



NeuroMI 2023

Annual Meeting of the Milan Center for Neuroscience

Special Theme - *“Next Generation EU:
chances and challenges for Neuroscience”*

December 5, 2023

08:30-17:00

Aula Magna, U6 building, UNIMIB

SCIENTIFIC PROGRAMME

08:30-09:30 Registration and poster set up

09:30-09:45 **Welcome and introduction** (Carlo Ferrarese, Scientific Director, NeuroMI
Guido Cavaletti, Vice Rector (Research), UNIMIB
Giovanna Iannantuoni, Rector, UNIMIB)

09:45-11:00 **“Next Generation EU: chances and challenges for Neuroscience”**
(chairs: Gabriella Bottini, Carlo Ferrarese)

9:45-10:00 Sellitto	Sellitto, Salvato, Jenkinson, Crivelli, Crottini, Squarza, Piano, Protti, Agostoni, Sberna, Fotopoulou, Gandola, Bottini	Investigating the role of skin temperature and thermal perception in bodily self-awareness: a behavioral and VLSM study in patients with disturbed sensation of limb ownership	University of Pavia
10:00-10:15 Chicco	Ribino, Di Napoli, Paragliola, Serino, Gasparini, Chicco	Exploratory analysis of longitudinal data of patients with dementia through unsupervised techniques	Università di Milano-Bicocca
10:15-10:30 Cuffaro	Cuffaro, Bellelli, Ferrara, Okoye, Pozzi, Ferrarese	IN-TeMPO: Italian study with Tailored Multidomain interventions to Prevent functional and cognitive decline in community-dwelling Older adults	University of Milan-Bicocca
10:30-10:45 Citterio	Citterio, Mancuso, Agostini, Caputo, Rovaris, Clerici	Serum miRNAs as biomarkers of conversion to Secondary Progressive Multiple Sclerosis	IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milano

10:45-11:00 Cavaletti	Guido Cavaletti, on behalf of the Spoke 2 Researchers	Spoke 2 of the Anthem project: Connecting patients and therapists through adaptive environments and intelligent sensors to enhance proximity medicine	University of Milan-Bicocca
----------------------------------	---	---	-----------------------------

11:00-13:00 Selected oral communications from the 6 Research Areas

- Biotechnology and Nanomedicine (chair: Francesca Re)

11:00-11:10 Grisetti	Grisetti, Meanti, Lonati, Ficarra, Dell'Oro, Vasciavea, Guglielmotto, Torsello, Tamagno, Buffelli, Bulbarelli, Coco.	Mesenchymal Stem Cells-Extracellular vesicles: a new weapon to fight Alzheimer's Disease?	Università degli studi Milano Bicocca
---------------------------------	--	---	---------------------------------------

- Clinical Neuroscience (chair: Carlo Ferrarese)

11:10-11:20 La Rosa	La Rosa, Saresella, Marventano, Hernis, Piancone, Zoia, Saibene, Meloni, Clerici	NfL quantification in blood as a possible biomarker of disease or rehabilitation outcome: a pilot-study in a cohort of Parkinson's Disease (PD) patients.	Don Carlo Gnocchi Foundation
--------------------------------	--	---	------------------------------

- Cognitive and Behavioural (chair: Eraldo Paulesu)

11:20-11:30 Musco	Musco, Sacheli, Paulesu	Sharing goals with human and non-human agents: social and utilitarian phenomena	Department of Psychology and Milan Center for Neuroscience (NeuroMi), University of Milano-Bicocca
11:30-11:40 De Benedetto	De Benedetto, Di Dona, Zamfira, Turri, Perani, Ronconi	The beneficial effects of combined transcranial alternating current stimulation (tACS) and visuo-attentional reading training in developmental dyslexia	Division of Neuroscience, IRCCS San Raffaele Scientific Institute, Milan
11:40-11:50 Vacchi	Vacchi, La Rocca, Facchin, Strina, Fontana, Gobbo, Lega.	The effect of focal HD-tDCS on right frontal eye fields in age-related differences to visual distractors during driving: a neuromodulation study	University of Milan-Bicocca

- Computational and Systems Neuroscience (chair: Francesca Gasparini)

11:50-12:00 Crocamo	Crocamo, Cioni, Simonetti, Piacenti, Bachi, Bartocchetti, Callovini, Canestro, Nasti, Palpella, Re, Bartoli, Bulgheroni, Carrà	Natural Language Processing, verbal performance and bipolar disorder: a pilot study	University of Milano-Bicocca
12:00-12:10 Monteverdi	Monteverdi ¹ , Manzon ² , Palesi ² , Conca ³ , Mazzocchi ⁴ , Cotta Ramusino ⁵ , Costa ^{2,5} , Pichiecchio ^{2,4} , Cappa ^{3,6} , Gandini Wheeler-	Modeling subject-specific excitatory/inhibitory balance to predict mild cognitive impairment progression.	1Unit of Digital Neuroscience, IRCCS Mondino Foundation, Pavia, Italy

