

(A) UNCONDITIONALLY SUPPORTED LECTURES

With the unconditional support of Alexion Neuromyelitis optica spectrum disorders: from pathophysiology to

novel therapeutic strategies Ferdinando Nicoletti (Rome, Italy)

With the unconditional support of Chiesi Choroid Plexus: Knocking on Brain's Door

Massimo Alessio (Milan, Italy)

OTHER LECTURES

With the support of Roche

Targeting Neuroinflammation by inhibition of the Monoacylglycerol Lipase Ludovic Collin (Basel, CH)

With the support of Biogen

Applying advances in CNS genetics and stem cell biology to accelerate drug discovery and development Sally John (Cambridge, MA, USA)

With the support of Amicus Therapeutics

Challenges in neuromuscolar rare diseases: a drug discovery perspective Brian Fox (Philadelphia, PA, US)

M CME CREDITS

CME accreditation (valid for Italian participants only) for:

- PHYSICIAN Neurology, Psychiatry, Palliative Care, Pharmacology and Clinical Toxicology, Geriatrics, Neurosurgery, Physical Medicine and Rehabilitation, Diabetes and Metabolic Diseases
- PHARMACIST
- BIOLOGIST

CME credits: 9.1 **ID event:** 365943

Italian CME credits will be granted to those participants who attend at least 90% of scientific works, fill in the questionnaire assessment of perceived quality and duly fill in the evaluation questionnaires answering correctly 75% of the guestions. At the end of the scientific work, an e-mail with the link to access the CME questionnaire will be sent.



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MORE THAN NEURONS

Changing the paradigm for novel therapeutic avenues



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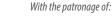












ISPOR Italy-Rome Chapter

III EDITION

DECEMBER 15th-17th, 2022

O TORINO, ITALY

Nuvola Lavazza

Via Ancona 11/A

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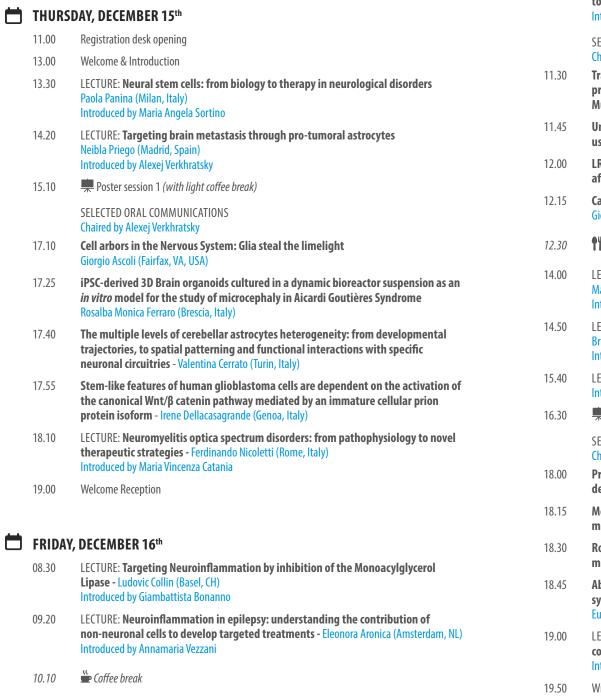
Changing the paradigm for novel therapeutic avenues

Neurological and psychiatric disorders have long been perceived as the exclusive consequence of abnormalities in neurons. Increasing knowledge on newly identified functions of non-neuronal cells together with findings of their abnormalities in a variety of brain pathological states and in ageing now suggest a shift from a neurono-centric to a glial-inclusive viewpoint in neuroscience and in neuropsychopharmacology. After the success of the first two meeting editions, we would like to continue the discussion of recent preclinical and clinical findings implicating the involvement of non-neuronal cells in initiation, progression or protection of several neuropathologies. Our perspective is that therapeutic strategies aimed at improving/correcting not only neuronal but also non-neuronal cell state and functional performance may open new venues for relevant and undertreated brain diseases.

TOPICS

The meeting focuses on any aspect related to non-neuronal cell populations and their interaction with neurons and neural function (in healthy and pathological conditions), including: neural stem cells, astrocytes and microglia, OPC and oligodendrocytes, Schwann cells, enteric glia, glia-neuron crosstalk, neuro-glia-vascular interactions, blood brain barrier, choroid plexus and meninges.

Non-neuronal targets for current and future pharmacological interventions (small molecules, ATMP, nutraceuticals) will be discussed and proposed.



SCIENTIFIC PROGRAM

A Marie	
10.40	LECTURE: Applying advances in CNS genetics and stem cell biology to accelerate drug discovery and development - Sally John (Cambridge, MA, USA) Introduced by Pier Luigi Canonico
	SELECTED ORAL COMMUNICATIONS Chaired by Dmitry Lim
11.30	Transcriptomic and epigenetic landscape of human iPSCs-derived neural progenitors and oligodendrocytes from monozygotic twins discordant for Multiple Sclerosis - Valentina Murtaj (Milan, Italy)
11.45	Uncovering new targets and therapies for amyotrophic lateral sclerosis (ALS) using artificial intelligence (AI) approaches - Monika Myszczynska (Sheffield, UK)
12.00	LRRK-2 inhibition by PF06447475 modulates neuronal damage and immunity after spinal cord trauma - Irene Paterniti (Messina, Italy)
12.15	Calcineurin regulates neuro-immune network in inflammatory bowel diseases Giorgia Colombo (Novara, Italy)
12.30	TY Lunch
14.00	LECTURE: Adult neurogenesis and neurodegenerative diseases Maria Victoria Llorens-Martin (Madrid, Spain) Introduced by Mariagrazia Grilli
14.50	LECTURE: Challenges in neuromuscolar rare diseases: a drug discovery perspecti Brian Fox (Philadelphia, PA, US) Introduced by Filippo Caraci
15.40	LECTURE: Of life and death of motor neurons - Alessandro Vercelli (Turin, Italy) Introduced by Monica Di Luca
16.30	Poster session 2 (with light coffee break)
	SELECTED ORAL COMMUNICATIONS Chaired by Anna Maria Pittaluga
18.00	Protein O-GlcNAc: a nutrient-dependent PTMs linking metabolic defects with the development of Alzheimer signatures - Fabio Di Domenico (Rome, Italy)
18.15	Molecular and cellular mechanisms underlying the relationship between metabolic alterations and cognitive decline - Maria Luisa Malosio (Milan, Italy)
18.30	Role of TNFR2 in regulating the pro-remyelinating properties of microglia in a murine model of stroke - Francesca Carolina Mannella (Milan, Italy)
18.45	Aberrant crosstalk between insulin signaling and mTOR in young Down syndrome individuals revealed by neuronal-derived extracellular vesicles Eugenio Barone (Rome, Italy)
19.00	LECTURE: Microglia modulate neuronal and vascular responses via compartment-specific mechanisms - Adam Denes (Budapest, Hungary) Introduced by Rosa Chiara Paolicelli
19.50	Wrap up and day 2 Conclusions

