Challenging the neuroprotective potential of physical exercise: insights into plasticity-related mechanisms in the aging brain

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Mild cognitive impairment (MCI) is a prodromal stage of Alzheimer disease (AD). To date, therapeutic approaches to AD are symptomatic and of modest e cacy. Nonetheless, studies in animal and human populations suggested that physical training results in structural and functional brain changes. e current project aims at exploring brain mechanisms mediating the neuroprotective e ect of di erent types of physical exercise among patients with amnestic MCI (aMCI). Speci cally, we performed a comprehensive study to examine the e ect of aerobic and non-aerobic training. Neuropsychological evaluations, assessment of neurotrophic factor (BDNF), cardiorespiratory tness assessment and fMRI have been performed before the

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