	Kingshott1,2,9 and D'Angelo1,2.		
--	---------------------------------	--	--

- Molecular and Cellular Neuroscience (chair: Annamaria Colangelo)

12:10-12:20 Valtorta	Valtorta, Granata, de Pretis, Diprima, Rainone, Zerbetto, Spinelli, Maspero, Todde, Villa, Di Muzio, Moresco	Assessment of the modulation of glioma microenvironment after radiotherapy combined with drugs	IBFM-CNR
12:20-12:30 Krenn	Cascio, Barilà, Bosone, Castaldi, Villa, Testa, Knoblich, Krenn	Engineering human brain organoids for the study of neurodevelopmental and neuropsychiatric disorders	University of Milan-Bicocca
12:30-12:40 Camazzola	Camazzola, Serrao, Martano, Paglia, Guarnieri, Murru	Shedding light on central nervous system trehalose activity	IN-CNR; Milan

- Neuroimaging and Methodological Research (chair: Rosa Maria Moresco)

12:40-12:50 Belloli	Belloli, Tassan Mazzocco, Presotto, Pinna, Serra, Maspero, Coliva, Morelli, Moresco	Dopamine transporter and metabolic connectivity as brain imaging biomarkers of Parkinson disease evaluation in the MPTPp mouse model	IBFM-CNR
12:50-13:00 Alberti	Alberti, Mastropietro, Rizzo, Taccogna, Bontempi, Schiavi, Canta, Chiorazzi, Pozzi, Napolitano, Gerevini, Tamburin, Cavaletti	Exploitation of high resolution MRI: insights into peripheral nervous system anatomy and axonal damage in rodent models	University of Milano-Bicocca

13:00-14:30 **Posters and lunch**

14:30-16:30 **Oral presentations of PhD students**

(chairs: Rosa Maria Moresco, Gabriella Bottini)

14:30-14:40 Grosso	Grosso, Ricciardi, Gaviraghi, Lupi, D'Angelo, Palesi, Gandini Wheeler-Kingshott	Quantitative Susceptibility Mapping and χ -separation method: how MRI can help us understand COVID-19	PhD in Biomedical Sciences , University of Pavia, Pavia
14:40-14:50 Arrigoni	Arrigoni, Guidali, Bolognini, Pisoni	Exploring the neurophysiological effects of visuomotor paired associative stimulation targeting the mirror neuron system: a TMS-EEG study	University of Milano-Bicocca
14:50-15:00 Goglia	Goglia, Gioia, Colangelo	Intranasal Nerve Growth Factor (NGF) in Parkinson's disease: a molecule rescuing neuroinflammation and mitochondrial dysfunction	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano
15:00-15:10 Gramegna	Gramegna, Bolognini	Neuromodulation of aggressiveness: a tDCS experiment	Ph.D. program in Neuroscience, School of Medicine and Surgery, University of Milano-Bicocca, Monza

15:10-15:20 Melacini	Melacini, Muggeo, Luoni, Giannelli, Rossi, Broccoli	Cas9-based approaches for Frataxin expression reactivation in Friedreich's ataxia	Università degli Studi Milano Bicocca
15:20-15:30 Giambra	Giambra, Sirtori, Redaelli, Tabano, Montesi, Curto, Berni, Ghizzi, Di Cristofori, Giussani, Bentivegna	Glioblastoma giant polyploid stem cells: from genomic profiles to in vitro study of new therapeutic strategies	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano
15:30-15:40 Franca	Franca, Bolognini, Brysbaert	Seeing emotions in the eyes: a new test for assessing emotion recognition	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano
15:40-15:50 Korkmaz	Korkmaz, Lorenzi, Alahmadi, Casiraghi, Monteverdi, D'Angelo, Palesi, Gandini Wheeler Kingshott	The Cerebellum Drives Nonlinear fMRI Responses Differently in Action Execution Compared to Action Observation	Ph.D. program in Biomedical Sciences, University of Pavia, Pavia
15:50-16:00 Pozzi	Pozzi, Cerina, Licciardo, Guo, Brambilla, Cosentino, Remoli, Da Re, Conti, Tremolizzo, Moresco, Isella, De Bernardi, Morzenti, Musarra, Crivellaro, Appollonio, Ferrarese, Basso	Clinical applicability of pCASL as a substitute for FDG-PET in the etiological diagnosis of MCI and SCD: CAPE study protocol.	University of Milano-Bicocca
16:00-16:10 Mariano	Mariano, Stanco, Graps, Rossetti, Bolognini, Paulesu, Zapparoli	The sense of agency in near and far space	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano
16:10-16:20 Dipol	Dipol, Zecca, Palombelli, Fortuna, Morsilli, Ricceri, Canese, Loizzo	The effects of Rho GTPases's modulation on CD1 outbred mice. Evaluation of behavior and brain metabolism of two different pharmacological approaches	Istituto Superiore di Sanità, Rome, Italy
16:20-16:30 Massironi	Massironi, Petilli, Lega, Fontana, Bricolo	Brains at the wheel: a driving simulator study on the effect of top-down proactive distractor inhibitory mechanisms on braking response and lane keeping	Ph.D program in Psychology, Linguistics and Cognitive Neuroscience, Università Milano-Bicocca, Milano

