

Research Program



Cycle 38°

Academic year 2022-2023

CV	Research Project	Host Institution	N°	Awardee Name
	Curriculum 1: Cognitive	and Behavioral Neurosc	ience	
1.1	The role of multisensory and sensorimotor functions in higher-order cognition and social functions	University Sapienza of Rome	1	Lamia Piero
1.2	To study the network-level, region- level, and gene-level brain function correlates of unresponsive phenotypes in psychosis	University of Naples"Federico II"	1	Billeci Martina
1.3	Topographic mapping of multisensory processing and representation exploiting resting state or long-lasting naturalistic stimulation fMRI protocols	IMT School for Advanced Studies Lucca	1	Ingenito Alessandro
1.4	Behavioral neurophysiology in macaques	University of Parma	1	No eligible candidate
1.5	Language Acquisition in Typical Development and Hearing Impairment: Early Plasticity	University of Padua	1	Aydin Zeynep
1.6	The role of the motor system in associative learning	University of Bologna	1	Degni Luigi
1.7	Neural mechanisms underlying higher cognitive functions	SISSA	1	No eligible candidate
1.8	Cognitive- and noncognitive factors influencing the gender gap in mathematics	SISSA-Zanichelli	1	Hadi Sichani Maryam
1.9	Cognitive Reserve and brain plasticity	Pegaso University - SISSA	1	Taccari Giovanni
	Curriculum 2: Neuroscieno	ce and Humanities		
2.1	Educational neuroscience in physical education and sport: embodied design to promote effective teaching and learning processes also in an inclusive approach	Pegaso University	1	Pugliese Elisa
2.2	Analysis of physical activity and sleep in Cystic Fibrosis patients and healthy subjects	Pegaso University	1	Argentino Francesca
2.3	Learning by playing: action and interaction to enhance learning processes	Pegaso University	1	Forte Pasqualina
2.4	Neuroscience and implications for education and lifelong learning	Pegaso University	1	Ali Leila

List of the Research Topics

2.5	To study the psychophysiological correlates of hesitation and resistance to vaccination	University of Messina	1	Casula Antony
2.6	The body in the metaverse: Immersive virtual reality and higher order brain functions	Pegaso University - University Sapienza of Rome	1	Placidi Valerio
Cur	riculum 3: Preclinical Clinical and	d Translational Neuroscie	ence	
3.1	Advanced approaches to define new diagnostic and prognostic biomarkers in amyotrophic lateral sclerosis (ALS) and other motor neuron diseases (MNDs)	University of Torino	1	Cabras Sara
3.2	Neural correlates of a wearable supernumerary finger use in healthy subjects and paretic patients	University of Siena	1	Giannotta Alessandro
3.3	Study of innovative drugs and medical devices for developmental psychiatric diseases	Roma Tre University- Nova Mentis Life Science Corp.	1	Ascone Fabrizio
3.4	To study the cellular and molecular mechanisms of neurodegeneration and neuroinflammation in vivo and in vitro	University of Modena and Reggio Emilia	1	No eligible candidate
3.5	The role of neuroinflammation signaling in substance use disorders	Pegaso University – University of Bologna	1	Lacorte Antonio
3.6	Psycho-biological and psychometric correlates of the effects of meditative practices	University of Pisa	1	No eligible candidate
3.7	New methodologies for neurorehabilitation in pediatric patients	IRCCS MEDEA	1	Boscarol Sara
3.8	Role of sleep in shaping neural circuits and behavior	University of Camerino	1	No eligible candidate
3.9	To study the neurobiological, behavioral and pharmacological basis of drug addiction and chronic pain: Focus on the opioid system.	University of Camerino – Park Therapeutics	1	Crook Caitlin
3.10	To study individual vulnerability in substance use disorders: A genetic, molecular and neurocircuitry level approach in rodents.	University of Camerino	2	 Mrizak Hela 2) No eligible candidate
3.11	To study individual vulnerability to social isolation-induced psychopathologies: Focus on the therapeutic effects of psilocybin in preclinical models.	Pegaso University – University of Camerino	1	Bachetti Massimo
3.12	Dissecting the neurobiological mechanisms underlying emotional and social dysregulations in anorexia nervosa	University of Milan	1	Rizzi Beatrice

3.13	Modulators of ion channels and	University of	1	Gaspar Ingride
	transporters as new therapeutic options	Naples"Federico II"		
	for neuropsychiatric diseases			D A A B A
3.14	Neural substrates of neuropsychiatric diseases	University of Ferrara	1	Bonfanti Martina
3.15	To study dysfunctional neuronal autophagy in spinal cord and traumatic brain injury	University of Messina	1	Hasan Ahmed
3.16	To study the impact of different neuromodulation strategies on cognitive rehabilitation in neurological disease	University of Palermo	1	Catania Angela
3.17	The brain renin angiotensin system as a target for intervention in Alzheimer's disease	University of Cagliari	1	No eligible candidate
	Curriculum 4: Computational an			
4.1	Innovative technologies for probing the gut-brain axis in health and disease	CLN2S - IIT	1	D'Abbondanza Noemi
4.2	The Neurophysiological Bases of Biological Motion: From Laboratory to Clinics	University of Bologna	1	Brandolani Riccardo
4.3	Methods to study the mechanisms for large-scale functional connectomics	University of Chieti-Pescara	1	Ferrazza Martina
4.4	Deep Neural Networks of emotional perception in the subcortical visual system	Pegaso University – University of Turin	1	Borriero Alessio
4.5	Neuro-inspired artificial intelligence for healthcare	Pegaso University – Scuola Superiore Sant'Anna	1	Ranjan Pratik
4.6	Computational models for neuroprosthetics	Scuola Superiore Sant'Anna	1	Taddeini Fabio
4.7	Brain decoding for neuroprosthetic control	Scuola Superiore Sant'Anna	1	Privitera Luigi
4.8	Bio-signals analysis and imaging in epilepsy	University of Messina	1	No eligible candidate
4.9	Cellular biophysics of (dys)functional signal transfer in <i>ex vivo</i> human cortical tissue samples	SISSA	1	Ievglevskyi Oleksandr
4.10	Behavioral and electrophysiological correlates of motor rehabilitation and motor learning	CNR	1	Ferrari Laura