

“Typical and Atypical” Aging: From Cognitive Aging to Neurocognitive Disorders

Thursday, September 11, 2025 5:30 PM (1h 30m)

As the population is getting older, the prevalence of cognitive impairment and dementia is increasing, and it is important to (better) understand the risk factors, as well as the protective factors determining cognitive aging. Although early pathologic changes in AD have received the majority of attention, burgeoning literature also recognizes the role of factors such as cognitive reserve, executive functioning, and psychosocial factors as contributors to resiliency.

Part of new cross-disciplinary approaches in cognitive neuroscience and experimental psychology, the current symposium aims to elucidate the intricate interrelations between biological, psychological, and social determinants of successful/unsuccessful aging. Topics will cover identifying early symptoms of executive dysfunction through psychophysiology and imaging, emphasizing the involvement of prefrontal cortex activity to support cognitive control.

The remainder of this Research Topic will investigate differences in perceptual inference and oscillatory brain activity as potential markers of aging-related cognitive-process alterations. The interplay of brain reserve, resilience, and social isolation will also be discussed, including how these components can potentially interact to impact susceptibility to cognitive decline. Recent results on resting-state gamma activity as a potential marker of associative memory decline, as well as data associating depressive symptoms and amyloid pathology with accelerated preclinical cognitive decline, will also be presented.

Lastly, the symposium will consider the promise of non-invasive brain stimulation approaches, including novel means for personalizing interventions that could ameliorate cognitive decline and promote well-being in an aging population.

If you're submitting a symposium talk, what's the symposium title?

If you're submitting a symposium, or a talk that is part of a symposium, is this a junior symposium?

No

Primary author: TAURISANO, Paolo (Università degli Studi di Bari "Aldo Moro")

Co-author: Prof. AMANZIO, Martina (Università degli Studi di Torino)

Presenters: Prof. AMANZIO, Martina (Università degli Studi di Torino); TAURISANO, Paolo (Università degli Studi di Bari "Aldo Moro")

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