16:30-16:50 Lecture: "The future of neuroethics in the era of AI and neurotechnologies assessment"

Daniela Ovadia, Neuroscience and society Lab, Brain and behavioral science Dept, Università di Pavia and Center for Ethics in science and Journalism (CESJ, Milano, Italy)

16:50-17:00 Concluding remarks

Posters

Poster Number	Presenter Last Name	Authors Last Names	Title	Institution	Section	Oral communication
1	Lucariello	Lucariello, Fratto, Fusè, Conti, Andreoni, Bazzini, Sala, Zoia, Da Re, Sesana, Re, Apollonio, Ferrarese, Tremolizzo	Effect of current and new treatment for Alzheimer's disease on beta-amyloid(1-42) phagocytosis: role of peripheral derived macrophages	Università di Milano-Bicocca	Biotechnology and nanomedicine	
2	Marventano	Marventano, Saresella, Hernis, Piancone, La Rosa, Zoia, Seneci, Re, Clerici	Glibenclamide-Loaded Engineered Nanovectors as New Therapeutic Strategy in modulating Alzheimer's Disease Associated Neuroinflammation	Fondazione don Carlo Gnocchi	Biotechnology and nanomedicine	
3	Grisetti	Grisetti, Meanti, Lonati, Ficarra, Dell'Oro, Vasciavea, Guglielmotto, Torsello, Tamagno, Buffelli, Bulbarelli, Coco.	Mesenchymal Stem Cells-Extracellular vesicles: a new weapon to fight Alzheimer's Disease?	Università degli studi Milano Bicocca	Biotechnology and nanomedicine	ORAL
4	Kravicz	Kravicz, Iannone, Stucchi, Vino, Turolla, Antoniou, Amenta, Rainone, Valtorta, Pellegrino, Passarella, Moresco, Seneci, Todde, Re	Functionalized liposomes for automated fluorine-18 surface radiolabelling and in vivo PET imaging	School of Medicine and Surgery - University of Milano-Bicocca, Tecnomed Foundation - University of Milano-Bicocca, Pharmaceutical Sciences Department - University of Milan, Chemistry Department - University of Milan, Nuclear Medicine Department - San Raffaele Scientific Institute IRCCS, Institute of	Biotechnology and nanomedicine	

				Molecular Bioimaging and Physiology (IBFM) - National Research Council (CNR), National Biodiversity Future Center (NBFC)		
5	Di Girolamo	Di Girolamo, Terribile, Spaiardi, Biella, Sesana, Re, Sancini	Nanoparticles: friends and foes	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Biotechnology and nanomedicine	
6	Prevostini	Prevostini, Frosio, Melgari, Calamaio, Rivolta	How ketogenic diet may be beneficial in controlling neuronal excitability?	Ph.D. program in Medicina Traslazionale e Molecolare - DIMET, Università Milano-Bicocca, Milano	Biotechnology and nanomedicine	
7	Paolini	Paolini, Signorini , Piacentini , Zippo , Longo , Tromba, Chini, Busnelli	The role of the OXT system in brain microvascular development	CNR Institute of Neuroscience	Biotechnology and nanomedicine	
8	Sierri	Sierri, Saenz-de-Santa-Maria, Renda, Sommi, Koch, Zurzolo, Re	Glioblastoma Tunneling Nanotubes as potential targets for nanomedicines	Ph.D. program in DIMET, Università Milano-Bicocca, Milano	Biotechnology and nanomedicine	
9	Rossetti	Rossetti, Mariano, Maravita, Paulesu, Zapparoli	Sense of agency in schizophrenia: A systematic review of literature.	University of Milan-Bicocca, Dept. of Psychology	Clinical neuroscience	
10	Vacchi	Vacchi, Zirone, Strina, Cavaletti, Ferrarese	Mobile applications to support MS-related communities	University of Milan-Bicocca	Clinical neuroscience	
11	La Rosa	La Rosa, Saresella, Marventano, Hernis, Piancone, Zoia, Saibene, Meloni, Clerici	NfL quantification in blood as a possible biomarker of disease or rehabilitation outcome: a pilot-study in a cohort of Parkinson's Disease (PD) patients.	Don Carlo Gnocchi Foundation	Clinical neuroscience	ORAL

