



Starting time 9.00

Beatrice Pistolato	Investigating the proprioceptive system of Octopus vulgaris arm musculature
Janina Röckner	Quantifying muscle activation and deformation in Octopus vulgaris stereotypical motion
Niccolò Mattiello	Assessing hippocampal connectivity through eGRASP technique
Cesare Bortolami	All-optical neuronal circuit interrogation with reduced crosstalk between imaging and photostimulation

Break 10.20 – 10.40

Andjela Zlatanovic	Cellular and molecular determinants of behavioral flexibility and inflexibility in adaptive behavior
Sofia Barile	Deciphering astrocytic involvement in valence processing within the dorsal raphe nucleus
Giorgio Letti	Do astrocytic calcium signals display allocentric head direction tuning in the hippocampus of freely moving mice?

Elisabetta Sarasso The neural correlates of bradykinesia and the effect of upper limb rehabilitation on brain activity in Parkinson's disease

Break 12.30 – 14.00

Alessandra La Terra	The transcriptional repressor REST is protective in a mouse model of MS
Cristina Schenone	Impact of anodal tDCS and virtual reality on cognitive dysfunction in MS
Eleonora Cornacchia	Activation of somatostatin-expressing AgRP neurons in Experimental autoimmune encephalomyelitis revealed by RNAscope
Mattia Camera	Myelin Lipidome in CMT1A Disease

Break 15.20 – 15.40

Natalia Turrini	CaMKII- α Deficiency Disrupts Neurobehavioral Function and Neuronal Maturation: A Translational Model for Schizophrenia
Alessandra Cucinelli	KCC2 pharmacological targeting for reversing cognitive deficits in elderliness.
Sara Massucco	Prevalence and Features of Motor, Extrapyramidal, and Cognitive Involvement in RFC1 Disease: A Systematic Review and Meta-Analysis



Neurotechnologies

Chairs:

**Maria Ester Canepa,
Tomaso Gianorio,
Niccolò Mattiello**



Neurodegeneration

Chairs:

**Rachele Simeon,
Elisabetta Sarasso,
Pietro Mattioli**

Starting time 9.00

Caterina Canevari	Differential modulation of presynaptic voltage gated Ca ²⁺ channels in excitatory synapses by Synapsin II
Pietro Mattioli	Brain metabolism evaluation and post-processing in the field of sleep and epilepsy
Alessia Frulli	Beyond the risks: exploring the positive influence of social media on adolescent mental health in psychiatric contexts
Marco Veneruso	Neurophysiological Signatures of Non-REM Sleep Parasomnias in Children and Adults

Break 10.20 – 11

Lisastella Morinelli	From darkness to light: what to do to uncover a TDark gene
Tomaso Gianiorio	Development of bioimpedance device for retina assisted injection
Matteo Parodi	Data dimensionality reduction techniques: PCA and NMF.
Simone Giubbolini	Data reproducibility: news and numbers

Break 12.30 – 14.00

Martina Servetti	Method about the generation of pluripotent stem cells, induced glutamatergic neurons and retinal organoids
Vincenzo Daniele Boccia	Neuroimaging – The example of MS
Gianluca Bertoni	Perceived factors influencing the success of pain neuroscience education in chronic musculoskeletal pain: a meta-synthesis of qualitative studies
Filippo Recenti	Association between metabolic conditions, physical activity, and self-efficacy following a first-line exercise and education intervention for osteoarthritis
Matteo Iurato	Detecting changes in upper limb kinematics during Activities of Daily Living through Inertial Measurement Units: a comparison between young and elderly



Neurodevelopment

Chairs:

**Giacomo Mazzoni
Marco Veneruso**



Methodologies

Chairs:

**Raffaella Grimaldi
Lisastella Morinelli**



Rehabilitation

Chairs:

**Giovanni Rosario Giacalone
Cristina Schenone**

The organizing committee:

Elisabetta Sarasso, Cristina Schenone, Niccolò Mattiello, Tomaso Gianiorio, Alessia Frulli, Marco Veneruso, Pietro Mattioli, Lisastella Morinelli.

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