



Body-Mind Interactions in Health and Disease

Summer school, 14-20th June 2020

Via B. Fedi, Polo Porta Nuova, Pisa

Topics

Psychophysiological assessment
Novel brain imaging approaches to brain-mind interactions
Topological approaches to neurophysiological data
Cortical representation of sensory periphery
Body ownership and agency
Hypnotizability and the response to sensorymotor suggestions
Adult neurogenesis in the brain
Interoception
Heart- brain axis and Gut-brain axis
Genes, environment and human behavior
Cognitive impairment and perspectives for treatment
Cognitive control of pain
Eating behaviour
Emotions and the body



The school is open to students and graduated in medicine, psychology, neuroscience, biology, motor science, rehabilitation.

Deadlines for applications: 30th April 2020

Registration fee: euro 500

Accepted applicants are encouraged to submit abstracts for short communications (15 min) within May 31st



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Program

Psychophysiological assessment
Novel brain imaging approaches to study brain-mind interactions
Topological approaches to neurophysiological data
Cortical representation of sensory periphery
Body representation and body ownership in normal and pathological brain
Kinaesthetic illusion shapes the cortical plasticity evoked by action observation
Body-mind interaction: a historical overview
Unconventional pathways carrying interoception
Heart-Brain Axis: Interoception accuracy and Interoceptive Awareness
Functional Investigation of Brain-Heart Interplay : EEG and Cardiovascular Variability Series
Cognition and sleep-waking cycle
From nutrition to the gut microbiota: novel effects of peripheral signals on cortical plasticity
Eating behaviour: culture and psychopathology
Neuropsychological foundations of mindfulness and effects on personality and self-representation
Adult neurogenesis in the brain: relevance in health and mental disorders
Neurobiological correlates of the dissolving Mind
Trigeminal effects on brain functions: from chewing to cognition
Genes by environment interaction in shaping human behavior
Physiological correlates of hypnosis and hypnotizability
Heart beat-evoked potentials associated with hypnotizability
Origin and development of Dance Movement Therapy: how the body shapes emotions
Vibration induced regulation of emotion and arousal
Trauma, sensory perception and interoception in subjects with pain
Cognitive modulation of pain: the role of hypnosis
HOW is often better than WHAT: mechanisms behind the placebo response and management
The body as a mirror of the psyche or vice versa?
Callosal connectivity, cerebral asymmetry and consciousness

Round table : philosophers and biologists

Students free communications

Faculty

L. Billeci
M. Bove
R. Cassiani Ingoni
A. Ciaramella
G. Cioni
C. Crescentini
G. De Benedittis
M. Di Stefano
M. Fabri
U. Faraguna
M. Ferrucci
F. Fornai
F. Garbarini
D. Manzoni
A. Lavazza
M. Mauri
F. Mucci
S. Nannini
G. Natale
S. Pellegrini
G. Petri
P. Pietrini
L. Pratali
S. Raglianti
E. Ricciardi
E.L. Santarcangelo
M. Scarselli
L. Sebastiani
G. Siciliano
M. Testa
P. Tognini
G. Valenza