12	Cavaleri	Bartoli ¹ , Cavaleri ^{1,*} , Albert ² , De Fazio ³ , Crocamo ¹ , Carrà ^{1,4} .	ReDREAM (Resistant Depression Response to Esketamine Assessing Metabolomics) Project: Untargeted metabolomics to identify biomarkers of treatment response to intranasal esketamine in individuals with Treatment-Resistant Depression	1 Department of Medicine and Surgery, University of Milano-Bicocca, 2 Department of Medicine, Surgery and Health Sciences, University of Trieste, 3 Department of Health Sciences, University "Magna Graecia" of Catanzaro, 4 Division of Psychiatry, University College London	Clinical neuroscience	
13	Di Cristofori	DI CRISTOFORI, RUI, GRAZIANO, CARRABBA, GIUSSANI	Exoscope VS microscope in glioblastoma surgery: evaluation of surgical and functional outcome.	Department of Medicine and Surgery, Università degli Studi di Milano - Bicocca	Clinical neuroscience	
14	Pozzi	Pozzi, Cerina, Licciardo, Guo, Brambilla, Cosentino, Remoli, Da Re, Conti, Tremolizzo, Moresco, Isella, De Bernardi, Morzenti, Musarra, Crivellaro, Appollonio, Ferrarese, Basso	Clinical applicability of pCASL as a substitute for FDG-PET in the etiological diagnosis of MCI and SCD: CAPE study protocol.	University of Milano-Bicocca	Clinical neuroscience	ORAL
15	Bazzini	Bazzini C, Zoia, Sala, Conti, Andreoni, Tremolizzo, Ferrarese	The importance of plasma biomarkers in promoting healthy aging and preventing functional and cognitive decline in older adults	University of Milano - Bicocca	Clinical neuroscience	
16	Cuffaro	Cuffaro, Bellelli, Ferrara, Okoye, Pozzi, Ferrarese	IN-TeMPO: ItaliaN study with Tailored Multidomain interventions to Prevent functional and cognitive decline in community-dwelling Older adults	University of Milan-Bicocca	Clinical neuroscience	ORAL

17	Citterio	Citterio, Mancuso, Agostini, Caputo, Rovaris, Clerici	Serum miRNAs as biomarkers of conversion to Secondary Progressive Multiple Sclerosis	IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milano	Clinical neuroscience	ORAL
18	Ferraro	Ferraro, Agostini, Mancuso, Citterio, Saibene, Salvatore, Castagna, Farina, Alberoni, Calabrese, Navarro, Arcuri, Meloni, Clerici	Expression of miR-223-3p, miR-7-1-5p and α -synuclein in PD patients undergoing a multidisciplinary intensive outpatient rehabilitation program (MAC)	IRCCS Fondazione Don Gnocchi	Clinical neuroscience	
19	Cavaletti	Guido Cavaletti, on behalf of the Spoke 2 Researchers	Spoke 2 of the Anthem project: Connecting patients and therapists through adaptive environments and intelligent sensors to enhance proximity medicine	University of Milan-Bicocca	Clinical neuroscience	ORAL
20	Tettamanti	Tettamanti, Bonandrini, Giorgione, Mazzucchelli, Basso, Amenta, Sulpizio, Marelli	The role of morphological information on reading novel words: an fMRI study	University of Milano-Bicocca	Cognitive neuroscience	
21	Frisco	Frisco, Brozzoli, Koun, Roy, Maravita, Farnè	Holding a tool updates Body Schema without active movements	University of Milano-Bicocca	Cognitive neuroscience	
22	De Benedetto	De Benedetto, Di Dona, Zamfira, Turri, Perani, Ronconi	The beneficial effects of combined transcranial alternating current stimulation (tACS) and visuo-attentional reading training in developmental dyslexia	Division of Neuroscience, IRCCS San Raffaele Scientific Institute, Milan, Italy	Cognitive neuroscience	ORAL
23	Vacchi	Vacchi, La Rocca, Facchin, Strina, Fontana, Gobbo, Lega.	The effect of focal HD-tDCS on right frontal eye fields in age-related differences to visual distractors during driving: a neuromodulation study	University of Milan-Bicocca	Cognitive neuroscience	ORAL
24	Menghini	Menghini, La Rocca, Brighenti, Tosi, Daini	No country for old men_Representations of implicit ageism in the elderly: a VR study	Università degli Studi di Milano-Bicocca	Cognitive neuroscience	
25	Musco	Musco, Sachelì, Paulesu	Sharing goals with human and non-human agents: social and utilitarian phenomena	Department of Psychology and Milan Center for Neuroscience (NeuroMi), University of Milano-Bicocca; Piazza	Cognitive neuroscience	ORAL

