figure professionali:

- LOGOPEDISTA (Logopedista, Iscritto nell'elenco speciale ad esaurimento)
- PSICOLOGO (Psicoterapia, Psicologia)
- MEDICO CHIRURGO (Neurologia, Neuropsichiatria Infantile, Psichiatria, Neurochirurgia, Neurofisiopatologia)
- FISIOTERAPISTA (Fisioterapista, Iscritto nell'elenco speciale ad esaurimento)
- TECNICO DI NEUROFISIOPATOLOGIA (Tecnico di Neurofisiopatologia, Iscritto nell'elenco speciale ad esaurimento)

CREDITI FORMATIVI

Si ricorda che per poter ottenere i crediti formativi la presenza minima all'evento deve essere del 90% delle ore formative totali; si ricorda inoltre che il superamento del quiz ECM si ottiene con il 75% di risposte valide

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I badge dovranno essere ritirati presso la segreteria congressuale che sarà aperta 30 minuti prima dell'inizio dell'evento. Si raccomanda ai partecipanti di indossare il proprio badge durante tutta la durata dei lavori.

ATTESTATO DI PARTECIPAZIONE

L'attestato di partecipazione sarà scaricabile tramite il QR CODE che sarà disponibile in segreteria alla fine dei lavori.

ASSICURAZIONE

La partecipazione all'evento non implica alcuna responsabilità da parte della segreteria scientifica e organizzativa per qualsivoglia incidente, danni personali o materiali o furti subiti dal partecipante durante la manifestazione.

RAZIONALE

Il tema del XXXIII Congresso Nazionale SIFP 2025 è "The Adaptive Brain". Ad oggi il cervello è considerato un organo plastico, dinamico e costantemente volto all'adattamento. Fin dalla nascita, infatti, esso è chiamato a

sviluppare comportamenti funzionali all'interazione con l'ambiente circostante, mettendo in atto processi che, influenzandosi reciprocamente, contribuiscono allo sviluppo di un'interpretazione coerente e stabile della realtà. Attraverso tali processi, il cervello impara a riconoscere i molteplici stimoli sensoriali che caratterizzano l'ambiente esterno ed interno, creando modelli predittivi in grado di anticipare gli eventi al fine di permettere una risposta comportamentale ottimale. Questa capacità dinamica e plastica permette al cervello di adattarsi ai mutamenti della persona e dell'ambiente, quali lo sviluppo, l'invecchiamento fisiologico, la variabilità degli ambienti instabili, la gestione dello spazio personale e peripersonale, le esperienze emotive, i movimenti corporei, le interazioni sociali, la neurodivergenza o la presenza di traumi, danni o patologie.

In questa cornice, il Congresso si propone di favorire un dialogo proficuo tra esperti in diverse discipline, creando un terreno fertile per la nascita di sinergie innovative e la condivisione di nuove scoperte. Attraverso un ricco programma di sessioni, esploreremo i meccanismi di adattamento del cervello ai diversi contesti, in un'ottica multidimensionale che abbraccia aspetti sensorimotori, cognitivi, affettivi e sociali. La partecipazione di studiosi provenienti da ambiti disciplinari differenti, come psicologia, biologia, fisiologia, neurologia, ingegneria e scienze del movimento umano, testimonia il nostro impegno interdisciplinare, mosso dalla consapevolezza che solo l'incontro tra questi diversi ambiti può permetterci di comprendere appieno la complessità del cervello, organo adattivo per eccellenza.

RINGRAZIAMENTI

BRAIN PRODUCTS
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