
臺灣大學應用力學研究所
演 講 公 告

主 講 人：張立鴻副教授
陽明交通大學神經科學研究所

講 題： Aging, Visual Perceptual Learning and Plasticity

摘 要： 如附件

主 持 人： 陳國慶所長

時 間： 112年12月4日（星期一）下午2時20分開始

地 點： 臺灣大學應用力學研究所國際會議廳

☆☆ 歡迎聽講，敬請張貼 ☆☆

Aging, Visual Perceptual Learning and Plasticity

張立鴻副教授

陽明交通大學神經科學研究所

Abstract :

Human brain processing declines with aging and reveals cognitive and perceptual impairments. Recent studies on visual perceptual learning (VPL) and brain plasticity show that repetitive and intensive practice with the senior subjects leads to the enhancement or even recovery of declined visual function. Compared to younger adults, older adults' learning effect showed significant individual differences; such individual differences cannot be explained by any cognitive or visual function difference. In my presentation, I will focus on whether PL can be acquired by older adults to enhance impaired visual ability while observing the structural and metabolic changes in the early visual system. These studies may provide more evidence of plasticity in the visual system in older adults and develop more efficient strategies and tools for senior learners, enabling the application of such findings to clinical treatments and rehabilitations.