				dell'Ateneo Nuovo 1, 20126 Milan, Italy		
26	De Maio	De Maio, Cali, Salvato, Bottini	Increased risk propensity towards bodily stimuli in patients with Fibromyalgia	Department of Brain and Behavioral Sciences, University of Pavia, Pavia, Italy	Cognitive neuroscience	
27	Carioti	Carioti, Riva, Guasti	Exploring the link between language and rhythm: a meta-analytic study.	University of Milano-Bicocca	Cognitive neuroscience	
28	Benini	Benini ¹ , Del Mauro ² , Basso ³ , Baggio ⁴ , Reverberi ^{2,5}	Compositionality of neural representations of logical rules: an fMRI study	RWTH Aachen University	Cognitive neuroscience	
29	Uccelli	Uccelli, Bacchini, Sacheli, Paulesu	What Weber's law can tell us about interpersonal synchronization?	University of Milano-Bicocca	Cognitive neuroscience	
30	Zonca	Zonca, Giampino, Cherubini, Reverberi	Why do we waste social information?	Università degli Studi di Milano-Bicocca	Cognitive neuroscience	
31	Berni	Berni (1), Negrone (1), Sacheli (1,2), Mariano (1), Paulesu (1,2), Zapparoli (1,2)	How motor interactions shape the explicit and implicit sense of agency	University of Milano-Bicocca	Cognitive neuroscience	
32	Barbadoro	Barbadoro, Cacciatore, Ippoliti, Leonardi, Magnani	Tactile perception modulation after somatic Rubber Hand Illusion adopting the predictive coding account perspective	Fondazione IRCCS Istituto Neurologico C. Besta	Cognitive neuroscience	
33	Girondini	Serino, Gallace	Sensorimotor spatial mismatch affects somatosensory processing in the brain: A somatosensory evoked potentials study	Ph.D program in Cognitive Neuroscience	Cognitive neuroscience	
34	Feroldi	Feroldi, Vergallito, Arrigoni, Pisoni, Romero Lauro	Optimizing tDCS protocols: exploring timing and polarities	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Cognitive neuroscience	
35	Messina	Messina, Basilico, Bottini, Salvato	Mild Cognitive Impairment: Assessing the Influence of Interoceptive Processing on Autobiographical Memory Retrieval	Università di Pavia	Cognitive neuroscience	
36	Arrigoni	Arrigoni, Guidali, Bolognini, Pisoni	Exploring the neurophysiological effects of visuomotor paired associative stimulation targeting the mirror neuron system: a TMS-EEG study	University of Milano-Bicocca	Cognitive neuroscience	ORAL

37	Gramegna	Gramegna, Bolognini	Neuromodulation of aggressiveness: a tDCS experiment	Ph.D. program in Neuroscience, School of Medicine and Surgery, University of Milano-Bicocca, Monza, Italy	Cognitive neuroscience	ORAL
38	Franca	Franca, Bolognini, Brysbaert	Seeing emotions in the eyes: a new test for assessing emotion recognition	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Cognitive neuroscience	ORAL
39	Mariano	Mariano, Stanco, Graps, Rossetti, Bolognini, Paulesu, Zapparoli	The sense of agency in near and far space	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Cognitive neuroscience	ORAL
40	Mariano	Mariano, Rossetti, Maravita, Paulesu, Zapparoli	Sensory attenuation deficit and auditory hallucinations in schizophrenia: a causal mechanism or a risk factor? Evidence from meta-analyses.	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Cognitive neuroscience	
41	Sellitto	Sellitto, Salvato, Jenkinson, Crivelli, Crottini, Squarza, Piano, Protti, Agostoni, Sberna, Fotopoulou, Gandola, Bottini	Investigating the role of skin temperature and thermal perception in bodily self-awareness: a behavioral and VLSM study in patients with disturbed sensation of limb ownership	University of Pavia	Cognitive neuroscience	ORAL
42	Pegoraro	Pegoraro, Tosi, Delussi, Campo, Romano, Brattico, Daini	Effectiveness of cognitive interventions in healthy ageing. A systematic review and meta-analytic approach.	Università degli Studi di Milano-Bicocca, Università di Bari - Aldo Moro	Cognitive neuroscience	
43	Crocamo	Crocamo, Cioni, Simonetti, Piacenti, Bachi, Bartocchetti, Callovini, Canestro, Nasti, Palpella, Re, Bartoli, Bulgheroni, Carrà	Natural Language Processing, verbal performance and bipolar disorder: a pilot study	University of Milano-Bicocca	Computational neuroscience	ORAL
44	Cerizza	Cerizza	"Brainwaves as a tissue" A challenge on Biosemiotic ground : Neurologist vs. ChatGPT. Will A.I. get a PhD?	Independent Scholar - NeuroMi	Computational neuroscience	

45	Gallazzi	Gallazzi, Saibene, Corchs, Gasparini	EEG motor imagery decoding: a novel input formulation for deep learning models	Università degli Studi dell' Insubria	Computational neuroscience	
46	Amianto Barbato	Malaspina, Amianto Barbato, Chierigato, Cremaschi, Gasparini, Grossi, Saibene	A behaviour and physiological assessment to study the role of the interfaces in video-game immersiveness	University of Milano-Bicocca	Computational neuroscience	
47	De Grazia	De Grazia, Marta, Geminiani, Casellato, D'Angelo	Influence of the cerebellum on macroscopic brain dynamics during tasks	University of Pavia	Computational neuroscience	
48	Monteverdi	Monteverdi1, Manzon2, Palesi2, Conca3, Mazzocchi4, Cotta Ramusino5, Costa2,5, Pichiecchio2,4, Cappa3,6, Gandini Wheeler-Kingshott1,2,9 and D'Angelo1,2.	Modeling subject-specific excitatory/inhibitory balance to predict mild cognitive impairment progression.	1Unit of Digital Neuroscience, IRCCS Mondino Foundation, Pavia, Italy 2Department of Brain and Behavioral Sciences, University of Pavia, Pavia, Italy 3IRCCS Mondino Foundation, Pavia, Italy 4Advanced Imaging and Artificial Intelligence Center, IRCCS Mondino Foundation, Pavia, Italy 5Unit of Behavioral Neurology, IRCCS Mondino Foundation, Pavia, Italy 6University Institute of Advanced Studies (IUSS), Pavia, Italy 9NMR Research Unit, Queen Square Multiple Sclerosis Centre, Department of	Computational neuroscience	ORAL

				Neuroinflammation, UCL Queen Square Institute of Neurology, London, United Kingdom		
49	Gabardi	Gabardi, Saibene, Gasparini, Rizzo, Stella	A frequency-based multi-artifact deep learning model for EEG denoising	University of Milano-Bicocca	Computational neuroscience	
50	Introzzi	Introzzi, Zonca, Cabitza, Cherubini, Reverberi	Artificial Intelligence for Medical Decision Making: Towards a Theory of Artificial Mind	PhD Program in Psychology, Linguistics and Cognitive Neuroscience, Università Milano-Bicocca, Milano	Computational neuroscience	
51	Chicco	Ribino, Di Napoli, Paragliola, Serino, Gasparini, Chicco	Exploratory analysis of longitudinal data of patients with dementia through unsupervised techniques	Università di Milano-Bicocca	Computational neuroscience	ORAL
52	Massironi	Massironi, Petilli, Lega, Fontana, Bricolo	Brains at the wheel: a driving simulator study on the effect of top-down proactive distractor inhibitory mechanisms on braking response and lane keeping	Ph.D program in Psychology, Linguistics and Cognitive Neuroscience, Università Milano-Bicocca, Milano	Computational neuroscience	ORAL
53	Folci	Guglielmetti, Seccia, Erreni, Busnelli, Biagioni, Baronchelli, Pronot, Sarai Polona Diestra, Prieto, Guarnieri, D'Autilia, Poupon, Bassani, Passafaro, Fossati, Pozzi, Forneris, Martin, Matteoli, Folci	Consequences of OPHN1 SUMOylation in synapse physiology and neurodevelopmental disorders.	Istituto di Neuroscienze CNR	Molecular and cellular neuroscience	
54	Camazzola	Camazzola, Serrao, Martano, Paglia, Guarnieri, Murru	Shedding light on central nervous system trehalose activity	IN-CNR; Milan	Molecular and cellular neuroscience	ORAL

55	Valtorta	Valtorta, Granata, de Pretis, Diprima, Rainone, Zerbetto, Spinelli, Maspero, Todde, Villa, Di Muzio, Moresco	Assessment of the modulation of glioma microenvironment after radiotherapy combined with drugs	IBFM-CNR	Molecular and cellular neuroscience	ORAL
56	Gabrielli, Balosso	Gabrielli, Balosso, Colombo, Ravizza, Frigerio, Di Sapia, Kebede, Lombardo, Cretich, Vezzani, Verderio.	Gut Extracellular Vesicles as mediators of gut-to-brain communication in epilepsy	CNR Institute of Neuroscience; Istituto di Ricerche Farmacologiche Mario Negri IRCCS	Molecular and cellular neuroscience	
57	Ranieri	De Gasperi, Ranieri, Krenn	Unraveling the Role of Type I Interferons in Neurodevelopment: Insights from Human Brain Organoids	Università di Milano-Bicocca	Molecular and cellular neuroscience	
58	Valtorta	Valtorta, Granata, de Pretis, Diprima, Rainone, Zerbetto, Spinelli, Maspero, Todde, Villa, Di Muzio, Moresco	Assessment of the modulation of glioma microenvironment after radiotherapy combined with drugs	IBFM-CNR	Molecular and cellular neuroscience	
59	Bazzini	Bazzini, Grassenis, Sala, Conti, Sesana, Re, La Rosa, Saresella, Ferrarese, Zoia	Role of Glibenclamide-loaded nanovectors as a potential strategy in downregulating Alzheimer's Disease-associated inflammatory pathways	University of Milano - Bicocca School of Medicine and Surgery	Molecular and cellular neuroscience	
60	Sciandrone	Sciandrone, Pensotti, Palmioli, Airoidi, Regonesi	Cell-free and in vivo characterization of the inhibitory activity of Lavado cocoa flavanols on the amyloid protein ataxin-3: towards new approaches against spinocerebellar ataxia type 3	Università Milano-BICOCCA	Molecular and cellular neuroscience	
61	Krenn	Cascio, Barilà, Bosone, Castaldi, Villa, Testa, Knoblich, Krenn	Engineering human brain organoids for the study of neurodevelopmental and neuropsychiatric disorders	University of Milan-Bicocca	Molecular and cellular neuroscience	ORAL
62	D'Aloia	D'Aloia, Tisi, Sacco, Lecchi, Re, Pellegatta, Ceriani	RALGPS2 TDARK: A NEW POTENTIAL TARGET IN GLIOBLASTOMA	University of Milano-Bicocca	Molecular and cellular neuroscience	
63	Scuteri	Scuteri, Squarzone, Donzelli, Rodriguez-Menendez Alberti, Cavaletti	Selective HDAC6 inhibitors as neuroprotective tool against Oxaliplatin neurotoxicity	University of Milano-Bicocca, Italy	Molecular and cellular neuroscience	

64	Gioia	Gioia, Sala, Goglia, Bertolazzi, Ferrarese, Colangelo	Gene set enrichment analysis of different injury models and evaluation of possible biomarkers in PBMC from PD patients	Ph.D. Program in Translational and Molecular Medicine (Dimet), Università degli studi Milano Bicocca, Milano	Molecular and cellular neuroscience	
65	Cascio	Cascio, Riccardi, Barilà, Protti, Krenn	Combining CRISPR-Cas9 editing with a novel 3D neuro-immune organoid model to explore the roots of neurodevelopmental disorders	PhD program in Molecular and Translational Medicine (DIMET), Università Milano-Bicocca, Milano	Molecular and cellular neuroscience	
66	Goglia	Goglia, Gioia, Colangelo	Intranasal Nerve Growth Factor (NGF) in Parkinson's disease: a molecule rescuing neuroinflammation and mitochondrial dysfunction	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Molecular and cellular neuroscience	ORAL
67	Cerina	Cerina, Conte, Gullo, Becchetti	Nicotinic receptors in cortical circuit development and sleep-related epilepsy.	University of Milano-Bicocca	Molecular and cellular neuroscience	
68	Melacini	Melacini, Muggeo, Luoni, Giannelli, Rossi, Broccoli	Cas9-based approaches for Frataxin expression reactivation in Friedreich's ataxia	Università degli Studi Milano Bicocca	Molecular and cellular neuroscience	ORAL
69	Nannoni	Nannoni, Ordazzo, Muggeo, Bido, Giannese, Dejan Lazarevic, De Palma, Perego, Mauri, Ruffini, Broccoli	Investigate the subtle changes of DA synapses in the early phases of PD	Università degli Studi Milano Bicocca	Molecular and cellular neuroscience	
70	Giambra	Giambra, Sirtori, Redaelli, Tabano, Montesi, Curto, Berni, Ghizzi, Di Cristofori, Giussani, Bentivegna	Glioblastoma giant polyploid stem cells: from genomic profiles to in vitro study of new therapeutic strategies	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Molecular and cellular neuroscience	ORAL
71	Ficarra	Ficarra, Robutti, Rivolta, Ferrarese, Sala	POTENTIAL EFFECT OF AMBROXOL IN AUTOPHAGY MECHANISMS IN AN IN VITRO MODEL OF PARKINSON'S DISEASE	Università Milano-Bicocca	Molecular and cellular neuroscience	

72	Dipol	Dipol, Zecca, Palombelli, Fortuna, Morsilli, Ricceri, Canese, Loizzo	The effects of Rho GTPases's modulation on CD1 outbred mice. Evaluation of behavior and brain metabolism of two different pharmacological approaches	Istituto Superiore di Sanità, Rome, Italy	Molecular and cellular neuroscience	ORAL
73	Lambiase	Lambiase, Moukham, Tripodi, Coccetti	Characterization of plant bioactive molecules in eukaryotic models of Parkinson's disease	PhD program TECSBI	Molecular and cellular neuroscience	
74	Corbetta	Corbetta-Lonati-Riboldi-Cazzaniga-Botto-Palestini-Bulbarelli	Nutrition interventions in aging: study of phyto-compounds abti-inflammatory and anti-oxidant properties	Ph.D. program in Neuroscience, Università Milano-Bicocca, Milano	Molecular and cellular neuroscience	
75	Belloli	Belloli, Tassan Mazzocco, Presotto, Pinna, Serra, Maspero, Coliva, Morelli, Moresco	Dopamine transporter and metabolic connectivity as brain imaging biomarkers of Parkinson disease evaluation in the MPTPp mouse model	IBFM-CNR	Neuroimaging and methods	ORAL
76	Gaviraghi	Gaviraghi, Kanber, Ricciardi, Palesi, Grussu, Tur, Calvi, Samson, Gandini Wheeler-Kingshott	Speed up diffusion MRI acquisition using a deep learning network from k-space to image-space	University of Pavia	Neuroimaging and methods	
77	Alberti	Alberti, Mastropietro, Rizzo, Taccogna, Bontempi, Schiavi, Canta, Chiorazzi, Pozzi, Napolitano, Gerevini, Tamburin, Cavaletti	Exploitation of high resolution MRI: insights into peripheral nervous system anatomy and axonal damage in rodent models	University of Milano-Bicocca	Neuroimaging and methods	ORAL
78	Devoto	Devoto, Mariano, Gornetti, Paulesu, Zapparoli	Functional connectivity of the ventral tegmental area during visually guided eating imagery contributes to food craving	University of Milano-Bicocca	Neuroimaging and methods	
79	Cisotto	Cisotto, Zancanaro, Zoppis, Manzoni	Uses and potential of variational auto-encoders in EEG processing	University of Milano-Bicocca, University of Padova	Neuroimaging and methods	
80	Lorenzi	Roberta	Personalized Medicine through Mean Field Models and Functional MRI Integration: The Cerebellar Use Case	Università di Pavia	Neuroimaging and methods	
81	Grosso	Grosso, Ricciardi, Gaviraghi, Lupi, D'Angelo, Palesi, Gandini Wheeler-Kingshott	Quantitative Susceptibility Mapping and χ -separation method: how MRI can help us understand COVID-19	PhD in Biomedical Sciences , University of Pavia, Pavia	Neuroimaging and methods	ORAL

82	Zecca	Zecca, Singh, Palombelli, Canese	The role of proton magnetic resonance spectroscopy (1H-MRS) in Mild Cognitive Impairment and in Alzheimer's disease: a review on the most recent literature	Sapienza Università - Istituto Superiore di Sanità	Neuroimaging and methods	
83	Cerina	Cerina, Rui, De Bernardi, Moresco, Giussani, Basso, Di Cristofori	Preliminary assessment of semi-automated segmentation tool for GBM neurosurgery: a BraTS-Toolkit approach	Università degli Studi di Milano - Bicocca	Neuroimaging and methods	
84	Korkmaz	Korkmaz, Lorenzi, Alahmadi, Casiraghi, Monteverdi, D'Angelo, Palesi, Gandini Wheeler Kingshott	The Cerebellum Drives Nonlinear fMRI Responses Differently in Action Execution Compared to Action Observation	Ph.D. program in Biomedical Sciences, University of Pavia, Pavia	Neuroimaging and methods	ORAL
85	Licciardo	Licciardo, Ferri, Crivellaro, Morzenti, Ferrarese, Appollonio, Isella	Metabolic subtypes of PCA: a data-driven approach controlling for pathophysiology-related hypometabolism.	Bicocca University	Neuroimaging and methods	
86	Lupi	Lupi, Gaviraghi, Rancati, Palesi, Grussu, Battiston, Tur, Calvi, Collorone, Ricciardi, Prados, Kanber, D'Angelo, Samson, Gandini Wheeler-Kingshott	Myelin quantification in Magnetic Resonance Imaging	Ph.D program in Neuroimaging and Brain Modelling, University of Pavia, Pavia	Neuroimaging and methods	